

# AND UNUSUAL WEATHER PHENOMENA WITH LATE REPORTS AND CORRECTIONS



COVER: Thunderstorms formed in northestern Oklahoma on May 26, 1991, out ahead of a cold front. Pictured is the storm, east of Woodard, Oklahoma, that produced three tornadoes. Notice the wall cloud is accompanied by a lightning strike! (see page 16.) (Photo courtesy and Moller, Fort Worth, Texas.)

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#### STORM DATA

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National Climatic Data Center Editor: Grant W. Goodge

Publication Staff: William Angel, Jay Hollifield, Jeanette King, and Sara Lackey

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

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

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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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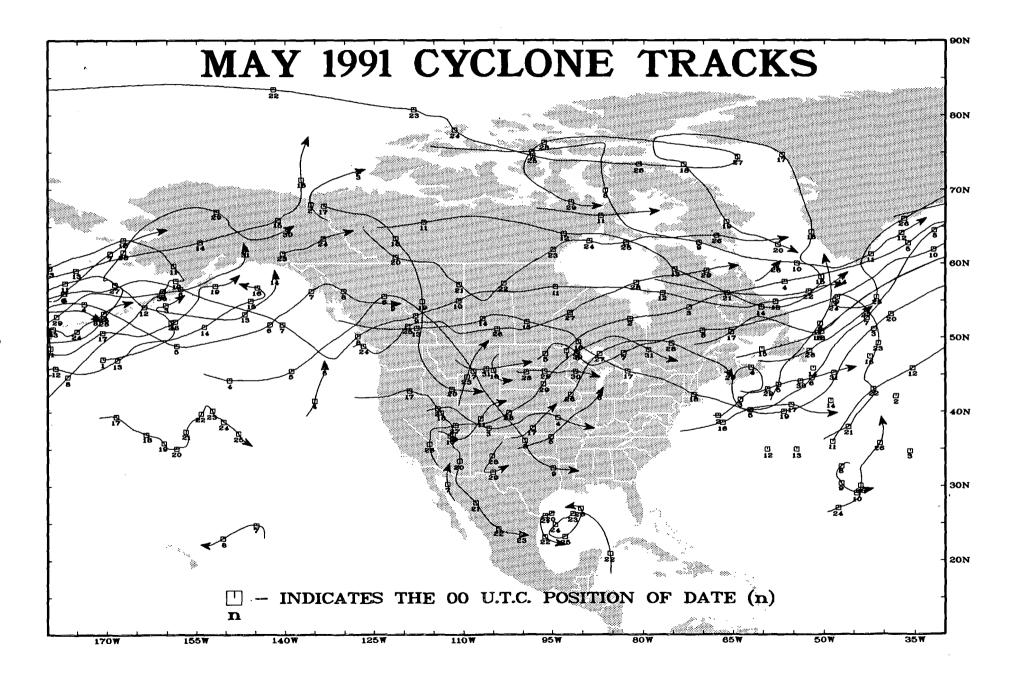
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"I certify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center, Asheville, North Carolina 28801-2733."

Sometimes Washer

Director

National Climatic Data Center



# CLIMATIC DATA FOR THE MONTH

### PRECIPITATION AND TEMPERATURE ANOMALIES - MAY 1991

Table 1 lists the 97-year temperature and precipitation rankings for the nine climatically homogeneous regions outlined in Fig. 1.

May 1991 finished the spring season on a warm, wet, and mild note. A summer-like upper air pattern dominated most of the month's weather. Numerous record daily highs from the Plains to New England were set as daytime highs went above 90°F. The heat and humidity produced apparent temperatures between 105° and 110°F across portions of the East. By contrast, cool conditions existed in the western third of the country. The West and Northwest monthly temperature departures of -3° to -5°F were common. Most of Alaska and Hawaii had warmer than normal temperatures with departures up to +10°F. Nationally, May 1991 finished as the seventh warmest May since 1895. (See Figs. 2 and 3 on page 5.)

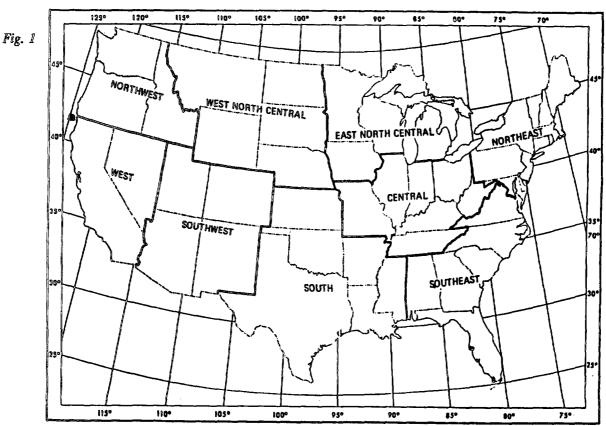
Precipitation was widespread over the nation with the exception of the southern Rockies, the Southwest, and parts of the Far West, Alaska, and Hawaii. The greatest

TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR MAY 1991, BASED ON THE PERIOD 1895-1991.

1 = DRIEST/COLDEST, 97 = WETTEST/HOTTEST.

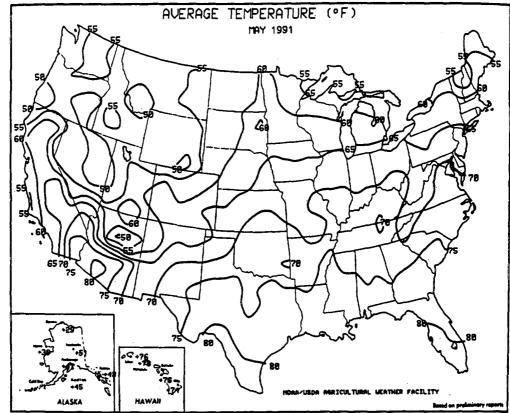
REGION	PRECIPITATION	TEMPERATURE	
Northeast	36	95	
East North Central	79	94	
Central	62	95	
Southeast	94	93	
West North Central	86	73	
South	76	93	
Southwest	35	56	
Northwest	86	15	
West	65	12	
National	90	91	
From National Clin	natic Data Center		

monthly totals of precipitation (> 10 inches) fell in the lower Mississippi Valley, the Southeast, and portions of the central Plains. Nationally, May 1991 ranked as the eighth wettest May on record. (See Figs. 4 and 5 on page 6.)



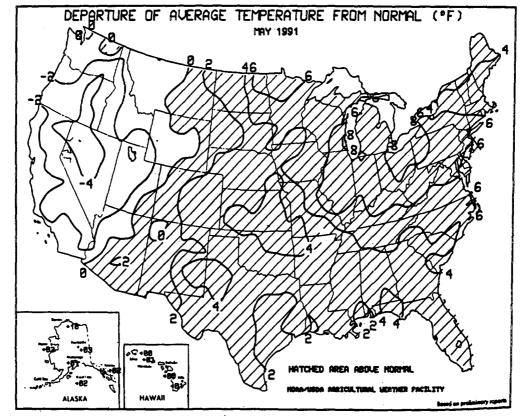
From National Climatic Data Center

Fig. 2



Reprinted from Weekly Weather and Crop Bulletin - June 11, 1991

Fig. 3



Reprinted from Weekly Weather and Crop Bulletin - June 11, 1991

TOTAL PRECIPITATION, INCHES

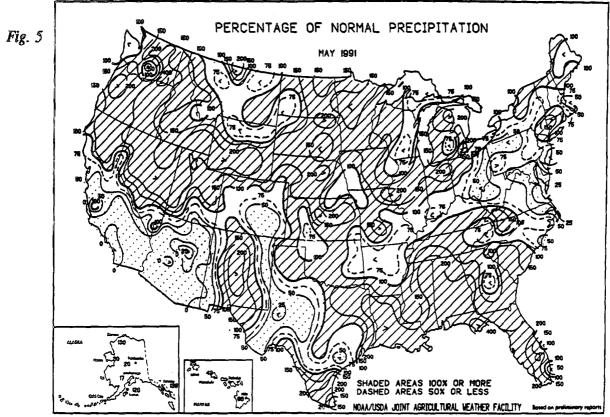
HAY 1991

WAR 1991

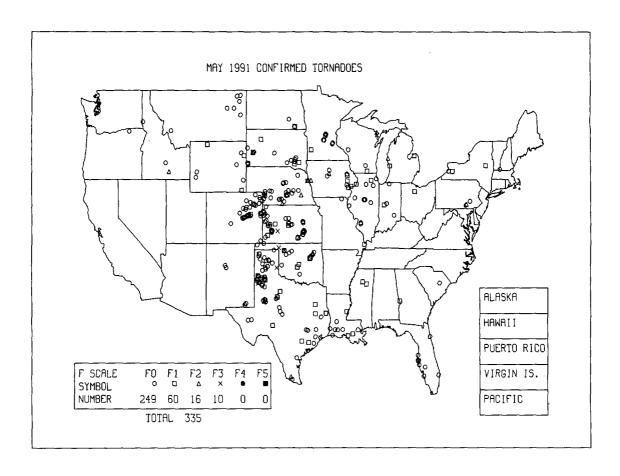
LESS THAN 8.5 THORES

NOMING AND TARREL TRAN. 8.5 THORES

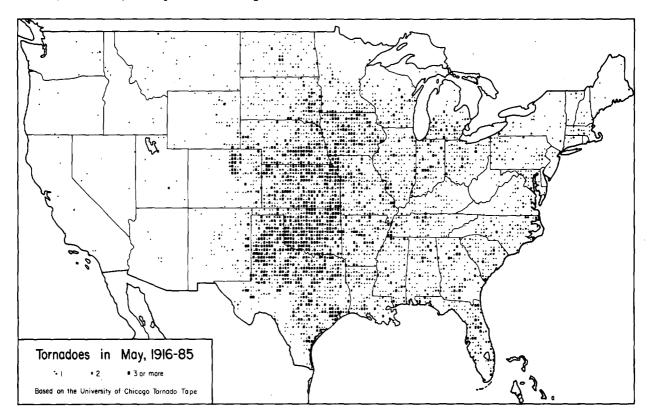
Reprinted from Weekly Weather and Crop Bulletin - June 11, 1991



Reprinted from Weekly Weather and Crop Bulletin - June 11, 1991



May was an extremely active month for tornadoes. A total of 335 tornadoes touched down during the month; 249 tornadoes were classified as F0. There were no reported F4 or F5 tornadoes in the month of May 1991. (See map above.) In May 1991, the year's most tornadic month, not a single death occurred; however, 66 injuries were reported.



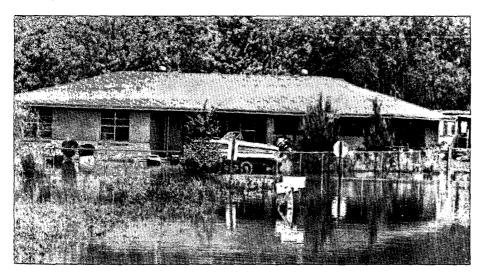
# **OUTSTANDING STORMS OF THE MONTH**

### 1. FLOODING IN MAY 1991

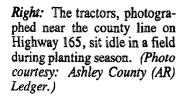
Flooding occurred throughout parts of the United States during the month of May 1991. Some of the flooding was the worst ever in the affected areas. On the following pages are pictures of some of the more notable flooding events such as Arkansas (May 3rd), Nebraska (May 10th-11th and 22nd-23rd), South Dakota (May 15th), Iowa (May 17th), and finally, Massachusetts (May 30th-31st).

### ARKANSAS - MAY 3RD

Heavy rain fell on areas already rain-soaked thus aggravating the flooding. The flood damage had people comparing this flood to that of 1927. Governor Bill Clinton declared Ashley County (pictured below) and a dozen other counties disaster areas.



Left: High water forced families from their homes. (Photo courtesy: Ashley County (AR) Ledger.)







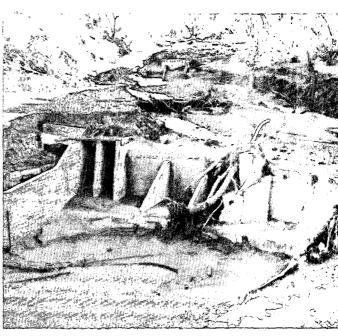
Left: Highway 8 east of Hamburg at Overflow Hill where fishermen were catching catfish in areas normally under cultivation. (Photo courtesy: Ashley County (AR) Ledger.)

### **NEBRASKA - MAY 10-11**

Up to 7 inches of rain fell in the Soldier Creek and White River basins. The White River crested over 16 feet. Damage included washed out roads, bridges, and railroad tracks. A golf course, state fish hatchery, and a mobile home park were destroyed. Four hundred cattle were killed at the livestock market. Only one human fatality occurred when a 27-year-old male was swept away by the flood waters. Preliminary damage estimates total over \$16 million!



Above: Paul Brookhart of Crawford shows a hail chunk that hit the area. Hail up to 5 inches in diameter was observed. (Photo courtesy: The Chadron Record (NE).) Right: The Crawford City Dam was completely destroyed by the 7-inch rain. (Photo courtesy: Deb Kennedy, photographer/production manager, Crawford Clipper/Harrison Sun.)







Above: This is not a riverbed. The flood waters rushed through the Ft. Rob area making a new path. Above right: One of the cars that remained at the Norgard's Trailer Court. Right: Two young men hit by the flood waters swam to safety and spent the night in the treetops in the background. Photo courtesy: Deb Kennedy, photographer/productionmanager, Crawford Clipper/Harrison Sun.)



#### NEBRASKA - MAY 22-23

Thunderstorms hit Cozad, Nebraska, dumping up to 8 inches of rain. Reports of street and basement flooding were extensive. Most streets had water up to the car doors. A mud slide on Highway 21, north of Lexington, swept three cars into the ditch. Water and silt damaged 10,000 acres of crops in Dawson County, Nebraska.

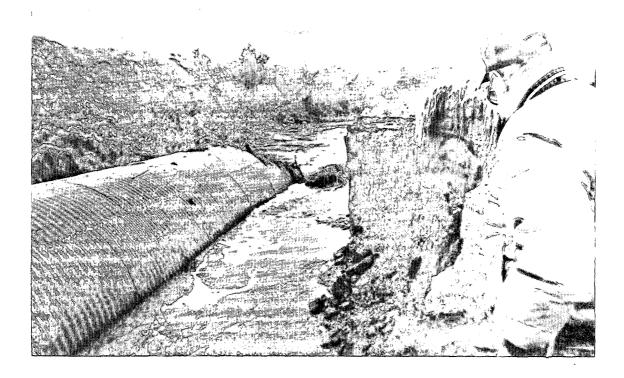




Above (left): This Volkswagen became a victim of the high water in Cozad, Nebraska. Above (right): A boat was a necessary idea in southeastern Cozad, Nebraska. (Photo courtesy: Dean Dorsey (publisher), Tri-City Trib, Cozad, Nebraska.)

#### **SOUTH DAKOTA - MAY 15**

A series of slow-moving thunderstorms moved over Bennett County, South Dakota. Five- to six-inch rains caused flooding which resulted in many washed out roads and bridges. *Below:* Jerry Donovan looks at damage caused by flood waters washing around culverts south of Harrington, South Dakota. (*Photo courtesy: Booster Publishing Co., Martin, South Dakota.*)

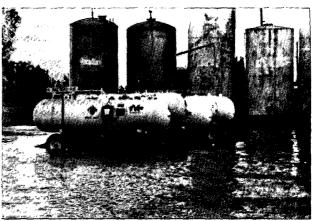


# IOWA - May 17

An unstable airmass over Iowa on May 17, 1991 fueled a severe weather outbreak of hail, flash floods, thunderstorm winds, and tornadoes. Hardest hit was Butler County, Iowa. Unofficial reports indicated up to 7 inches of rain fell in spots!



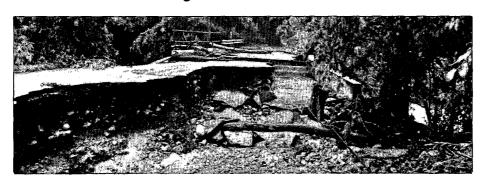
Butler County REC warehouse complex surrounded by water. (Photo courtesy: Tribune-Journal, Butler County, Iowa.)



Flood waters covered all low-lying areas. (Photo courtesy: Tribune-Jouonnal, Butler County, Iowa.)

#### MASSACHUSETTS - MAY 30-31

Thunderstorms produced 5.65 inches of rain in a 3-hour period which resulted in severe flooding. Total damage was estimated between \$5 and \$10 million. A state of emergency was declared as a result of the worst flooding since 1955!





Top (left): A bridge on Konkapot Road in New Marlborough. Notice the logs laying on the bridge. Left: Severe road erosion on Mill River-Clayton Road. Right: Major road erosion on Southfield Clayton Road. (Photo courtesy: Edgar Zukauskas, photographer, Gershire Eagle, Massachusetts.)



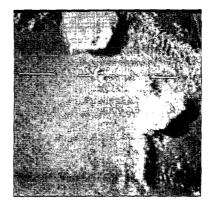
### 2. TORNADOES IN MAY 1991

The month of May 1991 produced several tornado outbreaks. On May 16, 1991, severe thunderstorms spawned an outbreak of high winds, large hail, and 45 tornadoes. May 26, 1991, also proved to be another day of severe weather. Twelve tornadoes touched down during this outbreak. There were also numerous reports of large hail and damaging winds. On May 29th, a tornado outbreak occurred in the Texas panhandle with eight funnel touchdowns.

#### KANSAS - MAY 16

Thunderstorms formed along and ahead of a cold front crossing the central High Plains, with low pressure centered over northwestern Oklahoma. The severe thunderstorms spawned 27 tornadoes in Kansas alone. Hail up to 5 inches in diameter was reported with these storms. The satellite photos below are valid for the indicated times of May 16, 1991. (Satellite photos courtesy: Gene Rhoden, NSSL, Norman, Oklahoma.)



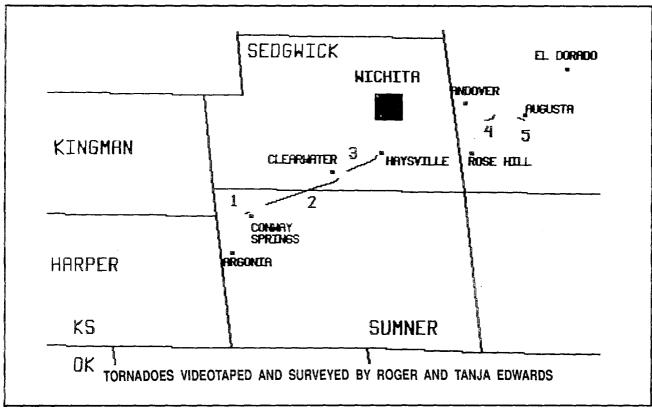




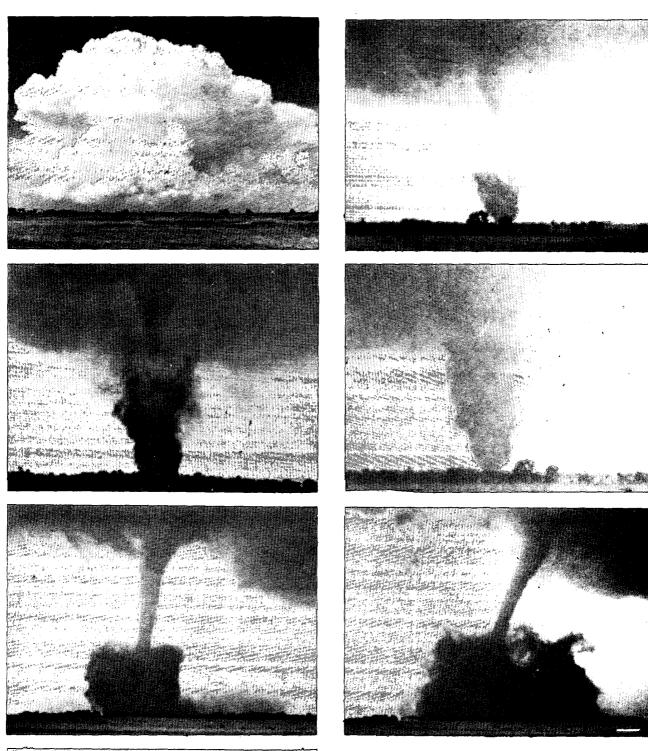
1631 CST (2231Z)

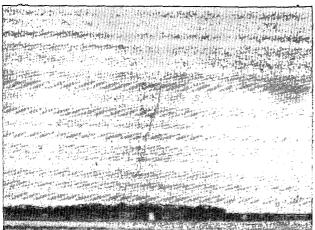
1731 CST (2331Z)

1801 CST (0001Z)

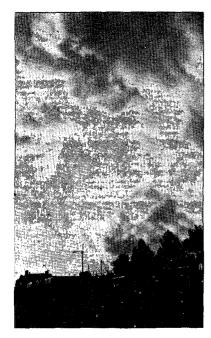


A map showing the tornadoes near Clearwater, Kansas. (Map courtesy: Roger Edwards, NHC, Coral Gables, Florida.)

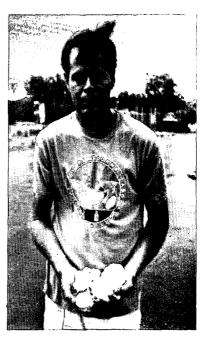




Top (left): The supercell located over Conway Springs, Kansas. This is the same storm that produced the six tornadoes near Clearwater, Kansas. Time of photo is 4:35 p.m. CDT (2135Z). (Photo courtesy ©: Jack "Thunderhead" Corso.) Top (right) and remaining page: This tornado was formed 3 miles northeast of Conway Springs and was on the ground for 16 minutes. The tornado dissipated 1 mile southeast of Clearwater. The tornado had a well-defined laminar vortex that was often shrouded in dust. The supercell later produced an F3 tornado 2 miles east of Clearwater to 2 miles southwest of Haysville. Times of photos are approximately 5:10 to 5:20 p.m. CDT. (Photo courtesy: Second row (left): Tim Marshall, Lewisville, TX; Left: © Keith Brewster, Norman, OK; remaining photos courtesy: Richard Pasch, Coral Gables, FL.)



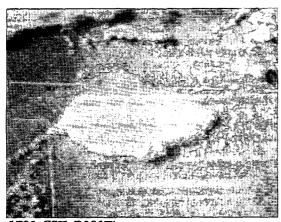




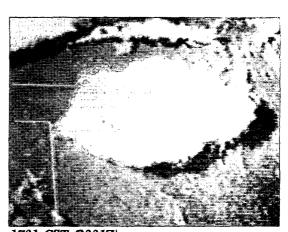
Above (all): The tornadic supercell on the previous page moved northeast into Butler County, Kansas. Hail up to 5 inches in diameter pounded El Dorado and caused damage to vehicles and buildings. (Photo courtesy: Far Right and Left, Matt Crowther, Atlanta, Georgia; Middle: The El Dorado Times; photo provided by Laury Smith.)

## KANSAS, OKLAHOMA - MAY 26

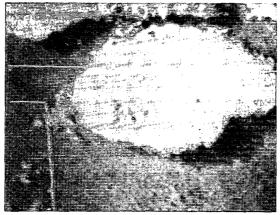
Two cold fronts, one over the Kansas/Missouri area and the other crossing Colorado and western Nebraska, were the triggering mechanisms for the tornado outbreak of May 26th. A total of 12 touchdowns were reported during the outbreak; 6 tornadoes in Kansas, 4 in Oklahoma, and lastly, 2 in Colorado. Satellite photos below show the storm's development in Oklahoma and Kansas.



1701 CST (2301Z)



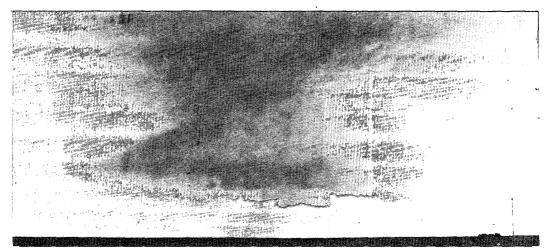
1731 CST (2331Z)



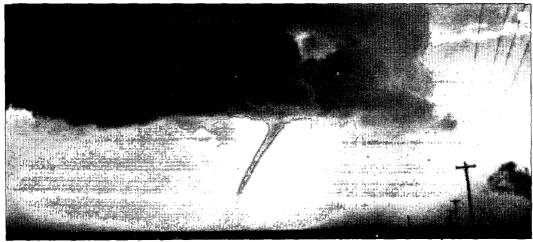
1801 CST (0001Z)



Top of the Ulysses, Kansas Supercell

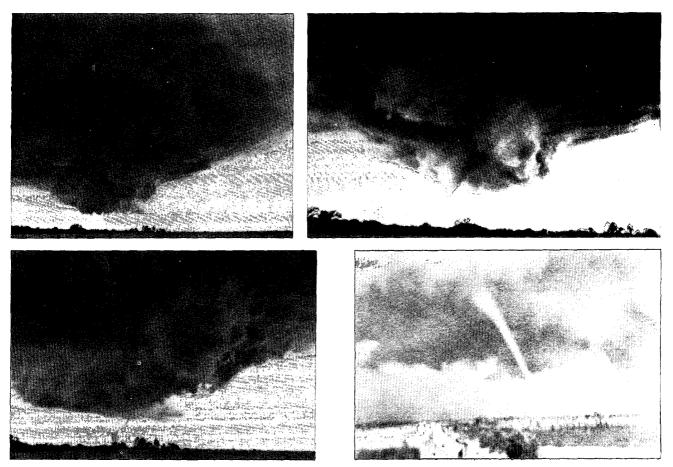


Bottom of the Supercell looking west-southwest.

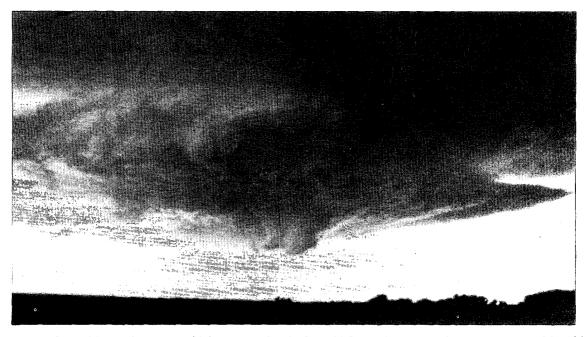


The F1 tornado from the Supercell.

Top: Pictured is the Ulysses, Kansas Supercell which produced an F1 tornado. Photo was taken from NOAA P-3 Aircraft during CAPS '91. (Photo courtesy: Bill Martin, NSSL, Norman, Oklahoma.) Middle: Picture of the same supercell mentioned above at 1750 CDT (2250Z) from the ground (25 minutes before tornado touchdown!). View is to the west-southwest. Bottom: The first tornado of the outbreak on May 26, 1991. View is to the west-southwest at 1825 CDT (2325Z). The narrow, stovepipe-shaped tornado had almost continuous ground contact for 14 minutes! Luckily, damage was light. The F1 tornado destroyed a shed, windmill, and damaged a roof to a pumphouse. The tornado was seen as far as 50 miles away! (Photo courtesy and ©: middle and bottom, David Hadley, Falls Church, Virginia.)



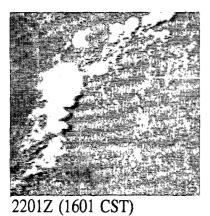
Two tornadoes formed near El Dorado, Texas. Top (left): Picture was taken a few minutes after the large "bowl-shaped" rain free base emerges with the wall cloud and the flanking line visible. Time of photo is 1810 CST. Top (right): Large funnel emerges from the wall cloud. Shortly afterwards, the first tornado touches the ground. Time of photo is 1816 CST. Above (left): The F0 tornado roping out (dissipating). Time of photo is 1818 CST. A second tornado (above right) forms east of El Dorado Lake and just south of the turnpike about 1 hour after the first tornado, and is backlit by lightning. (Photo courtesy: top right: Dave Keller, NSSL, Norman, Oklahoma; remaining photos: Tim Marshall, Lewisville, Texas.)

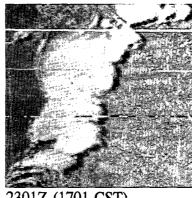


Thunderstorms formed in northwestern Oklahoma out ahead of a cold front. Four tornadoes were spawned in Oklahoma with three near Woodard. The strongest tornado was an F3, also observed were two F1s and one F0. Pictured above is the storm, east of Woodard, that produced three tornadoes. Notice the wall cloud is accompanied by lightning strike! (Photo courtesy and ©: Alan Moller, Fort Worth, TX.)

#### TEXAS - MAY 29

Thunderstorms formed along a slow-moving cold front trailing southwestward into Texas from a low pressure system over central Minnesota. Eight tornadoes struck the Texas panhandle on May 29, 1991. The tornadoes were rated at F0 and caused some light damage to power poles.



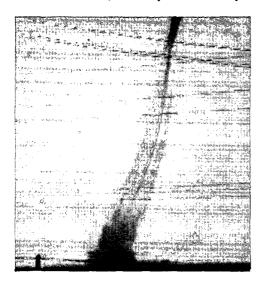


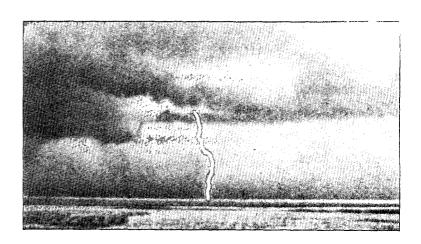


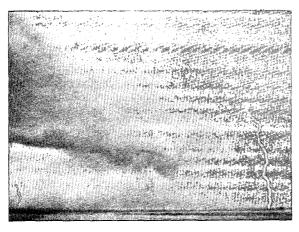
2301Z (1701 CST)

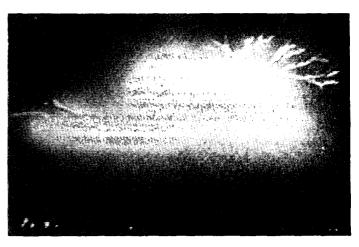
0001Z (1801 CST)

Above (all): Satellite pictures showing the developing thunderstorms over the Texas panhandle that produced the tornadoes. (Satellite photos courtesy: Gene Rhoden, NSSL, Norman, Oklahoma.)



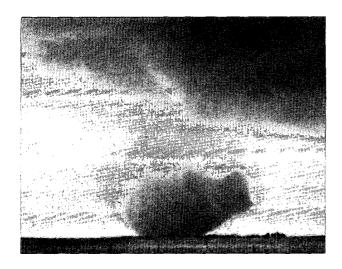


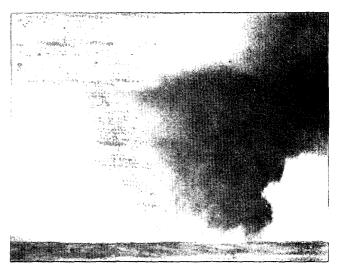




Middle (left): Video photo of a tornado near Amarillo, Texas. (Video courtesy: KFDA-TV, Amarillo, Texas.) Middle (right) and above (left): A high precipitation (HP) supercell discharges a few positive giant lightning bolts. The supercell is located near Darrouzett, Texas. (Photo courtesy: Gene Rhoden, NSSL, Norman, Oklahoma.) Above (right): Nature puts on a lightning show in Perryton, Texas. (Photo courtesy: Marty Feely, NSSL, Norman, Oklahoma.)

#### OTHER TORNADOES OF MAY 1991



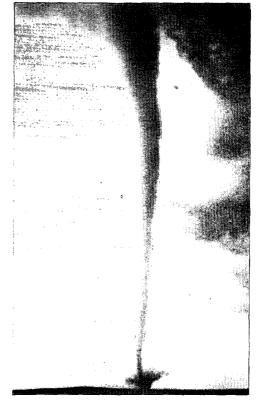




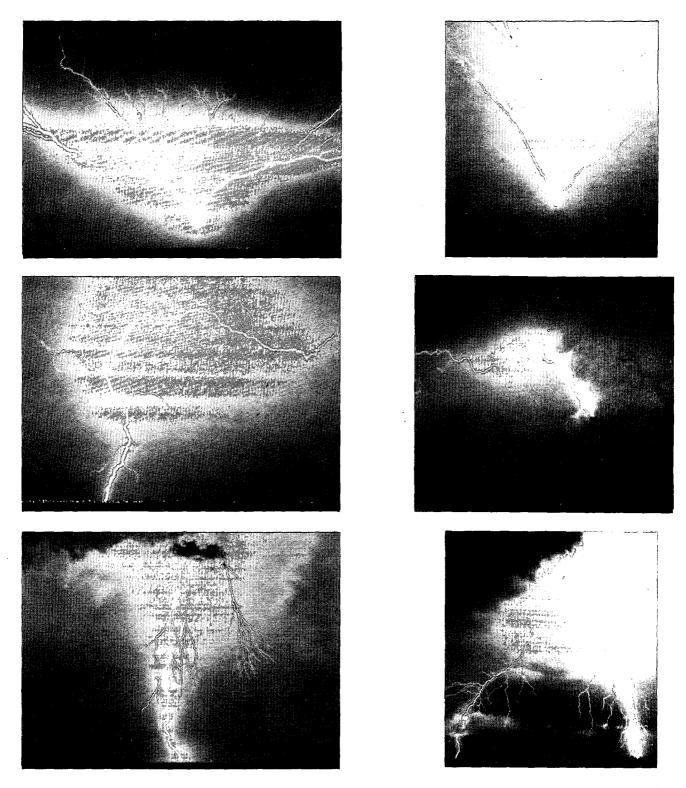


On May 15, 1991, severe thunderstorms developed over Oklahoma and produced five tornadoes. One of these tornadoes was an F3 tornado that went through Laverne, Oklahoma. Luckily, no deaths occurred; however, three injuries were reported.

Top (left): The Laverne tornado shortly after touchdown. Tornado touchdown was approximately 1935 CST (0135Z) and was on the ground for 36 minutes. Approximately 3 to 5 minutes later (top, right) the dust cloud reaches the cloud base and tornado widens to its widest point-900 yards! The tornado dissipated at 2011 CST (Above): Tornado damage to the rural housing in (0211Z).Total damage was estimated at \$500,000! Laverne. courtesy: Top photos, Dave Keller, NSSL, Norman, Oklahoma; Above (left), photographer - Al Harris; Above (right), photographer - Sonya Harris; Leader Tribune, Laverne, Oklahoma.) Right: On May 11, Cimmarron County, Oklahoma, had an F0 tornado on the ground for 13 minutes. The tornado crossed open country and did no damage. (Photo courtesy: Greg Stumpf, NSSL, Norman, Oklahoma.)



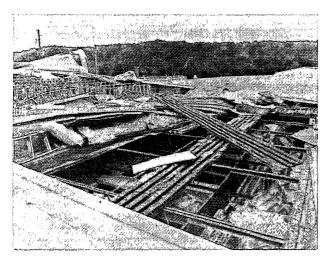
# 3. LIGHTNING DISPLAYS OF MAY 1991



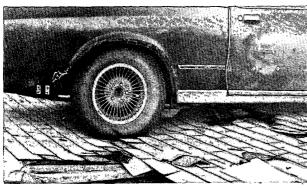
A severe thunderstorm developed near Amarillo, Texas, on May 10, 1991, and initiated several ground-to-cloud lightning discharges (top left and right) that emanated from the top of a tall radio tower. Notice that the branching pattern of the lightning is spread upward from the top of the tower unlike the more typical downward branching pattern as seen lower (left). The upward branching indicates that the step-leaders initiating the lightning discharges, began at the top of the tower rather than the more usual case where the step-leader begins in the cloud and moves downward to the ground as is seen in the lower (left) photo. Middle (right): Intra-cloud lightning illuminating the supercell structure. One hour earlier this storm produced the Cimmarron County tornado. Above (left): A thunderstorm produced this cloud-to-ground lightning west of Salina, Kansas, on May 13, 1991. Above (right): This double cloud-to-ground lightning struck south of Amarillo, Texas, on May 22, 1991. (Photo courtesy and ©: Jack "Thunderhead" Corso, Harrison, New York.)

# 4. POTPOURRI OF WEATHER EVENTS OF MAY 1991

#### WIND DAMAGE - MAY 3 AND MAY 16

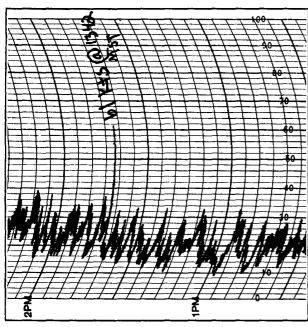






Above (left): Thunderstorm winds on May 3rd damaged the roof of the Caddo Hills High School of Montgomery County, Arkansas. (Photo courtesy: Mike Wallace, Montgomery County news and Glenwood Herald, Arkansas.) Above (right) and left: Wind damaged several buildings in Gott, Kansas. Pictured above (right) is most of the roof from the American Legion building. Damage also occurred to First National Bank. A witness saw a car being lifted up and a large piece of the American Legion roof slide underneath the car (left)! (Photo courtesy: Matt Diehl, The Courier-Tribune, Seneca, Kansas.)

#### DUST DEVIL AND HAIL - MAY 14 AND MAY 28





Above (left): The gust recorder at Albuquerque (ABQ) spiked to 61 knots (70 mph) with passage of a dust devil on May 14. (Wind Gust Recorder Chart courtesy: Area Manager Charlie

Liles, WSFO ABQ; Chart provided by National Climatic Data Center.) Above (right): Hailstones damaged many parts of east-central South Dakota on May 28. Pictured are some of the collected stones. The leaves in the background are from an ash tree. Some of the hailstones approached softball size! (Photo courtesy: Woonsocket News Photo, Woonsocket, South Dakota.)

MAY 1991

		TIME			NO.	OF SONS	EST I	MATED AGE	
PLACE	I E I I	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLI	Omacie -	A-00m0020-A	OEOTN	CHARACTER OF STORM	
ALABAMA					•				
Dale County	01 01	1250CST 1250CST			0	0	?	?	Thunderstorm Winds Hail (0.75)
	In .	Ariton, dim	e-size hail	fell causin	ıg mi	nor ro	of dar	mage.	Two trees were also blown down.
Coffee County	01	1255CST		•	0	0	?	?	Thunderstorm Winds
	Str	ong thunder	storm win	ds damage	d sev	eral b	uildin	gs at N	lew Brockton.
Henry County	01	1315CST			0	0	0	0	Hail (0.75) Thunderstorm Winds
	01	1320CST			0	0	?	?	Thunderstorm Winds Thunderstorm Winds
	At At	1315 CST, 1320 CST,	dime-size an awning	hail fell w was blow	hile ( n off	rees a bui	and pol	wer li at Head	nes were blown down at Abbeville. dland.
Houston County	01	1340CST			0	0	0	0	Hail (0.75)
	Dir	ne-size hail	fell at Do	than.				,	
Lamar County	05	1018CST			0	0	?	?	Thunderstorm Winds
	Tre	es and pow	er lines we	ere blown	down	5 mi	les sou	th of	Vernon.
Choctaw County	05	1200CST			0	0	?	?	Hail (0.75)
	Per	my-size hail	fell 14 m	iles southv	vest o	f But	ler.		
Sumter County	05	1220CST			0	0	?	?	Thunderstorm Winds
	Tre	es were blo	wn down	at Cuba.					
Jefferson County	05 05	1235CST 1245CST			0	1 3	?	?	Thunderstorm Winds Thunderstorm Winds
	A 4	1225 CCT	in Doggo		-L. I.	بأله مم		<b>.</b>	المسم معسمسه سم 12 المحمد مسملة ماتسانية

Storm spotters estimated thunderstorm winds to be 60 mph at several locations in northern Shelby County. Trees were blown down at scattered locations, and two homes were damaged by falling trees in Pelham.

Washington County 05 1300CST 0 0 ? ? Thunderstorm Winds 05 1315CST 0 0 ? ? Thunderstorm Winds

At 1300 CST, trees were blown down in the Millry vicinity. At 1315 CST, numerous trees were uprooted in Chatom.

Saint Clair County 05 1310CST 0 0 ? ? Thunderstorm Winds

Trees were blown down at Pell City.

**Shelby County** 

Chilton County 05 1312CST 0 0 ? ? Hail (1.75)

Golf ball-size hail fell 2 miles south of Clanton.

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAM/	AATED AGE	
PLACE	DAD-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	אייישס	- Z-JOOULO	<b>≺-∞πυ</b> 0æ0	OPOPO	CHARACTER OF STORM

ALABAMA Cont	'd						
Bibb County	05 1340CST		0	0	?	?	Thunderstorm Winds
	Trees were bloand power pole	wn down at scattere es were blown down	d loca at C	tions i	in the ille.	county.	Windows were blown out of cars
Calhoun County	05 1343CST		0	0	0	0	Hail (0.75)
	Dime-size hail	fell at Anniston.					
Autauga County	05 1350CST 05 1400CST		0	0	?	?	Thunderstorm Winds Thunderstorm Winds
	At 1350CST, s CST, a roof wa	trong thunderstorm as blown off a barn	wind and to	s blew rees ar	trees	onto a er lines	few homes in Prattville. At 1400 were blown down.
Montgomery County	05 1355CST 05 1405CST		0	0	?	?	Thunderstorm Winds (G52) Thunderstorm Winds
	At 1355 CST, Nearby, Maxw Between 1400 a	a thunderstorm win ell Air Force Base a and 1410 CST, trees	d gust also re and p	to 60 ported power	mph lawir lines v	was rep nd gust were blo	orted at the Montgomery Airport. to 60 mph at about the same time. wn down all around Montgomery.
Elmore County	05 1400CST 05 1420CST		0	0	?	?	Thunderstorm Winds Thunderstorm Winds
	At 1400 CST, Elmore County	trees were blown de Airport. At 1420	own a CST,	t Wet	umpka were b	and the	here was damage to hangars at the cross roads in Tallassee.
Coosa County	05 1407CST		0	0	?	?	Thunderstorm Winds
	Trees were blov	wn down at Weogui	fka.				
Montgomery County	05 1410CST		0	0	?	?	Thunderstorm Winds
	Trees were blov	wn down at Hope H	lull an	d Sno	wdoun	, and a	car was overturned at Pine Level.
Tallapoosa County	05 1415CST 05 1430CST		0	0	?	?	Thunderstorm Winds Thunderstorm Winds
	At 1415 CST, thunderstorm w	trees were blown vinds. At 1430 CST	down Γ, a h	, and ouse w	a hou as dar	ise was naged a	damaged at Dadeville by strong t Reeltown.
Macon County	05 1430CST 05 1445CST		0	0	?	?	Thunderstorm Winds Thunderstorm Winds
	At 1430 CST, mobile home 8	trees were blown do miles northeast of	own a Fuske	t Nota gee.	sulga.	At 14	45 CST, a falling tree damaged a
Lee County	05 1450CST 05 1500CST 05 1510CST		0 0 0	0 0 0	? ? ?	? ? ?	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
	blown down the	trees were blown do roughout the county ere damaged at Beau	. At	151D (	ika. CST, a	At 1500 grocery	CST, several hundred trees were y store canopy was destroyed, and
Chambers County	05 1500CST		0	0	?	?	Thunderstorm Winds
	Trees were blov	wn down at scattered	d loca	tions i	n the	county.	

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAMA	ATED GE	
PLACE	DAO	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	-2-10amo	о «Оошюн≻	COCODIO	CHARACTER OF STORM

ALABAMA Con	t'd					
Pike County	05 1500CST	0	0	?	?	Thunderstorm Winds
	Trees were blown down at Brundid	ge.				
Bullock County	05 1510CST	0	0	?	?	Thunderstorm Winds Flash Flood
	Large trees were blown down 8 mile Springs.	s wes	t of U	nion S	prings.	Street flooding occurred in Union
Russell County	05 1600CST	0	0	?	?	Thunderstorm Winds
	Thunderstorm winds were estimated blown down, and a mobile home with	i at 8 as cri	80 mpl ished.	in Pl	henix ( e were	City. Trees and power lines were no injuries.
Lee County	05 1630CST	0	0	6	?	Thunderstorm Winds
	Approximately 500 to 600 trees were winds. There was damage to a few trees. Damage was estimated as high	blov hongh as	vn dow nes, a \$500,0	n thro busine 000.	ughout ss, and	the county by strong thunderstorm two schools, mostly from falling
Mobile County	05 1900CST	0	0	?	?	Hail (1.50)
	Quarter-size hail fell in the Citronel	le vi	cinity.		•	
Baldwin County	06 0425CST	0	0	0	0	Hail (1.00)
	In Bay Minette, dime- to quarter-siz	ze hai	l was	reporte	ed.	
Escambia County	06 0430CST	0	0	0	0	Hail (0.75)
	Dime-size hail fell in the Huxford v	icini	ty.			
Shelby County	09 0850CST	0	0	?	?	Flash Flood
	Torrential rain caused minor floodi Hoover.	ng in	a few	home	s in H	elena and at a construction site in
Autauga County	09 1930CST	0	0	?	?	Thunderstorm Winds
	Several trees were blown down, one	onto	a mo	bile ho	ome at	Pine Level.
Morgan County	10 0010CST	0	1	?	?	Thunderstorm Winds
	Strong thunderstorm winds knocked in the Decatur area. One child was	down sligh	nume tly inj	rous tr ured v	ees and when a	power poles. A few fell on homes tree fell on her house.
Mobile County	12 0610CST	0	0	0	0	Waterspout
	A waterspout was spotted over Mobi distance south.	le Ba	y just e	ast of	the The	eodore ship channel moving a short
Walker County	12 1000CST	0	0	?	?	Flash Flood
	Heavy rain caused water to rise into roads in other areas of the county.	som	e home	es in tl	ne Jasp	er area. Also, high water covered
Marion County	12 1100CST	0	0	?	?	Flash Flood

At scattered locations in the county, heavy rain caused street and highway flooding.

MAY 1991

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL	CMWC(Z		CEOTO	CHARACTER OF STORM
AT ADAMA Co	nt'd					_			

ALABAMA Cont	'd						,
Dallas County	12 12	1230CST 1245CST	0	0	?	?	Thunderstorm Winds Thunderstorm Winds
	Tre	es were blown down at Orrville	and S	Sardis.		•	
Montgomery County	13	1345CST	0	0	?	?	Thunderstorm Winds
	Tre	es were blown down at scattered	l loca	tions i	n the o	city of	Montgomery.
Escambia County	14	0830CST	0	0	?	?	Flash Flood
	Hea	avy rain caused flooding in Brew	vton a	nd sur	round	ing are	ea roads.
Jefferson County	14	1445CST	0	1	0	0	Lightning
	A n	nan was injured by lightning wh	ile w	orking	atop a	a build	ing.
Montgomery County	14	1757CST	0	0	?	?	Thunderstorm Winds
	A la	arge window was blown out of a	a depa	ırtmen	t store	in Mo	ontgomery.
Choctaw County	15	1250CST	0	0	?	?	Thunderstorm Winds
	Stro in e	ong thunderstorm winds blew do extreme southwestern Choctaw C	wn tre County	es and	powe	r lines	about 20 miles southwest of Butler
Lamar County	19	0845CST	0	0	5	?	Thunderstorm Winds
	Stro in t	ong thunderstorm winds destroye he Vernon area. Damage estima	d severtes w	eral ga ere ap	rages proxir	and stonately	orage buildings, and uprooted trees \$200,000.
Morgan County	19	1300CST	0	2	0	0	Lightning
	Two bask the	o teen-agers were injured by light ketball. After striking the tree, in victims.	ntning it ther	which trave	h struc led do	k a ne wn the	arby tree, while they were playing attached clothesline before hitting
Colbert County	20	0620CST	0	0	?	?	Thunderstorm Winds
	Tree	es and power lines were blown nentary school cafeteria.	dowr	in Sl	heffield	d. Als	so, heavy damage was done to an
Lauderdale County	20	0620CST	0	0	?	?	Thunderstorm Winds
	Tree	es were blown down at scattered	locat	ions tl	hrough	out th	e county.
Monroe County	20	1430CST	0	0	?	?	Thunderstorm Winds
	Stro mot	ong thunderstorm winds peeled to be homes at Frisco City.	the ro	of off	one r	nobile	home and slightly damaged other
ARIZONA							*
AZZ003	09	1315MST	0	0	0	0	High Winds
Northeastern Plateau	Sou	thern winds gusted to 63 mph in	n Page	e, and	blowi	ng dus	t cut the visibility to 2 miles.
AZZ003 Northeastern	10	1200MST	0	0	2	0	High Winds

MAY 1991

		TIME			NO.	OF SONS	EST IN	AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF Path (Yards)	KILLEO	×	a-ecoa-woo->-	COCOEN	CHARACTER OF STORM

ARIZONA Cont'	'd						
Plateau	Par Spr	t of a roof was blown off a buingerville.	ilding	g in V	Vinslov	v, and	winds estimated at 70 mph struck
AZZ003 Northeastern	14	1400MST	0	0	0	0	High Winds
Plateau		strong cold front moved through w Airport.	the	state a	nd wir	ıds gu	sted as high as 60 mph at the Show
ARKANSAS							
Logan County Booneville	03	0130CST	Ö	0	4	0	Thunderstorm Winds
	hor	understorm winds downed trees nes were damaged by falling tre well as an automobile dealership	es wi	damag nile of	ged roo her ho	ofs in mes su	the Booneville area. At least two iffered roof damage from the wind,
Montgomery County 1 N Caddo Gap	03	0342CST	0	0	5	0	Thunderstorm Winds
		understorm winds took part of th wn in.	e roo	f off (	Caddo	Hills S	School and windows and doors were
Miller County Brightstar	03	0344CST	0	0	3	0	Thunderstorm Winds Hail (0.75)
	Thu	understorm winds downed sever	al tree	es and	dama	ged the	e roof of a house.
Lafayette County	03	0430CST- 0800CST	0	0	4	0	Flash Flood
	Hea \$20	avy rain washed out county road, 0,000.	s and	damaį	ged bri	dges.	Damage was estimated in excess of
Miller County Fouke	03	0430CST- 0800CST	0	0	3	0	Flash Flood
	Hea wat	avy rain swelled creeks and flooders from Davis Creek.	led so	me ro	ads. A	schoo	ol bus was swept off a road by flood
Lafayette County Bradley Stamps Lewisville	03 03 03	0431CST 0435CST 0436CST	0	0 0 0	2 3 2	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
	Thu	inderstorm winds downed trees	in Le	wisvil	le and	trees a	and power lines in Stamps.
Calhoun County	03	0615CST- 0730CST	0	0	2	0	Flash Flood
Union County	03	0615CST- 0730CST	0	0	3	0	Flash Flood

Heavy rain flooded some roads across Calhoun and Union Counties. Highway 4, just west of Hampton in Calhoun County, was flooded. In El Dorado, in Union County, some streets and low-water crossings went under water.

MAY 1991

		TIME			NO. PER:	OF SONS	ESTII DAM	MATED AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Cm-1-X	סשמבריביי	~- <del></del>	COCOEN	CHARACTER OF STORM

# ARKANSAS Cont'd

ARREATIONS CO.	u u									
Bradley County Warren	03 0700CST- 0830CST	0	0	2	0	Flash Flood				
	Heavy rain flooded stre	ets in Warren. 3	The wa	iter wa	as a fo	ot deep in some areas.				
Drew County Monticello	03 0700CST- 0900CST Some streets in Montice	0 ello were closed	0 lue to	2 high v	0 water.	Flash Flood				
Ashley County	03 0800CST-									
	1000CST	0	0	2	0	Flash Flood				
Chicot County	03 0800CST- 1000CST	0	0	2	0	Flash Flood				
Desha County	03 0800CST- 1000CST	0	0	2	0	Flash Flood				
	Heavy rain quickly flooded roads across an already rain-soaked part of Arkansas. Streets in Hamburg and Crossett in Ashley County, in McGhee in Desha County, and some county roads near Lake Village in Chicot County were also flooded.									
Sevier County 4 W DeQueen	04 1940CST	0	0	3	0	Thunderstorm Winds				
	Thunderstorm winds downed trees causing damage to one house.									
Miller County Texarkana	04 1940CST- 1947CST	0	0	3	0	Thunderstorm Winds (G52)				
	Sixty-mph wind gusts d	owned trees and	power	lines	on the	eastern side of Texarkana.				
Little River County 2 W Ashdown	04 1952CST	0	0	2	0	Thunderstorm Winds				
	Trees were downed alor	ng Highway 32.								
Howard County Nashville	04 2025CST	0	0	2	0	Thunderstorm Winds				
	Thunderstorm winds do	wned trees just s	outhwe	est of	Nashv	ille on Buck Range Road.				
Columbia County Taylor	04 2035CST	0	0	0	0	Hail (1.00)				
Pike County Lake Greeson	04 2050CST	0	0	2	0	Thunderstorm Winds Hail (0.75)				
	Trees were downed on	he eastern side o	f Lake	Gree	son.					
Clark County 5 SE Alpine Hollywood	04 2053CST 04 2055CST	0	0	2 3	0	Thunderstorm Winds (G52) Thunderstorm Winds				
	SKYWARN spotters re Hollywood, a barn was	ported wind gus blown down by	ts of the wi	60 mj nds.	oh rest	alting in mainly tree damage. In				

MAY 1991

		TIME			NO.	OF SONS	EST IN	ATED GE	
PLACE	D B E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K	-2-10xm0	о осОощоО>>	COCOEN	CHARACTER OF STORM

## ARKANSAS Cont'd

AKKANSAS CON	u u									
Pike County Delight	04	2055CST	0	0	2	0	Thunderstorm Winds Hail (0.75)			
	Thu	understorm winds downed a few	trees							
Montgomery County Caddo Gap 1 W Pencil Bluff	04 04	2055CST 2104CST	0	0	2 2	0 .	Thunderstorm Winds Thunderstorm Winds (G52)			
	Thu	understorm winds downed trees	at Ca	ddo Ga	ap and	Pencil	Bluff.			
Hempstead County 5 W Guernsey	04	2115CST	0	0	2	0	Thunderstorm Winds			
•	Thu	understorm winds downed trees	and p	ower l	ines.					
Clark County Arkadelphia	04	2117CST	0	0	3	0	Thunderstorm Winds			
	Αc	hurch under construction was bl	own	down	by thu	ndersto	orm winds.			
Hot Spring County 4 S Friendship	04	2120CST	0	0	2	0	Thunderstorm Winds			
	Tre	Trees were blown down south of Friendship resulting in some damaged fences.								
Dallas County Dalark	04	2120CST	0	0	2	0	Thunderstorm Winds			
	Thu	understorm winds blew down tre	es ar	ound I	Dalark	blocki	ng a few county roads.			
Hempstead County Hope	04	2124CST	0	0	3	0	Thunderstorm Winds			
	Thu	inderstorm winds downed trees	and p	ower l	ines.					
Nevada County 3 SW Reda	04	2130CST	0	0	0	0	Hail (1.00)			
Garland County Hot Springs	04	2140CST	0	0	3	0	Thunderstorm Winds			
	Thu	inderstorm winds blew down tre	es ca	using l	neavy	damage	e to one carport.			
Hot Spring County Malvern	04	2140CST	0	0	3	0	Thunderstorm Winds			
	Thu	anderstorm winds blew down so	me tre	ees, on	e land	led on	a car.			
Grant County Leola	04	2210CST	0	0	3	0	Thunderstorm Winds			
	Thu	understorm winds downed trees	and p	ower l	ines.					
Cleveland County New Edinburg	04	2220CST	0	0	2	0	Thunderstorm Winds			
	Thu	understorm winds blew down tre	es.							

MAY 1991

		TIME			NO.	OF SONS	ESTI!	ATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH PATH (MILES)	WIDTH OF PATH (YARDS)	مسدد	ם שמשכר ביי	<u> ~~Оошо</u> —>	CECOLO	CHARACTER OF STORM

ARKANSAS Con	nt'd									
Jefferson County White Hall Gethsemane	04 04	2220CST 2245CST	0	0	0	0	Hail (0.75) Hail (0.75)			
White County 6 SE West Point	04	2355CST	0	0	2	0	Thunderstorm Winds			
	Thu	understorm winds blew down tre	es ale	ong Hi	ighway	<i>y</i> 36.	•			
Jackson County Newport	05	0036CST	0	0	4	0	Thunderstorm Winds			
	Thi hor	understorm winds blew down trones. Windows were also broken	es, v	which lying	broke debris.	power	lines and caused damage to some			
Lawrence County Imboden	05	0105CST	0	0	3	0	Thunderstorm Winds			
	The	e roof of a store was damaged, a	nd tr	ees we	re dov	vned by	y thunderstorm winds.			
Clay County Coming	05	0200CST	0	0	3	0	Thunderstorm Winds			
	Thu gra	Thunderstorm winds blew down trees and power lines in Corning. Some roofs, fences, and a grain bin were also damaged.								
Chicot County Lake Village	05	0645CST	0	0	4	0	Thunderstorm Winds (G52)			
	Win dan	nds gusting to at least 60 mph can naged by falling trees. Power line	used nes a	damag nd a ci	ge acro	oss Lak ver wer	e Village. Roofs and homes were e downed.			
Ashley County Wilmot	05	0645CST	0	0	4	0	Thunderstorm Winds (G52)			
	Wii	nds gusting to 60 mph blew dow	n tre	es and	power	r lines,	and damaged roofs.			
Bradley County	11	0345CST- 0500CST	0	0	4	0	Flash Flood			
	Hea Ark Wa	avy rain fell over the northern partners in the state of	art o Wai	f Brad rren ha e flood	lley Co d wate led.	ounty o er in th	causing some flash flooding. The e building. Highway 15, north of			
Dallas County	11	0600CST- 1030CST	0	0	2	0	Flash Flood			
	floc	lvy rain flooded roads mainly ac oded east of Carthage and near th Highway 8 near Dalark and Ma	e inte	rsectio	n with	ı Highy	Dallas County. Highway 48 was way 9. Highway 9 near Princeton,			
Lawrence County 10 NE Smithville	12	1320CST	0	0	0	0	Hail (1.00)			
Mississippi County Blytheville	13	1345CST	0	0	4	0	Thunderstorm Winds			
	Thu	inderstorm winds blew down som	e tres	es and a	damao	ed roof	s A 40-foot travel trailer was also			

Thunderstorm winds blew down some trees and damaged roofs. A 40-foot travel trailer was also moved about 20 feet, causing extensive damage.

MAY 1991

		TIME			NO.	OF SONS	EST II	ATED GE	
PLACE	DA)-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLWO	- <b>2</b> -10000	0.000 H00->-	CECOEN	CHARACTER OF STORM

	<u> </u>			<u> </u>	<u> </u>		Ý				
ARKANSAS Cor	nt <b>'d</b>										
Greene County Hooker	15	1500CST			0	0	4	0	Thunderstorm Winds		
	Thu and	Thunderstorm winds downed several trees and power lines, and took part of the roof of and a barn. A few other homes also suffered minor roof damage.									
Baxter County Mountain Home	15	1535CST			0	0	4	0	Thunderstorm Winds		
	Thu Ho	Thunderstorm winds downed trees and power lines mainly in the downtown area of Mountain Home. Flag poles around the town square were also blown down.									
Benton County Bella Vista Franklin County	16	16 0850CST				0	0	0	Hail (1.00)	*	
Peter Pender	18	1730CST			0	0	4	0	Thunderstorm Winds		
	A roof was damaged by a falling tree, and a carport was destroyed by strong thunderstorm winds.										
CALIFORNIA, N	Vort	hern									
	No	ne reported.									
CALIFORNIA, S	Sout	hern									
CAZ013-015-019	06	1520PST			0	0	?	0	High Winds		
	Stro	ong winds h	it parts of mph was	southern (s reported	Califo at Mo	rnia w ojave,	ith gu in the	ısts to Moja	50 mph in the Antelope Vive Desert.	alley. A	
CAZ014-018-019	30 31	All Day-			1	0	?	0	High Winds		
	of Sprin t	itornia. At 50 mph wei cked down ings, Cathed he area wer	midnight, re reported power poliral City, a e between	a 47-mph I at China es and wh and Desert 60 to 70 i	gust v Lake ipped Hot S nph.	vas rep and a up sau Springs A ma	ported at Bisi nd and s, wer in was	l at Da hop. d grave e withe killed	d high winds in parts of ggett Airport. Also, gusts The winds in the Coachellel. About 5,000 customers but power for about an hour in a traffic accident, cause onto his pickup truck. (Month of the coache of the cause of the ca	in excess la Valley in Palm r. Winds ed by the	
COLORADO											
Grand County Winter Park	01	1215MST			0	0	4	?	High Winds		
	larg	very localize se sections of sed damage	of sheet me	nd blew the	rougl g fron	h the t n a lod	town of	of Wir at land	ter Park. The wind removed on some nearby power	oved five lines and	

Jefferson County 11 NW Denver

01 1702MST

Hail (1.00)

Three-quarter-inch hail was reported at Stanley Lake.

MAY 1991

		TIME			NO.	OF SONS	ESTIN	MATED AGE	
PLACE	Đ	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K	CHICACLE I		COCO	CHARACTER STORM

#### COLORADO Cont'd

COZ003-009 West Central Valleys

02 Afternoon 0 ? **High Winds** 

An approaching Pacific cold front produced strong south to southwest winds with speeds of 40 to 45 mph (35 to 39 knots) and higher gusts at Alamosa. Two homes were severely damaged near Montrose when winds estimated at 70 mph (61 knots) blew through the western valleys of Colorado. At about 1600 MDT, the roof was completely stripped off a mobile home at Olathe. A second home had its roof removed by high winds at about 1830 MDT (time estimated), near Olathe on U.S. Highway 50. A sheep barn was also destroyed about the same time on Highway 50. A church in Delta received an estimated \$15,000 in damage from the high winds. No injuries were reported.

Lincoln County Genoa 2 E Limon Genoa	02 02 02	1300MST 1415MST 1430MST-	Short	Narrow	0	0	<b>3</b> ?	?	Thunderstorm Winds Tornado (F0)
Karval	02	1440MST 1430MST	0.2	25	0 0	0 1	5 ?	?	Tornado (F1) Lightning
Karval _10 SE Limon	02 02	1430MST- 1442MST 1445MST	0.1	10	0 0	0 0	?	?	Hail (0.75) Tomado (F0)
Elbert County 15 SW Limon 6 SW Limon	02 02	1330 1345-	Short	Narrow	0	0	?	?	Tornado (F0)
5 SW Limon	UZ.	1349	1.0	25	0	0	?	?	Tornado (F0)

A thunderstorm produced strong winds in Genoa, damaging a grain elevator, roofs, and windows of homes. National Weather Service personnel spotted several small tornadoes in the Limon vicinity from 1330 MST to 1415 MST. A tornado 6 miles southwest of Limon lifted and dropped several times before finally dissipating. Lightning struck a man in Karval. The man was only slightly injured. Dime-size hail fell from the same storm. At 1430 MST, the public reported a tornado in Genoa. The tornado removed a 50-foot section of roof from a flat grain storage unit, toppled a storage tank at a local oil company, damaged a grain elevator and several roofs, blew out a few windows, and downed some power lines. A few minutes later, National Weather Service personnel at Weather Service Meteorological Observatory in Limon sighted briefly a rope-type tornado 10 miles southeast of Limon.

Elbert County 1 SW Kutch	02	1345MST	0	0	?	?	Funnel Cloud
El Paso County Rush	02	1348MST	0	0	?	?	Hail (0.75)

The public reported several short-lived funnel clouds 1 mile southwest of Kutch. The same storm produced pea- to dime-size hail at Rush.

Yuma County Yuma Hail (1.00) The Yuma County Sheriff's Office reported 0.75- to 1.00-inch hail near Yuma.

02 1530MST-

**COZ003** 1800MST West Central **High Winds** Valleys

Strong winds blew across the western valleys of Colorado with gusts up to 60 mph (52 knots) reported at Montrose.

Phillips County Holyoke 02 1610MST 0 2 0 Hail (1.00) Thunderstorm Winds (G52) 9 S Holyoke to 11 SSE Holyoke 1648MST-1704MST 2.0 25 0 0 5 ? Tornado (F1)

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAM/	AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	OMPTICA	Omocc.Z.		COCODA	CHARACTER OF STORM

COLORADO Con	nt'd								
	strij to t grai	knots). The	strong ngles of heast of foundat blown	wind topp of homes. the town the ion and drawn off their for	led se	veral	pivot later to	towers nuched	rong winds with gusts up to 60 mph s on field irrigation equipment and down south of Holyoke and moved The tornado lifted a 30,000 bushel A calf shed was destroyed, three and a mobile home was rolled over.
Weld County Pierce	03	1610MST			0	0	?	?	Hail (0.75)
	Pub	olic reported d	lime-siz	e hail at Pi	erce.				
Arapahoe County 10 W Last Chance	03	1814MST			0	0	?	?	Hail (1.00)
	Sto	rm spotters re	ported :	1.00-inch 1	nail w	est of	Last C	Chance	•
Lincoln County Hugo	03	2105MST		0	0	?	?	Hail (1.75)	
	The	public report	ted hail	up to golf	ball-s	ize in	Hugo		
Chaffee County Salida	05	1330MST	Short	Narrow	0	0	4	?	Tornado (F0)
	Res 100	idents watche f off a home a	d as a s and caus	mall torna	do bri crable	efly to dama	ouched ge to t	down	in Salida, long enough to take the ide.
COZ004-009-011 Central Mountains	10	Afternoon			0	0	4	?	High Winds
San Luis Valley and Front Range	and the esti	reducing visi central mount mated at 50 m	bilities ains and iph (44	to near zer I along the knots) tore	o. St front a roo	rong or range of off	downsl produ a hom	lope w ce win e in th	the San Luis Valley, picking up dust inds through the eastern sections of ds up to 63 mph (55 knots). Winds e town of Lafayette at around 1315 n over. No injuries were reported.
Chaffee County Salida	11	1430MST			0	0	3	?	Thunderstorm Winds
	Thu and	inderstorm wi a sidewalk.	nd gust	s (speed un	know	n) top	pled s	everal	trees, damaged the roof of a home,
Kiowa County 10 S Eads Eads	11 11	1650MST 1700MST			0	0	?	?	Hail (1.75) Hail (1.75)
Cheyenne County 10 S Kit Carson	11	1715MST			0	0	?	?	Hail (1.75)
	Gol	f ball-size hai ving north, dr	il was i opping	eported by golf ball-s	the ize ha	public il at E	10 m Eads ar	iles so id near	outh of Eads. The storm continued Kit Carson.
Washington County Otis 5S Otis	11 11	1715MST 1723MST			0	0	?	?	Hail (1.00) Hail (1.25)

Washington County Otis 5S Otis 5E Akron	11 11 11	1715MST 1723MST 1728MST	0	0	?	?	Hail (1.00) Hail (1.25) Hail (1.00)
JE AKIOR	11	1/2010121	v	v		:	rian (1.00)

A strong thunderstorm moved through the north-central part of Washington county producing hail 1.00 to 1.25 inches in diameter.

MAY 1991

		TIME			NO.	OF SONS	EST II	MATED AGE	
PLACE	Đ	LOCAL STANDARD	LENGTH PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-mD	Ombo C. Z.		CACOAC	CHARACTER OF STORM

## COLORADO Cont'd

COLORIDO CO	iii u									
Baca County 8 SE Campo Campo	11 1805MST 11 1815MST		0	0	?	?	Hail (1.00) Hail (1.00)			
. *	A spotter reported 1.00-inch hail near the Colorado/Oklahoma border south of Campo. A few minutes later, 0.50- to 1.00-inch hail was reported in the town of Campo.									
12 S Walsh 10 S Walsh	11 1910MST- 1918MST 2	.0 25	0	0	?	?	Tornado (F0)			
	County officials from	m Springfield rep	porte	d a to	rnado	south	of Walsh.			
Logan County Iliff Peetz	11 1900MST 11 1940MST		0	0	?	?	Hail (1.25) Hail (1.00)			
	Nickel- to half-dolla	r-size hail fell n	ear t	owns	of Iliff	and P	eetz.			
Jefferson County 2 SW Morrison 4 SW Morrison	15 1114MST 15 1124MST		0	0	?	?	Funnel Cloud Hail			
	The Alpine Search a up to 2 inches deep	nd Rescue team s on U.S. Highwa	spott ly 28	ed a fi 5 at S	unnel c South T	loud. Turkey	County officials later reported hail Creek Road.			
Arapahoe County Littleton	15 1123MST		0	0	4	?	Hail (2.75)			
	A spotter reported baseball-size hail on the east side of Littleton.									
Boulder County 2 W Boulder	15 1145MST		0	0	?	?	Hail (0.75)			
	Personnel at the For	ecast Systems La	ab (F	SL) r	eporte	d dime	-size hail.			
El Paso County 9 N Yoder	15 1300MST		0	0	?	?	Hail (1.75)			
	Off-duty National W Yoder.	Veather Service p	erso	nnel 1	eporte	d golf	ball-size hail north of the town of			
Weld County Keenesburg	15 1345MST		0	0	?	?	Thunderstorm Winds (G51)			
	Thunderstorm gusts	to 59 mph (51 k	nots	) were	repor	ted at	Keenesburg.			
Larimer County 5 SE Loveland Berthoud 3 SW Loveland Loveland Loveland Harmony 1 S Fort Collins 1 W Fort Collins Fort Collins	15 1359MST 15 1411MST 15 1413MST 15 1424MST 15 1428MST 15 1431MST 15 1440MST 15 1445MST 15 1500MST		000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	?3?43?334	???????????????????????????????????????	Hail (0.75) Hail (1.00) Hail (0.75) Hail (1.50) Hail (1.75) Hail (1.00) Hail (1.00) Hail (0.75) Hail (0.75)			
	A	1 1	1	1 1.	. 1					

A strong thunderstorm produced widespread hail ranging from nickel- to golf ball-size from Berthoud to Fort Collins. Many homes and cars sustained various amounts of damage.

MAY 1991

		TIME			NO. PER:	OF SONS	ESTI!	ATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	משנירא	חששכר≤י	ح-صسه٥٠٠٠	CECOLO	CHARACTER OF STORM

COLORADO Con	nt'd										
Morgan County 3 NE Wiggins	15	1430MST			0	0	?	?	Thunderstorm Winds (G78)		
		A cooperative observer near Wiggins reported wind gusts estimated at 80 to 90 mph (71 to 78 knots).									
Weld County 21 N New Raymer	15	1508MST			0	0	0	0	Hail (1.00)		
	One-inch-hail was reported north of New Raymer.										
Pueblo County Pueblo	15	1645MST			0	0	?	?	Hail (0.75)		
	Hai	Hail to 0.75 inch in diameter was reported in the northern portion of Pueblo.									
COZ002-004 Northern and	15 16	2100MST- 1200MST-			0	0	?	?	Heavy Snow		
Central Mountains	Heavy snow fell over areas of the northern and central mountains as a slow moving midlevel moved across the state. Most of the heavy snow was around the Continental Divide at elevating generally above 8,500 feet. Snow totals ranged from 3 to 19 inches. Some snow reprincluded 19 inches at Winter Park; 16 inches at Arapahoe Basin; and 12 inches at the Eisenho Tunnel on Interstate 70. At elevations between 7,500 and 8,500 feet, snow amounts inclusion inches at Conifer and Empire, and 2 inches at Nederland.										
Logan County Near Proctor	16	1238MST	Short	Narrow	0	0	?	?	Tomado (F0)		
	Αb	orief tornado t	ouchdo	wn in open	coun	try wa	as repo	orted b	y the public.		
Yuma County Near Yuma	16	1240MST-			•	0	9	0	En al Claud		
15 SW Yuma 4 W Hale	16 16	1310MST 1246MST 1320MST	Short	Narrow	0 0 0	0 0 0	? ? ?	?	Funnel Cloud Tornado (F0) Funnel Cloud		
	Thr mac	ree citizens re de by the publ	ported ic of fi	a brief torn innel clouds	ado t s near	ouchd the to	own ii own o	n open f Yum	a country. There were also reports a, and near the town of Hale.		
Logan County Atwood	16	1300MST- 1430MST			0	0	2	4	Flash Flood Hail		
	Strong thunderstorms dropped up to 2.50 inches of rain in about 1.5 hours in the farming community of Atwood. Fields were flooded and small hail up to 4 inches deep damaged winter wheat crops.										
Kit Carson County 10 NE Bethune	16	1320MST	Short	Narrow	0	0	?	?	Tornado (F0)		
10 S Burlington 1 S Rethune	16 16	1324MST- 1332MST 1332MST-	Short	Narrow	0	0	?	?	Tornado (F0)		

Two tornadoes touched down briefly in open country.

1 S Bethune

5 S Burlington

16

Funnel Cloud Hail (0.88)

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAMA	AATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLA	Om20C6-2-	<b>~−∞</b> m•0ו	CECOEN	CHARACTER OF STORM

COLORADO Co	nt'd								
Weld County Near New Raymer	16	1330MST			0	0	4	?	Lightning Hail (1.00)
	A i	rancher near Nathring around 1	nymer repo IST (time e	orted estima	that inted).	ive he	ad of	cattle were killed when struck by	
Yuma County 15 N Laird	16	1645MST	Short	Narrow	0	0	?	?	Tornado (F0) Funnel Cloud
	A t	ornado touched	down	briefly in	open	coun	try.		
Douglas County Castle Rock Castle Rock	16 16	1930MST 1930MST	Short Short	Narrow Narrow	0	0	?	?	Tornado (F0) Tornado (F0)
	Tw	o tornadoes tou	ched c	lown briefl	y, bu	ıt no i	njurie	or da	mage were reported.
Jefferson County	16	1900MST- 2040MST			. 0	. 0	?	?	Flash Flood
	The 190 The	e Jefferson Cour 00 MST. Rain g 2 rain intensity o	nty Sh ages in decrea	eriff's Off n the area n sed and flo	ice reneasu	porte red fro aters	d that om 0.5 recede	Lena ( 0 to 1. d by 20	Gulch was out of its banks at about 10 inches in just of couple of hours. 040 MST.
Weld County Pierce	18	1755MST			0	0	?	?	Hail (1.25)
	A s	potter reported	hail 0	.50 to 1.25	5 incl	nes in	diame	ter in t	he town of Pierce.
Arapahoe County Aurora 2 SE Aurora Buckley NAS 1 SE Aurora		1505MST 1515MST 1525MST 1545MST			0 0 0	0 0 0 0	???	?	Thunderstorm Winds (G50) Thunderstorm Winds (G49) Thunderstorm Winds (G52) Thunderstorm Winds
Larimer County Fort Collins (FOR)	19	1545MST	,		0	.0	?	?	Thunderstorm Winds (G55)
Weld County Briggsdale Keenesburg Larimer County		1545MST 1605MST			0	0	?	?	Thunderstorm Winds (G55) Thunderstorm Winds (G53)
Fort Collins (FOR)	19	1550MST			0	0	?	?	Thunderstorm Winds (G53)
2 N Fort Collins		1610MST			0	0	2	?	Thunderstorm Winds
	Stro Mes mpl	ong thunderstori sonet stations at h. Several repo	ms ald Fort rts inc	ong the foo Collins, Br licated dov	othills iggso vned	s from lale, a power	west nd Kee lines,	of Deenesbur trees,	nver to northwest of Fort Collins, rg measured wind gusts of 58 to 63 and fences at several locations.
El Paso County 5 S Calhan	19	1650MST			0	0	?	?	Hail (1.50)
	A re	etired National	Weath	er Service	empl	oyee 1	reporte	d 1.50	e-inch hail.
Weld County Keenesburg	19	1645MST			0	0	3	?	Thunderstorm Winds
	The	Weld County S	heriff	's Office re	porte	d tree:	s and s	everal	power lines downed in Keenesburg.

MAY 1991

		TIME	-		NO.	OF SONS	EST IN	AATED AGE	
PLACE	DA)-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	CHIXXCL2	-<	COGODON .	CHARACTER OF STORM

L	1	L		<u> </u>	<u> </u>			L	
COLORADO Co	nt'd								
Elbert County 24 E Simla Near Calhan	19 19	1755MST 1800MST			0	0	?	?	Hail (1.00) Hail (1.00)
	One	e-inch-diamet	er hail v	vas reporte	d by	the pu	ıblic.		
Lincoln County 15 E Rush	19	1820MST			0	0	?	?	Hail (1.00)
	The	e public repor	ted hail	up to 1.00	) inch	cove	ring C	olorado	Highway 94.
Larimer County Fort Collins (FOR)	20	1355MST			0	0	?	?	Thunderstorm Winds (G50)
` ,	Me	sonet station	at Fort	Collins rec	orded	wind	gusts	to 58	mph (50 knots).
Archuletta County Near Arboles	21	1635MST			0	0	4	?	Hail (0.88)
	ind	e public reporticated that exvajo Lake, 2	tensive	damage wa	as dor	1.00 ie to i	inch o recreat	f rain ional v	near the town of Arboles. Reports ehicles, boats, and motor homes at
Douglass County 2 SW Castle Rock 1 SW Castle Rock	22 22	1707MST 1722MST	Short	Narrow	0	0	?	?	Funnel Cloud Tornado (F0)
	A t	ornado touch	ed down	briefly ne	ear Ca	stle R	lock.		
El Paso County Falcon	22	1725MST- 1736MST			0	0	?	?	Hail (1.00)
Peyton 5 E Falcon	22 22	1726MST 1755MST	Short	Narrow	0	0	? ? ?	?	Hail (1.00) Tornado (F0) Hail (1.00)
Near Peyton 4 SW Peyton Near Calhan	22 22 22	1810MST 1820MST 1824MST-	Short	Narrow	0	0	?	?	Hail (1.00) Tornado (F0)
8 SW Simla to	22	1826MST 1836MST-	Short	Narrow	0	0	?	?	Tornado (F0)
5 SW Simla 10 N Ellicott Elbert County	22	1840MST 1850MST	3.0 Short	50 Narrow	0	0	?	?	Tornado (F0) Tornado (F0)
5 E Elbert near Matheson 5 E Matheson 1 S Simla	22 22 22 22 22	1730MST 1754MST 1821MST 1830MST	Short	Narrow Narrow Narrow	0 0 0	0 0 0	????	???	Hail (1.00) Tornado (F0) Tornado (F0) Tornado (F0)
	pro	ong thunderst ducing severa und intermitte	l small (	tornadoes a	ind ha	il up t	o 1.00	24 betv inch i	ween Limon and Colorado Springs, n diameter. One tornado was on the
Douglass County 6 E Parker 13 S Denver	23 23	1218MST 1433MST			0	0	?	?	Hail (0.75) Hail (1.75)
Jefferson County Conifer	23	1218MST			0	0	6	?	Hail (1.00)
6 E Aspen Park	23	1230MST- 1233MST			0	0	?	?	Hail (0.75)

MAY 1991

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	Đ	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLI	Omoc C.	4-camooaa	COCOL	CHARACTER OF STORM

### COLORADO Cont'd

2 SE Morrison 14 SW Denver 10 SW Denver 13 SW Denver Denver County	23 23 23 23	1243MST 1244MST 1303MST 1500MST		0 0 0	0 0 0 0	? ? 6 6	???	Hail (1.00) Hail (0.75) Hail (1.00) Hail (1.00)
5 SW Denver	23	1315MST		0	0	7 6	? ?	Hail (2.50) Hail (1.00)
Denver	23	1325MST		0	0	6	?	Hail (1.00)
Arapahoe County 12 S Denver	23	1430MST		0	0	6	?	Hail (1.75)
11 S Denver	23	1435MST- 1440MST	<i>i</i> .	0	0	6	?	Hail (1.75)
10 S Denver	23	1436MST-			U		•	` ,
14 OF D	-00	1440MST		0	Ŏ	6 ?	?	Hail (1.75)
16 SE Denver	23	1447MST		Ň	Ň	7	?	Funnel Cloud
10 ESE Denver 10 SE Denver	23 23	1450MST 1452MST		γ	Х.	4	<b>,</b>	Hail (0.75) Hail (1.00)
14 SE Denver	23	1459MST		0 0 0	0	4 6 6	ģ	Hail (1.00)
14 DE DOITO	23	143711101		v	V	U	•	Funnel Cloud
Littleton	23	1515MST		0	0	7	?	Hail (1.75)
2 SE Aurora	23	1516MST-			_		_	· ·
10.070	-	1600MST		Õ	0.	4	?	Flash Flood
12 SE Aurora	23	1523MST		0	U,	0	?	Funnel Cloud

Thunderstorms moving from the southwestern sections of the Denver metro area to east of Denver produced large hail up to golf ball-size. An estimated 5,000 homes and 8,000 cars received considerable damage. Early estimates placed damage costs at around \$60 million in the Denver metro area. Three funnel clouds were also reported, two by personnel at Buckley Air National Guard Base and the other by a spotter. Heavy rain produced street flooding in parts of Aurora.

Arapahoe County 8 SW Byers 5 E Watkins Strasburg	23	1328MST 1339MST 1343MST	
Strasburg	23	1343MS1	

0 0 ? ? Hail (0.75) 0 0 ? ? Hail (0.75) 0 0 ? ? Hail (2.75)

Thunderstorms produced golf ball- to baseball-size hail 22 to 37 miles east of Denver.

Pueblo County 12 N Pueblo

23 1415MST

0 0 ? ? Hail (1.75)

Thunderstorms dropped golf ball-size hail along Interstate 25, 12 miles north of Pueblo (above time estimated). Hail was deep enough to require snow plows to clear road.

El Paso County 10 N Pinon 20 S Colorado Springs

23 1440MST

0 0 ? ?

Hail (1.75)

23 1450MST

0 0 ? ? Hail (0.75)

A thunderstorm moving north dropped hail to 1.75 inches in diameter along Interstate 25, between Pinon and Colorado Springs.

Lincoln County 10 SE Limon

23 1441MST Short Narrow

0 0 ?

Tornado (F0)

A state patrol officer reported a tornado briefly on ground.

Arapahoe County 1 N Aurora

23 1546MST

0 0 ? ?

Hail

Thunderstorms left hail (size unknown) 6 inches deep on the ground.

MAY 1991

		TIME	"		NO. PERS	OF SONS	ESTIN DAMA	ATED GE	
PLACE	DAST E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Omrr	OTTOC 20-1	<b></b>	CEOPA	CHARACTER OF STORM

### COLORADO Cont'd

Rocky Mountain National Park 26 1300MST-1310MST

COLOIGID CO.											
Washington County Lindon Last Chance Lindon Anton	23 23 23 23	1607MST 1628MST 1629MST 1649MST		:	0 0 0	0 0 0	????	????	Hail (1.75) Hail (1.50) Hail (1.75) Hail (1.75)		
	Gol	f ball-size hai	l fell at	Lindon.							
Cheyenne County 15 S Wild Horse Wild Horse and	23 23	1610MST 1625MST-			0	0	3	?	Thunderstorm Winds (G74)		
Kit Carson Kit Carson County		1630MST			0	0	?	?	Hail (1.00)		
5 W Flagler Lincoln County	23	1710MST			0	0	?	?	Hail (0.75)		
1 E Arriba	23	1710MST			0	0	?	?	Hail (0.75)		
	24 1	inderstorms di miles east of I r Wild Horse.	Limon.	hail up to 1 Thunderst	.00 ii orm v	nch in vind g	diame gusts to	ter fro 85 m	m 61 miles southeast of Limon, to oh (74 knots) downed several trees		
Hugo	23	1620MST			0	0	?	?	Hail (0.75)		
10 N Limon 10 E Genoa	23 23	1630MST 1650MST			0	Ŏ	? ? ?	?	Hail (0.75) Hail (0.75)		
	Thu	nderstorms p	roduced	l hail to 0.7	5 inc	h in d	liamete	r in the	E Limon vicinity.		
Arapahoe County											
1 S Bennet	24	1020MST	Short	Narrow	0	0	?	?	Tornado (F0)		
	A to	ornado briefly	touche	d in open o	ounti	y.					
Washington County 6 SE Cope 5 SW Cope 13 W Cope	24 24 24	1230MST 1234MST 1252MST			0 0	0	??	???	Funnel Cloud Funnel Cloud Funnel Cloud		
	A th	understorm n	noving	through the	area	produ	ced sev	eral fu	nnel clouds near the town of Cope.		
Adams County									-		
10 NE Byers	24	1417MST	Short	Narrow	0	0	?	?	Tornado (F0)		
Arapahoe County 1 N Peoria	24	1419MST	Short	Narrow	0	0	?	?	Tornado (F0)		
	The	sheriff's offic	ce repo	rted tornade	oes bi	iefly	on the	ground	l in open country.		
Larimer County Warren Lake Fort Collins	25 25	1919MST 1925MST			0	0	?	?	Hail (0.75) Hail (1.00)		
	dian	Strong thunderstorms moved through the Fort Collins area, producing hail up to 1.00 inch in diameter. Heavy rain accompanied the thunderstorms and caused some localized street flooding in the Fort Collins.									

A U.S. Park Ranger reported a funnel cloud that lasted about 10 minutes before dissipating near the Fall River entrance to the park.

?

?

**Funnel Cloud** 

0

0

		TIME			NO. PERS	OF SONS	EST IN	MATED NGE	
PLACE	D-6)-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	משוייא	OmmoC∟≥⊷	<b>≺-ळ</b> ≡उ0ऋ७	CECOEN	CHARACTER OF STORM

COLORADO Con	nt'd											
Washington County Cope	26	1525MST			0	0	?	?	Hail (1.75)			
	A t	hunderstorm j	produced	dime- to	golf ball-size hail at Cope in Washington County.							
Kit Carson County 2 NE Burlington Burlington 5 E Burlington	26 26 26	1656MST 1702MST 1710MST	0.1 0.1	10 10	0 0 0	0 0 0	? 4 ?	??	Hail (2.75) Tornado (F0) Tornado (F0) Hail (2.00)			
	A b	orief tornado ond tornado to	touchdov ouched de	vn in Bur own along	lingto g Inte	on des rstate	stroyed 70.	l a gar	age; no injuries were reported. A			
Washington County Prewitt Reservoir	26	2154MST			0	0	?	?	Hail (1.75)			
	Gol	f ball-size hai	il fell at t	he lake 1	8 mil	es sou	ıthwes	t of St	erling.			
Weld County 8 SW New Raymer	26	2250MST			0	0	?	?	Hail (1.75)			
	Gol	f ball-size hai	l fell 8 n	niles sout	hwest	of N	ew Ra	ymer.				
Morgan County Near Goodrich 16 N Fort Morgan Near Goodrich 13 N Fort Morgan Willard	27	1800MST 1805MST 1810MST 1840MST 1900MST	Short 1	Varrow	0 0 0 0	0 0 0 0	?????	????	Funnel Cloud Hail (1.75) Tornado (F0) Hail (2.25) Hail (1.50)			
	Ар	lational Cente rivate citizen : liameter was r	spotted a	tornado b	riefly	y on ti	ne grou	aser sp ind nea	potted a funnel cloud near Goodrich. ar Goodrich. Hail up to 2.25 inches			
Adams County Brighton	28	1406MST			0	0	?	?	Hail (1.75)			
	The	public report	ted golf b	all-size h	ail in	Brigl	nton.					
Kiowa County 7 N Galatea	28	1430MST			0	0	?	?	Hail (1.75)			
	Gol	f ball-size hai	l reported	d north of	f Gala	atea.			, in the second			
Weld County Gilcrest 3 WNW Greeley Windsor Ault	28 28 28 28	1448MST 1501MST 1508MST 1530MST			0 0 0 0	0 0 0 0	???	???	Hail (1.75) Hail (1.25) Hail (1.75) Hail (1.75)			
	Pub	lic reported g	olf ball-s	ize hail a	t Gilo	erest,	near G	reeley	, and at Windsor.			
Cheyenne County 2 N Kit Carson 3 NW Firstview 3 N Cheyenne	28 28 28	1449MST 1520MST 1525MST			0 0 0	0 0 0	?	?	Hail (2.75) Hail (1.00) Hail (1.00)			
Wells Kit Carson	28	1545MST			0	0	?	?	Hail (0.75)			

**MAY 1991** 

		TIME			NO.	OF SONS	ESTIN DAMA	ATED GE	
PLACE	DAD-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-L-mo	Om20CL2		COCODA	CHARACTER OF STORM

### COLORADO Cont'd

	The	public report	ted up t	o baseball-	size h	ail.			
Bent County 23 ESE La Junta	28	1515MST			0	0	3	?	Thunderstorm Winds
	Thu	ınderstorm wi	nd gust	s blew dov	vn soi	ne po	wer lir	nes.	
Kit Carson County 2 SE Stratton 8 S Burlington 15 S Burlington 5 E Burlington	28 28 28 28 28	1520MST 1535MST 1540MST 1545MST	Short	Narrow	0 0 0 0	0 0 0	??	????	Hail (1.00) Hail (0.75) Hail (1.75) Tornado (F0) Hail (1.00)
	Stro desi	ong thundersto troyed some g	rms mo rain bir	ved through as on a far	h easte m 5 п	ern Ki iles e	it Carso east of	on Cou Burlin	nty, producing a brief tornado which gton.
Jefferson County 12 SW Denver 13 SW Denver 9 S Denver 7 SW Denver 8 SW Denver	28 28 28 28 28 28	2049MST 2100MST 2100MST 2117MST 2121MST			0 0 0 0	0 0 0 0	?????	?????	Hail (0.75) Hail (1.50) Hail (0.75) Hail (1.00) Hail (0.75)
Denver County 7 SW Denver	28	2100MST			0	0	?	?	Hail (0.75)
Hail ranging from 0.75 inch to 1.50 inches in diameter fell of Denver metropolitan area. In some areas, hail was up to a									ver the southwestern sections of the few inches deep.
Weld County Fort Lupton	29	1545MST			0	1	?	?	Lightning
	Ligi in a	htning struck n area hospita	a 13-ye al for 2	ar-old boy days befor	in a f e imp	ield in rovin	Fort	Lupton	. The boy was in critical condition
Morgan County 3 NE Wiggins Weldona	29 29	1618MST 1629MST	1	1	0	0	?	?	Hail (2.00) Hail (1.75)
Washington County	Αt	hunderstorm d	iroppea	hall up to	2.00	ıncne	s in ai	ameter	•
Washington County 25 SW Brush 5 S Akron	29 29	1740MST 1756MST-	Short	Narrow	0	0	?	?	Tornado (F0)
8 E Akron 9 SE Akron Otis	29 29	1826MST 1823MST 1835MST	14.0	50	0 0 0	0 0 0	??	???	Tornado (F1) Hail (2.50) Hail (1.75)
6 S Platner 9 S Otis Platner Vuma County	29 29	1840MST- 1916MST 1842MST	7.0	25	0	0 0	4 ?	?	Tornado (F0) Hail (1.75)
Yuma County 3 S Yuma 12 SE Yuma Near Eckley	29 29 29	1913MST 1926MST 1951MST	Short	Narrow	0 0 0	0 0 0	??	??	Funnel Cloud Funnel Cloud Tornado (F0)

The Washington County Sheriff's Office spotted three tornadoes moving through the central part of the county and followed them through the duration. The first brief touchdown was 25 miles southwest of Brush. A second tornado touched down 5 miles southwest of Akron and continued on the ground for approximately 14 miles before lifting 8 miles east of Akron. The third tornado

MAY 1991

		TIME			NO.	OF SONS	EST II	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLI	O MESSON IN		CECOEN	CHARACTER STORM

### COLORADO Cont'd

touched down 6 miles south of Platner and continued for approximately 7 miles, lifting 9 miles south of Otis. This tornado remained at the end point for about 25 minutes, causing damage to a farm in the area, but no injuries were reported. These thunderstorms also produced golf ball-to tennis-ball-size hail. The Colorado State Patrol reported several funnel clouds in the Yuma area. A private citizen reported a tornado briefly on the ground near Eckley.

	area	a. A private	citizen reported a	tornac	lo bri	efly or	the g	round near Eckley.
Phillips County 5 W Holyoke	29	1846MST	Short Narrow	0	0	?	?	Tornado (F0)
	Αt	orief tornado v	was reported by a	citize	n.			
Weld County 3 N Pawnee Buttes 4 NE Pawnee	30 30	1808MST 1845MST		0	0	?	?	Hail (2.50) Hail (1.00)
Buttes 7 NE Pawnee Buttes	30	1855MST		0	0	?	?	Hail (1.25)
Buttes	Spo	otters reported	hail up to tennis	ball-si	ize in	the no	rth-cei	ntral portion of Weld County.
Morgan County Hillrose	30	2134MST		0	0	?	?	Hail (0.75)
	Din	ne-size hail re	ported by a citize	n in F	Iillros	e.		
Denver County 3 S Denver 5 SE Denver	31 31	1432MST 1450MST		0	0 -	3	?	Hail (1.75) Hail (0.75)
Arapahoe County 6 S Denver 14 SE Denver	31 31	1436MST 1440MST-		0	0	3	?	Hail (0.75)
10 SE Denver 12 SE Denver 12 SE Denver 12 SE Denver Watkins	31 31 31 31 31	1444MST 1447MST 1504MST 1524MST 1537MST 1545MST		0 0 0 0 0	0 0 0 0 0	4 4 4 3 4	???????	Hail (1.75) Hail (1.00) Hail (1.00) Hail (1.00) Hail (0.75) Hail (1.00)
	Hai con	l fell across t tinued east to	he southern and : Watkins. Severa	southe l hous	astern es and	section	ons of were d	the Denver metropolitan area, and amaged.
Douglass County 5 ESE Parker	31	1559MST		0	0	?	?	Hail (1.00)
	One	e-inch hail was	s reported near W	atkins	i <b>.</b>			
El Paso County 15 N Colorado Springs	31	1615MST		0	3	?	?	Lightning
-L82	Thr 16-	ee teenagers v year-old was in	vere struck by lig n critical condition	htning from	during the sta	ng a so rike, b	occer g ut the c	ame at the Air Force Academy. A other two were not seriously injured.
Elbert County 10 N Elizabeth	31	1653MST		0	0	?	?	Hail (1.00)
7 SE Watkins	31	1700MST- 1830MST		Λ	0	5	9	West Wood
13 N Elizabeth Elizabeth	31 31	1701MST 1749MST		0 0 0	0	5 ? ?	? ? ?	Flash Flood Hail (1.75) Hail (1.00)
Byers	31	1800MST- 2100MST		0	0	4	?	Flash Flood

MAY 1991

		TIME			NO.	OF SONS	EST II	MATED AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-C-FED	OmizeCt_Z-		COCOLA	CHARACTER OF STORM

### COLORADO Cont'd

Hail to golf ball-size fell in the northwestern portion of Elbert County and 1.00-inch hail

	thu	apanoe County nderstorms lat	y Koad er prodi	oced very he	ad ne eavy 1	ar in	e creei Byers	that re	x Elder Creek out of its banks at ived extensive damage. The same sulted in flooding streets throughout and some damage resulted.			
Morgan County 3 SE Brush 3 N Hillrose	31 31	2048MST 2114MST-	Short	Narrow	0	0	?	?	Tornado (F0)			
Hillrose		2123MST 2128MST			0	0	?	?	Hail (1.00) Hail (1.75)			
Develop Greats	Me Hil	teorologist spe lrose.	otted a	tornado in	open	count	ry nea	r Brusi	h and golf ball-size hail later fell at			
Douglass County Castle Rock		2103MST			0	0	?	?	Hail (0.75)			
	Αt	orief tornado t	ouchdo	wn was rep	orted	by a	spotte	r.				
Denver County 3 S Denver	31	2120MST- 2200MST			0	0	?	?	Flash Flood			
3 NNW Denver	31				0	0	3	?	Flash Flood			
A = 1 = 0 = 4	stre	Thunderstorms, producing very heavy rain moved across Denver, caused flooding in mar streets from just south of the central business district, to just northwest. In the northwester sections, water was up to 10 inches deep.										
Arapahoe County 14 SE Denver 14 SE Denver	31 31	2140MST 2148MST			0	0	?	?	Hail (1.00) Hail (1.25)			
	Off nei	duty Nationa ghborhood sou	l Weath	ner Service of Denver.	perso	nnel 1	reporte	d hail	up to 1.25 inches in diameter in a			
Logan County Merino	31	2212MST			0	0	?	?	Hail (1.75)			
	A s	potter reporte	d golf t	all-size hai	l in l	Merino	) <b>,</b>					
Washington County 5 WSW Akron	31	2328MST			0	0	?	?	Hail (1.50)			
	Pin	g-Pong ball-si	ze hail	was reporte	d ne	ar Akı	ron.					
CONNECTICUT	ı											
Litchfield, Hartford, New Haven, and	17	1730EST- 2200EST			0	0	5	0	Lightning			
Middlesex Counties	Lig	htning strikes	caused	power outa	ges t	o abo	ut 7.00	00 elec	tric customers. Over 4,000 homes			

Litchfield,
Hartford, New
Haven, and
naven, and
Middlesex Counties

Lightning strikes caused power outages to about 7,000 electric customers. Over 4,000 homes in Middletown, and the entire town of Burlington lost power. Thousands more lost power in parts of northern and central Connecticut. Urban street flooding occurred during heavy rain. One inch of rain fell in Danbury in a 20-minute period during the early nighttime hours.

New Haven County

1830EST-1900EST Lightning

A bolt of lightning ripped a hole in the roof of a house in Naugatuck. In Waterbury, lightning knocked down wires with a shower of sparks that set at least one car on fire.

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	ATED AGE	
PLACE	DAD-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	סחיייא	OTTO CL.Z-	~- <del>.am</del> ro0xo	CECOLO	CHARACTER OF STORM

		L			L	<u> </u>		ئـــــــــــــــــــــــــــــــــــــ	<u></u>
CONNECTICUT	Co	nt'd							
Fairfield County Ridgefield	30	1727EST			0	0	3	0	Thunderstorm Winds
	Sev	eral large tre	es were b	lown dow	n and	l caus	ed poy	ver ou	tages.
Fairfield County Stamford	30	1800EST			0	0	2	0	Thunderstorm Winds
	Sev	eral trees we	re blown o	down.					
Litchfield, Fairfield, Hartford, and	30	1800EST- 2030EST			0	0	5	0	Lightning
New Haven Counties	Lite	chfield Count	y, and mo	re than 3,	000 i	n the t	town o	f Danl	stomers. About 3,000 customers in bury lost electric service. Lightning heavy rain resulted in urban stree
DELAWARE									
New Castle County	06	1710EST- 1740EST			0	0	3	0	Thunderstorm Winds
	Tre	es and power	lines wer	e blown o	lown	, closi	ing roa	ds in	several places.
DEZ001-003	Mo	nth			0	0	6	0	Heat
	Stat Dar Suss tow	e agricultura nage was calc sex County, s ards the end	l officials culated as 1,351,500 of the mo	reported follows: D. Tempe nth.	that Kent ratur	the pe Count es in t	ea crop ty, \$92 he mid	p was 24,000 and u	devastataed due to abnormal heat; New Castle County, \$36,000; and pper 90s were common, particularly
FLORIDA									
Flagler and St. Johns Counties	01	1415EST	Short	?	0	0	5	0	Waterspout Tornado (F0)
and Marineland	Seve	vaterspout mo St. Johns Co ered water a eral cars on F eral power lin	nd root da Iighway A	amage; an AA were	id cai also d	s in t lamag	the parted. Ju	e beacl lass do king l ist nor	h at the county line between Flagle ors were blown in; 13 vacant rooms ot were damaged by flying debris th of Marineland at Crescent Beach
Palm Beach County West Palm Beach	05	1253EST			0	0	0	0	Thunderstorm Winds (G56)
	Palr	n Beach Inter	national A	irport rep	orted	a win	d gust	to 65	mph during a midday thunderstorm
Bay County Panama City	06	1950EST			0	2	0	0	Lightning
	Both	o men working h men were to ss the county	reated at a	ece of stee local hos	el at a spital	shipy and re	yard w eleased	ere inj I. Sca	ured when lightning struck nearby ttered power outages were reported
Duval County Mayport	06	1440EST			0	0	0	0	Thunderstorm Winds (G50)

The pilot station at Mayport reported a wind gust to 58 mph during a thunderstorm.

MAY 1991

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I	CHICACLE !	P.OCOp.mor-Y	CECOTO	CHARACTER OF STORM

#### FLORIDA Cont'd

FLORIDA Cont o	1									
Lake County Eustis	06	1530EST			0	0	3	0	Thunderstorm W	inds
	Stro	ong thundersto	rm winds t	ore the r	oof o	ff a m	ulti-ve	hicle g	arage on a golf co	urse near Eustis.
Manatee County Bradenton	07	1831EST	0.6	40	0	0	5	0	Tornado (F0)	
	A s wal	mall tornado i ls of a chemic	moved cars al storage s	s about a shed we	and b	lew do maged	own tr	ees and	d power lines. The	he roof and side
Palmetto	07	1845EST- 1905EST	•		0	0	3	0	Thunderstorm W	inds
	Stro	ong downburst	winds ripp	ped off	garag	e door	s in ar	auton	nobile service cent	ter.
Okaloosa County Crestview	12	1720EST			0	0	4	0	Thunderstorm W	inds
	at a	ong thundersto Crestview Cho of Crestview	evrolet deal	blew dov lership.	wn a Seve	large i ral tree	metal o	canopy e blowr	and damaged seven down at Valley a	eral automobiles nd Stillwell, just
Broward County Coral Springs	13	1505EST			0	0	3	0	Lightning Thunderstorm W	inds
	Stro	ong thundersto porarily witho	rm winds h ut electrici	olew dov ty. Lig	vn se htnin	veral ti g strik	rees ar es cau	nd powersed sev	er lines, leaving 1 veral small fires.	0,000 customers
Monroe County 8 NW Key West	14	1002EST	?	?	0	0	0	0	Waterspout	
	A sl	hort-lived wat	erspout wa	s observ	ed 8	miles	northv	vest of	the Key West Air	port.
Volusia County New Smyrna Beach	14	1330EST			1	1	0	0	Lightning	
	Ligh with	ntning struck ( serious injur	two men as ies. (M29	they ward)	alked	on the	e beac	h, killi	ng one and hospit	alizing the other
Palm Beach County 1 W Wellington	14	1710EST	Short	?	0	0	0	0	Tornado (F0)	
	A si befo	mall tornado v ore causing an	vas sighted y damage.	by a st	ate tr	ooper	in a fi	eld nea	ar Wellington. Th	ne tornado lifted
Okaloosa County Crestview	14	1730EST			0	0	2	0	Thunderstorm W	inds
	Stro	ng thundersto	rm winds b	olew dov	vn tre	ees and	i powe	er lines	•	
Manatee County 22 ESE Sarasota	16	1330EST			0	0	3	0	Thunderstorm W	inds
	Stro door	ng thunderstor r was blown o	rm winds b	lew dow eral stora	n nui	merous uilding	trees s wer	and po e dama	wer lines at Myak ged.	ka City. A barn
Sarasota County 5 ESE Sarasota	16	1340EST			0	0	2.	0	Thunderstorm W	inds

		TIME			NO.	OF SONS	ESTIN DAM/	MATED AGE	
PLACE	D 6 E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTUMO	-2700mg	~ <del>-camaOxa</del> a	COCOLO	CHARACTER OF STORM

FLORIDA Cont'o	1								
	Str	ong thundersto	orm winds	blew do	own t	rees an	ıd pow	er line	es at Fruitville.
Pinellas County St. Petersburg	16	1340EST	?	?	0	0	2	0	Tornado (F0)
	A s	small tornado	touched do	wn brie	fly ar	nd darr	aged a	a carp	ort and two homes.
Hillsborough County Brandon to Plant City	16	1430EST			0	0	2	0	Thunderstorm Winds
riant City	Nu	merous trees a	ind power	lines we	ere bl	own de	own n	ear Br	andon, Seffner, and Plant City.
Pasco County 12 NNW Tampa	16	1530EST			0	0	2	0	Thunderstorm Winds
•	Nu	merous trees v	vere uproc	ted and	powe	er lines	were	blowr	down in Odessa.
Pasco County	16	1530EST- 1600EST			0	0	1	0	Lightning
	Lig	htning ignited	two fores	t fires in	n the	easterr	part	of the	county.
Orange County Union Point	16	1555EST			0	0	1	0	Hail (0.75)
	Nic	kel-size hail f	ell at the U	Jniversi	ty of	Centra	l Flor	ida.	
Pinellas County St. Petersburg	16	1600EST			0	0	1	0	Hail (0.75)
	Nic	kel-size hail f	ell at St. F	etersbu	rg.			,	
Citrus County Inverness	16	1620EST			0	0	1	0	Thunderstorm Winds
	Nu	merous trees v	vere uproo	ted or b	lown	over a	long (	County	Road 581, south of Inverness.
Osceola County Kissimmee	16	1630EST			0	0	2	0	Hail (0.75)
	Nic tree	kel-size hail f es, downed po	ell betwee wer lines,	n Kissin and also	nmee o dest	and Stroyed	t. Clou a scree	id. St ened p	trong thunderstorm winds uprooted orch.
Orange County Orlando	16	1630EST- 1651EST			0	0	2	0	Hail (1.00)
	Lar Air	ge hail fell in port at 1651 E	the southe	rn part	of Or	lando.	A 65	-mph	wind gust was recorded at Orlando
Pinellas County Pinellas Park	16	1655EST	0.1	25	0	0	3	0	Tornado (F0)
	A s	mall tornado	damaged a	carport	in Pi	nellas	Park.		
Pasco County Zephyrhills	16	1700EST			0	0	3	0	Thunderstorm Winds
	Stro	ong thundersto	orm winds	downed	seve	ral tree	es and	power	· lines.

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		TIME			NO. PER:	OF SONS	EST IN	AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-L-MO	OmcoCc.22-1	~-campo->-	OROAO	CHARACTER OF STORM

## FLORIDA Cont'd

Putnam County Johnson	16	1859EST			0	0	0	0	Thunderstorm Winds
	In v	western Putna	m County,	a large	tree	was uţ	proote	d on Fl	lorida Highway 21 near Johnson.
Union and Baker Counties	16	2000EST			0	0	3	0	Thunderstorm Winds
baker Countres	Doy wer	wnburst winds e uprooted ar	s struck a r nd blown a	nobile ho	ome p e higl	ark ca nway r	using near R	damage aiford.	e to power lines and awnings. Trees
Sarasota County Venice	17	1439EST			0	7	0	0	Lightning
	Lig oth	htning struck ers, minor inj	near a gro uries.	oup of s	even	golfer	s; one	persor	sustained serious injuries and the
Charlotte County	17	1620EST			0	0	0	1	Lightning
	Lig	htning ignited	l several b	rush fire	s.				
Pinellas County Boca Siega Bay	17	1630EST	?	?	0	0	0	0	Waterspout
	Two	o waterspouts	were repo	orted in	Boca	Siega	Bay n	oving	west away from shore.
Countywide	17	1630EST- 1640EST			0	0	2	0	Hail (0.75) Thunderstorm Winds
	Nic	kel-size hail 1	fell across	much of	the	ounty	and t	rees an	d power lines were blown down.
				much of	IIIC (	Journ	tille t	toos mi	e power miss were erenia consi.
St. Petersburg	17	1640EST	0.2	25	0	0	0	0	Tornado (F0)
St. Petersburg		1640EST mall tornado	0.2	25	0	0	0	0	•
St. Petersburg  Manatee County	A s		0.2	25	0	0	0	0	•
J	A s	mall tornado	0.2 touched de	<b>25</b> own brie	0 fly ca 0	0 ausing 0	0 no da 2	0 mage. 0	Tornado (F0) Thunderstorm Winds
J	A s 17 Nu	mall tornado	0.2 touched de	<b>25</b> own brie	0 fly ca 0	0 ausing 0	0 no da 2	0 mage. 0	Tornado (F0) Thunderstorm Winds
Manatee County  Satasota County	A s 17 Num 17 Thu	mall tornado 1725EST merous trees a 1730EST	0.2 touched do	25 own brie lines we	0 efly can 0 ere bl	0 ausing 0 own d	0 no da 2 own b	0 mage. 0 y stron 0	Tornado (F0) Thunderstorm Winds
Manatee County  Satasota County	A s 17 Num 17 Thu	mall tornado 1725EST merous trees a 1730EST understorm wi	0.2 touched do	25 own brie lines we	0 efly can 0 ere bl	0 ausing 0 own d	0 no da 2 own b	0 mage. 0 y stron 0	Tornado (F0)  Thunderstorm Winds  ag winds.  Thunderstorm Winds
Manatee County  Satasota County 25 ESE Sarasota  Hillsborough County	A s 17 Nur 17 Thu wer 17 Nic	mall tornado 1725EST merous trees a 1730EST understorm wie downed. 1740EST	0.2 touched do and power ands blew to	25 own bried lines we he roof o	O  of ly ca  of	0 ausing 0 own d 0 carport	0 no da 2 own b 3 in En	0 mage. 0 y stron 0 glewoo	Tornado (F0)  Thunderstorm Winds ag winds.  Thunderstorm Winds ad. Numerous trees and power lines
Manatee County  Satasota County 25 ESE Sarasota  Hillsborough County	A s 17 Num 17 Thu wer 17 Nic igni	mall tornado 1725EST merous trees a 1730EST understorm wie downed. 1740EST kel-size hail t	0.2 touched do and power ands blew to	25 own bried lines we he roof o	O  of ly ca  of	0 ausing 0 own d 0 carport	0 no da 2 own b 3 in En	0 mage. 0 y stron 0 glewoo	Tornado (F0)  Thunderstorm Winds ag winds.  Thunderstorm Winds ad. Numerous trees and power lines  Hail (0.75)
Manatee County  Satasota County 25 ESE Sarasota  Hillsborough County 17 SSE Tampa  Monroe County	A s 17 Num 17 Thu wer 17 Niccigni	mall tornado 1725EST merous trees a 1730EST inderstorm wire downed. 1740EST kel-size hail to	0.2 touched do and power ands blew to fell at Wirning.	25  own brie  lines we  he roof o  nauwa in	0 0 cre bl 0 0 off a c	0 ausing 0 own d 0 carport 0 thern	own best own	0 mage. 0 y stron 0 glewoo 0 orough	Tornado (F0)  Thunderstorm Winds ag winds.  Thunderstorm Winds ad. Numerous trees and power lines  Hail (0.75)  County. Several brush fires were

MAY 1991

		TIME			NO.	OF SONS	EST IN	AATED AGE		
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	CHINGC Z	4-camoozo	COCOCIO	CHARACTER OF Storm	
FLORIDA Cont'	d									
	A v a n	vaterspout c langrove are	ame ashor a with litt	e between le damage	Boni	ta Be	ach and	d Cape	e Coral. It touched down briefly	
Sarasota County Siesta Key	18	1620EST			0	0	2	0	Thunderstorm Winds	
	Thu	ınderstorm v	winds dam	aged seve	ral ro	ofs.				
Pasco County New Port Richey	18	1735EST- 1745EST	0.5	50	0	0	4	0	Waterspout Tornado (F0)	
	A s Em	mall waters bassy Hill s	pout move ubdivision	ed ashore	damag	ging t	he roo	fs of e	ight homes in the Gulf Harbor an	
Pinellas County										

Three men seeking shelter under a tree were struck by lightning. All three were critically injured and placed on life support. One man died May 28 and another (his son) died on June 11. The third man (a family friend) remains in a coma. (M49O)(M18O)

Shired Island 19 1445EST Lightning A young boy was struck by lightning and killed as he played outdoors at a county park. (M050)

De Soto County Brownsville 20 1943EST 0.4 50 3 Tornado (F0) A small tornado touched down in a rural area flattening a barn on a cattle ranch. Monroe County 4 N Key West

**Dixie County** 

24 1625EST 0 **Funnel Cloud** A funnel cloud was observed 4 miles north of Key West.

Collier County Golden Gate 24 1500EST 0 0 Lightning 1 0

A 17-year-old high school student was struck by lightning and critically injured while raking leaves on his front lawn. He had to be revived by paramedics and remains hospitalized.

Monroe County 5 N Key West 25 1110EST Funnel Cloud

A funnel cloud was observed 5 miles north of Key West.

ſ			TIME			NO.	OF SONS	ESTIN DAM/	ATED AGE	
	PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIOTH OF PATH (YARDS)	KILLED	Ombo C. Z.	4-88m00x0	CEOPN	CHARACTER OF STORM

FLORIDA Cont'o	d								.*	
Lee County Cape Coral	25	1640EST	?	?	0	0	0	0	Waterspout	
	Αv	waterspout wa	is observ	ed off Ca	ipe Co	ral.	•			$f_{\infty}$
Manatee County Bradenton	26	1115EST			0	1	0	0	Lightning	
		htning struck ned tissue an			n that	was w	vorking	g in a s	shop with a metal ro	of. He suffered
Lee County Bonita Springs	27	1715EST			0	1	0	0	Lightning	
	A 2 whi	29-year-old mile washing h	an was t is car.	hrown 15	feet :	and pa	artially	paraly	yzed after being stru	ck by lightning
Polk County	30	1510EST- 1600EST			0	0	1	0	Hail (0.88)	
	Nic	kel-size hail	fell at La	ike Wales	s, Fort	Mead	de, and	I Lakel	land breaking off tre	æ limbs.
Hillsborough County Plant City	30	1530EST- 1550EST			0	0	1	0	Hail (1.50)	
	Gol dov	of ball-size haivned by stron	l broke g g winds.	lass and t A hous	tree lir e and	nbs at autom	Plant o	City. Twee	Trees were uprooted amaged by falling tr	and power line
Hardee County Wauchula	30	1711EST			0	0	1	0	Hail (0.75)	
	Nic	kel-size hail	fell in W	auchula.						
Pinellas County	31	0950EST- 1005EST			0	0	1	0	Hail (1.00)	
	Lar	ge hail fell fr	om Larg	o and Cle	earwat	er to	Ozona			
Pinellas County Largo	31	1000EST			0	1	0	0	Lightning	.•
	Lig hos	htning struck pital for treat	a fire fi ment, bu	ighter in it was late	Herita er rele	ige Pa ased.	ırk in	Largo.	He was taken und	onscious to the
Putnam County 36 E Gainesville	31	1310EST			0	0	3	0	Hail (1.75)	
	Gol	lf ball-size ha	il fell we	est of Pala	atka, t	reaki	ng glas	ss and	tree limbs.	
Sumter County 50 NNW Orlando	31	1320EST			0	0	4	2	Thunderstorm Wi	inds
	Stro	ong thunderst	orm win	ds destroy	yed a	carpor	t and l	blew d	own trees and power	r lines.
Citrus County 49 SSW Gainesville	31	1345EST			0	0	. 1	0	Hail (0.88) Thunderstorm Wi	inds (G52)
	<b>T</b> .	. 1 . 1 6.11 . 4			1001 - 3	4_	L- (A	1. 1	1 4	-

		TIME			NO. PER	OF SONS	EST IN	AATED AGE	
PLACE	DAD-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	כשבו∟⊷צ	סיייסכרביי	<b>~-</b> com00x0	ORODO	CHARACTER OF STORM

FLORIDA Contro	1											
Putnam County 38 WNW Daytona Beach	31	1345EST			0	0	3	0	Hail (1.75)			
	Gol	f ball-size ha	il fell at L	ake Con	10, sh	atterii	ng win	dows	and breaking tree limbs.			
Marion County Ocala	31	1358EST- 1440EST			0	0	3	0	Thunderstorm Winds Hail (0.75)			
	Lar	ge hail fell in	the Ocala	area. S	strong	wind	is blew	down	trees and power lines.			
Putnam County 38 E Gainesville	31	1400EST			0	0	2	0	Thunderstorm Winds			
	Tre	es and power	lines wer	e blown	down	near	Palatk	a.				
Levy County Chiefland	31	1430EST			0	0	3	0	Thunderstorm Winds			
	Nur	nerous trees a	ınd power	lines we	ere do	wned	by the	unders	torm winds.			
Alachua County 18 N Ocala	31	1447EST			0	0	2	0	Thunderstorm Winds (G52)			
	Wir	Wind gusts to 60 mph were reported by a ham radio operator in southern Alachua County.										
Brevard County Titusville	31	1620EST			0	0	1	0	Hail (0.75)			
	Nic	kel-size hail f	ell at Titu	sville.					•			
GEORGIA												
Quitman County Southern Portion	01	1438EST			0	0	3	?	Thunderstorm Winds			
		nerous large t er outages.	ree limbs	and pow	er line	es wer	re torn	down	by the winds, resulting in scattered			
Colquitt County Countywide	01	1439EST			0	0	2	?	Thunderstorm Winds			
	Nur	nerous large (	ree limbs	and pow	er lin	es we	ere tori	ı dowi	by the winds.			
Clay County 5 SSE Fort Gaines 5 SSE Fort Gaines	01 01	1443EST 1443EST			0	0	?	?	Hail (1.00) Thunderstorm Winds			
Bluffton	Nur Mar	nerous large to ny utility line	rees were s were tor	uproote n down	d in ( which	Clay C	County Ited in	, main power	ly throughout the southern portion. outages.			
Lee County Leesburg 3 N Leesburg		1450EST 1515EST	0.5	0	0	0	4	?	Thunderstorm Winds Thunderstorm Winds			
	Numouta and a da	nerous trees wages. Four ho the roof was iry farm were	vere uproc mes were ripped of e scattered	oted and damaged f one sild by the	fell on the left of the left o	nto po proote orth o over	ower li ed trees of Lees a past	nes ard s, six i burg, i ure. S	ound Leesburg, resulting in isolated more homes had shingles ripped off, about 100 fiberglass calf hutches at everal pecan trees were uprooted.			

		TIME			NO.	OF SONS	ESTIN DAM/	AATED	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	مسدي	مسمورح	ுக்ருர்	ORODA	CHARACTER OF STORM

GEORGIA Cont'	d						
Terrell County Bronwood Bronwood	01 01	1507EST 1507EST	0	0	2 ?	?	Thunderstorm Winds Hail (1.00)
	Nu	merous large tree limbs and powe	r line	s were	torn c	lown, r	esulting in scattered power outages.
Grady County Pine Park	01	1630EST	0	0	4	4	Thunderstorm Winds
	A s dov des	trong thunderstorm produced win wned large trees near U.S. Hig troyed.	ds the ghway	at topp y 84	oledal in Pin	ouilding e Park	g, ripped shingles from a house, and . Several pecan trees were also
Chatham County Savannah	01	Night	0	0	3	?	Flash Flood
	He: eva	avy rainfall produced flash flood cuated after the waters rose seve	s ove ral fe	r the e	eastern	side o	f Savannah. A few residents were
Troup County LaGrange	04	1330EST	0	0	5	?	Thunderstorm Winds
	pov	ong winds uprooted numerous tre wer after utility lines were torn do ooted trees.	es in own.	southy Twen	vesteri ity hor	n LaGranes and	ange. About 30% of LaGrange lost is several vehicles were damaged by
Baldwin County Countywide Countywide		1500EST 1500EST	0	0	?	?	Hail (0.88) Thunderstorm Winds
	Sev tree	reral large trees were uprooted, me fell onto a house.	ainly	arour	nd Lak	e Sincl	air and the Little River areas. One
Hall County Oakwood	04	1500EST	0	0	4	?	Lightning
	Lig stor	htning struck a tree, moved to a rage buildings. Structural and el	barr ectric	n, and cal dar	then nages	travelec occurre	d underground to a house and two ed to the buildings.
Spalding County Griffin	04	1510EST	0	0	?	?	Funnel Cloud
Laurens County East Dublin Rentz	04 04	1630EST 1630EST	0	0	?	?	Hail (0.75) Hail (0.75)
Dade County 0.5 N to 2 NNE	05	0815EST 1.5	0	0	5	?	Thunderstorm Winds
Trenton	Hig fari	thway 11, north of Trenton. Th	ie wi imago	nds de ed by :	estroye an upr	ed a ba cooted t	rom near Interstate 59 to Georgia rn and damaged a pool house at a ree. Numerous trees were downed half-mile wide.
Dade County Northern Portion Walker County	05	0820EST	0	0	4	?	Thunderstorm Winds
Walker County Lookout Mountain Wallaceville Chickamauga	05 05	0830EST 0900EST	0	0	<b>4</b> <b>5</b>	?	Thunderstorm Winds Thunderstorm Winds
Catoosa County Fort Oglethorpe	05	0900EST	0	0	4	?	Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	ESTII DAM/	ATED GE	
PLACE	DA)	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KI THO	CHICACLE !		COCO	CHARACTER OF STORM

#### GEORGIA Cont'd

Strong thunderstorm winds developed over extreme northwestern Georgia. Hundreds of trees were innocted or broken and power lines were torn down, resulting in many outages. Extensive es sa

	were uprooted or broken and power lines were torn down, resulting in many outages. Extensive property damage occurred from Chickamauga, north to Fort Oglethorpe. Most of the damages developed when trees fell on houses. Several vehicles were moved by the winds. In Catoosa County, one utility pole was blown down in Chicamauga National Military Park.											
Whitfield County Cohutta Dalton Tilton	05 05	0840EST 0850EST			0	0	3	?	Thunderstorm Winds Thunderstorm Winds			
THOU		Vhitfield Cou ting in power		ly aroun	d Da	lton,	Tilton,	and (	Cohutta, trees fell into power lines			
Newton County Covington	05	1425EST			0	0	3	?	Thunderstorm Winds			
	Strong winds uprooted a few trees on the western side of Covington.											
Morgan County Madison Madison		1447EST 1447EST			0	0	<b>4</b> ?	?	Thunderstorm Winds Hail (0.88)			
	Abou	ut 30 trees w	ere uroote	d on the	west	em si	de of l	Madiso	on causing damage to a few homes.			
Walton County Monroe Social Circle		1500EST 1500EST			0	0	?	?	Hail (1.00) Thunderstorm Winds			
	Tree	limbs and a	few power	r lines w	vere t	orn de	own by	stron	g winds across Social Circle.			
Carroll County Carrollton	05	1552EST			0	0	?	?	Funnel Cloud			
Muscogee County Columbus	05	1610EST	0.3	100	0	0	5	?	Tornado (F1)			
	A toreast mile.	rnado develo leaving an in . Dozens of rees. Major	ped over r ntermittent large trees damages o	orthern and ski were b occurred	Colu- pping roker to ut	mbus path or u ility l	around . Actu prooted ines an	l Gree ial dai d, and id pole	n Island Hills. The tornado moved mages covered about a quarter of a many residences were damaged by es, resulting in outages.			
Muscogee County Columbus Countywide Chattahoochee		1611EST 1615EST			0	0	6 5	?	Thunderstorm Winds (G71) Thunderstorm Winds			
County	05	1615EST			0	0	3	?	Thunderstorm Winds			
Harris County Pine Mountain Waverly Hall	05	1615EST			0	0	4	?	Thunderstorm Winds			
Hamilton Hamilton	A large area of straight-line winds were generated by a squall line that moved over Muscoge											

A large area of straight-line winds were generated by a squall line that moved over Muscogee, Chattahoochee, and Harris Counties. Numerous large trees and limbs were downed and many power lines and poles were damaged. About 30,000 customers were without power over the area, including 20,000 in Columbus. In Columbus, traffic lights, signs, homes, and vehicles were damaged during the storm. Several businesses near the airport sustained major roof damage. At the Columbus Metropolitan Airport, two airplanes were overturned. Winds tore off 20 hangar doors, including an inside door that damaged another airplane. In Harris County, a business suffered extensive roof damage at Waverly Hall. In Hamilton, one home had damages from an unrooted tree. from an uprooted tree.

		TIME			NO. PER	OF SONS	EST IN	ATED GE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLE	חשמכר≤יי	ح-بعسە0عىم	COCOA	CHARACTER OF STORM

GEORGIA Cont'	đ											
Troup County Countywide LaGrange	05	1615EST	0	0	3	?	Thunderstorm Winds					
Hogansville	Scattered trees were uprooted over Troup County, mainly around LaGrange and Hogansville, resulting in scattered power outages.											
Coweta County Newnan Raymond Moreland	05 05	1620EST 1625EST	0	0	4	?	Thunderstorm Winds Thunderstorm Winds					
Moreland	Nur Mor dan Geo	merous trees were uprooted over reland. Utility lines were torn do naged by uprooted trees. Thund orgia Highway 29 in Newnan.	Cown a lersto	veta Co nd elec rm wii	ounty, etrical nds to	mainl faciliti re the	y around Newnan, Raymond, and es in Raymond and Moreland were tin off the roof of a restaurant on					
Douglas County Winston	05	1624EST	0	0	3	?	Thunderstorm Winds					
	A tı	ree was uprooted and a few tree	limbs	were	torn o	ff near	Winston on Georgia Highway 5.					
Upson County Countywide The Rock	05	1630EST	0	0	3	?	Thunderstorm Winds					
Thomaston	Scat	ttered trees were blown down ov	er Up	pson C	ounty	•						
Spalding County Griffin	05	1630EST	0	0	3	?	Thunderstorm Winds					
	Scat wer	ttered trees were blown down ove e also interrupted.	er Spa	lding (	County	y, mair	lly around Griffin. Utility services					
Cherokee County Woodstock	05	1630EST	0	0	4	?	Flash Flood					
	Hea evac	vy rainfall over Cherokee County cuated. Some residents were dis	y proc place	duced f d due	flash f to wat	loods a er dam	t Woodstock. Several homes were ages.					
Fulton County Union City Atlanta	05	1630EST	0	0	3	?	Thunderstorm Winds					
De Kalb County N Atlanta	05	Afternoon	0	0	4	?	Lightning					
	Scat Atla	ttered trees were blown down in anta had power outages. A tree la	Unic anded	on City lon an	and i	n nort	heastern Atlanta. Several areas of car after being struck by lightning.					
De Kalb County Lithonia Stone Mountain	05	1640EST	0	0	3	?	Thunderstorm Winds					
Stolle Modifiant	Scat	ttered trees were uprooted near I	ithon	iia and	powe	r outag	ges developed at Stone Mountain.					
Stone Mountain	05	1640EST	0	0	4	?	Flash Flood					
	Flas	sh flooding occurred in a resider eloped; damages were minor.	ntial	area o	f Ston	e Mou	ntain as consistent, heavy rainfall					
Henry County Stockbridge	05	1640EST	0	0	2	?	Thunderstorm Winds					

MAY 1991

		TIME			NO.	OF SONS	EST II	AATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	مسادات	סשמכרביי	~-comoo	CECOTO	CHARACTER OF STORM

#### GEORGIA Cont'd

Strong winds blew down tree limbs and power lines near Stockbridge, resulting in power outages.

Fayette County Peachtree City

05 1640EST

0 0 3

? Thunderstorm Winds

Hail

In Peachtree City, a large tree was uprooted and one sign was damaged by strong winds and small hail was reported.

Cobb County Countywide Kennesaw

05 1640EST 05 1650EST

Flash Flood Heavy Rainfall

Persistent, heavy rainfall developed over Cobb County and minor flash flooding resulted. Several roads were washed out. Water accumulated on the roof of a department store close to Interstate 75 near Kennesaw. The roof collapsed resulting in minor injuries to several customers.

Pike County
Molena
Zebulon
Meriwether County
Manchester

05 1645EST

0 0 3

Thunderstorm Winds

05 1645EST

0 0 3

Thunderstorm Winds

Scattered trees were uprooted over Pike and Meriwether Counties resulting in power outages.

?

Marion County Talbot County Schley County 05 1645EST 05 1645EST 05 1650EST

0 0 3 0 0 4 0 0 3 Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds

Strong winds uprooted many trees over the three-county area. Numerous limbs and power lines were torn down. Widespread outages developed. Over northern Marion County, trees blocked Georgia Highways 41, 355, and 137, along with several county roads. In Schley County, trees blocked Georgia Highway 19 and another county road.

**Upson County** 

05 1655EST

0 0 4

Thunderstorm Winds

Scattered trees and power lines were torn down at several locations in the county. The roof was blown off a mobile home.

Stewart County

05 1655EST

0 0

? Thunderstorm Winds

Numerous trees were blown down over Stewart County resulting in widespread power outages. Trees blocked U.S. Highway 1 and Georgia Highway 27.

Taylor County Reynolds Mauk Butler

05 1655EST

0 0 5

Thunderstorm Winds

Numerous trees were downed over Taylor County resulting in widespread power outages. At Reynolds, lengthy outages resulted after considerable damage occurred to utility poles. Uprooted trees damaged roofs of homes and businesses, along with several mobile homes. Many roads were blocked over the county, including Georgia Highway 137 outside of Butler. Mauk and Reynolds were the hardest hit areas with extensive damages to many properties.

Greene County Greensboro 1 SE Siloam

05 1700EST 05 1700EST 0 0 4

Thunderstorm Winds Thunderstorm Winds

Scattered trees were pushed into powerlines over Green County resulting in power outages, mainly around Greensboro and Siloam. In Greensboro, sheets of a store's metal roof were

MAY 1991

		TIME			NO.	OF SONS	EST IN	ATED GE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	مسدسلا	סוושכנייביי	<b>≺∽œπο⊝∞</b> ο	COCOLO	CHARACTER OF STORM

					D	ō	K Y						
	1	<u> </u>		1	L	1	L.,	1					
GEORGIA Cont'	ď												
	blo traj	own off. On pped the occ	Georgia l cupant.	Highway 1	5 just	outsi	de of	Siloam	, an uprooted tree fell on a van and				
Clayton County Ellenwood Rex	05 05	1705EST 1705EST			0	0	4 2	?	Thunderstorm Winds Thunderstorm Winds				
	Several tree limbs were blown down around Ellenwood and Rex. A house lost its porch at Ellenwood.												
Cobb County	05	1714EST			0	0	3	?	Thunderstorm Winds				
	Sca	ittered trees	were upro	oted over	Cobb	Cour	ity.						
De Kalb County Stone Mountain	05	1715EST			0	0	3	?	Flash Flood				
	Mi	nor flooding	develope	d after pers	sisten	t, hea	vy rai	n fell o	over the area.				
Sumter County Countywide Americus	05	1715EST			0	0	3	?	Thunderstorm Winds				
Americus	Numerous trees were pushed into power lines over Sumter County and Americus. Se poles were downed in Americus. Utility services were disrupted for over 300 cus												
Terrell County 1 S Bronwood	05	1725EST			0	0	2	?	Thunderstorm Winds				
	Αŀ	orief outage	developed	after a fev	v larg	ge lim	ıbs wei	re blov	vn into power lines.				
Monroe County Forsyth	05	1730EST			0	0	4	?	Thunderstorm Winds				
	Sca pov	ittered trees wer outages	were upro developed	ooted over	Fors	yth.	Severa	al hom	es and vehicles were damaged and				
Terrell County Sasser	05	1730EST			0	. 0	?	?	Hail (0.50)				
Gwinnett County 2 E Lawrenceville Suwanee	05 05	1739EST 1739EST			0	0	?	?	Funnel Cloud Thunderstorm Winds				
Lawrenceville	Sev	eral trees w	ere uproof	ed around	Suwa	inee a	nd Lav	wrence	ville.				
Lee County	05	1740EST			0	0	4	?	Thunderstorm Winds				
	Ma Lee	ny large tree County, se	es were up everal hom	rooted over es in two	r Lee comm	Cour unitie	ity. U	tility s dama	ervices were disrupted. In southern ged by uprooted trees.				
Crawford County Roberta 5 NNW Fort Valley	05 05	1740EST 1740EST			0	0	4 3	?	Thunderstorm Winds Thunderstorm Winds				
· unoj	Tw by	o mobile ho winds in Ro	mes were berta and	overturned over south	by st ern C	rong Crawfo	winds. ord Co	Trees	s and power lines were blown down ear U.S. Highway 341.				
Bibb County Macon	05	1744EST			0	0	5	?	Thunderstorm Winds (G62)				

MAY 1991

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	DA)-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-m0	סשמטכריביי	o-ccOampa->-	റയാം	CHARACTER OF STORM

#### GEORGIA Cont'd

The winds caused damage to several aircraft and automobiles at the Middle Georgia Regional Airport. The winds shattered a few large windows and damaged the roofs of several buildings. Utility lines were damaged and services were disrupted for about 14,000 customers in Macon.

Peach County Fort Valley Countywide

05 1745EST

0 0 3 ?

Thunderstorm Winds

Scattered trees were uprooted over Peach County and around Fort Valley. Power lines were torn down resulting in outages.

Lamar County Countywide Barnesville

05 1745EST

0 0 4

? Thunderstorm Winds

Many large trees and limbs were pushed into power lines over Lamar County. Outages developed, mainly around Barnesville. One house in Barnesville and another in the county were damaged by uprooted trees.

Monroe County Northern Portion

05 1745EST

0 0 4

Thunderstorm Winds

Numerous trees and power lines were blown down by the winds over northern Monroe County, mainly near Georgia Highways 83 and 42, and U.S. Highway 41. Two homes were damaged by uprooted trees north of Forsyth.

?

Houston County Warner Robins Perry Countywide

05 1750EST 05 1800EST

Thunderstorm Winds Thunderstorm Winds

Numerous trees and power lines were blown down over Houston County. Power outages developed over the area, mainly in Perry, Lake Joy, and Marshallville. The most extensive property damages occurred around Perry. Business signs were destroyed by the winds, and an automobile was destroyed by an uprooted tree. An uprooted tree fell onto one house at Warner Robins. In the county, several pecan trees were toppled and storage sheeds were destroyed.

Jones County Haddock Countywide Gray

05 1800EST 05 1800EST 0 0 4 6

Thunderstorm Winds Thunderstorm Winds

Near Haddock, a mobile home was overturned and sustained extensive damage. Numerous large trees were uprooted across Jones County. Power lines were damaged, mainly near Gray, along U.S. Highway 129.

?

Dooly County Unadilla Pinehurst

05 1810EST

0 0 3

Thunderstorn Winds

Several large trees and power lines were downed by strong winds.

Pulaski County
1 S Hawkinsville
Countywide

05 1810EST 05 1810EST  $\begin{array}{cccc} 0 & 0 & 4 \\ 0 & 0 & 3 \end{array}$ 

Thunderstorm Winds Thunderstorm Winds

Scattered trees and limbs were pushed into power lines throughout the county and at Hawkinsville. Strong winds blew the roofs off three barns at a racing track and heavily damaged the walls. In Hawkinsville, a porch was destroyed by a falling tree.

Jasper County Monticello

05 1815EST

0 0 3

Thunderstorm Winds

Numerous large trees were blown down by the winds and utility services were disrupted.

		TIME			NO. PER	OF SONS	ESTIN DAM/	MATED AGE	
PLACE	D A I E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLL	OMB&CLZ-1	4-80m40xv	CEOPA	CHARACTER OF STORM

GEORGIA Cont'd										
Bleckley County Cochran Countywide	05	1815EST	0	0	3	?	Thunderstorm Winds			
Twiggs County Jeffersonville Countywide	05	1815EST	0	0	3	?	Thunderstorm Winds			
Dodge County	05	1820EST	0	0	4	?	Thunderstorm Winds			
	resi	merous trees and power lines walting in power outages. One betained damage from uprooted trees.	arn v	lown o vas des	lown l stroyed	by the d in D	winds over the three-county area, odge County, and a few buildings			
Wilcox County 5 ENE Rochelle 2 SE Pineview	05	1825EST	0	0	3	?	Thunderstorm Winds			
2 00 I MOVIOW	Bet Sou	ween Abbeville and Rochelle, theast of Pineview, a tree fell or	wo ti nto a	rees fe power	ll onto	o powe esultin	er lines along U.S. Highway 280. g in an outage.			
Baldwin County										
Milledgeville Countywide	05 05	1830EST 1830EST	0	0	<b>4</b> <b>3</b>	?	Thunderstorm Winds Thunderstorm Winds			
	Numerous large trees were blown down by the winds across Baldwin County and Milledgeville. In Milledgeville, utility services were disrupted for approximately 4,50 customers. Uprooted trees damaged a cemetery, a fence, and a warehouse, and trees cause \$20,000 in damages to several traffic lights.									
Crisp County	05	1830EST	0	0	3	?	Thunderstorm Winds			
	Nui	merous trees and power lines we	re blo	own do	own ac	cross th	e county.			
W/11-		•					•			
Wilkinson County Toomsboro Countywide	05	1830EST	0	0	3	?	Thunderstorm Winds			
Laurens County Dublin Countywide	05	1840EST	0	0	3	?	Thunderstorm Winds			
Treutlen County Soperton	05	1845EST	0	0	3	?	Thunderstorm Winds			
	dist	merous trees were uprooted or upted, mainly around Dublin omsboro in Wilkinson County, a	in L	aurens	Cou	ntv. al	ounty area. Utility services were ong Georgia Highway 112 near reutlen County.			
Peach County Fort Valley	05	1845EST	0	0	3	?	Thunderstorm Winds			
	Isol	ated power outages developed w	hen s	scattere	ed tree	s were	uprooted near Fort Valley.			
Colquitt County 4 NE Sale City	05	1900EST	0	0	3	?	Thunderstorm Winds			
	Pov Col	ver outages occurred when seve quitt County along Georgia Hig	ral tr hway	ees an 270, l	d larg	ge limb en Sale	s were blown into power lines in City and Doerun.			
Cook County Lenox Wheeler County	05	1905EST	0	0	0	?	Funnel Cloud			
5 SW Alamo Alamo	05 05	1905EST 1915EST	0	0	3 3	?	Thunderstorm Winds Thunderstorm Winds			

MAY 1991

									MAT 1991
		TIME			NO. PER	OF SONS	EST IN	MATED AGE	
PLACE	D LOCAL T STANDARD	i I	WIDTH OF PATH (YARDS)	KHULED	Omto Cuzh	~-camooxo	CEOTA	CHARACTER OF STORM	
GEORGIA Cont'	d								
	Aro line	ound Alamo es were torn	and near down by	U.S. High strong wir	ıway ıds.	441,	southv	vest of	f Alamo, numerous trees and pow
Montgomery County Northern Portion	05	1930EST			0	0	3	?	Thunderstorm Winds
	Sca	ttered large	trees were	e uprooted	and:	fell on	ito pov	ver lin	nes, resulting in power outages.
Grady County Cairo	05	1941EST			0	0	3	?	Lightning
	Two hou	o houses in ise. A sma	Cairo we	re struck l cloped at th	oy lig ne oth	htning her ho	g. Or use wi	ıly an th mir	appliance was damaged at the finimal damage.
Pierce County Bristol	05	1945EST			0	0	4	?	Thunderstorm Winds
	Nea whe	ar Georgia I ere it landed	Highway 1 I on a pick	21 in Brist tup truck a	ol, st	rong v vo law	winds j	picked vers.	up a shed and moved it several fe
Sumter County Americus	09	1400EST			0	0	4	?	Flash Flood
	reac	ivy rainfall ched 2 feet naged.	produced deep insid	flooding i le the buil	n Ar ding.	nericu Seve	s. Si eral ve	x apar chicles	tments were evacuated when wat and two apartments were severe
Americus	09	1630EST			0	0	4	?	Lightning
	Ligl fire.		storage sh	ed on fire	which	ı was	comple	etely d	lestroyed, and also sparked a kitch
De Kalb County									

0 0 4 ? Thunderstorm Winds

Strong winds pushed a large tree onto three cars.

#### Colquitt County Moultrie Hartsfield

10 1900EST

0 0 4 ? Flash Flood

Heavy rainfall developed over Colquitt County. Low-lying areas were flooded resulting in minor damages. The utility room of a mobile home near the Ochlocknee River was flooded and several appliances sustained damage. In Hartsfield, flood water washed out a driveway and caused other damage at a residence.

#### Hart County Reed Creek

16 1730EST

0 0 4 ? Lightning

A summer cabin was set on fire and destroyed by lightning.

#### Chatham County Savannah

17 1310EST

0 0 4 0 Lightning

Lightning started a fire that heavily damaged a church steeple.

#### De Kalb County Clarkston Clarkston

17 1355EST 17 1420EST

0 0 3 ?

Thunderstorm Winds Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	ATED	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OM30CL2-	~-∞m100×0	COCO	CHARACTER OF STORM

#### GEORGIA Cont'd

Trees and limbs were blown down near Interstate 285 and Georgia Highway 78 near Clarkston, disrupting utility services. At 1420 EST, several vehicles were damaged by uprooted trees and minor street flooding developed.

Cobb County Powder Springs

19 0400EST

0 0 5 ? Lightning

Half of a church building was burned when lightning set the roof on fire. The remainder of the building was damaged by smoke and water.

Fulton and De Kalb Counties Atlanta N Atlanta

19 0725EST-1400EST

0 0 5 ? Flash Flood

Heavy rainfall over northern Atlanta in Fulton and De Kalb Counties, pushed small streams out of their banks. Peachtree Creek rose and flooded yards and homes along the creek afater cresting at 18.5 feet about 1110 EST. Three of the homes were beyond repair. Flooding also occurred in homes around Nancy Creek.

Richmond County Augusta

19 Afternoon

0 0 4 ? Flash Flood

Heavy rainfall produced flash floods over Augusta. One road was damaged when a culvert collapsed beneath the street.

Cook County Adel

19 Afternoon

0 0 4 ? Thunderstorm Winds

Several large trees and power lines were downed on the eastern side of Adel. The porch of one home was blown off and the debris caused damage to a city vehicle.

Bulloch County Countywide Statesboro Countywide Brooklet Leefield

 30 Evening
 0
 0
 3
 ?
 Flash Flood

 31 1700EST
 0
 0
 5
 ?
 Flash Flood

 31 1700EST
 0
 0
 5
 ?
 Flash Flood

Heavy rainfall developed over Bulloch County during strong thunderstorms for two days. Nearly 5.00 inches of ran fell in some areas by the 31st. Flash floods developed in Statesboro on the 30th and nine families were temporarily evacuated; mostly minor damage occurred. On May 31st, with the ground totally saturated, flash floods developed again over Statesboro and throughout Bulloch County. Several county roads were severely damaged. The hardest hit area of road damages was around Collins Lake, Brooklet, and Leefield. In Statesboro, two apartment complexes in low-lying areas were flooded. Waters rose to about 2.5 feet inside the apartments. At a recreational center in Statesboro, roads, playgrounds, and playing fields were washed out.

Evans County Claxton Countywide

Kingsland

31 1830EST 31 1830EST 0 0 4 ? Thunderstorm Winds 0 0 4 ? Thunderstorm Winds

Numerous trees were uprooted or broken by winds over Claxton and Evans County. Strong winds tore off portions of a school's roof and allowed heavy rainfall to flood the building. Several other buildings sustained minor damage from uprooted trees and wind. Utility services

were disrupted after lines were torn down.

Camden County

31 1830EST 0 0 3 ? Thunderstorm Winds

Strong winds uprooted about 100 trees around Kingsland. Utility lines were torn down resulting in power outages.

		TIME			NO. PER:	OF SONS	ESTII DAM/	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL	OmboCc 2-	4- <del>22</del> m402n4	CECOEN	CHARACTER OF STORM

GEORGIA Cont	'd							
Jeff Davis County Hazelhurst Hazelhurst Countywide Denton	31 2000EST 31 2015EST 31 2030EST Scattered tree li nearby tree. T across the coun	mbs and po he resulting ty and arou	ower line g fire da ind Dent	0 0 0 s were	0 0 0 torn o	2 4 3 lown tof the	? ? ? oy the v house.	Thunderstorm Winds Lightning Lightning vind. Lightning struck a house and Lightning caused power outages
IDAHO								
Southern Idaho	01- 31			0	0	0	?	Extreme Drought
	Most of souther were well below normal.	n Idaho con w normal l	ntinued i evels. I	n seve Howev	re to e	xtreme e May	droug rainfa	ht. Most southern Idaho reservoirs Il at Pocatello was 253 percent of
Latah County Genesee	01 1455PST	0.1	20	0	0	0	0	Tornado (F0)
	A funnel cloud	touched do	wn brie	fly, sti	rring 1	up the	dust.	
Caribou County Bancroft	02 1330MST			0	0 -	5	0	Lightning
	Lightning struck a grain fire. W	a grain ele here the lig	evator ex htning g	plodin ground	g off n ed, it l	ine ou left a	t of ten 3- by 1	inspection hole covers and igniting foot crater that was 6 inches deep.
IDZ004 Southeastern Idaho	02 1800MST- 03 0600MST			0	0	0	0	Heavy Snow
	Four to six inch	es of snow	fell.					
Gooding County Hagerman	06 1700MST- 1710MST			0	0	0	0	Funnel Cloud
Payette County 3 N Payette	10 1700MST		•	0	0	0	0	Funnel Cloud
Cassia County Albion	17 1120MST			0	0	0 -	0	Thunderstorm Winds (G52)
Blaine County Ketchum	17 1200MST			0	0	0	0	Hail (0.75)
Fremont County St. Anthony	17 1310MST			0	0	0	0	Thunderstorm Winds (G52)
Power County 10 NW Pocatello	17 1456MST			0	0	0	0	Thunderstorm Winds (G53)
	Microburst wine	is from a l	ine of th	under	storms	flippe	ed an a	irplane at the Pocatello Airport.
Bingham County Aberdeen	17 1520MST			0	0	4	0	Thunderstorm Winds
	Utility buildings	s were dem	olished	and ga	lvaniz	ed she	et meta	al roofing was lofted.
Caribou County Soda Springs Pinchem County	17 1532MST			0	0	0	0	Thunderstorm Winds (G53)
Bingham County Blackfoot Lefferson County	17 1535MST			0	0	3	0	Thunderstorm Winds (G50)
Jefferson County 8 N Roberts	17 1640MST			0	0	0	0	Thunderstorm Winds (G61)

MAY 1991

		TIME		·	NO. PER	OF SONS	ESTI! DAM/	MATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	ארושס	OTTOSCER		CACODA	CHARACTER OF STORM

#### **IDAHO Cont'd**

Minidoka Rupert	County
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18 1436MST-1445MST 0.2 50 0 0 5 0 Tornado (F2)

A tornado moved across two residential blocks, lifting roofs, demolishing utility buildings, uprooting trees, and ripping out fences. Several funnel clouds were observed north and west of Rupert after the tornado lifted. Two persons were injured after the storm by stepping on exposed nails.

Blaine County 6 W Carey

6 W Carey Nez Perce County Lewiston

18	1525MST-		*						
	1530MST	0.2	50	0	0	0	0	Tornado (F0) Hail (1.0)	
18	1527MST			0	0	0	0	Hail (1.0)	
10	1700DCT							·	

18 1700PS1-19 0800PST 0 0 4 0 Urban Flash Flood

Lewiston received 1.62 inches of rain in less than 24 hours (just short of the 24-hour record for May of 1.63 inches set in 1948). Rockslides and 1 foot of water interfered with highway travel. Three feet of water in the McDonalds parking lot on 21st Street damaged a sports car.

IDZ003-012 Rexburg Area 19 0400MST-24 1800MST

0 0 0 0 Flood

Spring snowmelt and heavy rain showers caused Henrys Fork River to flood several thousand acres of agricultural land. The crest was 1 foot above flood stage on the 20th.

Elmore County Atlanta

24 1430MST

0 0 5 0 Snowmelt

Runoff from spring snowmelt was associated with so-called "minor" damage to the Kirby Dam. Increased flow from evening thundershowers weakened the dam further.

Atlanta

26 1915MST

0 6 0

Dam Failure

The Kirby Dam collapsed. An adjacent bridge was undermined stranding some 25 carloads of tourists and campers. Toxic heavy metal sediments that had collected behind the dam from decades of mining activity were washed downstream polluting the river. The Kirby Dam which was built in 1896, provided electricity to 32 families. The dam had been repaired in 1990 at a cost of \$500,000.

#### ILLINOIS

**Adams County** 

04 1840CST

0 0 3 0

Thunderstorm Winds

Scattered damage to trees and power lines, some in western Coatsbury.

Coatsbury
Morgan County
Meredosia
Pike County
Perry
Scott County
Naples
Sangamon County
Springfield

? ? 04 1845CST Hail (1.0) ? ? 04 1933CST 0 0 Hail (1.75) ? ? 1940CST 0 O Hail (1.75) ? 1945CST ? Hail (1.75) 0 4 0 2218CST 0 Urban Flood 04

Thunderstorms caused heavy rains that flooded basements and roads. In the southwestern part of Springfield, some streets in Westchester subdivision were flooded with 2 to 3 feet of water. The floods gradually abated by 0600 CST on the 5th.

		TIME			NO.	OF SONS	ESTII DAM	MATED AGE	
PLACE	D 6 E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-LLED	CHICACLE	9-ж0ош <b>х</b> -Y	CECOEN	CHARACTER STORM

ILLINOIS Cont'e	d										
Morgan County	05	0325CST			0	0	3	4	Flash Flood		
	The Co brid	understorms ounty in a 7-hodges. The flo	aused rain ur period. oods gradu	fall rang Numero ally aba	ing frous strated by	om 2.0 eams 0600	00 to 6 overflo CST	6.00 incowed the	ches over the central part of Morgan teir banks and flooded roadways and 5th.		
Kane County Lily Lake	05	1618CST	0.5	50	0	0	4	0	Tornado (F1)		
	A hor	tornado briefl mes and build	y touched ings.	down a	ınd ca	used	heavy	damag	e to one home and damaged other		
2 W Du Page	05	1628CST			0	0	0	0	Thunderstorm Winds (G56)		
Airport St. Charles Batavia	05	1630CST			0	0	3	0	Thunderstorm Winds		
Datavia	Trees were blown down across Illinois Route 25 just north of Batavia.										
Elgin	05	1635CST			0	0	?	?	Thunderstorm Winds (G52) Hail (0.75)		
	Wi	nds to 60 mpl	h were rep	orted at	Illino	is Sta	te Poli	ce Post	t No. 2		
Lake County 1 N Barrington	05	1650CST			0	0	?	?	Hail (0.75)		
Du Page County Hinsdale	05	1655CST			0	0	3	0	Thunderstorm Winds		
	Pov	wer lines were	blown do	own by t	hunde	erstorn	n winc	ls.			
Cook County 2 WSW Glenview	05	1700CST	0.5	50	0	0	0	0	Tornado (F0)		
	At	Glenview Na chdown; no d	val Air Sta amage was	ation, the reporte	e Lea xd.	ding	Chief	Weathe	er Officer observed a brief tornado		
Western Springs	05	1715CST			2	2	4	0	Thunderstorm Winds		
	Two car, the retu 294	o people were The large so roof onto the rning home f because of tl	e killed and olid oak tro back seat rom an out ne severe t	d two ot ee made injuring ting, and hunders	hers of a direct anot appa torm	critical ect hit her bo rently in pro-	lly injunction over to be and pulled gress.	ured whe from girl. I off O (F17V)	then a tree was blown over on their t seat, killing two people, crushing The four occupants were teenagers gden Avenue, just east of Interstate (M18V)		
ILZ009 Central Illinois	10	1120CST- 1542CST			0	0	0	0	Funnel Clouds		
		merous funne ingfield which orted.	l cloud re were asso	eports w ciated w	ere r ith sca	eceive attered	d by I thund	the Na lerstorn	ational Weather Service Office in ns. No damage or touchdowns were		
6 S Lebanon	10	1455CST	0.1	50	0	0	0	0	Tornado (F0)		
	A b	orief tornado t	ouch down	n was re	portec	l by e	merge	ncy off	icials.		
St. Clair County 0.5 W Lebanon	11	1450CST	0.5	50	0	0	0	?	Tornado (F0)		
	A to	ornado touche t; no damage	d down se was report	veral tin ted	nes wl	nile sk	ipping	across	farm fields and kicking up a lot of		

MAY 1991

		TIME			NO.	OF SONS	EST IN	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Killeo		4-20m 0020 A	ഗഹരഹ	CHARACTER OF Storm

## ILLINOIS Cont'd

ILLINOIS COIL O										
Grundy County Coal City Mazon ILZ007-009-010	14	0715CST 0720CST 0930CST	0	0	?	?	Hail (0.75) Hail (0.75)			
Central Illinois		1340CST	0	0	0	0	Thunderstorms			
	Nu	nerous tornados were reported fro	om sc	attered	l thund	lerstori	ns. No touchdowns were verified.			
Logan County Lathan Moultrie County	14 14	1108CST 1224CST	0	0	0	0	Hail (1.00) Thunderstorm Winds			
	In the northern part of Moultrie County, power lines and tree limbs were blown down by thunderstorm winds.									
Rock Island County Moline Henry County	14	1442CST	0	0	0	0	Thunderstorm Winds (G48)			
Woodhull	14	1442CST	0	0	3	0	Flash Flood			
	Aln and	nost 5.00 inches of rain fell near roads were flooded for a short t	Wood ime.	ihull,	causin	g some	basements to flood. Some streets			
Morgan County Waverly	14	1542CST	0	0	3	0	Thunderstorm Winds			
	One	tree and several power lines we	re kn	ocked	down	•				
Wayne County Fairfield	14	1645CST	0	0	2	?	Thunderstorm Winds			
	Thu	inderstorm winds caused damage	to po	ower li	ines an	d trees	<b>3.</b>			
Kankakee County Mahomet	14	1700CST	0	0	4	?	Flash Flood			
	Afte in N	ernoon and evening thunderstorm Mahomet and the surrounding are	ıs cau a. T	sed he	avy ra ods ab	infall ( ated ea	that flooded streams and roadways on the 15th.			
Hancock County Carthage 1 E Carthage Jackson County	14 14	1810CST 1822CST	0	0	<b>0</b> ?	0 ?	Thunderstorm Winds (G56) Hail (0.75)			
Little Grand	15	Afternoon	0	4	0	0 .	Flash Flood			
Canyon	of S suff wer seri	lash flood threatened 16 children chawnee National Forest. While ered injuries after they fell into e rescued by a helicopter from ously injured, but the teacher and e treated at hospitals near Murph	trying a cre the I d all s	g to es ek and llinois student	ts whicape rile were Depa	le on a ising w swept rtment o were	field trip in Little Grand Canyon vaters, a teacher and three children downstream about 1 mile. They of Transportation. No one was from Sesser-Valier Grade School,			

Crawford County Hutsonville

16 0235CST

0 0 0 4

Thunderstorm Winds

Thunderstorm winds uprooted an estimated 500 trees.

		TIME			NO. PER	OF SONS	ESTIN DAM/	ATED AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-(-LEO	OMMOCLEN	~ <del></del>	CEOPA	CHARACTER OF STORM

ILLINOIS Cont'd	i								
Piatt County 4 SE Farmer City	16	1307CST	0.2	50	0	0	0	0	Tornado (F0)
	A f	armer saw a t	ornado tou	ch down	brie	fly in	a field	and d	amage several trees.
Cook County Midlothian	16	1515CST			0	1	0	0	Lightning
	A 3	5-year-old ma	n was hit	by lighti	ning v	while s	standir	ig near	a tree.
Chicago Ridge	16	1525CST		•	0	0	4	0	Thunderstorm Winds
	Thu base	inderstorm with the ments and street	inds dama reets.	ged tree	s and	l pow	er line	es, wh	ile heavy rainfall caused flooded
Bedford Park	16	1530CST			0	1	0	0	Lightning
	A 4	4-year-old ma	an was hit	by lightr	ning v	vhile i	n a pa	rking	lot.
Ford County Near Elliott 9 W Paxton	17	1230CST			0	0	?	?	Hail (1.75)
Vermillion County _Oakwood	17	1358CST			0	0	?	?	Hail (2.75)
White County Near Carmi Norris City	17 17	1510CST 1525CST			0	0	?	?	Hail (0.75) Hail (0.75)
Whiteside County Morrison	17	1645CST			0	0	?	?	Hail (0.75)
Henry County Cambridge Randolph County	17 17	1650CST 1715CST			0	0	?	?	Hail (1.00) Thunderstorm Winds Hail (0.75)
	The hail	Randolph Co, as thunderst	ounty Sheri orms move	ff's Offi d throug	ice regh the	ported coun	wind ty.	gusts	to 60 mph and 0.75-inch-diameter
Bureau County Sheffield Providence	17 17	1745CST 1800CST			0	0	?	?	Hail (1.00) Hail (1.00)
Woodford County Minonk	17	1814CST			0	0	?	?	Hail (2.00)
Bureau Junction	17	1830CST			0	0	?	?	Hail (2.00)
McDonough County Blandinsville	17	1845CST			0	0	?	?	Hail (0.75)
McLean County 1 W Lexington	17	1900CST			0	0	?	?	Hail (1.00)
McDonough County Near Bushnell	17	1907CST	1.0	50	0	0	0	0	Tornado (F0)
	repo	unnel cloud worted as a torn unnel cloud al lage.	as sighted t ado near B bout 1910	from Wa Bushnell CST, au	lnut ( at 19) nd wa	Grove 07 CS as last	at 190 T. It a seen	3 CST appared from	and moved southeast where it was ntly crossed into Fulton County as Marietta at 1915 CST; no known
Fulton County Canton	17	1920CST			0	0	4	3	Thunderstorm Winds

MAY 1991

		TIME			NO. PEŘS	OF ONS	ESTIN DAM/	AATED AGE	
PLACE	D B E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-mD	Om∞Cc.Z→		CEOPN	CHARACTER OF STORM

ILLINOIS Cont'o	i						
	Nu wit	merous power lines and trees we hout electrical power.	re do	wned	and ro	ads w	ere blocked. Much of Canton was
Peoria County Near Brimfield	17	1930CST	0	0	3	3	Thunderstorm Winds
	Laı	rge trees were blown down, block	king	roads.			
Livingston County Cornell Mason County	17	1935CST	0	0	?	?	Hail (1.00)
Biggs	17	2030CST	0	0	0	2	Thunderstorm Winds
	Tre	es were blown down by thunders	storm	winds	s.		
Menard County 8 E Petersburg Tazewell County	17	2030CST	0	0	?	?	Thunderstorm Winds (G56)
1 N Manito	17	2032CST	0	0	?	?	Thunderstorm Winds
	Tre	es were blown down by thunders	storm	winds	s.		
Menard County Greenview	17	2040CST	0	0	3	2	Thunderstorm Winds
	Sev	veral trees and power lines were b	olowi	n dowr	1.		
Tazewell County Minier	17	2044CST	0	0	?	?	Thunderstorm Winds
	Tre	es were blown down by thunders	storm	winds	5.		
Adams County Plainville Macon County	17	2050CST	0	0	?	?	Hail (1.00)
Harristown *	17	2137CST	0	0	3	0	Thunderstorm Winds
Niantic	Sev	eral power lines were blown dov	vn.				
Longcreek	17	2142CST	0	0	0	0	Thunderstorm Winds (G52)
	Thu	understorm winds to 60 mph.					
Decatur	17	2143CST	0	0	4	0	Thunderstorm Winds
	Thu Sev	understorm winds blew down se eral windows in the plaza were b	everal olowr	l powe	er lines	and	trees in the Fairview Plaza area.
Logan County Elkhart	17	2145CST	0	0	4	0	Thunderstorm Winds (G70)
	A to She	ractor-semitrailer was blown over riff's Office estimated wind spee	r, and ds ar	d sever ound 8	al tree: 30 mph	s were	blown down. The Logan County
Moultrie County Lovington	17	2202CST	0	0	3	0	Thunderstorm Winds

Thunderstorm winds blew a car over.

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAM/	MATED NGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-L-WO	Om20C-2-	<del>~~∞</del> 00.00.0	೧೯೦೯	CHARACTER OF STORM

							Y		
ILLINOIS Cont'd	l								
Mason County SE Havana	17	2235CST			0	0	?	?	Hail (1.00)
Adams County Near Quincy	18	1430CST	0.75	35	0	0	0	0	Tornado (F0)
<b>-</b>				•	by th	ne Qui	ncy O		er and the public.
Hancock County Carthage		1530CST			0	0	5	?	Flash Flood
	froi	n 1430 CST	` to 1630 C	CST. Serio	ous flo	ooding	g in Ca	ırthage	00 inches of rainfall in about 2 hours resulted in at least \$69,000 damage looded and damaged.
Lake County Gurnee	22	1300CST			1	2	?	0	Lightning
	A 4 to t	1-year-old ohe ground,	construction but not se	n worker v riously inj	was k ured.	illed b (M4	y ligh 10)	tning,	and two other workers were thrown
Will County 3 NW Shorewood	22	1730CST- 1740CST	0.2	50	0	0	0	0	Tornado (F0)
	of S 164 in a brea nor	Shorewood. 9 CST through 15- to 20- eze front froutheast to the	It was all ugh 1800 ( mile-long m Lake M corner of 5 miles ap	most station CST, possible stationary ichigan, the Du Page aroart, from	nary bly, s line at set nd Co which	and la everal of the up an ook Co h the	sted al funne inders d was junties funnels	bout 1 cloud torms. nearly . Alou	the ground about 3 miles northwest 0 minutes before dissipating. From ds and tornado touchdowns occurred This line developed along a lake stationary from west of Joliet northing this line were several wall clouds, loped. The phenomena was viewed
ILZ001, 002, 003, 004 Northern Half of	25	Early- Late			0	0	5	?	Flood Heavy Rains
Illinois	The day 25th Chi	rain began break in ma h. Saturday	late Frida ny areas. v evening, kfort, in V	y, the 24th Sheffield, about 4.0 Vill Count	i, and in Bu 0 inc y, ha	l conti ireau ( hes of	nued o County Train	overnig , rece fell ov	-soaked soils and drainage systems. ght so that floods were occurring by ived 6.80 inches of rain through the ver most of the southern suburbs of 1 from 1545 CST to 1745 CST that
La Salle County 5 NW Mendota	25	Afternoon	0.1	50	0	0	0	0	Tomado (F0)
	A l	orief tornad ilable.	o touchdo	wn was p	hotog	graphe	d, but	t no d	lamage or time of occurrence was
Cook County Chicago Heights	25	1630CST- 1730CST			0	0	3	0	Thunderstorm Winds Flood

Thunderstorm winds damaged business signs and blew out windows in shopping plazas. Power lines were downed, trees were snapped off and uprooted, and flooding also occurred.

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	ATED AGE	,
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMO	CHISQC L. Z. I	<b>~~∞</b> moO∞•	CACOPA	CHARACTER OF STORM

## ILLINOIS Cont'd

I a Calla Carrete											
La Salle County Near Mendota	30	1837CST			0	0	3	0	Thunderstorm Winds		
	The	ere was scatter	red damage	to powe	er lin	es and	trees	in nort	hem La Salle County.		
Mendota Mendota	30 30	1936CST 2000CST			0	0	?	?	Hail (1.75) Thunderstorm Winds		
	Dar	nage occurred	to power	lines and	l tree	s.					
Mendota	30	2050CST			0	0	4	?	Flash Flood		
		Ellinois State eet of water in			ere flo	ooding	in Me	ndota	with cars floating down streets with		
Rock Island County	31	1400CST			0	0	4	0	Thunderstorm Winds		
	The	ere was scatter	ed damage	to home	es and	d trees					
2 N Port Byron	31	1420CST	0.5	100	0	0	3	0	Tornado (F1)		
	An and	eyewitness sa buildings bet	w a tornad ween Port	o come a Byron a	cross nd Co	s the Mordova	dississ befor	ippi Ri e liftin	ver and briefly damage some trees g back into a thunderstorm.		
Moline Boone County	31	1425CST			0	0	0	0	Thunderstorm Winds (G51)		
Belvidere	31	1500CST			0	0	4	?	Thunderstorm Winds		
	The	re was damag									
Bureau County 2 W Walnut	31	1520CST			0	0	3	0	Thunderstorm Winds		
	Pov	ver lines were	blown dov	wn by th	unde	rstorm	winds	s <b>.</b>			
Cook County Arlington Heights	31	1545CST			0	0	4	0	Thunderstorm Winds		
	Thu	ınderstorm wi	nds caused	major d	amag	e to th	ne Oliv	e Gar	den Restaurant.		
Palwaukee Airport	31	1600CST			0	0	0	0	Thunderstorm Winds (G51)		
Chicago	31	1600CST Estimated			1	0	?	0	Thunderstorm Winds		
	Thu a 37	inderstorm wi 7-year-old wo	nds blew a man. (F37	4- by 8- O)	foot	sheet o	of plyv	vood c	off a building that struck and killed		
Will County Lewis University	31	1630CST			0	0	0	0	Thunderstorm Winds (G52)		
		inderstorm wii port.	nds caused	damage	to tre	es and	outbu	ildings	in the vicinity of Lewis University		
Fulton County Near Canton Peoria County	31	1735CST			0	0	0	0	Thunderstorm Winds (G52)		
Yates City Elmwood	31	1745CST			0	0	0	3	Thunderstorm Winds		
Limwood	Tre	Trees of 1 to 1.5 feet in diameter were downed.									

		TIME			NO.	OF SONS	ESTII DAM	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-LLEO	CHWC( & L		CECOEN	CHARACTER OF STORM

İ					<u> </u>	İ	Y_		
ILLINOIS Cont'd	l								
Peoria Chillicothe	31 31	1805CST 1810CST			0	0	0	0	Thunderstorm Winds (G52) Thunderstorm Winds
	Pov	wer lines we	re blown	down at C	Chillic	othe.			
Tazewell County Pekin	31	1820CST			0	0	4	0	Thunderstorm Winds
	Thu	ınderstorm v	vinds topp	oled trees	and b	lew d	own p	ower li	ines.
2 E Minier	31	1842CST	0.2	50	0	0	0	0	Tornado (F0)
1		ornado brief nage was rep		d down ne	ar the	bord	er betv	ween T	azewell and McLean Counties. No
INDIANA									
Grant County Fairmount	14	1228EST			0	0	0	0	Hail (0.75)
Madison County Anderson	14	1230EST			0	0	0	0	Thunderstorm Winds (G52)
	A 6	0-mph gust	was meas	ured at th	e And	lerson	Airpo	ort.	
Delaware County	14	1306EST			0	0	0	0	Thunderstorm Winds (G52)
	Αg	gust of 60 m	ph was re	ported nor	rth of	Muno	cie.		
Hamilton County	16	1515EST		•	0	0	?.	0	Thunderstorm Winds
	Tre and	es were blov southern pa	vn down is	n Carmel. county.	The	e was	also s	ome m	ninor damage to homes in the centra
Jefferson County	14	1550EST			0	0	3	0	Thunderstorm Winds
	The upro	roof was booted.	lown off	a mobile l	home	near	Madis	on and	several trees in the area were also
Marion County Indianapolis	16	1600EST			0	0	?	0	Thunderstorm Winds
	Fro	m 45th to 49 f damage to	oth Streets a house.	and Have	rford,	, seve	ral tree	s were	blown down. There was also some
Elkhart County Elkhart Fountain County	16	1718EST			0	0	?	0	Thunderstorm Winds (G58)
1 N Veedersburg	17	1523EST			0	0	?	?	Hail (1.75)
Covington Countywide	17	1530EST			0	0	?	0	Thunderstorm Winds
	Tre	es were blov	vn down i	n the east	ern pa	art of	Fount	ain Co	unty.
Montgomery County Wingate Crawfordsville	17 17	1550EST 1603EST	0.1	40	0	0	?	?	Hail (1.75) Tornado (F1) Hail (1.50) Thunderstorm Winds (G70)

MAY 1991

									MAY 1991
		TIME			NO.	OF SONS	EST IN	ATED GE	
PLACE	D A	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-LL	OTTOOC -Z-	4-cama0:2:2:0	CECOEN	CHARACTER OF Storm
INDIANA Cont'c									
	dan thu dan	tornado tou naged, and nderstorm v nage in Crav l \$350,000.	ched dow a modula vinds dow wfordsville	n at Mour r home an ned trees a e from the	nt Ziond a and properties to the terms of th	on an garage ower ido an	d Old e were lines, d thun	Wayn destrand ca dersto	netown Roads. Seven homes were oyed by the tornado. Eighty-mph nused damage to nine homes. Total rm was estimated between \$300,000
Darlington	17	1620EST			0	0	4	?	Thunderstorm Winds Hail (1.75)
	Α t 1 π	ree was blo	wn down Darlingto	and damag n.	ed a	porch	in Da	rlingto	on. A metal corn bin was destroyed
Boone County Advance	17	1630EST			0	0	4	0	Thunderstorm Winds
	A r	oof was blo	wn off on	e building	and	severa	ıl othe	r build	ings were damaged.
Thornton	17	1630EST	Short	20	0	. 0	5	0	Tornado (F0)
	The and	state police a barn was	reported blown do	a brief torn wn just ea	ado t st of	oucho Thor	lown n itown.	ear Th	orntown. Utility poles were toppled
Clinton County Colfax Marion County	17 17	1633EST 1645EST			0	0	?	?	Hail (1.00) Funnel Cloud
	The	e state police	e reported	a funnel cl	oud i	n the	extrem	e nort	hwestern portion of Marion County.
Boone County Lebanon Fayette	17 17	1645EST 1650EST			0	0	5 4	?	Thunderstorm Winds (G87) Thunderstorm Winds
	fou	ndations. In	n Favette	the roofs v	vere l	nwole	off tw	o hons	mobile homes were blown off their res. In Lebanon, the wall was blown on on the northern side of Lebanon. Were severely damaged, and portions non were estimated at 100 mph.
Montgomery County	17	1650EST			0	0	?	0	Thunderstorm Winds
	Tre	es and power	er lines w	ere blown	down	<b>1.</b>			
Marion County	17	1650EST			0	0	0	0	Thunderstorm Winds (G52)
	Wii Zio	nds to 60 n nsville Road	nph were :	reported o	n the	norti	iweste:	rn side	e of Indianapolis at 86th Street and
Hamilton County Carmel	17	1659EST			0	0	4	0	Thunderstorm Winds
	Thu a ga	inderstorm varage which	winds kno resulted i	cked a tree n a fire.	e onto Dama	o an e ige wa	lectric is estir	line a	nd charged a neutral line leading to at approximately \$10,000 damage.
Noblesville	17	1704EST			0	0	?	0	Thunderstorm Winds
	Tre	es were blo	wn down	by thunder	storn	n wine	ds.		
Marion County Spring Hill	17	1705EST			. 0	0	?	0	Thunderstorm Winds (G58)

		TIME			NO.	OF SONS	ESTIN DAM/	MATED AGE	
PLACE	D-0-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	مسدسع	مسمحدي	ح-صسماته ع	OECOEN	CHARACTER OF STORM

INDIANA Cont'o	1								
Hamilton County Cicero	17	1717EST			. 0	0	4	0	Thunderstorm Winds (G78)
	The bea	e Indiana State ch house at M	Police e lorse Bea	estimated ch Park.	wine	ds of 9	90 mp	h at C	icero. The roof was blown off the
Arcadia	17	1723EST			0	0	?	0	Thunderstorm Winds (G63)
Madison County Anderson	17	1740EST			0	0	?	0	Thunderstorm Winds (G55)
	In A	Anderson, tree the siding wa	s were blo s ripped f	own down rom a ho	i, the use.	roof : A 63-	and alumph g	ıminur ust wa	n siding of a barn were peeled away, s measured at the Anderson Airport.
Henry County Middletown	17	1804EST			0	0	4	0	Thunderstorm Winds Hail (0.75)
2 N New Castle Mount Summit	17 17	1809EST 1809EST			0	0	4 4	0	Thunderstorm Winds (G70) Thunderstorm Winds
	In I Sch She of a 3. larg	Middletown, tool Building to nandoah Elem gas station was elimbs were	rees were by thunde entary Sc as blown estimated blown do	e blown derstorm we hool were off, and dat 80 m	lown inds. e dan the i	and the The naged roof of In Mo	he sidi gutter by hail f a gas unt Su	ng was s, dow l. Two pump mmit,	s torn from the Shenandoah Middle rnspouts, and alumnum fascia of the o miles north of New Castle, the roof shelter was blown onto State Route the roof was blown off a house and
Randolph County	17	1815EST			0	0	0	0	Thunderstorm Winds
	Nui	nerous large l	imbs wer	e blown o	dowr	, and	60-mp	h win	ds were reported.
Wayne County	17	1840EST			0	0	?	0	Thunderstorm Winds
Decatur County 1 S Waynesburg	22	1737EST	Short	20	0	0	0	0	Tornado (F0)
•	A to	ornado touche	d down is	n a field,	but	there v	were n	о геро	rts of damage.
2 W Fountain City	Αc	hicken house	was blow	n off its	foun	dation	•		
Jennings County 2 S Scipio	22	1700EST		•	0	0	?	0	Thunderstorm Winds
	Tre	es were blown	down by	y thunder	storn	n wind	ls.		
Marion, Johnson, and Bartholomew Counties	22	1830EST			0	0	?	?	Urban and Small Stream Flood
Countries	cent	ral Indiana. A	A culvert	was wash	ied o	ut in N	Vineva	h whei	e urban and small stream flooding in re there was some street flooding on ere flooded in Bartholomew County.
Newton County Brook	25	1212EST			0	0	0	0	Funnel Cloud
	The	state police re	eported a	funnel cl	loud	near E	Brook.		
Delaware County Yorktown	29	1530EST			1	0	0	0	Lightning
	A 7	want old box	strac cterro	ale has like	tnin	a whil	م جنطنہ	a a hi	ke in his driveyou (M070)

	TIME		·		NO. OF ESTIMATED DAMAGE		ATED		
PLACE	D A	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	CHISCLE'S	~-com0500	COCODA	CHARACTER OF STORM

INDIANA Cont'd												
Noble County Kendallville St. Joseph County	30	1529EST	0	0	?	?	Hail (0.88)					
2 W South Bend 2 W South Bend	30 30	1540EST 1545EST	0	0	?	?	Hail (1.00) Thunderstorm Winds					
	A large tree that was blown down on U.S. Highway 20 caused the road to be closed.											
Lakeville	30	1604EST	0	0	0	?	Thunderstorm Winds Hail (0.50)					
	Tre	e limbs were blown down, and h	ail c	overed	the gr	ound.	•					
Elkhart County Elkhart	30	1605EST	0	0	0	0	Hail (0.75)					
	Hai	was reported on State Route 19	on t	he nor	thern :	side of	Elkhart.					
4 S Goshen Nappanee	30 30	1644EST 1648EST	0	0	0	0	Thunderstorm Winds (G60) Thunderstorm Winds (G60)					
	One falli	e-foot-diameter trees were blowring limbs, and a dairy delivery to	dov uck	vn by was cr	thunde ushed	erstorm when a	winds. A car was damaged by tree fell on it.					
Koscuisko County 3 S Nappanee Milford	30 30	1702EST 1715EST	0	0	0	0	Hail (0.75) Thunderstorm Winds					
	A b	arn was blown down, as well as	as numerous trees and power lines.									
Koscuisko County	30	1730EST	0	0	5	0	Thunderstorm Winds					
	Six dam port Wes	aged and several utility poles vition of the county, extending sout	ildin vere h to (	gs wer toppled County	e blow d. Da Road	n off tamage 1030 N	their foundations. One home was was confined to the northwestern forth, and east to County Road 500					
Southern Lagrange, Western De Kalb, and Noble Counties	30	1730EST- 2000EST	0	0	4	5	Flash Flood					
and Nooie Counties	Across southern Lagrange, western De Kalb, and Noble Counties, 2.00 to 4.00 inches of rain fell. This produced widespread flooding of roads, streets, and fields. Near Kendallville, U.S. Highway 6 was closed because of the high water.											
Southern Elkhart, Northern Kosuisko,	30	1830EST- 2015EST	0	0	?	?	Flash Flood					
Marshall, and Starke Counties	The high	sheriff's office reported flood ways. Numerous city streets, s	ing o mall	of low stream	areas s, and	on nu	imerous county, state, and U.S. s were also flooded.					
Northern Huntington Southern Allen, and	30	2030EST- 2300EST	0	0	6	5	Flash Flood					
Northern Adams Counties	Three to five inches of rain fell across northern Huntington, southern Allen, and northern Adams Counties. As a result of the rains, flooding occurred along Fairfield Ditch in Fort Wayne, with 20 homes receiving major to minor damage. A number of people had to be evacuated along Fairfield Ditch because of the flooding. Widespread flooding of roads, streams, and fields was also reported. A number of vehicles were stalled in high water.											

		TIME			NO.	OF SONS	ESTIN DAM/	MATED NGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	סשרריאס	-270000	о осторию →	CEODW	CHARACTER OF STORM

INDIANA Cont	'd								•		
La Porte County	30	2100EST			0	0	?	0	Thunderstorm Winds		
	Tre	es and large	limbs wer	e blown	down	by th	under	storm '	winds.		
Hamilton and Boone Counties	30	2200EST			0	0	?	?	Urban and Small Stream Flood		
	Tw	o inches of unty. Street	rain in 1.5 flooding v	hours o	ausec	l mino Sher	or floo idan ii	oding of Ham	of local and county roads in Boone ilton County.		
Allen County	31	0345EST- 0700EST			0	0	4	4	Flash Flood		
	Ade stre Mo rep rep	ditional rains cam flooding celler Road Morted along Torted orted.	of 0.50 to across Alla Mobile Ho Trier Ditch	1.00 inc en Count me Park in both	h fell y. Th locat Fort	over a ne add ed ald Wayno	lready itional ong Ti e and l	rain re rain re rier Di New H	ated ground causing street, field, and esulted in evacuation of people in the itch in New Haven. Flooding was laven, with some residential damage		
Tipton County	31	0400EST			0	0	5	?	Flash Flood		
	Arc roa	Around 4.00 inches of rain fell across the county and produced flash flooding. Many county roads were closed and one bridge was washed out.									
La Porte County	31	1640EST			0	0	?	?	Thunderstorm Winds		
	Nu	Numerous trees were blown down by thunderstorm winds.									
St. Joseph County South Bend	31	1710EST		0	0	0	0	Funnel Cloud			
	A f	funnel cloud	was observ	ed by N	ationa	ıl Wea	ther S	Service	personnel.		
South Bend	31	1730EST	Short	10	0	0	0	0	Tornado (F0)		
·	The dan	The sheriff's office reported a tornado 4 miles southwest of Michiana Regional Airport; no damage was observed.									
Mishawaka	31	1735EST			0	0	?	0	Thunderstorm Winds		
	Tre blo	Trees and power lines were blown down on the northern side of Mishawaka. Insulation was blown off the roof of an office building under construction near Day Road and Main Street.									
Elkhart County Dunlap	31	1750EST			0	0	0	0	Funnel Cloud		
	The	The sheriff's office reported a funnel cloud near County Road 113 North and County Road 26.									
St. Joseph County Mishawaka	31	1800EST			0	0	?	?	Small Stream Flood		
	Edi	son Road, be	etween Hic	kory and	l Graj	oe, wa	s clos	ed due	to flooding.		
La Porte County 5 S Kingsford Heights	31	1820EST			0	0	?	?	Hail (1.00)		
St. Joseph County	31	1835EST			0	0	?	?	Small Stream Flood		
	Jud	ay Creek was	s reported	over its	banks	, resu	lting i	n the c	closing of Adams Road.		

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAM/	MATED AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I C I IIIO	1270CED	~~ <del></del>	CACODA	CHARACTER OF STORM

#### INDIANA Cont'd

La Porte County 2 E LaPorte	31	1900EST	0	0	?	?	Hail (1.75)
Hamilton County Noblesville		2054EST					Hail (1.75)
Elkhart, La Porte, Marshall, St. Joseph and Starke Counties	.31	2000EST- 2200EST	0	0	?	?	Flash Flood

Heavy rainfall associated with thunderstorms caused widespread flooding throughout the area. Heavy street flooding was reported at Michigan City, Plymouth, Knox, South Bend-Mishawaka, and Elkhart. Rainfall of over 3.00 inches was reported near Granger, which is about 5 miles northeast of South Bend.

Wabash County

31 2036EST

Thunderstorm Winds

Numerous power lines and a number of trees were reported blown down by the Wabash County Sheriff's Office.

0

**IOWA** 

Ringgold County Benton 8 N Mt. Ayr

1910CST-1930CST

0 3 Hail (0.75)

An area of thunderstorms moved into southern Iowa. There were several reports of marble-size hail across Ringgold County. One cell dropped 0.75-inch-diameter hail in a 0.50- to 0.75-mile-wide swath extending from Benton, to 8 miles north of Mt. Ayr during a 20-minute period. The hail covered parts of U.S. Highway 169, north of Mt. Ayr.

IAZ001-002-003-005 05 0600CST-006-007-009-010- 11 0000CST 011-013-014-015  $\Pi.7004$ Much of Iowa

0 Flood

The wet weather pattern of March and April continued into May. With soils nearly saturated The wet weather pattern of March and April continued into May. With soils nearly saturated from the heavy rains of April, the heavy rainfall during May caused extensive minor flooding for long periods of time along many of lowa's river basins. Flooding was more prolonged and widespread in the Mississippi Basin than in the Missouri Basin. Statewide average precipitation for May was 5.33 inches, which is 135 percent of normal. The east-central counties received the least with an average of 4.07 inches, while the north-central counties received the most with 8.05 inches which was over twice the normal amount. Rainfall was reported from some parts of the state on 28 of the 31 days of May. Widespread rains averaging around 1.00 inch fell on the 5th, with local amounts over 2.00 inches over the central third of the state. This resulted in flooding in many sections of Iowa. It was the only time during the month that the South River. flooding in many sections of Iowa. It was the only time during the month that the South River, Cedar Creek, portions of the Chariton River, and St. Francisville on the Des Moines River exceeded their flood stage. All of these sites are in extreme southern Iowa. Separating individual flood events was difficult during May, since many rivers were at or above flood stage during much of the month.

Woodbury County Sioux City

12 2130CST

Thunderstorm Winds (G50+)

Thunderstorms moved into the Sioux City area during the evening hours. High winds swept into Sioux City, blowing down numerous trees on the northern side of town.

Winneshiek County Decorah

13 0325CST

Thunderstorm Winds (G50+)

Thunderstorms moved across Iowa during the evening of the 12th and early morning of the 13th. Gusty winds and some hail were reported with them, but most of the storms were not severe. High winds did cause some damage in the Decorah area.

MAY 1991

	Π	TIME			NO.	OF	ESTII DAM/	MATED AGE	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-LLED	-270mm	0x00x0		CHARACTER STORM
IOWA Cont'd									
Lucas County Lucas Wayne County	14 14	0725CST 0845CST- 1300CST			0	0	4	3	Hail (1.75) Flash Flood
Marshall County St. Anthony	14	0853CST			0	0	3	3	Hail (0.88)
Wayne County Corydon	14	0915CST			0	0	3	3	Hail (0.75)
Marshall County 2 S Conrad	14	0938CST			0	0	4	3	Hail (1.50)
Grundy County Conrad	14	0938CST			0	0	4	3	Hail (1.50)
Wayne County Corydon	14	0950CST			0	0	3	3	Hail (0.75)
Grundy County 2 N Grundy	14	1012CST			0	0	3	3	Hail (0.75)
Center Appanoose County 4 W Moravia Black Hawk County	14	1027CST			0	0	3	3	Hail (0.75)
Southern Waterloo Downtown Waterloo	14 14	1054CST 1056CST			0	0	<b>4</b> <b>3</b>	2 0	Hail (1.75) Hail (0.75)
Benton County 4 S LaPorte City	14	1138CST			0	0	3	3	Hail (0.75)
Black Hawk County Elk Run Heights	14	1140CST			0	0	3	2	Hail (0.75)
Benton County	14	1200CST- 1500CST			0	0	4	4	Flash Flood
Buchanan County 2 N Walker	14	1206CST			0	0	3	3	Hail (1.00)
Benton County Vinton	14	1213CST			0	0	3	3	Hail (0.75)
Delaware County 5 N Ryan	14	1231CST	0.1	15	0	0	3	1	Tornado (F0)
2.5 SE Ryan to 2 SW Dyersville	14	1235CST- 1301CST	17.0	50	0	0	4	2	Tornado (F1)
	Inte	rmittent tra	ck.						
Linn County 3 NW Cedar	14	1235CST			0	0	0	0	Funnel Cloud
Rapids 1.5 SW Lisbon Lisbon	14	1258CST- 1305CST	1.5	30	0	0	4	2	Tomado (F1)
Cedar County 3 SW Tipton Bennett Stanwood 5 N Tipton	14 14 14 14	1334CST 1340CST 1340CST 1340CST			0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	Funnel Cloud Funnel Cloud Funnel Cloud Funnel Cloud
Muscatine County 10 N Muscatine 1 N Muscatine	14 14	1430CST 1440CST			0	0	4 4	3 3	Thunderstorm Winds (G50+) Thunderstorm Winds (G50+)

A very unstable airmass was located over Iowa. Thunderstorms developed quite randomly, firing up shortly after sunrise. The first severe storm developed over Lucas County and produced golf ball-size hail at Lucas. This slow-moving cell moved into Wayne County dropping 2.00 to 3.00 inches of rain. Flash flooding occurred with water 2 feet deep on Highway 40 near Allerton. Extensive flooding occurred along the Chariton River. Another cluster of storms formed over central Iowa and worked its way into the northeastern counties. Heavy rainfall in Benton County

MAY 1991

	$T^{-}$	TIME			NO. PER	OF SONS	ESTIN DAM/	ATED	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	חביים ביים	~-camoo->-	CEOPN	CHARACTER OF STORM

#### IOWA Cont'd

caused flash flooding in the area. Highway 218 was closed for a few hours when up to 3.50 inches of rain fell in a few places. Hail measuring 1.00 to 2.00 inches in diameter was also reported at several locations. The storms became tornadic by late afternoon. There were numerous funnel cloud reports, and a few tornadoes in eastern Iowa. One tornado touched down in Linn County and two touched down in Delaware County. One of the tornadoes in Delaware County was on the ground intermittently for about 176 miles. None of the tornadoes caused very much damage because they went through open fields. There were a few reports of high winds which were responsible for blowing a car off the road, 10 miles north of Mucatine.

Wright County							
5 E Clarion	14	1615CST	0	0	3	3	Hail (0.75)
Warren County							• •
3 ESE Des Moines	14	1650CST	0	0	3	3	Hail (0.75)
Airport		•					
Polk County			_				
Des Moines	14	1650CST	0	0	3	1	Hail (0.75)
Airport							•
2 SW Des Moines	14	1757CST	0	0	0	0	Funnel Cloud
Airport _							
Downtown Des	14	1758CST	0	0	4	0	Thunderstorm Winds (G56)
Moines		•					,
West Des Moines	14	1805CST	0	0	3	0	Hail (0.75)
West Des Moines	14	1805CST	0	0	4	0	Thunderstorm Winds (G50+)
Urbandale	14	1805CST	Ō	Ó	3	Ó	Hail (0.75)
2 N Des Moines	14	1815CST	Ŏ	Ŏ	Ō	Ō	Funnel Cloud
Airport	- •		-	-	-	-	

During the early evening hours of the 14th, a few isolated thunderstorm cells brought more severe weather to Iowa. One of them in Wright County produced 0.75-inch-diameter hail. Another developed just south of the Des Moines Airport. Dime-size hail was reported at several points around the city. A funnel cloud was observed from southwest of the airport to just north of the airport. The storm produced 65-mph winds in downtown Des Moines, and caused wind damage at a shopping center in western Des Moines.

IAZ001-002-005-006-007-008-009-010-011-014-ILZ004 Northeastern Three-Quarters of Iowa

6	0000CST-					
3	1800CST	0	0	6	6	Flood

Heavy rains of 1.50 to 3.00 inches fell on the 15th over the upper portions of the Iowa/Cedar, Skunk, and Des Moines River Basins. Near record flooding occurred on Beaver Creek at New Hartford on the 18th, and major flooding occurred in Waterloo on the Cedar River on the 21st. Moderate flooding occurred on the Shell Rock River, the West Fork of the Cedar River, Black Hawk Creek, and much of the Cedar River as well as portions of the Iowa and Skunk Rivers. On the Des Moines River, the 22.87-foot crest at Stratford was the second highest since 1967.

Pottawattamie County
Council Bluffs 16 1926CST 0 0

0 0 5 2 Thunderstorm Winds (G64)

Strong thunderstorms moved into western Iowa during the evening. Winds gusted to 73 mph at nearby Omaha Eppley Airfield, resulting in damage at Council Bluffs.

Hamilton and Wright									
Counties	177	1000000							
7 E to 12 NE Webster City	17	1300CST- 1236CST	9.0	60	0	0	4	2	Torondo (F2)
Hamilton County		1230C31	9.0	OO	U	U	4	3	Tomado (F2)
10 NE Webster	17	1320CST			0	0	4	4	Hail (1.75)
City							-		(
Black Hawk County		4446000			_	•	_	•	
2 N Hudson	17	1416CST			U	U	U	U	Funnel Cloud

									MAY 1991
		TIME			NO. PER	OF SONS	ESTI DAM	MATED AGE	
PLACE	D	LOCAL	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-EO	בייטשט	0.000.mo-7	CORODO	CHARACTER STORM
IOWA Cont'd	l								
Greene County Jefferson Paton	17 17				0	0	3 4	4	Hail (1.75) Hail (1.75)
Black Hawk Cou Cedar Falls Waterloo Airpo Cedar Falls Waterloo	17 ort 17 17 17	7 1419CST 7 1420CST			0 0 0	0 0 0 0	4 4 4 6	2 3 2 2	Hail (1.75) Hail (1.00) Hail (1.75) Hail (3.00)
Buchanan County 2 W Independe	y nce 27	1430CST			0	0	4	2	Thunderstorm Winds (G50+)
Linn County Center Point	17	1435CST			0	0	4	4	Hail (1.75)
Johnson County Solon	. 17	1450CST			0	0	4	4	Hail (1.75)
Washington Cou Kalona	17	1450CST			0	0	0	0	Funnel Cloud
Muscatine Count Muscatine 2 N Muscatine 2 N Muscatine Conesville	17 17 17 17	1510CST 1510CST	0.1	15	0 0 0	0 0 0 0	0 0 5 3	0 0 4 0	Wall Cloud Funnel Cloud Thunderstorm Winds (G65) Tornado (F1)
Hamilton County Stratford	17	1510CST	0.1	15	0	0	3	2	Tornado (F0)
Boone County Boxholm Pilot Mound Pilot Mound Nucceting County	17 17 17	1514CST			0 0 0	0 0 0	4 0 4	2 0 4	Thunderstorm Winds (G50+) Funnel Cloud Hail (1.75)
Muscatine Count Nichols West Liberty	y 17 17				0	0	3 3	3 3	Hail (1.00) Hail (1.00)
Grundy County 15 W Waterloo Muscatine and So		1536CST			0	0	3	3	Hail (0.75)
Counties 5 NE Mucatine 7 N Buffalo		1510CST- 1540CST	14.5	30	0	0	5	3	Tornado (F1)
	In	termittent par	th.						
Poweshiek Count	y 17	1545CST	•		0	0	3	4	Hail (1.00)
Davis County 8 SE Bloomfiel	d 17	1545CST			0	0	4	2	Thunderstorm Winds (G50+)
Wright County 2 SE Clarion Hamilton County	17		0.3	20	0	0	3	1	Tornado (F0)
Hamilton County		2100CST			0	0	5	4	Flash Flood
Hardin County	17	2100CST			0 -	0	5	4	Flash Flood
Webster County	. 17	2100CST			0	0	5	4	Flash Flood
Humboldt County		2100CST			0	0	5	4	Flash Flood
Wright County	17	2100CST			0	0	5	4	Flash Flood
Grundy County  Butler County	17 17	2100CST			0	0	6	4	Flash Flood
DIMET LOIMIV		-   C. J. J. J.							

Flash Flood

**Butler County** 

**MAY 1991** 

		TIME			NO.	OF SONS	ESTIN DAM/	ATED GE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	-2-100mp	~-20m202-7	OECOLO	CHARACTER OF STORM

#### IOWA Cont'd

Black Hawk County	17	1600CST- 2100CST	0	0	5	4	Flash Flood
Scott County Davenport 2 SW Davenport 1.5 W Davenport Betterndorf	17 17 17 17	1600CST 1600CST 1620CST 1625CST	0 0 0	0 0 0	4 0 4 3	2 0 3 0	Hail (1.75) Funnel Cloud Hail (2.12) Hail (0.75)
Iowa County 2 W Marengo Marengo Lee County	17 17	1620CST 1630CST	0	0	3 3	4 3	Hail (1.75) Hail (1.00)
Fort Madison	17 17	1800CST 1800CST-	0	0	4	2	Thunderstorm Winds (G50+)
Scott County	17	2100CST	0	0	5	3	Flash Flood

Two weather features were affecting Iowa on the afternoon of the 17th. An Arctic cold front was moving south across the state, while at the same time a strong upper level low pressure area was moving across from the southwest. The airmass over Iowa was very unstable. Severe thunderstorms erupted along and north of the Arctic cold frontal boundary. Heavy rains of 2.00 to 4.00 inches were common between Fort Dodge and Waterloo. The heaviest rain area was about 40 miles wide. The Allison area had 5.50 inches of rain, with 4.70 inches at Bristow. A few unofficial reports around the area indicated that perhaps 6.00 to 7.00 inches of rain fell in spots. Both of these are in Butler County. Since this rain fell in about 2 hours, flash flooding occurred over an eight-county area. The water was deep enough in the farm fields that some farmers reported white caps in the fields. For the most part, severe weather from these storms came in the form of large hail. There were numerous reports of 1.00-inch, up to golf ball-size, hail. In Greene County, hail over 1.00 inch in diameter stripped the leaves off the trees and covered the ground. The largest hail reported was in the city of Waterloo, measured up to 3.00 inches in diameter. Damage was extensive in the Waterloo area. One car dealership reported losses of \$1 million as hail damaged 500 new and used cars, and there was considerable damage to roofs in the area. Winds were generally under 45 mph from most of the storms although there were a few reports of tornadoes. One fairly strong tornado touched down in Hamilton County and moved into Wright County. The track of the tornado was all over open country. As a result, damage was minimal in spite of its strength and the length of its track. Another small tornado touched down briefly in Wright County over an open field, while a third touched down briefly near Stratford, in Hamilton County. Intense thunderstorms moved into the southeastern part of lowa from Missouri. These storms were in response to the upper level low. There w

IAZ001-002-007-010-011-014-ILZ004 21 2100CST Northern, Central, and Eastern Iowa Heavy rains of

3 0600CST-1 2100CST 0

0 0 6 6 Flood

Heavy rains of around 1.00 to 2.00 inches fell on the 17th and 18th of May. This caused additional flooding across northern and central Iowa. The flood waters worked their way into parts of southeastern and east-central Iowa.

Kossuth County 2 E Bancroft

23 1715CST

0 0 4 2 Thunderstorm Winds (G50+)

MAY 1991

			TIME			NO.	OF SONS	EST IN	ATED	
PI	LACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL	Office C. Z	-<	CEOPN	CHARACTER OF STORM

#### IOWA Cont'd

Eastern Iowa

wafood County

Thunderstorms developed over Kossuth County. High winds ripped the roof off a hog shed east of Bancroft and some trees were downed in the area. The storms were in the form of a short line and did not last very long. There was also some local flooding, as 4.00 inches of rain fell in a 30-minute time period.

O'Brien County	25	2000CST-					
		2300CST	0	0	5	4	Urban Flood
Hamilton County		0005000		_	•	_	
Stratford	25	2035CST	U	U	U	0	Funnel Cloud
_Stanhope	25	2045CST	0	0	0	0	Funnel Cloud
Kossuth County	25	2200CST-					
	26	0300CST	0	0	6	5	Flash Flood

Thunderstorms developed over many sections of Iowa, but there were no real significant reports of severe weather. Numerous reports of funnel clouds were received over southern Hamilton County. The funnels appeared to be of the cold air variety. The upper atmospheric pattern was such that cold air type funnels could form. These were not true cold air funnels as Iowa was still in the warm air at the surface. Another area of thunderstorms moved across southwestern and south-central Iowa. Pea- to marble-size hail fell with these storms, along with very heavy rains. Storms over northwestern and north-central Iowa produced very heavy rainfall. In Kossuth County, 3.50 to 6.50 inches of rain fell over the southeastern part of the county. Titonka received 3.50 inches, while Wesley recorded 6.50 inches. In Wesley, all of the rain fell during the 2.5-hour period from 1830 to 2100 CST. Eighty percent, or 160 homes, in Wesley had either water or structural damage due to the high water. Virtually the entire city was flooded. Heavy rains also fell over O'Brien County which resulted in minor flooding, mostly in towns and along farm ditches. Three to five inches of rain fell with the heaviest, 4.50 to 5.00 inches, between Paullina and Primghar.

IAZ001-002-004- 050-006-007-008-	26 27	0000CST- 2100CST	0	0	6	6	Flood
009-010-011-014							
ILZ004, Northern a	nd						

Once again, heavy rainfall occurred in Iowa. On the 25th through the 26th of May, 1.00 to 3.00 inches of rain fell over portions of the Little Sioux, Des Moines, and Cedar River Basins. Unofficially, 6.50 inches of rain fell in Wesley. That report was mentioned above in this report. In many cases, these rains continued the widespread flooding that had been occurring over the state. Losses continued to mount, both in property and in agriculture.

Mitchell County	27	1000CCCT	0		^	^	^	Errord Claud
2 S St. Ansgar		1900CST	U		U	U	U	Funnel Cloud
2 W Osage	27	1925CST	0	(	0	0	0	Funnel Cloud

Thunderstorms developed rapidly over north-central lowa during the early evening hours. Several reports of funnel clouds were received; however, no severe weather was actually reported.

Charter Oak	27	2349CST			0	0	4	4	Hail (1.75)
Sac County Wall Lake	28	0000CST			0	0	4	2	Thunderstorm Winds (G50+)
Monona County					U	U	7	L	Thunderstorm winds (050+)
6 E Blencoe 1 W Moorhead	28	0056CST- 0108CST	5.0	60	0	0	5	3	Tornado (F2)
Webster County	20	0220CST	5.0		^	0	4	4	` '
Barnum Fort Dodge	28 28	0253CST			0 0 0	0	4	3	Hail (1.75) Hail (1.75)
Fort Dodge 2 E Fort Dodge	28 28	0253CST 0306CST			0	0	3	2	Thunderstorm Winds (G50) Funnel Cloud
Butler County					^	^	4	2	
Allison	28	0413CST			0	0	4	Z	Thunderstorm Winds (G52)

MAY 1991

		TIME			NO.	OF SONS	ESTI!	ATED	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL	Omac. Z	4-cam00200	CECOEN	CHARACTER OF STORM

#### IOWA Cont'd

A small area of thunderstorms moved into west-central Iowa around midnight. A tornado touched down in Monona County. Two farmsteads were damaged, with structural damage to each of the two houses. Trees in the area were twisted off. Golf ball-size hail occurred with these storms at several locations over a 3-hour period. A picture window was broken out by hail and winds in Fort Dodge. High winds also blew down several large trees and a few power lines in the city of Fort Dodge. A short time later, a funnel cloud was reported just east of Fort Dodge. High winds were a spotty occurrence. In Sac County, Wall Lake reported numerous trees blown down by high winds. As the thunderstorms moved farther to the east, trees and power lines were downed in the Allison area of Butler County by 50-mph winds.

Osceola County Ocheyedan	28	2355CST	0	0	3	2	Thunderstorm Winds (G50+)
Woodbury County Sioux City	29	0012CST	0	0	4	3	Thunderstorm Winds (G59)
Plymouth County Akron Airport Woodbury County	29	0022CST	0	0	5	4	Thunderstorm Winds (G78)
Downtown Sioux	29	0030CST	0	0	5	0	Thunderstorm Winds (G50+)
City 1 S Sergeant Bluff	29	0030CST	0	0	4	3	Thunderstorm Winds (G50+)
O'Brien County Sanborn	29	0100CST	0	0	3	2	Thunderstorm Winds (G50+)
Cherokee County Cherokee	29	0120CST	0	0	3	3	Thunderstorm Winds (G50+)

A line of severe thunderstorms moved into northwestern Iowa around midnight. Numerous trees and power lines were blown down in Sioux City by winds of nearly 70 mph. A window was blown out in downtown Sioux City, and telephone poles were snapped off. A telephone pole was blown down south of Sergeant Bluff. High winds caused extensive damage at the Akron Airport. A hanger and two planes were destroyed, and a tractor-semitrailer and bulk fuel tanks were overturned. Damage at the Akron Airport was over \$100,000. High winds also caused some minor damage farther to the east in Cherokee County. Winds blew down trees in the Sanborn area in O'Brien County, and in the Ocheyedan area of Osceola County.

Butler	County
Appl	ington

29 0410CST

0 4 2 Thun

Thunderstorm Winds (G52)

Thunderstorms developed and moved in from the west during the early morning hours. Winds of 60 mph struck the Butler County town of Applington, blowing down trees and power lines in the city.

IAZ006-007-008-009-010-012-014 Central and Southeastern Iowa 29 1200CST-31 2400CST

0 0 6 6 Flood

An average of 1.00 to 3.00 inches of rain fell over central Iowa on the 29th and 30th. This resulted in additional rises and flooding in the Des Moines and Skunk River Basins. These rains were also the final straw as far as Saylorville Reservoir was concerned. After several consecutive months of record or near-record rainfall, the Saylorville Reservoir was on its way to reaching capacity. At months end, it was within a few feet of the emergency spillway level.

Story County Ames	29	1410CST	0	0	4	3	Thunderstorm Winds (G59)
Boone County	29	1530CST- 1730CST	0	0	4	4	Urban Flood
Scott County H Bettendorf	29	1550CST	0	2	4	2	Thunderstorm Winds (G50+)

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAM/	MATED AGE	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	OMETINA	OMBCCZ	<b>≺-ໝ</b> πσ0 <del>20.0</del>	COCOO	CHARACTER OF STORM

#### IOWA Cont'd

Chickasaw County 4 W Fred- ericksburg	29	1645CST			0	Ó	4	3	Thunderstorm Winds (G50+)
Fayette County Fayette	29	1715CST		,	0	0	4	3	Thunderstorm Winds (G50+)
Keokuk County Webster	29	1830CST			0	0	4	2	Thunderstorm Winds (G50+)
Washington County Washington	29	1925CST		•	0	0.	4	2	Thunderstorm Winds (G50+)
Johnson County 2 NE Hills	29	1948CST	0.2	20	0	0	3	2	Tornado (F0)
Linn County Lisbon	29	2010CST			0	0	4	3	Thunderstorm Winds (G50+)

Thunderstorms developed during the afternoon hours along a nearly stationary frontal boundary. They quickly became severe and produced torrential rainfall in central Iowa. Winds were recorded at nearly 70 mph in Ames. The town of Madrid, south of Ames, recorded 4.50 inches of rainfall in a 45-minute period that resulted in considerable local flooding. Highway 17 was closed for a while by high water, with cars being washed off the highway broadside. Flooding and erosion was extensive in the nearby rural areas. Elsewhere in the area, 40- to 55-mph winds were common along with some small hail. At this time, an isolated storm developed over eastern-central Iowa. High winds in the Bettendorf area broke out car windows at a car dealership and blew off part of a motel roof. A large outdoor tent was also blown down; as a result, two people sustained injuries. As the storms from central Iowa moved east, gusty winds in the 50- to 60-mph range continued. High winds in Linn County blew down trees and power lines in Lisbon. One tornado was observed in Johnson County 2 miles northeast of Hills. The touchdown was brief and it caused little damage because it was in a rural area. The same line of storms caused some minor wind damage in the Washington area. Other reports of high winds were received from Keokuk County, where a mobile home and several grain bins were destroyed. In Webster and Chickasaw County, trees were blown down west of Fredericksburg. A house sustained damage by a large tree that fell through the roof. Trees were also blown down in Fayette by high winds.

Butler County							
Allison	31	0640CST	0	0	3	4	Hail (0.75)
Black Hawk County							• •
Cedar Falls	31	0753CST	0	0	3 3	4	Hail (0.75)
Waterloo Airport	31	0813CST	0	0	3	3	Hail (0.75)
Buchanan County							
_4 E Jessup	31	0835CST	0	0	4	4	Hail (1.75)
Grudy County	31	0745CST-					
_		1030CST	0	0	4	4	Urban Flood
Bremer County	31	0745CST-	_	_	_		
		1030CST	0	0	4	4	Urban Flood
Black Hawk County	31	0745CST-	_	_		_	
		1030CST	0	0	5	4	Urban Flood
Wright County	31	0800CST-		_			
· · · ·		1100CST	0	Ò	4	4	Urban Flood
Hamilton County	21	0800CST-		•			
77 11 64 .		1100CST	0	0	4	4	Urban Flood
Hardin County	31	0800CST-	^	^			77.1 771 1
E 11' 6 4		1100CST	0	0	4	4	Urban Flood
Franklin County	31	0915CST-	_				*** *** *
D . G .	0.1	1230CST	0	0	4	4	Urban Flood
Benton County	31	1130CST-	^	^			TO 1 TO 1
T: 0 4	21	1500CST	0	0	5	4	Flash Flood
Linn County	31	1130CST-	^	^	_		7711 7711
M1-11 O	21	1500CST	0	0	5	4	Flash Flood
Marshall County	31	1230CST- 1430CST	0	0	4	4	III-bon Eloud
		1430031	U	U	4	4	Urban Flood

MAY 1991

	Ţ	TIME			NO. PER	OF SONS	EST I	AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K L L D	Om20C-2-	4- <del>cam</del> 00 <del>20</del> ->	CECOEN	CHARACTER OF Storm

#### IOWA Cont'd

Jasper County	31	1230CST-					
	- 31	1430CST	0	0	4	4	Urban Flood
Polk County	31	1230CST-					
•		1430CST	0	0	5	4	Urban Flood
Warren County			_	_	_	-	
Carlisle	31	1315CST	0	0	3	4	Hail (0.75)
Poweshiek County	31	1330CST-				-	(3115)
		1700CST	0	0	5	4	Flash Flood
Iowa County	31	1330CST-	_	-	_	•	
		1700CST	0	0	5	4	Flash Flood
Johnson County	31	1330CST-	•	•	_	•	1 1000
		1700CST	0	0	5	4	Flash Flood
Scott County		1700021	•	•	_	•	1 11111 7 1000
2 S Bluegrass	31	1630CST	0	0	3	0	Lightning
Keokuk County	31	1915CST-	•	•	-	•	Lighting
TOORUM COUNTY	<b>J</b> 1	2100CST	0	0	4	4	Urban Flood
		2100001	•	•	•	•	Croun 1 1000

A cluster of thunderstorms moved into northwestern Iowa during the early morning hours of the 31st. As it moved across the state, it laid down a strong outflow boundary. This became the focus for additional thunderstorm development later on. Although the storms appeared to be severe on radar, very little in the way of severe weather actually occurred. Grundy and Black Hawk Counties had 0.75-inch-diameter hail, with golf ball-size hail falling in Buchanan County. Lightning struck a house south of Bluegrass, in Scott County, causing minor damage to the house. During the early afternoon hours, thunderstorms produced pea-size hail at the Des Moines Airport, with dime-size hail southeast of Des Moines in Carlisle. The major problems with the storms was with flooding. Iowa soils were saturated by recent heavy rainfall. As these storms moved through Iowa, 1.50 to 2.00 inches of rainfall in a 90-minute-or-less time period was common. Isolated spots received up to 5.00 inches of rain. There were three rounds of flooding. The first caused urban areas to flood, and small streams to overflow their banks in seven counties of north-central and northeastern Iowa. The next round of thunderstorms affected central and east-central Iowa. Much of this flooding was of the small stream and urban variety. Flash flooding was reported in Benton and Linn counties. Water was over many roadways, and some bridges were washed out. The flash flooding extended to the southwest, into Poweshiek, Iowa, and Johnson Counties. One to three inches of rain fell in a short period of time across these counties. A few areas received up to 4.00 inches of rain. The third episode was over southeastern Iowa. The cluster of storms was small, and flooding was quite localized. Rainfall was under 2.00 inches, but these rains fell on completely-saturated ground.

IAZ001-002-003 0041-005-006-007-009-010-011-012-013-014-015-SDZ018-NEZ010-All of Iowa

01 All Month **Excessive Rainfall** 

An extremely wet spring planting season caused considerable agricultural losses due to planting delays. Many of the reporting stations around Iowa reported the wettest May, while most reported the wettest 2-month period (April and May), of the 20th century. The wet conditions in the fields resulted in planting delays, with nearly 30 percent of the state's corn crop not yet planted by month's end. The planting delays of this magnitude cause reduction in yields, and, in this case, will amount to nearly \$125 million in lost yield.

#### KANSAS

**Morton County** 2 W Richfield 02 1550CST 3 Hail (1.00)

Quarter-size hail dented cars and damaged crops.

Stanton County 8 SW Big Bow 02 1610CST 0.3 Tornado (F0)

MAY 1991

		TIME			NO.	OF SONS	EST IN	MATED AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIOTH OF PATH (YARDS)	KILLED	OmwCc.Z	~- <del></del>	CACOAO	CHARACTER OF STORM

### KANSAS Cont'd

A small tornado touched down for a few minutes in an open field and then traveled east-northeast for about 0.25 mile.

	101	about 0.25 mile.					
Thomas County 1 W Brewster	02	1712CST	0	0	3	3	Hail (1.00)
Sherman County Goodland Airport	02	1744CST	0	0	0	0	High Winds (G50)
Rawlins County McDonald 14 S Atwood	02 02	1750CST 1755CST	0	0 0	3 4	3 4	Hail (1.00) Hail (1.50)
Allen County Elsmore	03	2035CST	0	0	0	0	Hail (0.75)
Bourbon County Uniontown Redfield Lohnson County	03 03	2055CST 2110CST	0	0	0	0	Thunderstorm Winds (G52) Hail (0.75)
Johnson County Overland Park	03	2202CST	0	0	0	0	Hail (0.75)
	Hai	I was reported over much of the	grea	ter Ka	ınsas (	City ar	ea.
Highways K7 and K10 Clay County	03	2202CST	0	0	0	0	Hail (0.75)
10 S Clay Center 7 W Clay Center	04 04	1019CST 1043CST	0	0	·3 3	3 3	Thunderstorm Winds (G52) Hail (0.75)
Washington County Kimeo	04	1050CST	0	0	4	4	Hail (1.75)
	Sev Cou Cen	ınty.  Several farm buildings w	ver C ere d	clay C estroy	county ed by	and r strong	noved across southern Washingto thunderstorm winds south of Cla

Clay County Green Marshall County	04	1100CST	0	0	3	3	Hail (0.75)
Frankfort Nemaha County	04	1115CST	0	0	0	0	Hail (0.75)
8 SSW Sabetha 1 NW Seneca	04 04	1130CST 1140CST	0	0	3 0	<b>4</b> <b>4</b>	Hail (1.00) Hail (1.25)

Hail covered the ground over eastern Marshall, much of Nemaha, and northern Pottawatomie Counties producing a layer of ice that was one or more inches thick. Road graders were used to clear U.S. Highway 36.

Brown County 3 E Sabetha Pottawatomie County Onaga	04	1155CST 1155CST	0	0	0	0	Hail (1.00) Hail (1.50)	
Oimgu	_		•	•	-	-	• •	
	Ner	l damaged wheat and small naha, Brown, Pottawatomie,	grain c and Jack	rops cson	Countie	nuch c es were	e especially hard hit.	Marshall,
Emmett	04	1200CST	0	0	0	0	Hail (1.00)	
Jackson County Circleville Holton	04 04	1210CST 1215CST	0	0	0	0	Hail (1.50) Hail (1.00)	
Doniphan County 1 S Troy	04	1324CST	0	0	0	0	Hail (0.75)	
Cowley County Atlanta	04	1535CST	0	0	0	0	Hail (0.75)	

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAM/	ATED AGE	
PLACE	D-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLING	Omto CL2	4-camposa a	CœOno	CHARACTER OF STORM

### KANSAS Cont'd

Butler County Beaumont 15 SE El Dorado Latham Cassoday	04 04 04 04	1556CST 1614CST 1615CST 1645CST	0 0 0 0	0 0 0 0	0 0 3 0	0 0 0 0	Hail (0.75) Hail (0.75) Hail (3.00) Hail (1.75)
Cowley County Arkansas City	04	1649CST	0	0	0	0	Hail (0.75)
Chase County Cottonwood Falls	04	1653CST	0	0	0	0	Hail (0.75)
Greewood County Eureka	04	1654CST	0	0	0	0	Hail (1.75)
Lyon County Olpe Neosho Rapids Chase County	04 04	1700CST 1710CST	0	0	0	0	Hail (1.50) Hail (1.50)
Chase County Strong City Coffey County	04	1723CST	0	0	0	0	Hail (1.75)
6 N Burlington	04	1725CST	0	0	0	0	Hail (1.00)
Sumner County Conway Springs	04	1729CST	0	0	0	0	Hail (1.00)
	Hai	l covered the ground for a time.					
Greenwood County 5 SW Eureka Sedgwick County	04	1730CST	0	0	0	0	Hail (2.00)
Viola	04	1738CST	0	0	0	0	Hail (1.00)
	Hai	l covered the ground as deep as	2.5 i	nches.			
Montgomery County Coffeyville Elk County	04	1740CST	0	0	0	0	Thunderstorm Winds (G58)
5 N Howard Anderson County	04	1745CST	0	0	0	0	Hail (1.00)
3 NW Ottawa Woodson County	04	1745CST	0	0	0	0	Hail (1.50)
Yates Center Sedgwick County	04	1752CST	0	0	0	0	Hail (1.75)
Viola Allen County	04	1755CST	0	0	0	0	Hail (1.50)
Iola Neosho County	04	1804CST	0	0	0	0	Thunderstorm Winds (G58)
Chanute	04	1808CST	0	0	0	0	Thunderstorm Winds (G60)
	A n	nobile home sustained roof dama	ige.				
Allen County 3 W Iola Neosho County	04	1834CST	0	0	0	0	Hail (1.00)
Erie Erie	04	1842CST	0	0	0	0	Thunderstorm Winds (G60)
	Pov	ver lines were blown down in E	rie.				
Bourbon County Uniontown Uniontown Fulton	04	1845CST 1845CST 1905CST ne trees were damaged in Fulton	0 0 0	0 0 0	0 0 0	0 0	Hail (0.75) Thunderstorm Winds (G60) Thunderstorm Winds (G60)
	2011	io troos were duringed in runton	•				

MAY 1991

									CW11 1771
		TIME			NO.	OF SONS	ESTII DAM/	MATED AGE	
PLACE	Đ	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-1-MO	חששטרב	P.ROP.HXT-Y	COCOEN	CHARACTER OF STORM
KANSAS Cont'd									
Seward County 1 W Liberal	10	2045CST			0	0	0	0	Hail (0.75)
Mead County 4 SW Plains	10	2225CST			0	0	0	0	Hail (0.75)
Seward County 5 NE Kismet	10	2225CST			0	0	0	0	Hail (0.75)
Stanton County Saunders	10	2040CST			0	0	0	0	Hail (1.00)
Jewell County Ionia	12	1920CST			0	0	3	3	Hail (0.75)
Lincoln County Barnard 5 S Barnard	12 12	2100CST 2230CST			0	0	3 4	3 4	Hail (0.75) Flash Flood
	Stro	ong thunder inty roads w	storms pro ere floode	duced up d until 030	to 5.	00 inc ST on	hes of the 13	rain c 8th.	over eastern Lincoln County. Some
Dickinson County 2 S Abilene Enterprise 8 SE Abilene	13 13 13	1625CST 1627CST 1628CST			0 0 0	0 0 0	4 3 3	4 3 3	Hail (1.75) Hail (0.75) Hail (0.75)
Saline County 3 SW Solomon	13	1708CST			0	0	3	3	Hail (0.75)
Dickinson County 4 S Enterprise Enterprise	13 13	1715CST 1715CST			0	0	3 4	3 4	Hail (0.75) Hail (1.75)
Saline County Solomon Montgomery County	13	1743CST			0	0	3	3	Hail (0.75)
Montgomery County 5 S Cherryvale Marion County	13	1805CST			0	0	0	0	Hail (0.75)
Durham Dickinson County	13	1859CST			0	0	0	0	Hail (1.00)
2 NW Hope 2 NE Hope	13 13	1905CST 1915CST	1.0	50	0	0	<b>4</b> <b>4</b>	4	Hail (1.75) Tornado (F0)
		ornado toucige trees.	hed down	briefly wh	ile d	estroy	ing sev	veral fa	arm buildings and uprooting several
Marion County 2 N Lost Springs	13	1915CST	1.0	50	0	0	0	0	Tornado (F0)
	The	sheriff's of	fice report	ed that a to	rnad	o touc	hed do	wn br	iefly, but did not cause any damage.
Morris County Delevan Enterprise	13 13	1915CST 1915CST			0	0	0	0	Hail (1.00) Hail (1.50)
Dickinson County Herington Mossic County	13	1920CST			0	0	3	3	Hail (1.00)
Morris County Delevan Dickinson County	13	1920CST			0	0	3	0	Thunderstorm Winds (G58)
1 NW Herington	13	1940CST	1.0	50	0	0	0	0	Tornado (F0)
	A to	ornado toucl	hed down	briefly in	an op	en fie	eld.		
Marion County Lost Springs Morris County	13	2014CST			0	0	0	0	Hail (0.75)
3 E Burdick	13	2020CST			0	0	0	0	Hail (0.75)

MAY 1991

		TIME			NO.	OF SONS	EST IN	AATED AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMO	חמשכניב⊶	~—\tempose	האסהמ	CHARACTER OF STORM

### KANSAS Cont'd

	Hai	il covered the	ground.								
Chase County Hymer	13	2042CST			0	0	0	0	Hail (1.00)		
Osage County Barclay	13	2235CST			0	0	4	0	Thunderstorm Winds (G60)		
	and	ew trees were damage prome e sighted.	blown do pted Osag	wn and o	one he fficial	ouse si s to tu	ustaine rn on	ed mine the tor	or roof damage. The strong winds nado sirens, although no tornadoes		
Overbrook	13	2250CST			0	0	0	0	Hail (1.00)		
Ellsworth County Kanopolis Lake	13	2340CST			0	0	4	4	Hail (1.75)		
Dickinson County Lyons Creek	14	0245CST			0	0	3	4	Flash Flood		
	Ove Lyc	er 4.00 inches ons Creek unti	of rain fel Il 0700 CS	l across : T.	south	ern Di	ckinso	n Cou	nty and caused flash flooding along		
Ellsworth County Mulberry Creek	14	0320CST			0	0	4	3	Flash Flood		
	Up to 4.00 inches of rain fell on northeastern Ellsworth and northwestern Saline counties cat flooding along Mulberry Creek until 0700 CST.										
Saline County Mulberry Creek	14	0320CST			0	0	4	3	Flash Flood		
Clay County 2 NNW Longford	14	1635CST			0	0	4	3	Thunderstorm Winds (G61)		
	A n	nicroburst des	troyed a h	og shed	and u	proote	ed seve	eral tre	es,		
Wallace County 10 SE Sharon Springs	15	1658CST	1.0	20	0	0	0	0	Tornado (F0)		
Finney County 1 N Garden City	15	1700CST	2.0	30	0	0	0	0	Tornado (F0)		
	A to	ornado was on	the groun	d for abo	out 2	miles	across	an ope	en field before lifting at 1710 CST.		
4 W Garden City	15	1700CST	7.0	150	0	0	0	0	Tornado (F0)		
	A to	ornado touche the ground un	d down in til 1730 C	open fie ST and o	ld an dissip	d was ated 7	estima miles	ted to north-	be about a city block wide. It was northwest of Garden City.		
3.8 SW Garden	15	1705CST	1.5	73	0	0	0	0	Tornado (F0)		
City 3.9 SW Garden City	15	1705CST	1.5	73	0	0	0	0	Tornado (F0)		
4.1 SW Garden	15	1705CST	1.5	73	0	0	0	0	Tornado (F0)		
City 4.2 SW Garden	15	1705CST	1.5	73	0	0	0	0	Tornado (F0)		
City 4 SW Garden City	15	1705CST	1.5	73	0	0	0	0	Tomado (F0)		

Five small tornadoes were on the ground for a few minutes, at the same time within 100 yards of each other traveling only 1 to 1.5 miles. The tornadoes did little or no damage.

MAY 1991

	,	R	TIME	LENGTH OF	WIDTH OF PATH	NO. PER	OF SONS I	ESTIMA DAMA	ATED GE C	CHARACTER
	PLACE	Ē	STANDARD	PÄTH (MILES)	(YARDS)	L EEO	Chrocce	OP ERRY	OPW	CHARACTER OF STORM
K	KANSAS Cont'd									

KANSAS Cont'd									
5 S Garden City	15	1710CST- 1715CST	1.5	73	0	0	0	0	Tornado (F0)
	A s	ixth small to	nado, this	one last	ed on	ıly 5 m	inutes	•	•
2.9 SE Garden	15	1720CST	2.5	65	0	0	0	0 .	Tornado (F0)
City 3.1 SE Garden City	15	1720CST	2.5	50	0	0	0	0	Tornado (F0)
3 SE Garden City 3.2 SE Garden	15 15	1720CST 1720CST-	2.5	65	0	0	0	0	Tornado (F0)
City	15	1730CST	2.5	55	0	0	0	0	Tornado (F0)
	For Gar	r tornadoes ( den City mov	land spout ing east-no	s), all o	on the	groun s open	nd at t fields	he san	ne time, were sighted southeast of
Wichita County 11 E Leoti	15	1727CST	1.0	10	0	0	0	0	Tornado (F0)
1 NE Leoti 20 SE Leoti	15 15	1727CST 1727CST	1.0 1.0	10 10	0 0 0	0	0	0	Tomado (F0) Tomado (F0)
8 S Leoti Scott County 10 W Scott City	15	1727CST	1.0	10	Ŏ	Ŏ	0	0	Tornado (F0)
10 W Scott City	15	1730CST	1.0	10	0	0	0	0	Tornado (F0)
,	othe	e small tornader. Some of h 60- to 70-m	the tornado	l in Wicles bes were	hita a on t	nd west he grou	tern So and at	ott Co the sa	unties within a few minutes of each me time but they were fairly weak
Finney County 8 S Garden City	15	1730CST	1.8	40	0	0	0	0	Tornado (F0)
7.9 S Garden City	15	1730CST- 1740CST	1.8	40	0	0	0	0	Tornado (F0)
	Two								arden City moving north-northeast.
Seward County	1.5	1720 COT	10.0	25	^	0	^	^	T 1 (TO)
10 W Plains	15	1730CST	12.0	35 miles w	0	0 Dlaina	0 at 173	0 20 CST	Tornado (F0)
71 6	nor	thwest of Plai	ns with no	damage	est of e bein	riains g repo	rted.	00 CS 1	, across Highway 160, to 12 miles
Finney County 3.1 E Garden City	15	1745CST	3.5	55	0	0	0	0	Tornado (F0)
	Two	o tornadoes wes and dissipa	ere on the	ground 1800 C	at th	ne same	e time.	Both	n moved north-northeast about 3.5
3 E Garden City	15	1745CST	3.5	55	0	0	0	0	Tornado (F0)
		ere were 16 to y. No damag			und fo	or shor	t perio	ds of t	ime, all within 10 miles of Garden
Sherman County 18 SSE Goodland 1 S Goodland 2 E Edson	15 15 15	1800CST 1808CST 1820CST	1.0	10	0 0 0	0 0 0	0 3 3	0 3 3	Tornado (F0) Hail (0.75) Hail (1.75)
Meade County Plains Gray County	15	1825CST			0	0	0	0	Funnel Cloud

MAY 1991

		TIME			NO. PEŘS	OF SONS	EST IN	ATED GE	
PLACE	DAG	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLED	CHINGC LE		COCODA	CHARACTER OF STORM

### KANSAS Cont'd

10 S Pierceville	15	1830CST			0	0	0	5	Hail (1.00)
	Go	lf ball-size hai	il destroye	ed two ci	rcles	of wh	eat on	one fa	arm and damaged two other farms.
Sherman County 12 E Goodland Thomas County	15	1835CST			0	0	3	3	Hail (0.75)
Thomas County 17 W Colby	15	1855CST			0	0	3	3	Hail (1.00)
Sherman County 18 ENE Goodland	15	1905CST			.0	0	3	3	Hail (1.00)
Scott County 10 S Scott City	15	1905CST			0	0	3	3	Hail (0.75)
Lane County Dighton	15	1909CST	1.0	50	0	0	4	4	Tornado (F1)
_	A t	ornado damag	ed a farms	stead, inc	ludin	ıg a 40	)- by 2	4-foot	cattle shed. The debris was thrown
	for	up to 0.5 mil	e. Severa	l trees w	ere a	Iso de	stróye	d.	
Rawlins County 1 E McDonald Clark County	15	1920CST			0	0	3	3	Hail (0.75)
Minneola Minneola	15 15	1921CST 1921CST			0	0	0 3	0	Thunderstorm Winds (G75) Thunderstorm Winds (0.75)
Ford County 5 W Dodge	15	1921CST			0	0	0	0	Hail (0.75)
5 W Dodge	15	1921CST			ŏ	ŏ	ŏ	ŏ	Thunderstorm Winds (G60)
Rawlins County 5 E McDonald	15	1925CST			0	0	3	3	Hail (0.75)
Ness County 2 W Arnold	15	2020CST			0	0	4 4	4	Hail (1.00)
Ransom Decatur County	15	2030CST			•	•	-	4	Hail (1.00)
1 S Seldon Pawnee County	15	2045CST			0	0	4	4	Hail (0.75)
Roxell Decatur County	15	2109CST			0	0	0	0	Hail (0.75)
5 N Oberlin Harvey County	15	2114CST			0	0	4	4	Hail (1.50)
Burrton	16	0340CST			0	0	0	0	High Winds (G60)
	No	nconvective, s	traight-lin	e winds	blew	tree l	imbs d	lown.	
Ellsworth County 3 N Lorraine	16	1235CST			0	0	0	0	Funnel Cloud
Rooks County Stockton	16	1254CST			0	0	3	3	Hail (1.00)
Ellsworth County 3 S Ellsworth	16	1303CST			0	0	0	0	Funnel Cloud
Graham County Bogue	16	1305CST			0	0	4	4	Hail (1.00)
Pawnee County 1 N Rozel	16	1313CST			0	0	0	0	Funnel Cloud
Hodgeman County 8 W Jetmore	16	1315CST			0	0	0	5	Hail (2.75)
Russell County _Lake Wilson	16	1330CST			0	0	4	4	Hail (1.75)
Finney County 1 E Kalvesta	16	1337CST		-	0	0	0	0	Hail (0.75)
Russell County									

MAY 1991

		TIME			NO.	OF SONS	ESTII DAM	AATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	صعدد	משמכרבי	4-800m4->-	COCOLO	CHARACTER OF STORM

### KANSAS Cont'd

6 NE Russell Ellis County	16	1345CST	1.0	50	0	0	3	3	Tornado (F0)
Victoria	16	1345CST			0	0	4	4	Hail (1.75)
Hodgeman County 23 SW Jetmore	16	1347CST	22.0	880	0	2	5	5	Tornado (F3)

A large, multiple-vortex tornado did considerable damage to two farmsteads. Two people received minor injuries. Witnesses reported that the large-scale rotation of the tornado was weak, but the small suction vortices were the primary damage producers. A garage, barn, shed, two abandoned farm houses, and two granaries were completely destroyed. A total of 40 acres of wheat was completely destroyed by hail and the tornado.

Ellis County									
Ellis County 5 N Victoria	16	1350CST			0	0	4	4	Hail (1.75)
Russell County 1 SW Lucas	16	1356CST	1.0	50	0	0	3	3	Tornado (F0)
Ottawa County	10	1220021	1.0	30	U	U	3	3	romado (ro)
Minneapolis	16	1405CST			0	0	3	3	Hail (1.00)
Gove County 1 S Gove	16	1415CST			0	0	0	0	Funnel Cloud
Cheyenne County 8 NE Wheeler	16	1418CST	7.0	20	. 0	0	0	0	Tornado (F0)

A tornado moved northeast across open country and did little or no damage, and then lifted 15 miles northeast of Wheeler at 1425 CST.

Rush County							
2 E Lacrosse	16	1430CST	0	0	4	4	Hail (1.75)
Russell County 1 N Bunker Hill	16	1435CST	0	0	4	4	Hail (1.75)
Finney County			_			-	• •
2 S Holcomb Russell County	16	1436CST	0	0	0	0	Hail (0.75)
_5 N Russell	16	1440CST	0	0	3	3	Hail (1.00)
Haskell County 5 N Sublette	16	1440CST	0	0	0	0	Funnel Cloud
Rush County	10		-	·	·	v	1 dames crode
5 E Liebenthal	16	1442CST	0	0	4	4	Hail (1.75)
Wichita County 1 S Leoti	16	1444CST	0	0	4	4	Hail (1.00)
Hodgeman County							•
12 NW Jetmore	16	1445CST	0	0	0	4	Hail (1.00)
Wichita County Marienthal	16	1453CST	0	0	4	4	Hail (1.00)
Finney County			•	_	•	•	• •
8 SSW Garden City	16	1454CST	0	0	0	0	Hail (1.50)
Cloud County							
Miltonvale	16	1456CST	0	0	4	4	Hail (1.75)
Wichita County		4500000	•			_	
5 SW Leoti Finney County	16	1500CST	0	0	4	4	Hail (1.50)
1 W Garden City	16	1502CST	0	0	0	0	Hail (1.75)
Ness County		1500.000	•	•	•	_	• •
7 SE Ness City Bourbon County	16	1508CST	0	0	3	3	Hail (0.75)
10 N Fort Scott	16	1515CST	0	0	0	0	Hail (0.75)
Clay County		4.540.000			•	_	
1 S Clifton 6 W Clay Center	16 16	1518CST 1522CST	0	0	3 0	3	Hail (0.75) Funnel Cloud
o ii cay center	10	IJLLCO I	v	U	J	v	i unito Cioqu

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	AATED NGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL	רבים סשמכר ביי	<u>0.000,000</u> —≻	ပထဝေးဟ	CHARACTER OF STORM

#### KANSAS Cont'd

Harper County									
Danville	16	1525CST			0	0	0	0	Hail (0.75)
Clay County									, ,
7 E Longford	16	1530CST			0	0	3	3	Thunderstorm Winds (G60)
Bourbon County					_	_	_	_	
_10 NNE Fort Scott	16	1534CST			0	0	0	0	Hail (1.00)
Clay County		4545000			_		•		T 101 1
5 E Clay Center	16	1545CST			0	0	0	0	Funnel Cloud
Rush County	•	1550000			^	^			II '1 (0.00)
2 W Lacrosse	16	1550CST			0	0	4	4	Hail (0.75)
Sumner County	10	1 <i>EEE</i> (100°T)	0.5	50	^	^	^	Λ	T1- (FO)
1 WNW Conway	16	1555CST	0.5	50	0	0	0	0	Tornado (F0)
Springs Weshington County									
Washington County Linn	16	1601CST			Λ	Λ	2	2	Hail (0.75)
Linn	16	1601CST			0	0	3	3	Thunderstorm Winds (G52)
Sherman County	10	1001C31			U	U	,	3	Thunderstoff Winds (G32)
8 NW Goodland	16	1607CST	1.0	10	0	0	0	0	Tornado (F0)
Summer County	10	1007 CD1	1.0	10	v	v	U	U	Tolliado (10)
3 NE Conway	16	1609CST	9.0	100	0	0	4	0	Tornado (F1)
Springs	10	1007001	<b>7.0</b>	100	v	•	•	•	101111110 (1 1)
-Pr									

A tornado damaged trees, outbuildings and electric lines as it traveled from 3 miles northest of Conway Springs to 1.5 miles south of Clearwater. The tornado lifted at 1625 CST.

Rush County 2 S Lacrosse	16	1612CST			0	0	0	0	Hail (0.75)
Sherman County 15 NW Goodland	16	1612CST	1.0	10	0	0	0	0	Tornado (F0)
Washington County 5 NE Clifton	16	1615CST			0	0	3	3	Hail (0.75)
Sherman County Ruleton	16	1615CST			0	0	4	4	Hail (1.00)
Washington County 3 E Greenleaf	16	1616CST			0	0	3	3	Hail (1.00)
Graham County 9 SE Hill City	16	1618CST			0	0	4	4	Hail (1.75)
Cloud County 2 E U.S. Highway	16	1620CST			0	0	3	3	Hail (0.75)
81 & KS Highway Sedgwick County	24								
2 E Clearwater	16	1625CST	20.0	200	0	0	6	0	Tornado (F3)

A tornado touched down in Sumner County and lifted near the county line. A second tornado touched down 2 miles east of Clearwater at 1625 CST and traveled to 9 miles southeast of Wichita. It danced across the southern sections of the Wichita metropolitan area damaging at least 20 homes and causing almost \$1 million in property damage. What is ironic about this tornado is that as it came through Sedgwick County it almost mirrored the track of the violent tornado that had occurred just three weeks earlier on April 26th.

Riley County 4 NW Leonardville	16	1626CST			0	0	0	0	Funnel Cloud
Hamilton County 2 W Syracuse Sherman County	16	1627CST			0	0	0	4	Hail (0.75)
7 N Ruleton 8 N Goodland	16 16	1630CST 1632CST	1.0	10	0	0	0 4	0	Tornado (F0) Hail (1.00)
Marshall County Waterville Barton County	16	1635CST			0	0	0	0	Thunderstorm Winds (G55)

MAY 1991

		TIME			NO. PER	OF SONS	ESTI!	MATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Kirre	CHACLE I	<b>√−∞</b> m00×0	COCOON	CHARACTER OF Storm
KANSAS Cont'd									
1 W Great Bend 2 W Hoisington	16 16	1638CST 1638CST	2.0 2.0	100 100	0	0	3 4	3	Tornado (F1) Tornado (F1)
Hamilton County 5 W Syracuse	16	1640CST			0	0	0	0	Hail (1.75)
Marshall County 6 S Marysville	16	1655CST			0	0	0	0	Hail (1.50)
Barton County Galatia	16	1700CST			0	0	4	4	Hail (1.75)
Rawlins County 15 SW Atwood	16	1700CST			0	0	3	3	Hail (0.75)
Sedgwick County 10 ESE Wichita	16	1701CST			0	0	4	0	Hail (4.00)
	The	ere were nui	nerous rep	orts of go	lf bal	l- to l	oasebal	ll-size	hail.
Barton County 5 N Hoisington	16	1706CST			0	0	3	3	Hail (1.00)
Russell County 5 E Milberger	16	1711CST			0	0	4	4	Hail (1.75)
Barton County 5 N Hoisington	16	1711CST	1.0	50	0	0	4	3	Tornado (F0)
V	A t		n spawned	three smal	l ton	nadoe	s near	Great	Bend and Hoisington. Most of the
Russell County 10 S Russell Barton County	16	1714CST			0	0	3	3	Hail (0.75)
1 W Hoisington 5 W Claflin Butler County	16 16	1715CST 1715CST			0	0	<b>4</b> <b>3</b>	<b>4 3</b>	Hail (1.75) Hail (1.00)
1 E Andover 5 ESE Andover	16 16	1715CST 1720CST	1.0	50	0	0	3 0	0	Hail (1.75) Tornado (F0)
	Spo 9 m	tters continuiles southea	ued to folk st of Wich	ow the par	ent tl	hunde	rstorm	after	the Sedgwick County tornado lifted
1 S Augusta Barton County	16	1725CST	1.0	50	0	0	0	0	Tomado (F0)
5 NE Ellinwood Russell County	16	1728CST	1.0	50	0	0	3	3	Tornado (F0)
2 S Dorrance 1 W Bunker Hill Butler County	16 16	1730CST 1735CST			0	0	4	4 3	Hail (1.75) Hail (0.75)
El Dorado	16	1742CST			0	0	5	0	Hail (4.50)
	Hai buil	l, ranging fi dings and v	rom golf b ehicles.	all- to gra	pefru	it-size	, pour	nded th	ne city causing extensive damage to
Rice County 6 N Chase	16	1745CST	1.0	50	0	0	3	3	Tornado (F0)
Butler County 7 S Potwin	16	1745CST	1.0	50	0	0	0	0	Tornado (F0)
2 E Towanda Rawlins County	16	1749CST	<del>-</del>	- <del>-</del>	Ŏ	Ŏ	3	Ŏ	Hail (1.75)
Atwood Haskell County	16	1800CST			0	0	3	3	Hail (0.75)
7 S Satana	16	1803CST			0	0	0	0	Funnel Cloud

Meade County

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	ATED AGE	·
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLEO	Om20CC_2-	4-800 mg->	COCOTA	CHARACTER OF STORM

### KANSAS Cont'd

10 N Plains	16	1817CST			0	0	0	<b>5</b> .	Hail (1.00)
•	Nic	kel-size hail o	damaged v	vheat, m	ilo, a	nd alf	alfa cr	ops.	
Clay County Wakefield	16	1820CST			0	0	3	3	Hail (0.75)
Butler County 10 N El Dorado	16	1820CST	1.0	50	0	0	0	0	Tornado (F0)
Clay County Fact	16	1830CST		٠	0	0	4.	3.	Thunderstorm Winds (G60)
Riley County 2 E Leonardville	16	1830CST			0	0	0	0	Thunderstorm Winds (G60)
Clay County Clay Center	16	1837CST			0	0	4	3	Thunderstorm Winds (G60)
Marshall County Blue Rapids Frankfort	16 16	1840CST 1845CST	•		0	0	0	4	Hail (1.00) Hail (1.50)
Greenwood County Teterville	16	1850CST			0	0	0	0	Hail (0.75)
Sherman County 12 SE Goodland	16	1915CST			0	0	3	3	Hail (0.75)
Ottawa County 5 E Bennington	16	1930CST			0	0	3	3	Hail (0.75)
Greenwood County Teterville	16	1930CST			0	0	0	0.	Thunderstorm Winds (G58)
Dickinson County 2 NW Abilene	16	1935CST			0	0	4	3	Thunderstorm Winds (G65)
	Sev	ere thunderstening. Several	orms move I farm bui	ed across lding we	nort re da	h-cen maged	tral an I north	d centi	ral Kansas in the late afternoon and f Abilene.
Ottawa County									
Bennington Thomas County	16	1940CST			0	0	3	3	Thunderstorm Winds (G60)
4 E Brewster Lyon County	16	1943CST			0	0	3	3	Hail (0.75)
Emporia Geary County	16	1955CST			0	0	4	0	Hail (1.00)
5 S Junction City Lyon County	16	2000CST			0	0	0	0	Hail (1.50)
Olpe Riley County	16	2000CST			0	0	0	3	Hail (1.00)
Manhattan Manhattan	16	2000CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	ınderstorm wi	nds uproot	ted trees	and d	amage	d hom	es and	power lines with gusts near 60 mph.
Lyon County Neosho Rapids Osage County	16	2005CST			0	0	0	0	Hail (0.75)
Osage City Melvern Lake	16 16	2030CST 2035CST			0	0	0	0	Hail (0.75) Funnel Cloud
Coffey County 4 NE Burlington	16	2040CST			0	0	0	0	Thunderstorm Winds (G60)
1 ND Daningwa	Lar	ge hail damag	ged crops	near Bur					ust was reported at the Wolf Creek
A NITE Do 10- A-		ver Plant.			^	^	^	~	II. 11 (1.00)
4 NE Burlington		2040CST	÷		0	0	0	3	Hail (1.00)
Pottawatomie County	y								

MAY 1991

		TIME			NO. PER	OF SONS	EST II	AATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-LL	OMBCC-Z-	A-COLLIDO->	CECOPA	CHARACTER OF STORM

KANSAS Cont'd							
Havensville	16	2040CST	0	0	4	0	Wind Damage
		arge tree was blown down and de a and near Onaga.	stroye	ed a sh	ed. O	ther or	atbuildings were blown down in the
Wamego	16	2045CST	0	0	0	0	Thunderstorm Winds (G52)
Douglas County Eudora	16	2110CST	0	0	0	0	Hail (1.00)
	Sm	all tree limbs and lawn furniture ompanied the hail.	e wer	e blov	vn aro	und by	y wind gusts to near 50 mph that
Nemaha County Goff	16	2130CST	0	0	5	0	Wind Damage
	on i	Goff, the roofs were torn off the A the northern side of the bank colla tion of the American Legion roof	ipsed	. Witi	nesses	and the reporte	city Hall buildings. A brick wall ed seeing a car lifted up and a large
Douglas County Clinton Lake	16	2145CST	0	0	0	0	Hail (1.50)
Chase County Clements	16	2210CST	0	0	0	0	Hail (0.75)
Marshall County 3 SE Marysville	16	2210CST	0	0	0	0	Hail (1.50)
Nemaha County Centralia	16	2230CST	0	0	0	3	Hail (1.00)
Seward County Liberal	21	1900CST	0	0	7	0	Flash Flood
	floo relo Spe	tionary thunderstorms dumped 8. and in 45 years. More than 35 how cated. The Red Cross provided a cial pumping equipment was brong caught in the streets. The floor	mes v ssista ought	vere dange in ce and in to	amage d some remov	d and a e reside e the v	ours on Liberal, causing the worst many people had to be temporarily ents could only be reached by boat. water. Fish, mostly catfish, were 1 1300 CST on the 23rd.
Morton County 1 S Elkhart	23	1608CST	0	0	0	0	Hail (0.75)
5 NNE Elkhart 1.25 S Elkhart	23 23	1625CST 1710CST	ŏ	Ŏ	0	ŏ	Funnel Cloud Funnel Cloud
Hamilton County Syracuse Syracuse	23 23	1730CST 1730CST	0	0	4 4	5 5	Hail (0.75) Thunderstorm Winds (G60)
	Onl loss	y minor property damage was rep due to the hail and strong winds	orted	, howe	ever, 20	000 acı	res of crop land suffered 90 percent
Grant County 15 NE Ulysses Finney County	23	1825CST	0	0	0	0	Thunderstorm Winds (G60)
Garden City Garden City Morton County	23 23	1843CST 1845CST	0	0	0 4	0	Funnel Cloud Hail (1.00)
Elkhart 4 SSW Rolla Stanton County	24 24	1510CST 1522CST	0	0	3 0	0	Hail (1.00) Hail (1.00)
3 WSW Johnson Morton County	24	1550CST	0	0	0	0	Hail (1.75)
4 SSW Rolla Stanton County	24	1612CST	0	0	0	0	Hail (1.50)

MAY 1991

		TIME			NO.	OF SONS	EST IN	MATED NGE	
PLACE	DA-E	LOCAL	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	- STOREO		CECTO	CHARACTER OF STORM

### KANSAS Cont'd

12 11 101 10 COM C											
7 S Johnson	24	1640CST	0	0	5	5	Hail (1.75)				
	Go	If ball-size hail covered the road	sout	n of Jo	hnsor	and i	n the city of Johnson.				
Morton County 1 S Rolla	24	1755CST	0	0	0	4	Hail (1.75)				
Ford County  1 S Dodge City	24	1911CST	0	0	0	0	Thunderstorm Winds (G60)				
Gray County Cimarron Cimarron	24 24	1915CST 1915CST	0	0	0	0	Thunderstorm Winds (G60) Hail (0.75)				
	Gu	nted cars in Cimarron.									
Stevens County Hugoton	24	1925CST	0	0	0	0	Hail (1.75)				
Clark County 2 E Minneola	24	1928CST	0	0	0	0	Hail (0.75)				
Hodgeman County 14 WNW Jetmore	24	1940CST	0	0	0	0	Thunderstorm Winds (G55)				
Stevens County Moscow	24	1945CST	0	0	0	0	Thunderstorm Winds (G55)				
Haskell County 10 N Sublette	24	2020CST	0	0	0	4	Hail (1.75)				
	Tw	Two fields were partially destroyed by the large hail.									
Shawnee County 3 SW Auburn	25	1600CST	0	0	5	0	Thunderstorm Winds (G70)				
	A n	nobile home was destroyed with home at the time of the storm,	debrand t	is thro here w	wn fro	om sou o injur	thwest to northeast. There was no ies.				
Pauline	25	1600CST	0	0	0	0	Hail (0.75)				
Douglas County Baldwin Eudora	25 25	1630CST 1635CST	0	0	0 4	0	Hail (1.00) Thunderstorm Winds (G60)				
	Strong winds blew fences over and knocked down some trees on the southern side of Eudora.										
Reno County Sylvia	26	0747CST	0	0	0	0	Hail (0.75)				
Barton County 1 N Great Bend Claflin	26 26	0748CST 0811CST	0	0	3 4	3	Hail (0.75) Hail (1.75)				
Reno County 10 WSW	26	0815CST	0	0	0	0	Hail (0.75)				
Nickerson Rice County 2 N Lyons Fileworth County	25	0836CST	0	0	4	4	Hail (1.75)				
Ellsworth County Lorraine	26	0840CST	0	0	3	3	Hail (0.75)				
Rice County 10 E Lyons	26	0900CST	0	0	3	3	Hail (0.75)				
McPherson County McPherson Canton Canton Canton	26 26 26 26	0929CST 0945CST 0950CST 1000CST	0 0 0	0 0 0	3 4 3 4	3 4 3 4	Hail (0.75) Hail (1.75) Hail (1.75) Flash Flood				
~*************************************			~	~	*	•					

MAY 1991

		TIME			NO.	OF SONS	EST IN	AATED NGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMO	OTTOCCE		CEOPO	CHARACTER OF STORM

### KANSAS Cont'd

Severe thunderstorm produ Rice, southern Ellsworth,	uced large hall and heavy rain.  and McPherson Counties.	I'wo to three inches of rain fell aci	ross
	·		

	Sev Ric	ere thunderstorm produced large e, southern Ellsworth, and McPh	hail a ersor	ınd hea Cour	avy rai ities.	n. Tw	to to three inches of rain fell across			
Marion County 4 SW Lehigh Shawnee County	26	1000CST	0	0	0	0	Hail (0.75)			
1 S Auburn 3 NE Auburn	26 26	1135CST 1135CST	0	0	0	0	Hail (1.00) Thunderstorm Winds (G65)			
	Stro	ong winds knocked down trees in	nty.							
Douglas County 10 SW Lawrence	26	1140CST	0	0 .	0	0	Thunderstorm Winds (G65)			
Osage County Melvern Lake	26	1145CST	0	0	0	0	Thunderstorm Winds (G65)			
Shawnee County 5 SE Topeka	26	1150CST	0	0	0	0	Thunderstorm Winds (G60)			
Douglas County Lawrence	26	1200CST	0	0	4	0	Wind Damage			
•	Large trees were blown down, windows broken and roofs damaged as winds over 60 mph blathrough Lawrence. One large tree crashed through the roof of a duplex, but there were injures.									
Baldwin	26	1205CST	0	0	4	0	Thunderstorm Winds (G58)			
	Tree	es and power lines were downed	by th	under	storm	winds.				
Franklin County Ottawa	26	1214CST	0	0	4	0	Thunderstorm Winds (G60)			
	Thu line	nderstorm winds blew a shed over swere blown down in Ottawa.	er on	Sand	Creek	Road	west of Ottawa. Trees and power			
Leavenworth County Southern Portion Wyandotte County	26 26	1220CST 1220CST	0	0	0	0	Thunderstorm Winds (G60) Thunderstorm Winds (G70)			
	Stro	ng thunderstorm winds blew tree	s and	l powe	er lines	s down	all over Wyandotte County.			
Johnson County			_		_	_	- 1 · · · · · · · · · · · · · · · · · ·			

Leavenwor	th County	
Southern		26

Johnson County
Gardner
Wyandotte County Kansas City

•	1	0	0	3	0	Thunderstorm Winds (G65)
•	1	0	0	4	0	Thunderstorm Winds (G70)

The roof was blown off a brick building with half the roof found later on an adjacent street.

Johnson County Overland Park

26 1250CST

0 3 0 Thunderstorm Winds (G65)

Strong thunderstorm winds blew several trees down across Johnson County. A large tree fell on an automobile, killing the man inside. (M23V)

Leavenworth County 1 W Tonganoxie

26 1255CST

0 5 0 0

Thunderstorm Winds (G70)

Strong winds blew the roof off two buildings and damaged some farm vehicles.

Butler County 1 E Towanda

26 1553CST

Hail (1.75)

MAY 1991

		TIME			NO.	OF SONS	ESTIM DAMA	AIED	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	N URED	o.ccOomer->	COROPA	CHARACTER OF STORM
KANSAS Cont'd									
Benton 1 W El Dorado	26 26	1553CST 1625CST			0	0	0	0	Hail (1.75) Hail (2.50)
Stanton County 8 NE Johnson	26	1632CST			0	0	0	4	Hail (1.75)
Grant County 3 WNW Ulysses	26	1655CST	15.0	400	0	0	4	Ö	Tornado (F1)
	A to 0.2 The	ornado trave 5-mile wide tornado wa	eled east-ne , but relati as seen fro	ortheast to vely weak om as far a	10 m . A s way	iles n hed, v as Gra	orth-no vindmi ay Cou	rtheas ii and nty, a	t of Hickok. The tornado was abou damage to the roof of a pump house bout 50 miles east.
5 N Ulysses	26	1708CST			0	0	0	0	Hail (1.75)
Butler County Elbing 7 NW El Dorado	26 26	1720CST 1805CST	3.0	50	0	0	0	0	Hail (1.75) Tornado (F0)
	A to El l par	ornado trave Dorado at 1 ent thunders	eled from 7 818 CST. storm.	7 miles not This was	rthwe s one	st of l of tw	El Dora o smal	ado at 1 torna	1805 CST, to 10 miles northwest on adoes that developed from the same
Sherman County Kanarado Kanarado Edwards County	26 26	1810CST 1812CST			0	0	<b>5 5</b>	5 5	Hail (2.50) Hail (3.00)
Edwards County 2 SE Belpre	26	1815CST			0	0	0	0	Hail (1.00)
Stafford County 10 S St. John	26	1816CST			0	0	0	4	Hail (1.00)

Sherman County Kanarado Kanarado Edwards County	26 26	1810CST 1812CST			0	0	5 5	5 5	Hail (2.50) Hail (3.00)
2 SE Belore	26	1815CST			0	0	0	0	Hail (1.00)
Stafford County 10 S St. John	26	1816CST			0	0	0	4	Hail (1.00)
Sherman County 7 SW Goodland Ruleton	26 26	1818CST 1818CST			0	0	0	0	Funnel Cloud Hail (0.75)
7 SW Goodland 6 S Ruleton	26 26	1820CST 1822CST			0	0	5 5	5 5	Hail (2.00) Hail (2.00)
6 SSW Ruleton 9 S Ruleton	26 26	1822CST 1825CST	1.0	50	0	0	5 0	5 0	Hail (2.50) Tornado (F0)

Another small tornado touched down briefly, but caused no damage.

Stafford County									
10 S St. John	26	1827CST			0	0	0	4	Hail (1.75)
Sumner County		4000000				•		•	TT 11 (0.00
Caldwell	26	1832CST			0	0	0	0	Hail (0.75)
Sherman County 8 SSW Goodland	26	1835CST			0	0	0	0	Funnel Cloud
Sedgwick County	20				Ŭ	•		•	
Clearwater	26	1839CST			0	0	0	0	Hail (1.00)
Sherman County	~~	10.40.000	• •	50	^	^	^	^	T 1 (TO)
3 S Goodland	26	1840CST	1.0	50	Õ	0	0	0	Tomado (F0) Hail (0.75)
Goodland	26	1841CST			Ō	Ō	Ō	0	Hail (0.75)
Kingman County									
Cunningham	26	1845CST			0	0	0	0	Hail (3.00)
Sherman County									` '
Goodland	26	1851CST			0	0	0	0	Hail (1.00)
Pottawatomie County									
Westmoreland	26	1855CST			0	0	0	0	Hail (1.00)
Sumner County		-							` '
3 S Clearwater	29	1900CST			0	0	0	0	Hail (0.75)
Reno County					•	•	•	•	(00,0)
Sylvia	26	1902CST			0	0	0	0	Hail (0.75)
Arlington	<b>2</b> 6	1904CST			ŏ	ŏ	ŏ	ŏ	Hail (1.75)
· · · · · · · · · · · · · · · · · · ·		170,001			~	•	_	-	(1115)

MAY 1991

		TIME			NO.	OF SONS	EST II	AATED AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-L-amo	באספריב	~- <del></del>	CECOEN	CHARACTER OF STORM

### KANSAS Cont'd

Butler County El Dorado Lake	26	1905CST	4.0	50	0	0	0	0	Tornado (F0)			
	Wi thu poi	inderstorm.	ted as ma However,	iny as only two	eight of th	small ne torn	torna adoes	adoes reflec	that came from the same parent ted an actual beginning and ending			
Barton County Ellinwood Stafford County	26	1910CST			0	0	3	3	Hail (0.75)			
Stafford County 9 SE Macksville	26	1915CST			0	0	0	4	Hail (1.75)			
Sherman County 6.5 SW Goodland	26	1923CST			0	0	0	0	Hail (1.25)			
Reno County 1 W Partridge 2 W Willowbrook	26 26	1957CST 2004CST			0	0	0	0	Hail (0.75) Funnel Cloud			
Gove County Grinnel	26	2015CST	•		0	0	4	5	Hail (3.00)			
Stafford County 10 NE St. John	26	2019CST			0	0	0	4	Hail (2.50)			
Dickinson County Herington Lake	26	2020CST			0	0	3	3	Thunderstorm Winds (G52)			
Reno County 1 S Hutchinson	26	2025CST			0	0	0	0	Hail (0.75)			
Butler County Chelsea	26	2030CST	0.5	50	. 0	0	3	0	Tornado (F0)			
	A small tornado took the roof off the fire department building.											
Chase County												
Cedar Point Matfield Green Greenwood County	26 26	2030CST 2033CST		· wit	0	0	0	0	Hail (0.75) Hail (0.75)			
11 NW Eureka	26	2055CST			0	0	0	0	Thunderstorm Winds (G60)			
	A sheriff's car was blown off the road.											
Reno County Nickerson Butler County	26	2125CST			0	0	0	0	Hail (0.75)			
1 E Cassoday	26	2130CST			0	0	0	0	Flash Flood			
	Six	inches of rai	n fell in o	ne hour,	flood	ing ro	ads an	id a ca	mpground.			
Rice County	01	0105000		N.	^		•	•	II 1 40 80			
Sterling Reno County	26	2135CST			0	0	3	3	Hail (0.75)			
4 N Hutchinson 6 S Sterling Sheriden County	26 26	2135CST 2135CST			0	0	0	0	Hail (1.75) Hail (0.75)			
5 N Parks Rice County	26	2140CST			0	0	0	3	Hail (1.00)			
3 E Sterling Sterling Logan County	26 26	2145CST 2145CST			0	0	3 3	3	Hail (0.75) Hail (1.00)			
Oakley Gove County	26	2147CST			0	0	0	0	Hail (0.75)			
4 S Grainfield Quinter Quinter	26 26 26	2148CST 2150CST 2200CST			0 0 0	0 0 0	4 4 4	5 5 5	Hail (1.50) Hail (1.25) Hail (3.00)			

									MAY 1991
		TIME			NO.	OF SONS	EST IN	AATED AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I LLED	~270amo	~- <del></del>	COCODO	CHARACTER STORM
KANSAS Cont'd	l								
Trego County Collyer	26	2201CST			0	0	3	4	Hail (1.50)
McPherson County Inman	26	2204CST			0	0	3	3	Hail (0.75)
Rice County Sterling	26	2205CST			0	0	3	3	Hail (1.00)
Reno County 6 S Inman 6 S Sterling	26 26	2205CST 2205CST			0	0	0	0	Hail (0.75) Hail (1.00)
Trego County Voda	26	2220CST			0	0	0	0	Hail (0.75)
Osborne County Natoma	26	2225CST			0	0	4	4	Hail (1.75)
	26	2240CST			0	0	3	4	Hail (1.50)
Russell County Waldo	26	2302CST			0	0	3	3	Hail (0.75)
Luray Lake Wilson	26 26	2305CST 2324CST			0	0 12	<b>4 5</b>	4 2	Hail (1.75) Thunderstorm Winds (G61)
	Sev Car	ere thunders	storms pro Twelve pe	duced high ople receiv	n win ved n	ds tha ninor	t overl injurie	turned s durir	several campers at the Lake Wilson ng the incident.
Ellis County 8 SSE Ellis	26	2339CST			0	0	3	4	Hail (1.50)
Russell County Dorrance	26	2345CST			0	0	4	4	Hail (2.75)
Ellis County 9 S Victoria	27	0005CST			0	0	3	4	Hail (1.50)
Ellsworth County 4 SE Wilson	27	0010CST			0	0	3	3	Thunderstorm Winds (G52)
Morris County Council Grove	27	0215CST			0	0	5	0	Thunderstorm Winds (G80)
	Wii	nd gusts wer	e recorded	at the Cou	ıncil (	Grove	Reser	voir, b	ut only minor damage was reported.
Osage County Overbrook Douglas County	27	0345CST			0	0	0	0	Thunderstorm Winds (G60)
Clinton Lake	27	0303CST			0	0	0	0	Thunderstorm Winds (G65)
Shawnee County Auburn Sherman County	27	0235CST			0	0	0	0	Thunderstorm Winds (G58)
5 E Kanarado Kanarado	28 28	1700CST 1710CST			0	0	0 5	0 5	Funnel Cloud Hail (0.75)
Cheyenne County 8 W St. Francis	28	1720CST			0	0	0	0	Funnel Cloud
Sherman County 3 N Ruleton 12 NW Goodland Goodland (GLD)	28 28 28	1720CST 1730CST 1737CST			0 0 0	0 0 0	0 5 5	0 4 4	Funnel Cloud Hail (0.75) Thunderstorm Winds (G77)
		roof of a m		e was blow	n off	f, seve	ral tre	es wer	e blown onto roofs, and power lines

0 0

3

3

Hail (0.75)

Hail (0.75)

Goodland Cheyenne County Bird City

28 1745CST

28 1800CST

MAY 1991

		TIME			NO. PER	OF SONS	ESTI!	ATED	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLMO	OMZOC.Z-		CEOPO	CHARACTER STORM

### KANSAS Cont'd

Wallace County 12 S Sharon Springs	28 A s	1825CST	1.0	50 own in a	0 n ope	0 on field	<b>0</b>	0	Tornado (F0)					
					<u>1</u>									
Thomas County 2 E Brewster Hamilton County	28	1830CST			0	0	0	0	Thunderstorm Winds (G58)					
6 S Syracuse	28	1835CST			0	0	0	0	Thunderstorm Winds (G60)					
Stanton County 14 NW Johnson Decatur County	28`	1840CST			0	0	0	0	Thunderstorm Winds (G60)					
8 SW Oberlin	28	1845CST			0	0	4	0	Thunderstorm Winds (G58)					
	Sev	Several homes sustained roof damage and broken windows in and near Oberlin.												
Oberlin Compte	28	1845CST			0	0	4	0	Thunderstorm Winds (G58)					
Stanton County Northwestern Corner	28	1857CST			0	0	0	0	Thunderstorm Winds (G70)					
Hamilton County Syracuse Logan County 10 S Russell	28	1900CST			0	0	0	0	Thunderstorm Winds (G60)					
Springs Stanton County	28	1925CST			0	0	3	0	Thunderstorm Winds (G65)					
Manter Osborne County	28	1955CST			0	0	0	0	Hail (1.00)					
Osborne 6 S Osborne 5 S Osborne	28 28 28	2210CST 2228CST 2245CST			0 0 0	0 0 0	3 4 4	3 4 4	Thunderstorm Winds (G60) Hail (2.75) Hail (1.75)					
	Lar	ge hail and st	rong wind	ls produc	ed da	mage	to hor	nes in	and near Osborne.					
Barton County Galatia Ellis County	29	1607CST			0	0	4	4	Hail (1.25)					
Schoenchen Meade County	29	1625CST			0	0	4	4	Hail (0.75)					
9 SW Meade Russell County	29	1634CST			0	0	0	0	Hail (1.00)					
1 S Russell Meade County	29	1638CST			0	0	3	<b>3</b> .	Hail (0.75)					
Fowler Fowler	29 29	1640CST 1640CST			0	0	0	5 5	Hail (1.00) Thunderstorm Winds (G60)					
Stevens County Hugoton	29	1652CST			0	0	0	0	Thunderstorm Winds (G60)					
Russell County 7 SW Russell	29	1657CST			^	^	4	4	, ,					
Paradise	29	1702CST	,		0	0	4	4 4	Hail (1.75) Hail (1.75)					
Luray	29	1707CST	•		Ŏ	0	3	3	Hail (0.75)					
Waldo Ford County	29	1707CST			0	0	4	4	Hail (1.75)					
3 S Dodge City	29	1708CST			0	0	5	5	Hail (2.00)					

A severe thunderstorm made its way through west-central Ford County dropping 2.00-inch-diameter hail. The first hail report was at 1708 CST of 1.00-inch hail, 3 miles south Dodge City. At 1712 CST, golf ball-size hail fell in the southern part of Dodge City. At 1714 CST, the National Weather Service Office in Dodge City reported 2.00-inch-diameter hail. The hail dented many cars and damaged farm crops.

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAMA	ATED AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	סשאכריבייי	<b>≺-เชศาบ0.20 บ</b>	COCOS	CHARACTER OF STORM

## KANSAS Cont'd

Russell County 2 S Russell Russell Airport 1 NW Russell 3 S Russell	29 29 29 29	1715CST 1719CST 1725CST 1725CST	0 0 0 0	0 0 0 0	4 3 4 3	4 3 4 3	Hail (1.75) Hail (0.75) Hail (1.75) Hail (0.75)
Osborne County 8 S Osborne	29	1742CST	0	0	4	4	Hail (1.75)
Russell County Dorrance	29	1743CST	0	0	3	3	Hail (0.75)
Ford County Kingsdown	29	1745CST	0	0	0	0	Hail (1.50)
Osborne County 2 E Osborne	29	1755CST	0	0	3	3	Hail (0.75)
Russell County Lake Wilson	29	1755CST	0	0	4	0	Thunderstorm Winds (G61)
	Stro	ong winds caused minor damage	along	the so	outhern	n shore	of Lake Wilson.
Osborne County Downs	29	1808CST	0	0	4	4	Hail (1.75)
Russell County Russell Airport	29	1808CST	0	0	4	0	Thunderstorm Winds (G80)
City Hodgeman County	29	1810CST	0	0	0	0	Hail (1.00)
	29	1811CST	0.	0	0	0	Hail (0.75)
2 N Liehenthal Lincoln County	29	1815CST	0	0	0	0	Funnel Cloud
2 SE Sylvan Grove Ellis County	29	1819CST	0	0	4	4	Hail (1.75)
Schoenchen	29	1820CST	0	0	4	4	Hail (2.00)
Osborne County 8 W Osborne Puggell County	29	1825CST	0	0	4	4	Hail (1.75)
Russell County Russell	29	1825CST	0	0	3	3	Flash Flood
	Floo	oding occurred between 1825 and	ł 200	0 CST	•		
Grant County 2 W Ulysses Ellsworth County	29	1827CST	0	0	0	4	Hail (1.75)
5 N Ellsworth Wilson	29 29	1830CST 1835CST	0	0	4 3	4 3	Hail (1.75) Hail (0.75)
Smith County 3 S Highways 9 and 281	29	1838CST	0	0	4	4	Hail (4.50)
Russell County 6 S Russell	29	1840CST	0	0	3	3	Flash Flood
	Two	to three inches of rain fell acros	s sou	thern	Russel	l Coun	ty. A few roads were flooded i

Two to three inches of rain fell across southern Russell County. A few roads were flooded for a short time in Russell, and Highway 281 was closed from 1840 CST to 0230 CST.

Ellis County 5 SE Ellis Lincoln County	29	1840CST	0	0	0	0	Hail (0.75)
Denmark	29	1845CST	0	0	3	3	Hail (0.75)

MAY 1991

		TIME			NO. PERS	OF SONS	ESTIM DAMA	AATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	סשוניייא	CHIZCLZ-	<b>≺-ख्याच0ळ</b> ७	השסדמ	CHARACTER OF STORM

#### KANSAS Cont'd

Mana Commerc							
Ness County Ness City 5 E Ness City	29 29	1850CST 1910CST	0 0	0 0	3 0	3 0	Hail (0.75) Hail (0.75)
Ottawa County Delphos	29	1915CST	0	0	3	3	Thunderstorm Winds (G52)
Ness County 5 N Bazine Saline County	29	1919CST	0	0	0	0	Hail (0.75)
Saline County 1 N Brookville Ottawa County	29	1925CST	0	0	3	3	Thunderstorm Winds (G52)
Minneapolis Kingman County	29	1940CST	0	0	3	3	Thunderstorm Winds (G60)
Kingman  Keno County	29	2143CST	0	0	0	0	Thunderstorm Winds (G60)
Hutchinson Pretty Prairie	29 29	2150CST 2210CST	0	0	0 3	0	Hail (0.75) Thunderstorm Winds (G60)
	A n	nilking shed was blown down.					
Harvey County Burrton Saline County	29	2225CST	0	0	0	0	Thunderstorm Winds (G58)
Northwestern Portion	30	0015CST	0	0	3	3	Flash Flood
KSZ009-012-014 Arlington Hillsboro	30	0315CST	0	0	5	0	High Winds (G80)

Nonconvective straight-line winds of 50 to 85 mph developed in a 20-mile-wide band. At 0346 CST, roofs were damaged in Hutchinson including the Quality Inn that sustained \$2,500 in damage. In Harvey County, there was extensive tree and power line damage in Burrton, Halstead, Hesston, and Newton between 0340 CST and 0420 CST. Twelve hundred homes were without power in Newton. Strong winds also caused tree and power line damage in Marion County at Burns, Peabody, and Hillsboro.

McPherson County McPherson Pottawatomie County	30	0420CST	0	0	3	3	Hail (0.75)
Wamego Graham County	31	0407CST	0	0	0	0	Hail (0.75)
Bogue	31	1945CST	0	0	3	3	Hail (1.75)
KENTUCKY							
Hardin County	14	1610EST	0	0	0	3	Hail (1.75)
	Tob	acco crops were damaged in Ha	ardin	County	у.		

Jefferson County 14 1715EST 1 2 0 0 Lightning

A 37-year-old man, David Haney, was struck and killed by lightning while playing golf. Two other men were also knocked to the ground and injured. All three were standing under a tree with their umbrellas raised. (M370)

Laurel County 19 1130EST 0 0 4 3 Flash Flood

Over 3.00 inches of rain fell in a short period of time, forcing creeks and streams out of their banks. Several homes and businesses in London were flooded, as well as many streets. One person had to be evacuated.

MAY 1991

		TIME			NO. PER:	OF SONS	ESTIN DAM/	MATED NGE	
PLACE	D B E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLED	סשמכרבה		COCOTO	CHARACTER OF STORM

### KENTUCKY Cont'd

Rockcastle County	19	1130EST	0	0	4	4	Flash Flood			
	rep	storm dumped over 5.00 inches orted damage from high water. n were washed away.	of ra	in arou ddition	und M , over	t. Ve 200 a	rnon. Many homes and businesses acres of tobacco and 1,500 acres of			
Clay County	19	1725EST	0	0	4	4	Flash Flood			
	Hea Tol	avy rains flooded several homes bacco crops in the area were also	and seve	busine erely d	esses i amage	n the d.	Horse Creek and Big Creek areas.			
Bell County	19	1730EST- 1925EST	0	0	4	3	Flash Flood			
	Flo	Flood waters forced the closing of several streets and roads in the Middlesboro area. A crops in the area were also flooded and one woman had to be evacuated from her house.								
Perry County	19	1830EST	0	0	3	0	Flash Flood			
	Hig	h water closed several roads and	l stre	ets in a	and ar	ound .	Ajax and Hardburley.			
Logan County	27	0030CST	0	0	3	0	Flash Flood			
	Hea with	avy thunderstorms flooded parts on h 8 inches of water.	f Ken	tucky l	Highw	ay 431	between Russellville and Adairville			
LOUISIANA										
Madison Parish	01	0000CST-	_	•	_	-	w			
West Carroll Parish	31 01	2400CST 0000CST-	0	0	6	7	Flood			
	31	2400CST	0	0	5	7	Flood			

Madison Parish	01	0000CST-					
MIGHTSOIL LALIZIE	31	2400CST	0	0	6	7	Flood
West Carroll Parish	ÕÎ	0000CST-	•	•	·	•	11000
	31	2400CST	0	0	5	7	Flood
East Carroll Parish	01	0000CST-			_	_	
	31	2400CST	0	0	?	?	Flood
Tensas Parish	01	0000CST-	_	_	_	_	1
M1 D 1:1	31	2400CST	0	0	5	7	Flood
Morehouse Parish	01	0000CST-	0	0		7	171 4
Richland Parish	31 01	2400CST 0000CST-	U	U	6	7	Flood
Richard Larish	31	2400CST	0	0	6	7	Flood
Franklin Parish	õi	0000CST-	·	·	•	•	11000
	31	2400CST	0	0	?	?	Flood
Caldwell Parish	01	0000CST-			_	_	
	31	2400CST	0	0	?	?	Flood
Quachita Parish	01	0000CST-	_	_	-	_	*** 1
TT-1- D-1-L	31	2400CST	0	0	7	6	Flood
Union Parish	01 31	0000CST- 2400CST	0	0	7	5	Flood
Webster Parish	01	0000CST-	U	U	,	,	11000
WOOSCI I MISH	31	2400CST	0	0	5	?	Flood
Winn Parish	ÕĪ	0000CST-	•	•	•	•	11000
	31	2400CST	0	0	5	?	Flood
Natchitoches Parish	01	0000CST-	_	_	_	_	
	31	2400CST	0	0	5	?	Flood
Rapides Parish	01	0000CST-	^	^	,	_	T21 1
	31	2400CST	0	0	6	6	Flood

Torrential rains of 6.00 to 12.00 inches fell over a large area of central and northeastern Louisiana on April 27th and 28th. This deluge occurred in an area that was swamped with 15.00 to 20.00 inches of rain during April. As a consequence, major rivers, such as the Quachita in

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAM/	ATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KI LINO	- X-JOKHO	~- <del>\20</del>	ראסטהע	CHARACTER OF STORM

#### LOUISIANA Cont'd

northeastern Louisiana and the Little River in central Louisiana, were already in flood. In addition, the Red, Quachita, and Black Rivers reached flood stages on May 2nd and 3rd, respectively. Considerable backwater flooding resulted as the numerous tributaries of these rivers tried to drain. Many areas of northeastern and central Louisiana remained flooded until the latter part of May. A parish-by-parish damage summary follows based on a disaster survey conducted by the Louisiana Office of Emergency Preparedness, unless otherwise stated:

Madison Parish: Seventy-one homes and five businesses were flooded in the towns of Tallulah, Richmond, and Waverly. Total losses to private and public (such as roads, bridges, drainage systems) property was \$1,753,000. In addition, some 122,000 acres of farmland was inundated for an additional loss of \$12 million.

West Carroll Parish: One hundred thirty-nine homes were flooded by backwater flooding from Bayou Boeuff, mainly near Goodwill. Total private and public losses were \$450,000. Some 54,000 acres of farmland were inundated for a further loss of \$5,400,000.

East Carroll Parish: Newspaper accounts indicated that about 100 homes were flooded in the Lake Providence area and in the southern part of this parish. Some 75,000 acres of farmland were inundated. No damage estimates were available.

Tensas Parish: Only three homes were flooded. Total private and public losses were \$83,000. Some 67,500 acres of farmland were inundated for an additional loss of \$6,750,000.

Morehouse Parish: Backwater flooding from Bayou Bartholomew, including the towns of Bonita and Galion, inundated 721 and 23 businesses were inundated by Total private and public losses were \$2,525,891. Some 257,800 acres of farmland were flooded in this largely agricultural parish for an additional loss of \$25,780,000.

Richland Parish: Backwater flooding by the Big Creek and Bayou Boeuff inundated 410 homes and 9 businesses, mainly in the towns of Rayville and Delhi. Total private and public losses were \$587,190. Some 124,000 acres of farmland were flooded for an additional loss of \$12,400,000.

Franklin Parish: Newspaper accounts indicate that backwater flooding inundated about 100 homes along the Big Creek, Boueff River, Turkey Creek Lake, and Bayou Madison. In addition, some 50,000 acres of farmland was flooded. No damage estimates were available.

Caldwell Parish: Newspaper accounts indicated flooding along the Quachita River and Bayou Lafourche inundating about 300 homes south of Columbia and near Herbert. In addition, some 24,000 acres of farmland was flooded. No damage estimates were available.

Quachita Parish: A record crest on the Quachita River at Monroe of 50.5 feet occurred on May 3rd and 4th. This was responsible for the severe residential flooding in Monroe where 2,123 homes were inundated. Total private and public losses were \$17,277,980. In addition, some 31,350 acres of farmland were flooded for a further loss of \$3,135,000.

Union Parish: In the Farmerville, Lake D'Arbonne area, 316 homes were flooded. Total private and public losses were \$18,122,562. In addition, some 3,000 acres of farmland were inundated for a further loss of \$300,000.

Webster Parish: In the Lake Bistineau area, 133 homes were flooded. Total private and public losses were \$446,377. In addition, some 30,000 acres of farmland were flooded.

Winn Parish: Forty-seven homes and one business were inundated in the Saline Lake area for a loss of \$215,000.

Natchitoches Parish: In the Black Lake and Clear Lake areas, in the northeastern part of the parish, 39 homes and 29 businesses were flooded for a loss of \$156,000.

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAMA	AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLE	Office Company		COCOO	CHARACTER OF STORM

#### LOUISIANA Cont'd

Rapides Parish: Backwater flooding from Bayous Rapides and Rigolette inundated 257 homes. Total private and public losses were \$646,600. In addition, some 46,000 acres of farmland were inundated for a further loss of \$4 million.

Asecnsion Parish Gonzales	01	1705CST	0	0	3	?	Severe Thunderstorm Hail (1.75)
							` /

A severe thunderstorm produced golf ball-size hail near Gonzales.

East Baton Rouge Parish Zachary Baker Zachary Baker	02 02 02	2100CST- 2300CST 2300CST 2300CST	0 0 0	0 0 0	5 4 4	0 0	Flash Flood Thunderstorm Winds Thunderstorm Lightn
Daker	UZ	2300031	U	U	4	U	tumoetsoum ragnin

A cluster of thunderstorms produced 3.00 to 5.00 inches of rain in the towns of Zachary and Baker, which flooded about a dozen homes and four businesses. In Zachary, strong winds blew a chimney down, tore a roof off a barn, and turned over an unoccupied mobile home. In Baker, lightning caused a \$20,000 fire.

Caddo Parish 2 E Rodessa	03	0450CST	0	0	0	2	Thunderstorm Winds Hail (0.75)
Bossier Parish Bollinger	03	0502CST	0	0	?	?	Thunderstorm Winds Hail (1.00
Caddo Parish Blanchard Desoto Parish	03	0512CST	0	0	?	3	Thunderstorm Winds
4 NE Logansport	03	0520CST	.0	0	?	?	Thunderstorm Winds (G50) Hail (1.75)
Webster Parish Cotton Valley Dixie Inn	03 03	0523CST 0523CST	0	0	?	?	Thunderstorm Winds Thunderstorm Winds Hail (1.00)
5 N Minden	03	0552CST	0	0	?	2	Thunderstorm Winds Hail (1.75)
DeSoto Parish Keachie	03	0610CST	0	0	?	?	Thunderstorm Winds Hail (0.90)
Caddo Parish 4 SW Shreveport	03	0610CST	0	2	4	0	Thunderstorm Winds
Airport Greenwood	03	0612CST	0	0	4	0	Thunderstorm Winds
Shreveport	03	0632CST	0	0	7	0	Hail (1.75) Severe Thunderstorm Winds (G76)

A rapidly moving thunderstorm produced straight-line wind damage in the Shreveport area. Wind shear equipment at the Shreveport Airport recorded a 76-knot gust at 0632 CST. The strong winds destroyed four hangars and heavily damaged four others. Twelve airplanes and two helicopters were parked in the hangers at the time. In another area, strong winds tore the roof off an apartment building and overturned a mobile home.

Shreveport Shreveport	03 0640CST 03 0643CST	0	0	4 ?	0	Thunderstorm Winds Thunderstorm Winds Hail (1.00)
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MAY 1991

		TIME			NO.	OF SONS	EST II	MATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL	OM30CL2-	~— <del>,2011</del> 40,20	COCOCO	CHARACTER OF STORM

#### LOUISIANA Cont'd

Bossier Parish							
Bossier City Caspiana	03 03	0645CST 06a46CST	0	0	?	3 ?	Thunderstorm Winds (G63) Thunderstorm Winds (G52)
Caddo Parish Shreveport	03	0648CST	0	0	?	0	Thunderstorm Winds (G57)
Downtown Airport Shreveport	03	0650CST	0	0	2	0	Thunderstorm Winds Hail (0.90)
Bossier Parish Barksdale Air Force Base	03	0652CST	0	0	0	2	Thunderstorm Winds (G53)
Claiborne Parish 1 S Haynesville 5 W Homer	03 03	0720CST 0720CST	0	0	?	0	Thunderstorm Winds Thunderstorm Winds Hail (0.90)
DeSoto Parish Evelyn Grand Cane	03 03	0722CST 0722CST	0	0	0 ?	2 2	Thunderstorm Winds Thunderstorm Winds
Webster Parish Sarepta 5 SW Sibley Heflin	03 03 03	0727CST 0728CST 0728CST	0 0 0	0 0 0	0 0 ?	2 3 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Hail (1.75)
Red River Parish Armistead	03	0729CST	0	0	2	0	Thunderstorm Winds
Claiborne Parish Athens	03	0732CST	0	0	2	0	Thunderstorm Winds Hail (1.75)
Bienville Parish Bryceland Liberty Hill Lincoln Parish	03 03	0740CST 0740CST	0	0	3	3	Thunderstorm Winds Thunderstorm Winds
Dubach	03	0810CST	0	0	3	0	Thunderstorm Winds
Ruston Union Parish	03	0812CST	0	0	0	?	Hail (2.00) Thunderstorm Winds (G53)
Haile Morehouse Parish	03	0815CST	0	0	?	0	Thunderstorm Winds (G53)
Batsrop	03	0825CST	0	0	5	?	Thunderstorm Winds Hail (1.00)
Ouachita Parish Calhoun Jackson Parish	03	0840CST :	0	0	?	2	Thunderstorm Winds (G57)
Chatam Richland Parish	03	0842CST	0	0	2	2	Thunderstorm Winds
15 WNW Alto	03	0903CST	0	0	2	3	Thunderstorm Winds

A squall line of numerous severe thunderstorms moved rapidly east across northern Louisiana producing widespread wind damage and several reports of 1.00- to 2.00-inch hail. Straight-line winds blew down numerous trees and power lines. Two people were injured in Shreveport when strong winds overturned an 80-foot mobile home; in addition, the roofs of two Shreveport apartment complexes were damaged by straight-line winds. Two mobile homes were damaged by thunderstorm winds just south of Bastrop and several barns were hit by falling trees in Bryceland and Liberty Hill.

Sabine Parish Zwolle	03 2037CST	0	0	?	?	Thunderstorm Winds
1 W Many	03 2040CST	0	0	0	3	Hail (1.75) Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAMA	ATED GE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	X-LLWO	UT DE LE	~~~~~	CEOTO	CHARACTER OF STORM

	1	L			1		1		
LOUISIANA Co	nt'd								
	A s	severe thund dropped 1	derstorm p .00-inch h	roduced go ail just we	lf bal st of	l-size Many	hail n	ear Zw	volle and blew down numerous trees
2 S Zwolle	03	2100CST			0	0	4	4	Severe Thunderstorm Wind
	A S	severe thun 50-foot oak	derstorm u tree was	prooted ab blown dow	out 60 n on	trees top of	2 mil a mo	les sou bile an	th of Zwolle on U.S. Highway 171. d a nearby parked car.
Natchitoches Parish Melrose	03	2130CST			0	0	?	3	Thunderstorm Winds
	A t	thunderstor	m blew do	wn many t	rees r	ear M	lelrose	e.	
Ouachita Parish Monroe	03	2130CST			0	0	3	0	Thunderstorm Lightning
	Lig	ghtning stru	ck the roo	f of a Mon	roe h	ome c	ausing	<b>\$800</b>	damage.
Madison Parish Waverly	03	2225CST			0	0	?	?	Thunderstorm Winds Hail (1.00)
	A s	severe thun	derstorm p	roduced 1.	00-in	ch hai	il in W	/averly	, ,
Grant Parish Colfax 1 N Pollack	03 03	2300CST 2315CST	_		0	0	4 4	?	Severe Thunderstorm Winds Severe Thunderstorm Winds
Lasalle Parish Nebo	03	2335CST			0	0	5	?	Severe Thunderstorm Winds
Rodgers	A s tree	severe thund es and causi l Rodgers v	lerstorm m ng widesp vere dama	oved rapid read proper ged when s	ly acr ty dan trong	oss so nage. wind	utherr Sever s blew	Grant al hom large	and Lasalle Parishes downing many es in Colfax, north of Pollack, Nebo trees on top of them.
Rapides Parish Tioga	03	2330CST			0	0	4	0	Thunderstorm Lightning
	Lig	ghtning stru	ck a home	and set it	ablaz	e near	Tioga	а.	
Morehouse Parish Mer Rouge West Carroll Parish	04	0020CST			0	0	0	2	Thunderstorm Winds
Darnell	04	0020CST			0	0	3	2	Thunderstorm Winds
		severe thundrnell.	derstorm b	lew down	sever	al tree	s in M	ler Ro	uge and damaged a mobile home in
Franklin Parish Wisner	04	0036CST		,	0	0	4	2	Thunderstorm Winds
		severe thun sner.	derstorm	blew down	seve	ral tr	ees wl	hich fe	ill down on top of some homes in
East Carroll Parish Roosevelt	04	0048CST			0	0	3	0	Thunderstorm Winds

A severe thunderstorm damaged a cotton gin and overturned two cotton trailers near Roosevelt.

MAY 1991

		TIME			NO. PER	OF SONS	ESTI!	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-mO	Om20C6.2-	~~am 0000	CECOEN	CHARACTER OF STORM

### LOUISIANA Cont'd

Madison Parish Waverly	04	0054CST			0	0	0	0	Thunderstorm Winds
	A t	hunderstorm	produced	penny-si	ze hai	l near	Wave	rly.	
Allen Parish Elizabeth Rapides Parish	04	0148CST	0.2	18	0	0	4	4	Tornado (F0)
5 S Glenmore	04	0200CST			0	0	4	4	Severe Thunderstorm Winds
Beauregard Parish Deridder 5 E Deridder Allen Parish	04 0300CST 04 0400CST			0	0	4 4	4 4	Severe Thunderstorm Winds Severe Thunderstorm Winds	
2 W Kinder	04	0400CST			0	0	4	4	Severe Thunderstorm Winds

A line of numerous thunderstorms extended from just south of Alexandria in Rapides Parish to near Deridder in Beauregard Parish at 0100 CST. Thunderstorms moved rapidly east along the squall line while it drifted slowly south over the next several hours. A severe thunderstorm associated with the squall line produced a small tornado which destroyed a mobile home and took the roof off a nearby building in Elizabeth. The same thunderstorm moved into southern Rapides Parish blowing down many trees at 0200 CST. There were two more incidents of trees being blown down between 0300 and 0400 CST; the first occurred 5 miles east of Deridder and the second 2 miles west of Kinder.

Bossier Parish	04	2025CST	0	0	0	2	Thundantom Winds (CSA)
Bolinger Caddo Parish	04	2025	U	U	U	Z	Thunderstorm Winds (G54)
Shreveport DeSoto Parish	04	2025CST	0	0	0	2	Thunderstorm Winds (G50)
3 E Logansport	04	2055CST	0	0	?	0	Thunderstorm Winds
Mansfield	04	2120CST	0	0	?	0	Hail (1.00) Thunderstorm Winds Hail (0.90)
Red River Parish Lake End Armistead	04 04	2125CST 2125CST	0	0	0 2	3	Thunderstorm Winds Thunderstorm Winds Hail (0.90)
Webster Parish Shongaloo	04	2132CST	0	0	0	2	Thunderstorm Winds (G55)
Sabine Parish Converse	04	2132CST	0	0	?	2	Thunderstorm Winds Hail (0.90)
Claiborne Parish 12 SE Homer	04	2133CST	0	0	2	?	Thunderstorm Winds Hail (1.00)
Red River Parish Hall Summit	04	2215CST	0	0	4	3	Thunderstorm Winds
Natchitoches Parish 4 SW Hanna	04	2238CST	0	0	0	3	Thunderstorm Winds
Sabine Parish Converse	04	2240CST	0	0	?	0	Thunderstorm Winds Hail (1.00)
Bienville Parish 3 S Bryceland	04	2253CST	0	0	3	0	Thunderstorm Winds Hail (1.75)
Jackson Parish Clay	04	2305CST	0	0	2	0	Thunderstorm Winds Hail (1.00)

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAMA	ATED GE	
PLACE	D B E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-m0	مسمدح	~-compo.>-	COCODA	CHARACTER OF Storm

### LOUISIANA Cont'd

A line of numerous severe thunderstorms moved east, around 30 mph, across northern Louisiana producing scattered wind damage and numerous reports of 1.00- to 2.00-inch hail. The hardest hit areas included Hall Summit, where numerous trees were blown down and a mobile home was damaged, and southwest of Hanna where strong winds damaged a barn.

	hit areas included Hall Summit, where numerous trees were blown down and a mobile home was damaged, and southwest of Hanna where strong winds damaged a barn.										
Morehouse Parish Mer Rouge	05	0020CST			0	0	0	2	Thunderstorm Winds		
West Carroll Parish Darnell	05	0020CST			0	0	3	2	Thunderstorm Winds		
		evere thunder nell.	storm blev	v down	severa	ıl trees	s in M	er Rou	ge and damaged a mobile home in		
Franklin Parish Wisner	05	0036CST			0	0	4	2	Thunderstorm Winds		
	A severe thunderstorm blew down several trees which fell down on top of some homes in Wisner.										
Calcasieu Parish Moss Bluff	05	0040CST			0	0	0	0	Severe Thunderstorm Hail (0.75)		
East Carroll Parish Roosevelt	05	0048CST			0	0	3	0	Thunderstorm Winds		
	A s	evere thunders	storm dam	aged a c	otton	gin an	d over	turned	two cotton trailers near Roosevelt.		
Madison Parish Waverly	05	0054CST		0	0	0	0	Thunderstorm Winds Hail (0.75)			
	A t	hunderstorm p	oroduced p	enny-siz	ze hail	near	Waver	ly.			
Calcasieu Parish Vinton	05	0230CST			. 0	0	0	0	Severe Thunderstorm Hail (0.75)		
5 S Lake Charles	05	0305CST			0	0	4	0	Severe Thunderstorm Hail (1.75)		
5 S Lake Charles Iowa Jefferson Davis Paris	05 05	0320CST 0345CST	0.2	18	0	0	4 3	0	Lightning Tornado (F0)		
Jennings	05	0402CST			0	0	3	0	Severe Thunderstorm Hail (0.75)		
Acadia Parish Crowley	05	0440CST			0	0	3	0	Severe Thunderstorm Hail (1.75)		
Lafayette Parish Milton	05	0450CST			0	0	3	0	Severe Thunderstorm Hail (1.75)		
Youngville	05	0515CST			0	0	3	0	Severe Thunderstorm Hail (1.75)		
	Clu	sters of seven	re thunder	storms	move produ	d rapi	dly ea umero	st, acr	oss the parishes of southwestern		

Clusters of severe thunderstorms moved rapidly east, across the parishes of southwestern Louisiana during the early morning producing numerous report of large hail. A lightning strike put two holes in the Lake Charles Airport runway. Finally, a small tornado downed power lines near Iowa.

East Carroll Parish Tallulah	05	1040CST	0	0	?	0	Thunderstorm Winds Hail (0.90)
							עסכיטן ונוגונו

MAY 1991

		TIME			NO. PER	OF SONS	EST I	AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL	OMBCLZ	<b>√-∞</b> 000000	CACCAC	CHARACTER OF STORM

### LOUISIANA Cont'd

A several thunderstorm produced nickle-size hail in Tallulah.

	71 5	everal manacistorm produced in	OKIO I	JILO MA		· william	<b></b>						
Allen Parish 5 NE Kinder	05	1420CST	0	0	3	?	Severe Thunderstorm Hail (0.75)						
	A severe thunderstorm produced 0.75-inch hail 5 miles northeast of Kinder on U.S. Highway 165. The hail forced a deputy sheriff from Allen Parish to pull off the road.												
Calcasieu Parish Moss Bluff	05	1805CST	0	0	3	0	Severe Thunderstorm Hail (1.00)						
Allen Parish 1 SW Oakdale	05	1835CST	0	0	3	0	Severe Thunderstorm Hail (0.75)						
Rapides Parish Lecompte	05	1900CST	0	0	3	0	Severe Thunderstorm Hail (1.75)						
Avoyelles Parish Marksville	05	1950CST	0	0	3	0	Severe Thunderstorm Hail (1.75)						
Catahoula Parish 1 SW Jonesville	05	2015CST	0	0	3	0	Severe Thunderstorm						
Tensas Parish Waterproof	05	2058CST	0	0	?	0	Hail (2.00) Thunderstorm Winds						
	A s	evere thunderstorm produced go	lf bal	l-size l	hail in	Water	Hail (1.75) proof.						
St. Joseph	05	2105CST	0	0	0	0	Severe Thunderstorm Hail (0.75)						
	An thu	area of scattered thunderstorms moved rapidly east, t	form	ned in were n	south numero	wester	n and central Louisiana. As the orts of large hail.						
St. Mary Parish	08	0100CST-											
St. Martin Parish	16 08	2400CST 0100CST-	0	0	5	5	Flood						
	16	2400CST	0	0	6	5	Flood						
Assumption Parish	08 16	0100CST- 2400CST	0	0	?	?	Flood						
Ascension Parish	08	0100CST-		•									
Livingston Parish	22 08	2400CST 0100CST-	0	0	?	?	Flood						
	23	2400CST	0	0	5	?	Flood						
St. James Parish	08 23	0430CST- 2400CST	0	0	5	5	Flood						
St. John the	08 23	0430CST-	0	0	5	4	Flood						
Baptist Parish St. Charles Parish	08	2400CST 0630CST-	-	•	_	•							
Lafourche Parish	23 08	2400CST 0330CST-	0	0	6	?	Flood						
	23	2400CST	0	0	5	?	Flood						
Terrebonne Parish	08 23	0330CST- 2400CST	0	0	7	5	Flood						

Successive waves of numerous thunderstorms produced 8.00 to 14.00 inches of rain in a 48-hour period in an area bounded by the following parishes: St. Charles, Lafourche, St. Mary, and Livingston. The bulk of the rain fell during the nighttime and early morning hours of May 8th

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAM/	AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L L L L L L L L L L L L L L L L L L	OMOC-Z-	<b>«-като</b> Ожо	CACOTA	CHARACTER OF STORM

#### LOUISIANA Cont'd

and 9th. Persistent onshore flow and swollen rivers and bayous from previous heavy rains since January kept flood waters in many areas for a week or more. A parish-by-parish damage summary based on a survey conducted by the Louisiana Office of Emergency Preparedness follows unless otherwise indicated:

St. Mary Parish: Sixty-nine homes were flooded, primarily in the Morgan City, Berwick, and Amelia area. Total private and public losses were \$165,000. In addition, some 2,500 acres of farmland were inundated for an additional loss of \$250,000.

St. Martin Parish: In the lower St. Martin near the Lake Parlourde area, 205 homes and 10 businesses were flooded. Total private and public losses were \$1,689,038. In addition, some 4,000 acres of farmland were inundated for a further loss of \$400,000.

Assumption Parish: Newspaper accounts indicated that about 100 homes flooded in the town of Pierre Part and along Bayou L'Ourse. No damage estimates were available.

Ascension Parish: Newspaper accounts indicated that about 125 homes were flooded. No damage estimates were available.

Livingston Parish: Thirty-three homes were flooded for a loss of \$88,500.

St. James Parish: Twenty-nine homes and one business were flooded in the Vacherie area. Total private and public losses were \$98,625. In addition, some 3,500 acres of farmland were inundated for a loss of \$350,000.

St. John the Baptist Parish: In the Reserve area, primarily, 68 homes and 2 businesses were flooded. Total private and public losses were \$185,000. In addition, some 240 acres of farmland were inundated for a loss of \$24,000.

St. Charles Parish: Fifty-three homes were flooded for a loss of \$804,800.

Lafourche Parish: Newspaper accounts indicated that 112 homes were flooded, primarily in the Raceland, Chackbay, and Thibodaux areas. Estimated private and public losses were \$455,000.

Terrebonne Parish: Widespread flooding in this parish, left 807 homes and 20 businesses flooded. The hardest hit areas include the towns of Houma and Gibson. Total private and public losses were \$9,404,100. In addition, some 1,000 acres of farmland were flooded for a loss of \$100,000.

# St. Mary Parish 1 S Centerville

08 0600CST 1.5 30 0 1 4 0 Waterspout Tornado (F1)

A waterspout moved ashore near Centerville and followed an intermittent path as a tornado. The tornado damaged the roofs of two buildings at the Columbia and Cabot Company near Centerville. Flying debris injured a woman as she tried to run to her car in a nearby parking lot. The tornado overturned a loaded tractor-semitrailer.

#### St. James Parish Vacherie

08 0700CST 0 0 4 3 Severe Thunderstorm Winds

A severe thunderstorm uprooted many trees and damaged the roofs of some homes and businesses in Vacherie.

#### Lafourche Parish Chackbay

08 0825CST 1.0 30 0 0 4 ? Tornado (F1)

A tornado damaged a store roof, blew away an adjacent shed, and damaged a mobile home in Chackbay.

MAY 1991

										MAY 1991
			TIME			NO.	OF SONS	ESTII DAM/	MATED AGE	
	PLACE		LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K		~-comoo->-	CEOTN	CHARACTER OF STORM
	LOUISIANA Con	nt'd								
•	Jefferson Parish 6 N Metairie	08	0813CST			0.	0	0	0	Severe Thunderstorm Winds (G50)
,	St. Tammany Parish 3 S Mandeville	08	0813CST			0	0	0	0	Waterspout
		A inst	severe thun rument, loc ved across t	derstorm ated on th he bridge	produced le Causewa about 3 mi	a 50 ay Bri iles so	knot idge. outh c	gust The of Man	at the Causev deville	middle Lake Pontchartrain wind way police report that a waterspout a. No damage was observed.
(	Calcasieu Parish	00	1 <i>54</i> 000T	0.2	20	^	^	,	0	To-odo (FO)

Starks	08	1540CST	0.2	20	0	0	0	. 0	Tornado (F0)
	Αp	oilot observed	l a small	tornado r	near St	arks.			
Cameron	08	1740CST			0	0	?	?	Severe Thunderstorm
Cameron	_08	1825CST	0.1	20	0	0	?	?	Winds (G58) Tornado (F0)
Jefferson Davis Pari Jennings	80 08	1914CST	0.1	20	0	0	4	0	Tornado (F0)

An area of numerous thunderstorms moved through southwestern Louisiana. A 58-knot gust was observed at the Petroleum Helicopter Company base in Cameron. The Cameron Parish Sheriff reported that a small tornado damaged some buildings in Cameron around 1825 CST. In Jennings, a tornado destroyed a mobile home and three cars parked nearby.

Jefferson Parish
6 N Metairie 09 1110CST 0 0 0 Severe Thunderstorm Winds (G60)

A severe thunderstorm produced a 50-knot wind gust at the middle Lake Pontchartrain wind instrument, on the Causeway Bridge.

St. Tammany Parish SE Slidell

E Slidell 10 0000CST-15 2400CST

0 0 6 ? Flood

The Pearl River, at the town of Pearl River, crested at 18.5 feet on May 12th and 13th. This produced considerable backwater flooding in the River Gardens and Magnolia Forest subdivisions southeast of the Slidell city limits. Eighty-two homes were inundated for loss of \$768,000.

East Baton Rouge Parish

Baton Rouge 10 0915CST

0 1 0 0 Thunderstorm Lightning

A man was struck by lightning as he was walking to his office building. Fortunately, he survived with minor injuries.

Caddo Parish Shreveport Airport

14 1500CST

0 0 3 0 Severe Thunderstorm Hail (1.00)

A severe thunderstorm produced 1.00-inch hail at the Shreveport Airport and between 1.00 and 2.00 inches of rain in less than 2 hours in the Shreveport area.

Lafayette Parish 2 NW Lafayette

15 0400CST 0.2

20

0 0 5

Tornado (F0)

A small tornado damaged two mobile homes near Lafayette.

MAY 1991

		TIME			NO.	OF SONS	EST IN	AATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH PATH (MILES)	WIDTH OF PATH (YARDS)	Kirimo			CECOEN	CHARACTER OF STORM

#### LOUISIANA Cont'd

Lafayette	15	0815CST	0	0	5	0	Severe Thunderstorm Winds
	A s mot	evere thunderstorm in Lafayette ille homes off their foundations.	blew	down	many	trees,	damaged roofs, and blew several
St. Tammany Parish	22 27	0000CST- 2400CST	0	0	?	?	Tidal Flood
Orleans Parish	22 26	0000CST- 2400CST	0	0	?	?	Tidal Flood
St. Bernard Parish Tangipahoa Parish	22 26 22	0000CST- 2400CST 0000CST-	0	0	?	?	Tidal Flood
rangipanoa ransii	27	2400CST	0	0	?	?	Tidal Flood

Persistent easterly winds of 20 to 30 knots produced tidal flooding in areas outside the hurricane protection levees in Orleans and St. Bernard Parishes, and in the low-lying unprotected areas of the following parishes bordering Lake Pontchartrain: St. Tammany, St. Charles, and Tangipahoa. A parish-by-parish summary follows:

St. Tammany Parish: Tidal flooding inundated streets of the Palm Lake subdivision in southern Slidell. A few businesses were flooded along Lake Drive in Mandeville. In Madisonville, Lake Road was damaged by tidal flooding.

Orleans Parish: U.S. Highways 90 and 11 were flooded in eastern New Orleans outside of the hurricane protection levee.

St. Bernard Parish: Louisiana Highway 46 was inundated outside of the hurricane protection levee. However, only one house was flooded.

St. Charles Parish: Tidal flooding forced water over U.S. Highway 61 near St. Rose on the eastern bank of St. Charles Parish forcing police to close it to traffic at times. Two homes and four mobile homes were flooded along Bayou Gauche, and in the Des Allemandes area on the western bank of this parish.

Tangipahoa Parish: Several homes and businesses were flooded in the Manchac area.

Orleans	ъ.	1
I IMPONC	Patri	CF
OHADIS	1 411	ъщ

21 0000CST-28 2400CST

0 0 0 0 Flood

Fifty inches of rain fell in the New Orleans area since January. A significant portion of this rain became trapped in eastern New Orleans between the hurricane protection levee system and the Maxtent Levee on the western edge of the Bayou Sauvage Wildlife Refuge area. Persistent easterly winds of 20 to 30 knots during this period blew some of this impounded rainwater out of the refuge and onto Interstate 10. Police were forced to close three out of the six lanes to traffic for the first time since the interstate was built in 1967.

5

Concordia Parish Ferriday

29 1615CST

1.0

25

0 0

0 Tornado (F1)

A tornado did \$100,000 damage to the roof of the Ferriday High School.

### **MAINE**

Kennebec County Monmouth	02	1730EST	0	0	?	0	Lightning
Piscataquis County Guilford	02	1800EST	0	0	?	0	Lightning
Franklin County Farmington	02	2230EST	0	0	?	0	Lightning

MAY 1991

		TIME			NO. PER	OF SONS	ESTIM DAM/	ATED AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	L Z J J C W	<b>←-∞</b> m±00×0	CECOEN	CHARACTER OF STORM

#### MAINE Cont'd

Lightning from a thunderstorm interrupted phone service to 500 customers in the Monmouth area at 1830 EST. Lightning struck a switch on a substation of the Central Maine Power Company and 3,000 to 5,000 people were without electrical service from 1900 to 2300 EST in the Guilford area. Lightning struck the Farmington Outdoor Power Company in Farmington at 2330 EST and started a fire on the roof. Damage was still being assessed.

<b>MEZ010</b>	
Southern	Maine

12 1300EST-1700EST 0 0 ? 0

An intense low pressure system over the Gulf of St. Lawrence produced strong surface winds across southern Maine. Strong winds knocked down a large branch of a birch tree in Lewiston which fell over onto the electrical and telephone wires and interrupted electrical services in the area.

Winds

York County Lebanon

17 1720EST 0 0 ? 0 Thunderstorm Winds

Thunderstorm winds knocked trees down in the town of Lebanon.

York County Countywide

17 1750EST 0 0 ? 0 Thunderstorm Winds 17 1750EST 0 0 ? 0 Lightning

Thunderstorm winds blew trees down across a road in the town of York and two houses in York were also struck by lightning.

#### MARYLAND and D.C.

Garrett County Friendsville Oakland

06 1325EST 0 0 4 0 Thunderstorm Winds

The county fire and rescue staff reported trees down in the Friendsville area and power outages due to the downed lines in Oakland.

Allegany County Cumberland

06 1345EST-1430EST 0 0 4 0 Thunderstorm Winds

The county fire and rescue staff reported power outages due to many downed trees. In Cumberland, strong winds caused a wall of a body shop to collapse, destroying one vehicle and damaging three others. Winds were reported at 55 mph (48 knots) at Cumberland Airport (CBE).

Allegany County
Washington County
Hagerstown
Hagerstown
2 SSW Hagerstown
7 WNW
Hagerstown

06	1355EST	0	0	0	0	Hail (1.00)
06	1430EST 1430EST-	0	0	0	0	Hail (1.75)
·	1515EST	0	2	5	0	Thunderstorm Winds (G50)

Trees and power lines were downed in several places within Hagerstown. A cooperative observer recorded winds to 55 mph, but estimated that winds were higher elsewhere in the area. The roof was blown off a building just south-southwest of the center of town and was tossed 100 feet causing damage to a house, three cars, and other structures. Maryland State Police reported a tractor-semitrailer driver was slightly injured when his rig was overturned by strong winds on Interstate 81 about 2 miles south of Hagerstown Airport (HGR). Some 4,000 homes lost power during the storm. About 7 miles west-northwest of Hagerstown, a resident reported damage to his house's roof, three large trees downed, and his motorcycle thrown into a fence, as a result of what he thought might have been a tornado. One of his daughters was outside and clung to a tree to avoid being blown away by strong winds.

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	AATED AGE	
PLACE	DAG E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	משבובא	OmoCc.Z-	~-ळ्लाच्ठाञ्च	റരാഹ	CHARACTER OF STORM

MARYLAND and	d D.	.C. Cont'd					•
Allegany County 1 SW Frostburg	06	1454EST	0	0	0	0	Thunderstorm Winds (G67)
	Wir	nds were recorded at 77 m	ph (67 kn	ots) at	Frostb	ourg St	ate College.
Washington County Hagerstown Frederick County	06	1500EST	0	0	0	0	Hail (1.00)
Emmitsburg	06	1520EST- 1600EST	0	1	5	0	Thunderstorm Winds (G61)
	The Win win of a who	Frederick County Emergads were reported gusting to ds blew the roof off two poted; one woman was inju- t least \$100,000. Almost to ose roots were wrapped arc	ency Ope o 70 mph building red by a f he entire o bund an 8	eration in the s and alling city's v	s Cent northw damag tree. C vater si ine, w	er represent ed eig City off upply vas topp	orted trees and power lines down, part of the county. In Emmitsburg, ht others. Many large trees were licials estimated damage to buildings was interrupted for a day after a tree, pled.
Carroll County Millers	06	1600EST	0	0	4	0	Thunderstorm Winds (G53)
	Mar stro	ny large trees and power li ng winds that were record	ines were ed to 60 i	blowr nph (5	down 3 knot	in the	northeastern part of the county by Millers.
Montgomery County Potomac	06	1610EST	0	0	4	0	Thunderstorm Winds
	Tree	es and power lines were bl	own dow	n.			
Hartford County Jarrettsville Whiteford	06	1620EST	0	0	4	0	Thunderstorm Winds (G70)
	hon	nes suffered roof damage. I	Reports of	a torn	ado co	uld no	customers. At Jarrettsville, several t be confirmed, although winds were es fell onto a pickup truck.
Howard County Lisbon	06	1620EST	0	0	4	0	Thunderstorm Winds
	At I	Lisbon, a barn, containing s sed power outages to about	several to 3,900 cu	ns of h	ay, was rs thro	s destro ughou	oyed by high winds. The winds also the county.
Baltimore County Baltimore	06	1630EST	0	0	5	0	Thunderstorm Winds
		re than 12,000 customers lover lines.	ost power	overn	ight du	e to m	imerous trees and limbs falling onto
Cecil County	06	1630EST- 1930EST	0	0	3	0	Thunderstorm Winds
	resp	es and power lines were do conded to several fires of derstorm. About 4,000 co	aused by	trees	fallin	ig acre	county. Fire department personnel oss power lines during a 3-hour ing lengths of time.
Anne Arundel County South River	y 06	1700EST	0	0	3	0	Thunderstorm Winds (G53)

Winds estimated up to 60 mph (53 knots) tossed around boats that were tied down. Some 1,400 customers lost power because of the storm.

MAY 1991

		TIME			NO. PER	OF SONS	ESTIM DAMA	ATED GE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KWO	-2-20mo	ожОошю≻≻	COCOLO	CHARACTER OF STORM

•							
MARYLAND and	d D	.C. Cont'd					
Charles County	06	1700EST	0	0	0	0	Thunderstorm Winds
	Sev	veral trees were blown down.					
Cecil County Elkton North East	06	1725EST	0	0	0	0	Funnel Cloud
North East	A s	evere weather spotter, at Elkton re reported around North East.	і, герс	orted a	funne	el cloud	d. Other unconfirmed funnel cloud
Caroline County	06	1730EST	0	0	0	0	Thunderstorm Winds
	Cor	unty officials reported a few tre	æs blo	own do	own.		
Queen Anne's	06	1730EST	0	0	4	0	Thunderstorm Winds
County	Stat	te Police reported trees downed	at se	veral l	ocatio	ns.	
District of Columbia 1 SW Chillum	06	1830EST	0	0	0	0	Thunderstorm Winds
	Tre	es were blown down in the extr	reme :	northe	astern	part o	f the District.
Prince Georges							
County Beltsville	06	1830EST	0	0	0	0	Thunderstorm Winds
	Sev	eral trees were downed in Belts	ville	and el	sewhe	re in tl	ne county.
Kent County							
Fairlee	13	1635EST	0	0	3	0	Thunderstorm Winds (G50)
	Wir alm	nds were estimated at over 50 nost horizontal by the winds.	nph b	y a se	vere w	eather	spotter. A large flagpole was ben
Cecil County Chesapeake City	13	1636EST	0	0	4	0	Thunderstorm Winds (G50)
	Wir	nds estimated in excess of 50 m	ph blo	ew tre	es onto	o a mo	bile home.
District of Columbia	17	1550EST	1	10	0	0	Lightning
	Stro the whe stru	ong thunderstorms interrupted a storms developed, many people on lightning struck a tree. One of ck sustained serious injuries. (	lacros took of thei M150	sse cha shelte m, a 1:	ampior or unde 5-year	nship g er large old bo	game between city prep schools. As trees. Eleven people were injured by, died the next day. Four of those
St. Marys County Patuxent River	17	1900EST	0	0	3	0	Lightning
Naval Air Station	Ligh dam	htning struck the National Weath page and rendering the radar inc	ier Se operat	rvice r ole for	adar at severa	Patux d days	ent River Naval Air Station, causing
Montgomery County 3 SW Potomac	29	1400EST	1	0	0	0	Heat
	A		17.11	D. J. 4	·	4	CD. 4 C

A man was found by police in Great Falls Park (3 miles southwest of Potomac) unconscious from heat exhaustion; he died of cardiac arrest. The temperature at Washington, DC, that day reached 97° equaling the record high for May. (M350)

MAY 1991

		TIME			NO. PERS	OF SONS	ESTIN DAM/	AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMO	Omas CLZ-1	~-camoo->-	CEOPO	CHARACTER OF STORM

MARYLAND ar	id D	.C. Cont'd					
Anne Arundel County	30	1930EST- 2000EST	0	0	4	0	Lightning
		electrical storm kno ghtning strike.	ocked out power	to alr	nost 10	,000 h	omes. A residence was damaged by
Kent County Kennedyville	30	2030EST	0	0	4	0	Thunderstorm Winds
	Ker and	nt County Civil Def I several other farm	ense Director rep buildings were o	orted lamag	several ed.	trees	downed, a large barn was destroyed,
MASSACHUSE	TTS						
Berkshire County Great Barrington	17	1545EST- 1630EST	0	0	?	0	Thunderstorm Winds
Berkshire County North Adams	17	1700EST- 1745EST	0	0	4	0	Thunderstorm Winds
				n in s	eparate	storm	s in Berkshire County. There were
Worcester County Athol	17	1700EST	0	0	4	0	Thunderstorm Winds
	For	ar trees were blown	down and nume	rous p	ower o	utages	occurred.
Hampshire County	17	1725EST- 1800EST	0	0	4	0	Thunderstorm Winds
		es and limbs were b ttered power outage		ınting	ton, Gr	anby,	Ware, Russell and Belchertown with
Hampden County	17	1725EST- 1800EST	0	0	4	0	Thunderstorm Winds
		Easthampton, a tree orted down in Sou ages.	e fell on a house thhampton, Mor	e caus	ing mo Wilbra	derate ham,	damage. A number of trees were and Holyoke with scattered power
Middlesex County Countywide	17	1725EST- 1745EST	0	0	4	0	Thunderstorm Winds
	Tre Gro	e limbs and a few oton and Tyngsboro	trees were knock with scattered p	ked d ower	own in outages	the no	orthern Middlesex County towns of
Dracut	17	1730EST	0	0	?	0	Lightning
	Lig	htning struck and d	lamaged a chimne	ey.			
Hampshire County Williamsburg	17	1730EST	0	0	4	0	Lightning
	A b	oolt of lightning hit	a repair shop rest	ulting	in a fir	e whic	h destroyed the building and a truck

MAY 1991

		TIME	,		NO.	OF SONS	EST I	ATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OHISO CLAZ	-camooa-	CECOEN	CHARACTER OF STORM

Near Adrian

Milan

Washtenaw County

13 1515EST

13

1530EST-1615EST

Wind gusts to 50 mph were reported near Adrian.

MASSACHUSET	TS	Cont'd					
Berkshire County Richmond	30	1553EST	. 0	0	4	0	Thunderstorm Winds
	Tre	es and power lines were knock	ed do	wn.			
Great Barrington Monterey	30	1630EST- 1645EST	0	0	2	0	Thunderstorm Winds (G60)
	nor	thwest to southeast along a path	that	was 4 t	to 5 mi	iles lor	mostly in the same direction from and from 0.25 to 0.50 mile wide, The damage was not continuous but operty damage was noted.
Countywide	30	1613EST- 1800EST	0	0	5	0	Thunderstorm Winds
	Ma Egr	ny trees and wires were blown emont, Southfield, Hartsville,	down and M	in the Iontvil	towns le. Sc	of Mi	ill River, New Marlboro, Sheffield, d power outages were reported.
New Marlboro Sheffield	30 31	1600EST- 0400EST	0	0	7	0	Flash Flood
	sever vill was feet the	ere flooding. Many roads and ages of New Marlboro and Sh shouts ranged up to 8 feet deep	i seve effield and ad an vas es	eral bri d. Ab roads t d a stat timate	idges vout 89 that we te of end the terminate with	were v miles ere 25 merger een \$5	on 1600 and 1700 EST resulting in washed out eventually isolating the sof roads were damaged. Typical feet wide were reduced to only 10 ncy was declared. The flooding was to \$10 million. Road damage was
MICHIGAN							
Macomb County Mt. Clemens	12	1630EST	0	0	0	0	Thunderstorm Winds (G51)
Bay County SW Bay City	13	1330EST	0	0	4	0	Thunderstorm Winds
	Stro	ong thunderstorm winds uproote	ed sev	eral tr	ees an	d a ba	rn was blown down.
Lanawee County	12	1515DOT	Λ	Λ	Λ	۸	Thursdowntown Winds (C52)

A strong thunderstorm crossed Washtenaw County during the late afternoon. Milan, in the southeastern corner of the county, was hit hardest. Wind gusts to 60 mph downed many trees and some power lines, plunging the town into darkness. The city council meeting was held in darkness due to the storm-related power outage. Enough trees fell so that several streets in the town of Milan were blocked. Heavy rain, 2.04 inches in 45 minutes, added to the traffic problems by flooding several intersections. Ten cars were stranded at the U.S. Highway 23 underpass due to the flooding.

4

0

0

Thunderstorm Winds (G52)

Thunderstorm Winds (G52) Flash Flood

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	ATED GE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-m0	صيبه وحج		CEOPN	CHARACTER STORM

PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KI-T-EED	-2-)Outub	~—camo()>o	CAOTO	CHARACTER OF STORM
MICHIGAN Con	t'd								
Wayne County Southern Portion	13	1622EST- 1800EST			0	0	4	0	Thunderstorm Winds (G52) Flash Flood
	har ear pov	dest hit. W lier. Many ver lines ca its were kno	ind gusts t streets we used most ocked out	o 60 mph a re impassa of the are for a few l	and fl ble d a to	loodin ue to be wit	g rain floodi hout p	causeding. The cower is	s of Taylor and Southgate were the problems, similar to Milan an house combination of downed trees and for several hours. Also, the traffic caused the Frank and Poet Drain to considering the number of trees and
Romulus	13	1705EST			0	0	0	0	Hail (0.75)
	Nic	kel-size hai	l was repo	rted at De	troit	Metro	politar	ı Airpo	ort.
Calhoun County Homer		1350EST			0	2	0	0	Lightning
	Tw	o eighth-gra	ade student	ts from Ho	mer	were l	hospita	ilized a	fter lightning struck a nearby tree.
Oakland County East-Central Portion	24	1130EST- 1200EST			0	2	4	0	Thunderstorm Winds
	wer mir	re crushed b	y falling t in one of t	rees. No : he cars tha	majoi it was	injur wrec	ies we ked an	re repo	ities of Auburn Hills and Rochester by trees falling on them. A few cars orted, although two people received sed medical attention. About 2,000
Pontiac	24	1134EST- 1200EST			0	0	0	0	Funnel Cloud
•	A I feet	Federal Aviation from the g	ation Admi	inistration r Pontiac A	contr Airpo	oller : rt.	spotted	l a fun	nel cloud that came as close as 500
Genesee County	24	1200EST			0	0	0	0	Thunderstorm Winds
	Str	ong thunder	storm wind	ds blew se	veral	trees	down	in man	y areas of the county.
Sanilac County Roseburg	25 26	1530EST- 0630EST			0	0	4	?	Flash Flood
	Hea sign wen	avy rain, w nificant floo e reported.	hich began ding to far One farme	late Satu m fields in er reported	rday 1 sout 1 that	aftern thern S his co	oon ar Sanilac rn and	nd ende Count soybe	ed during Sunday morning, caused ty. Rainfalls of around 3.00 inches an fields were under 2 feet of water
St. Clair County Northeastern Quarter of County	25 26	1600EST- 0630EST			0	0	4	0	Flash Flood

Very heavy rain, 2.00 to 4.00 inches, fell between Saturday afternoon and Sunday morning. This caused significant damage to many stores and a few churches. The heavy rain flooded the streets in the towns of Yale and Port Huron. Several stores reported water pouring in from the front and back of their buildings. Several churches reported flooding basements. The Yale Library had water pour in also, but no damage report was available.

**MAY 1991** 

		TIME			NO. PERS	OF SONS	ESTII DAM/	ATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	חששכר≤יי	4-00m00x	COCOEN	CHARACTER STORM

#### MICHIGAN Cont'd

Monroe	Counts
MOHICE	COMILI

1800EST-1800EST

Flood

Heavy rains, 2.50 to 3.50 inches, began falling around 1730 EST on the evening of the 25th, then continued intermittently until around 0300 EST on the morning of the 26th. The heavy rain was caused by a series of thunderstorms that kept developing over the same area, then dissipating as they moved east of Monroe County. This caused several small creeks to rise over their banks over the southeastern part of the county, which was where the heaviest rains fell. Water rose to 18 inches in some basements by Sunday morning. Other residents sandbagged their homes to keep the water from getting into their home. Around 0800 EST Sunday morning, two 8-year-old girls were swept down a flooded creek near the city of Monroe. An 11-year-old Boy Scout and his mother saw this event, and was able to pull the girls to safety from a bridge over the creek. Neither child was injured. creek. Neither child was injured.

## Wayne County Middle River Rouge

2000EST-0900EST

0 Flood

Heavy rains, 2.00 to 3.00 inches over a 24-hour period, on the 25th and 26th, caused the Middle Rouge River at Garden City to rise above its flood stage of 7 feet late Saturday night. It crested at 9.6 feet, 2.6 feet above flood stage, during Sunday morning. This caused the closing of Edward Hinges Parkway, a road that parallels the river. The river fell below flood stage on the morning of the 27th. No significant damage was reported.

#### Berrien County Niles

1900EST-26 1925EST

Funnel Cloud

The Michigan State Police reported sighting several funnel clouds in the Niles area, although no touchdown's were seen.

## Menominee County

1415EST-1500EST

Thunderstorm Winds

A line of severe thunderstorms moved eastward across the County at about 50 mph. Very strong winds blew trees and power lines down across the county as the line of thunderstorms moved through. Some of the towns with damage were Powers, Hermanville, and Menominee.

5

### 1 W Swanson 3 W Dagget

1430EST-

1455**EST** 

10.0

150

Tornado (F3)

The tornado touched down in an area that consisted mainly of farms. It moved northeast across a camp ground, where it continued before lifting 3 miles west of Dagget. No campers were injured. Damage was mostly to trees although several barns and a few storage sheds were destroyed. A mobile home was lifted off its foundation and moved several feet. The southern end of the roof of one home was lifted several inches and set back down. A poultry building was destroyed and a family car and garage were crushed when a large tree fell on them.

#### 1 NW Faithorn Hermansville

1430EST-1440EST

12.0

80

5 Tornado (F2)

This tornado touched down in a main farming area, also. It traveled northeast, crossing mostly farm land. Several small buildings or storage sheds were destroyed. One barn had numerous pieces of machinery destroyed that included a one-ton truck, irrigation equipment, two farm tractors, a boat, and a hay baler. This tornado also did a small amount of damage to a mobile home and a garage when a tree fell on it. Many power lines were down.

#### Otsego County. Vanderbilt

1615EST-1630EST

Thunderstorm Winds

MAY 1991

		TIME			NO.	OF SONS	ESTIMATED DAMAGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED		0.000.00 0.000.00	CHARACTER STORM

			(HIECO)	·	Ď	D	Ř		
MICHIGAN Con	t'd								
	Stro Pov	ong thunder wer lines we	rstorm win ere also blo	ds blew d own down.	own	trees	that fe	ell on	a few homes causing roof damage.
Presque Isle County Onaway	28	1630EST			0	0	3	0	Thunderstorm Winds
	Str	ong thunder	storm win	ds uproote	d mai	ny tre	es nea	r the t	own of Onaway.
Wexford County Cadillac	28	1635EST			0	0	3	0	Thunderstorm Winds
	Str	ong thunder	storm win	ds blew se	veral	trees	down,	, in an	d around the Cadillac area.
Crawford County	28	1645EST- 1715EST			0	0	4	0	Thunderstorm Winds
	Lar	ge trees and	l power lin	nes were d	owne	d in r	nany a	ireas a	cross the county.
Montmorency	28	1709EST			0	0	4	0	Thunderstorm Winds
County		ong thunder inty.	storm win	ds downed	l num	nerous	trees	and p	ower lines in many areas across the
Cheboygan County 8 W Tower	28	1715EST			0	0	4	0	Thunderstorm Winds
	Stro blev this	ong thunders w the roof of time.	storm wind off a mobil	ds blew do e home. N	wn m Iarble	any tr e-size	ees, d hail w	estroye /as rep	ed a shed 8 miles west of Tower, and orted near the town of Tower during
Presque Isle County Onaway	28	1727EST			0	0	3	0	Thunderstorm Winds
	And	other thunde	erstorm ble	ew down n	nore !	trees 1	near th	ie towi	n.
Ogemaw County Northern Portion	28	1740EST			0	0	0.	0	Thunderstorm Winds (G52)
	The	U.S. Fore	st Service	reported w	/ind g	gusts t	to 60 ı	mph in	the northern half of the county.
Alpena County Near Lachine	28	1740EST- 1750EST			0	0	3	0	Thunderstorm Winds
	a b	arn on Barr	y's Farm v	which is lo	cated	west	of Mo	55 on 1	oyed a granary at Standen's Farm and route M32. In this area, many trees no southeast.
Alpena	28	1750EST			0	0	0	0	Thunderstorm Winds
_	Tw	o trees were	e blown do	own at the	Alpe	na Co	untry	Club.	•
Roscommon County					•		•		
Northern Shore of Houghton Lake	28	1745EST			0	0	0	0	Hail (0.75)
TOO SHOULD LAND	Lar	ge hail fell	along the	northern s	hore	of Ho	ughto	n Lake	
Iosco County Hale	28	1810EST			0	0	3	0	Thunderstorm Winds

MAY 1991

		TIME			NO. PEŘ	OF SONS	ESTI!	ATED AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMO	CMWCL221	~- <del></del>	OROAN	CHARACTER OF STORM

	E		(MILES)	(YARDS)	E D	U D D	P.LLES Y	S	STORM
MICHIGAN Con	ıt'd								
	Ver Hal	ry strong the le. This can	understorn used a tem	n winds ble porary los	w do	wn m elepho	any tr	ees and	d some power lines near the town of the area.
Tawas City	28	1810EST			0	0	4	0	Thunderstorm Winds
	Ve	ry strong th	understorn	n winds als	so ble	w do	wn tre	es and	power lines in Tawas City.
Oscoda County Near Comins	28	1825EST			0	0	0	0	Thunderstorm Winds
	Str	ong thunder	storm win	ds blew do	wn n	nany (	rees n	ear the	town of Comins.
Alcona County Glennie	28	1825EST			0	0	4	0	Thunderstorm Winds
	Nu	merous trees	s and power	er lines we	re bl	own d	lown i	n the t	own Glennie.
Gladwin County 12 NE Gladwin	28	1830EST			0	0	0	0	Thunderstorm Winds
	Ver	ry strong wi reported to	nds were personal	reported, t property.	olowi	ng do	wn so	me bra	anches and small trees. No damage
Mescosta County Eastern Portion	28	1845EST			0	0	4	0	Thunderstorm Winds
	line	ong thunders es down acrestly to shing	oss the eas	stern half	of the	e cou	rees an aty. S	id man Some d	y smaller trees, branches, and power lamage was done to several homes,
Oceana County Near Hart	28	1905EST	4.0	60	0	0	5	?	Tornado (F2)
	The	tornado me	oved to the	e north-no	rtheas	st and	then o	crossed	touchdown over Gambles Orchards. I the northwestern edge of the town ed a restaurant.
Saginaw County Buena Vista	28	1900EST			0	0	4	0	Thunderstorm Winds
	Stro	ong thunders	storm wind	ds blew do	wn tı	rees a	nd pov	ver lin	es.
Huron County 7 NW Bad Axe	28	1910EST- 1912EST	0.8	30	0	0	3	0	Tomado (F1)
	dest 90° seve	troyed a 10- , then set d eral witness	- by 50-foo lown 50 fo es from no	ot mobile l eet away. earby home	home No es dic	and a one w I see	a shed. /as in the tor	. The the me mado t	nd Richardson Road. The tornado mobile home was lifted and turned obile home at the time. However, ouch down. Shortly after that, the large trees when the tornado first

Tuscola County
Northeastern 28 1
Portion

28 1920EST 0 0 4 0 Thunderstorm Winds

Trees and power lines were blown down by strong thunderstorm winds. A gust of 53 mph was measured at Caro.

MAY 1991

		TIME	,		NO.	OF SONS	ESTIN DAM/	AATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	ארוישט	-2700mo	~-com00x0	COCODO	CHARACTER OF STORM

MICHIGAN Cor	nt'd						
Huron County Port Hope	28	1955EST	0	0	0	0	Hail (0.75)
Tuscola County Southern Quarter	28	2005EST	0	0	0	?	Flash Flood
of County	To:	rrential rain caused about s done to some crops, bu	50 percent of t no damage	f the :	farm fi nate wa	elds to is avail	be under water. Significant damagable.
Sanilac County Sandusky 4 E Sandusky	28 28	2010EST 2010EST	0	0	0	0	Hail (0.75) Thunderstorm Winds
	Lar	ge trees were blown dow	n 4 miles ea	ist of	Sandu	sky.	
Applegate	28	2010EST	0	0	0	0	Thunderstorm Winds
		ny trees were blown dovorted.	wn in the to	wn o	f Appl	egate;	however, no property damage was
St. Clair County Near Yale	28	2115EST	. 0	0	3	0	Hail (0.88) Thunderstorm Winds
	Stro dov thu	ong thunderstorm winds vn. Damage was limite nderstorm.	caused large d to repairi	bran ng po	ches o wer lir	f trees nes. N	and some power lines to be blown lickel-size hail also fell during the
Near Port Huron	28	2125EST	0	0	0	0	Hail (0.88)
	Nic	kel-size hail fell near the	city of Por	t Hur	on.		
Marine City	28	2140EST	0	0	4	0	Thunderstorm Winds (G56)
	Str	ong thunderstorm winds	blew down 1	ive la	rge tre	es and	many power lines.
Wexford County Near Mesick	29	0615EST	0	0	3	0	Thunderstorm Winds
	Tre	es and some power lines	were damag	ged by	gusty	thunde	erstorm winds.
Charlevoix County	29	0630EST	0	0	3	0	Thunderstorm Winds
•	Vei A v	ry strong winds blew dow waterspout was reported o	n many tree off the coast	s and of Cl	power narlevo	lines i	n many locations across the county
Montmorency Country	29	0700EST	0	0	3	0	Thunderstorm Winds
County	of t	the county. In the south	western port	ion of	f the co	ounty,	is located in the northeastern portion in Lewiston, trees, power lines and or outages from downed lines, in the
Alpena County	29	0715EST	0	0	0	0	Thunderstorm Winds
		nds to 40 mph were repo h hail.	rted near the	towi	n of La	chine.	The city of Alpena reported 0.25
Otsego County Gaylord	29	0745EST	0	0	4	0	Thunderstorm Winds (G53) Lightning

MAY 1991

		TIME			NO. PERS	OF SONS	ESTIN DAM/	ATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	صيدسكا	באשמבר ביי	0.000.W00->-	COCOLO	CHARACTER OF STORM

	<u> </u>		L	<u> </u>	┖				
MICHIGAN Con	t'd								
	Ter the	ns of thousa power loss	ands of Co was light	nsumers Po	ower	custor	ners w	ere wi	thout power. The primary cause of
Iosco County Wurtsmith Air Force Base	29	0748EST			0	0	0	0	Thunderstorm Winds Funnel Cloud
	A f	unnel cloud vn. No wir	d develope nd damage	ed over Wi was report	urtsm ed du	ith Ai	ir Ford	ce Base ent, eve	e, then dissipated without touching en though wind did gust to 60 mph.
5 N Wurtsmith Air Force Base	29	0803EST		-	0	0	3	0	Thunderstorm Winds
Poice Base	Nor line Bas	rth of the ai s. The she e on Inters	r force bas riff's offic tate 41.	se, the thun e also repo	derste orted o	orm ca lebris	auseed over t	strong he road	winds that blew down many power d just north of Wurtsmith Air Force
Saginaw County Brigeport	29	1830EST			0	0	0	0	Hail (0.75)
Bay County Bay City	29	1900EST			0	0	0	0	Thunderstorm Winds
	Stro		rstorm wir	ds blew do	own s I.	even	trees i	n Bay	City. One tree fell on a home and
Saginaw County Frankenmuth	29	1945EST			0	0	0	0	Thunderstorm Winds
	Αb	oranch, 1 fo	oot in dian	eter, was l	blown	dow	n near	the cit	y of Frankenmuth.
Midland County Midland	29	2200EST			0	0	0	0	Thunderstorm Winds
	A l Mic	arge tree v lland.	vas blown	over at the	he co	rporat	te head	dquarte	ers of Dow Chemical Company in
Coleman	29	2200EST			0	0	0	0	Thunderstorm Winds (G52)
	The	Coleman l	Fire Depar	tment repo	orted v	wind g	gust to	60 mj	ph.
Arenac County Standish	29	2245EST			0	0	3	0	Thunderstorm Winds
	Sev fror	eral large ti n downed l	rees were t ines.	olown down	n neai	the to	own o	f Stand	ish. This resulted in power outages
Gladwin County 10 NE Gladwin	29	2305EST			0	0	0	0	Thunderstorm Winds
	Mai min	ny trees we utes during	ere blown this storn	down 10 r n. Howeve	niles er, no	northe majo	east of or dam	Gladv age wa	vin. Two inches of rain fell in 20 is reported to personal property.
Ogemaw County West Branch	29 30	2355EST- 0400EST			0	0	0	0	Thunderstorm Winds Flash Flood

Several trees were blown down in the town of West Branch. Very heavy rain caused three roads to wash out, but no personal property damage was reported.

**MAY 1991** 

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	D LOCAL T STANDARD		LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KX	CM20CCZ1	- <del>сошоо-</del> -	COCOCA	CHARACTER OF STORM
MICHIGAN Cor	nt'd								
Berrien County Benton Harbor Coloma	30	2025EST			0	0	2	0	Thunderstorm Winds
	Sev blo	eral large tr wn down in	ees were l the storm	blown down. This rea	vn by sulted	stroi in sc	ng thui cattered	ndersto 1 powe	rm winds. Some power lines w r outages.
Ottawa County Spring Lake	30	1944EST- 1945EST	4.0	30	0	0	3	0	Tornado (F1)
	A s mir	mall tornado or damage	o briefly to was done t	ouched do to the hon	wn in ne and	the t	own o w tree:	f Sprin s near	g Lake on Woodcrest Street. So
Countywide	30	2000EST			0	0	3	0	Thunderstorm Winds Lightning
	In y onl sma	western Mic y minor dan all trees to b	higan, 12, age was ro e blown d	000 home eported. own.	es los Stron	t pow g thu	er and ndersto	lightn orms w	ing strikes caused several fires, inds causes a few large branches
Berrien County St. Joseph	31	1650EST			. 0	0	2	0	Hail (1.75)
	The sha	ere were mar ttered by the	ny reports e hail.	of 0.75- to	1.75	5-inch	hail.	Some	windows were reported to have b
Niles	31	1650EST			0	0	2	0	Thunderstorm Winds
		ong thunders re uprooted.	storm wind	ls blew the	wind	lows a	and do	ors off	a storage shed and several large tr
Cass County 3 SW Cassopolis	31	1720EST			0	0	0	0	Funnel Cloud
	The	Michigan S	State Polic	e reported	la fu	nnel c	loud.		
Edwardsburg Union	31	1735EST			0	0	2	0	Thunderstorm Winds
	The	schariff's of	ffice repor	tad cavara	1 traa	e blos	un das	un alor	og II C Highway 12

The sheriff's office reported several trees blown down along U.S. Highway 12.

Saginaw County Near Saginaw

1755EST-1830EST 31 0 0 0 Thunderstorm Winds

Very strong thunderstorm winds caused considerable damage in many sections of the city of Saginaw. Trees up to 6 inches in diameter were blown down in many parts of the city. Significant damage was reported to many homes, cars, and businesses. Many power lines were blown down. On the northwestern side of the city, a large stack of 4- by 8-foot sections of plywood were blown up to 40 feet away. Pea-size hail was also reported in several areas of the city.

31 1815EST

0

Thunderstorm Winds

Trees were reported blown down in Shields, 4 miles west of Saginaw.

**Tuscola County** Reese

Shields

31 1820EST

Flash Flood

MAY 1991

		TIME			NO. PER	OF SONS	ESTI!	MATED NGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Kirimo	סתשכריבי	₽.&Oo.u.∞->-	CEOPO	CHARACTER OF STORM

#### MICHIGAN Cont'd

Very heavy rains caused several streets to look more like lakes and rivers. No significant damage was done to personal property.

St.	Clair outher	Co	ounty	1
S	outher	n l	Porti	Of

31 1915EST-1955EST

0 0 0 0 Hail (0.75)

Many reports were received of 0.25- and 0.75-inch hail between Capac, in southwestern St. Clair County, and Marine City, in southeastern St. Clair County.

#### Washtenaw County Salem

31 1915EST

1 0 0 Thunderstorm Winds (G52)

Strong thunderstorm winds blew down tree branches over northeastern Washtenaw County. One tree branch fell on the head of Paul J. Domen while he was golfing with his wife. He died at St. Joseph Mercy Hospital a short time later from head injuries. Wind gusts were reported to 60 mph at the time. (M??O)

#### Wayne County 1 W Sheldon

31 1920EST

0 0 3 0 Thunderstorm Winds (G52)

Very strong thunderstorm winds uprooted several large trees near the town of Sheldon which is located in extreme west-central Wayne County. Winds gusted to 60 mph and one tree fell on a car causing considerable damage.

#### St. Clair County Memphis

31 1925EST

0 0 0

Thunderstorm Winds (G52)

Two large trees were uprooted in the town of Memphis.

Marine City

31 1940EST

0 0

Λ

Thunderstorm Winds (G52)

Four large trees were uprooted in Marine City as the thunderstorms passed overhead.

#### **MINNESOTA**

Nicollet, Blue Earth, Dodge, Steele, Olmstead, and Mower Counties

04 2300CST-05 1400CST

0 0 ? ? Flood

Persistent 1.00 to 3.00 inches of rain fell on already-saturated ground and resulted in some localized flooding in parts of south-central and southeastern Minnesota. Many small streams and rivers overflowed their banks and some roads and highways in Nicollet, Blue Earth, Dodge, Olmstead, and Mower Counties were flooded, requiring barricades. A mudslide near Mankato spread 6 to 8 inches of mud onto one lane of Highway 169, limiting traffic to a single lane for a time.

Clay County Moorhead	12	2046CST	0	0	0	?	Hail (0.75)
Pope County Terrace Mossicon County	12	2220CST	0	0	0	?	Hail (0.75)
Morrison County North Prairie Little Falls	12 12	2320CST 2335CST	0	0	2	?	Hail (1.25) Thunderstorm Winds (G61) Hail (0.75)
Benton County Mathew	12	2355CST	0	0	4	?	Thunderstorm Winds
Wright County 4 E Buffalo	13	0006CST	0	0	?	?	Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	ATED GE	
PLACE	DAD-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLWO	CIMPOCLE	~- <del>∞</del> 00000->-	CEOLO	CHARACTER OF STORM

## MINNESOTA Cont'd

	approached into eastern central sec causing sporadic damage reports.	tions. Large	The s hail line	torms broke moved	produc windo	sota and gradually weakened as they ced large hail and strong wind gusts ws out of a farm building in North the Mathew (Benton County), strong to a truck. About 4 miles east of yed and 2- by 10-inch boards were all large trees were also uprooted or					
Chippewa County Wegdahl 2 S Montevideo	14 1854CST 14 1905CST	0	0	0	?	Hail (0.75) Hail (0.75)					
Faribault County Wells	16 1358CST	0	0	0	0	Funnel Cloud					
Stearns County St. Cloud	16 1410CST	0	0	4	0	Lightning					
	Lightning struck a television antenresultant fire produced damage in	na and excess	travel of \$1	ed up 0,000	the lea	d wire into the attic of a home. The s.					
Martin County Fairmont	16 1420CST	0	0	0	0	Funnel Cloud					
	A funnel cloud was reported north of the airport in Fairmont.										
Hennepin County Mound Spring Park	26 2345CST	0	0	?	?	Thunderstorm Winds					
Spring Park Orono	26 2350CST	0	0	?	?	Thunderstorm Winds					
	Strong thunderstorm winds downe vicinities.	d mar	ny larg	e tree	s in th	e Mound, Spring Park, and Orono					
Olmsted County Rochester Rochester Rochester	27 1407CST 27 1430CST 27 1440CST	0 0 0	0 0 0	?	?	Hail (1.00) Thunderstorm Winds Hail (2.75)					
Winona County St. Charles	27 1449CST	0	0	0	?	Hail (0.75)					
	Strong thunderstorms developed ov winds in the vicinity of Rochester. southwestern portion of Rochester a of strong wind and large hail did s	er wes Betweend sti ignifi	stern O een 14 11 had cant da	lmsted 15 and not me amage	d Coun l 1445 elted al to tree	ty and produced large hail and gusty CST, hail covered the ground in the cout 3 hours later. The combination is and automobiles.					
Wright County Delano	28 0310CST	0	0	?	?	Thunderstorm Winds					
	A large tree was blown down and	block	ed the	road f	or a ti	me.					
Pipestone County Ihlen	28 0625CST	0	0	?	?	Thunderstorm Winds Hail					
Woodstock	28 0633CST	0	0	?	?	rian Thunderstorm Winds Hail					
Murray County						пан					

	A large tree was blown down and blocked the road for a time.										
Pipestone County Ihlen	28	0625CST	0	0	?	?	Thunderstorm Winds Hail				
Woodstock	28	0633CST	0	0	?	?	Thunderstorm Winds Hail				
Murray County Slayton 7 E Fulda	28 28	0700CST 0725CST	0	0	?	?	Hail (1.00) Hail (0.88)				

MAY 1991

		TIME			NO.	OF SONS	EST IN	MATED	
PLACE	PE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L IEO	Omaccia.	-<	CECAN	CHARACTER OF STORM

#### MINNESOTA Cont'd

Nicollet County St. Peter	28	0828CST	0	0	?	?	Thunderstorm Winds (G52)
	A 1	ocal radio station measured a wi	nd gu	ist to 6	60 mpl	1.	
Blue Earth County 5 N Mankato Le Sueur County	28	0828CST	0	0	?	?	Thunderstorm Winds
1 E Kasota	28	0829CST	0	0	?	?	Thunderstorm Winds Hail (1.50)
Blue Earth and Nicollet Counties	•	•					
N Mankato	28	0830CST	0	0	?	?	Hail (1.75)
Sibley County 1 S Arlington	28	0830CST	0	0	?	?	Thunderstorm Winds
Waseca County Northern Portion Rice County	28	0845CST	0	0	?	?	Thunderstorm Winds
Faribault 3 SW Faribault Northfield Richland Township	28 28 28 28 28	0900CST 0904CST 0905CST 0910CST	0 0 0	1 0 0 0	????	???	Thunderstorm Winds Hail (1.00) Thunderstorm Winds Thunderstorm Winds
Goodhue County Kenyon Red Wing	28 28	0925CST 0938CST	0	0	0 ?	?	Hail (0.75) Thunderstorm Winds (G50)
Wabasha County Zumbro Falls	28	1000CST	0	0	?	?	Hail (1.75)

A small complex of thunderstorms moved into southwestern Minnesota and developed the characteristics of a "bow-echo". The thunderstorm complex continued to move rapidly across southern Minnesota, reaching forward speeds in excess of 50 mph. Large hail, in combination with high winds, did extensive damage to area crops and property.

High winds and hail pelted the Ihlen and Woodstock vicinities of Pipestone County. At least 150 acres of crops were stripped, many trees were downed, and several homes were damaged by flying debris. As the storm moved through southern Minnesota, strong winds blew 15 trees and 5 power poles down and stripped shingles from a number of homes, 5 miles north of Mankato. Thunderstorm winds blew a truck camper a few hundred feet into a nearby field and a tree fell onto a mobile home causing extensive damage, 1 mile east of Kasota (Blue Earth County). Winds downed numerous trees and power lines approximately 1 mile south of Arlington and across northern Waseca County. A spire was blown onto the roof of a cathedral causing extensive damage, and a large tree fell onto a car crushing the car and injuring the driver in Faribault (Rice County). A dozen trees were uprooted and several grain bins tipped over on a rural farmsite near Northfield/Richland Township (Rice County).

Oak Center	28	1005CST			0	0	?	?	Hail (1.00)
Lincoln County Tyler Redwood County	28	1840CST			0	0	?	?	Hail (1.50)
3 N Walnut Grove	28	1903CST			0	0	?	?	Hail (1.75)
Lyon County 2 N Russel	28	1915CST	1.0	10	0	0	?	?	Tornado (F1)

A small tornado destroyed a shed, tore shingles from the roof of a home, uprooted several trees, and downed power lines.

	1920CST 1922CST	0	0	?	?	Hail (3.25) Hail (2.75)
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MAY 1991

		TIME			NO. PER:	OF SONS	EST IN	ATED AGE	
PLACE	D B E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLUD	OHOC-2-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CECOEN	CHARACTER OF STORM

## MINNESOTA Cont'd

Anoka County 1 E Bethel

**McLeod County** 

Hutchinson

28 2031CST

28 2035CST

	cro	ge hail fell in a 5- to 10-mile-v ps and homes. At least 10,000 small grains and alfalfa were da	acres	of co	cross I	Lyon C l soybe	County causing extensive damage to eans were stripped, and 2,500 acres
Redwood County Milroy	28	1929CST	0	0	?	?	Hail (1.75)
Kandiyohi County Prinsberg Pennock	28 28	1937CST 1937CST	0	0	0 ?	?	Hail (0.75) Lightning
	Lig bet	htning caused a fire that destroy ween 1930 and 1940 CST, throi	yed a ughou	barn.	Sever county	ral repo	orts of 0.75-inch hail were received
Redwood County Wabasso	28	1940CST	0	0	?	?	Hail (4.50) Thunderstorm Winds
	Stro	ong winds, combined with large ps. Leaves were shreaded from	e hail trees	, caus , and	ed ext windo	ensive ws we	damage to several homes and area re broken on many cars and homes.
Wright County Annandale	28	1945CST	0	0	?	?	Thunderstorm Winds
	Thu	ınderstorm winds downed sever	al lar	ge tree	s that	resulte	ed in a power outage in the city.
1E to 5E	28	2000CST	0	0	?	?	Hail (1.75)
Monticello	A 4	I-mile-long and 2-mile-wide pat	h of l	nail br	oke w	indows	on cars and area homes.
Anoka County Coon Rapids Circle Pines	28	2015CST	0	0	?	?	Hail (1.75) Thunderstorm Winds
	Sev	eral large trees and power lines	were	down	ed du	e to str	ong thunderstorm winds.
Brown County Essig	28	2015CST	0	0	?	?	Hail (1.75)
Redwood County Morgan	28	2020CST	0	0	?	?	Hail (2.75) Thunderstorm Winds
	Stro	ong winds, combined with large	hail,	cause	d exte	nsive o	damage to homes and cars.
Brown County 8 SW Sleepy Eye	28	2030CST	0	0	0	0	Funnel Cloud
	The Eye	e Brown County Sheriff's Office. The funnel did not reach the	e repo	orted and	brief gradi	funne ually d	cloud 8 miles southeast of Sleepy issipated.
Sibley County 1 S Arlington	28	2030CST	0	0	?	?	Thunderstorm Winds
	Stro	ong winds blew several power l	ines d	lown.			

0 5 Thunderstorm Winds

?

Hail (1.25)

?

MAY 1991

		TIME			NO. PER:	OF SONS	ESTII DAM/	MATED AGE	
PLACE	DOFE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-MD	OMMCLZH		CACOAC	CHARACTER OF STORM

MINNESOTA C	ont'	d					
	Hi; dai	gh winds tore the roof from a 2 mage. About 50 to 100 trees we	4-un ere bl	it apar own d	tment own b	buildi y stro	ng, causing at least \$50,000 dollars ng downburst winds.
Anoka County 1 W Stacy Sibley County	28	2041CST	0	0	?	?	Hail (2.50)
Gibbon	28	2045CST	0	0	0	?	Hail (0.75)
	Nu Gil	merous reports of 0.75-inch hail	l, wit	hin a	10-mii	nute sp	oan, were received in the vicinity of
Wright County Eastern Portion McLeod County	28	2050CST	0	0	0	?	Hail (0.75)
Silver Lake	28	2052CST	0	0	0	?	Hail (0.75)
Mille Lacs County Princeton	28	2100CST	0	0	?	?	Thunderstorm Winds
	Nu	merous large trees and power po	oles v	vere b	lown d	lown c	lue to strong winds.
Carver County Norwood	28	2110CST	0	0	?	?	Thunderstorm Winds
	Sev	veral large trees and power lines	were	down	ed du	e to st	rong winds.
Chisago County Taylors Falls	28	2110CST	0	0	?	?	Thunderstorm Winds
	Αı	number of large trees and power	lines	were	blown	dowr	due to strong winds.
Scott County Shakopee	28	2130CST	0	0	?	?	Thunderstorm Winds
	Sev	veral large trees and power lines	were	down	ed due	e to st	rong thunderstorm winds.
Carver County Carver	28	2135CST	0	0	?	?	Thunderstorm Winds
	Th	understorm winds downed severa	al lar	ge tree	s and	power	lines.

Nicollet and Le Sueur Counties Le Sueur

28 2135CST

Hail (1.75)

Golf ball-size hail pounded northeastern Nicollet and northwestern Le Sueur Counties in and around the city of Le Sueur, between 2135 CST and 2150 CST. Strong thunderstorm winds accompanying the hail downed trees and power lines.

Anoka County Anoka	28	2139CST	0	0	?	?	Thunderstorm Winds (G54)
Hennepin County Maple Grove Minneapolis	28 28	2140CST 2145CST	0	0	0 ?	?	Hail (0.75) Thunderstorm Winds
Le Sueur County Le Sueur	28	2150CST	0	0	?	?	Hail (1.75)
Anoka County Ham Lake	28	2159CST	0	0	?	?	Hail (1.75)

MAY 1991

		TIME			NO. PER	OF SONS	ESTIP DAM/	ATED AGE	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	סוומכרביי	~~O~~~~~	CEOPN	CHARACTER OF STORM

### MINNESOTA Cont'd

Princeton

Ramsey County St. Paul	28	2200CST-		, '			
Dei 4 1001	20	2210CST	0	0	?	?	Thunderstorm Winds Hail (1.00)
Maplewood Dakota County	28	2200CST	0 -	1	? .	?	Thunderstorm Winds
Inver Grove Heights	28	2210CST	0	0	?	?	Thunderstorm Winds
Hastings	28	2210CST	0	0	0	?	Hail (0.75)
Washington County Central Portion	28	2220CST- 2235CST	0	0	?	?	Thunderstorm Winds
Kandiyohi County Willmar	28	2317CST	0	0	0	?	Hail (0.75)

Another large thunderstorm complex developed over southern Minnesota during the evening and traveled rapidly east across the region. A single "super cell" moved into southwestern Minnesota (Lyon County) dropping a small tornado and extremely large hailstones. As the storm propagated east, additional development occurred and eventually resembled a "bow echo" type thunderstorm complex. Widespread wind damage reports occurred across the southern quarter of the state. As the storm moved into Minneapolis, strong winds blew down 40 to 50 trees and two area television stations were off the air for a short time. Forty trees were blown down as the storm roared through St. Paul and metal sheathing was stripped from the upper floor of a large building. Strong winds toppled a 60-foot cottonwood tree onto a home, smashed through an upstairs bedroom wall, and injured a 5-year-old boy (Maplewood). A total of 42,000 customers throughout the metropolitan area lost power as the storm blew across the area. Widespread wind damage occurred in central Washington County with wind gusts estimated in excess of 60 mph. The projection screen of a drive-in theater was damaged as the storm moved through the county and a partial roof collapse ocurred at a bowling alley in Inver Grove Heights (Dakota County).

	(Dakota County).	partial fool compo	0001100		owning unoy in mivor chove freights
Stearns County Freeport	29 0050CST	0 0	0	?	Hail (0.75)
Jackson County Jackson	29 0210CST	0 0	?	?	Thunderstorm Winds
	Strong thunderstorm wind	ds blew a large tre	e on a ho	me ca	using extensive damage.
Benton County Rice	29 0235CST	0 0	0	?	Hail (0.75)
McLeod County Hutchinson	29 0250CST	0 0	?	?	Thunderstorm Winds
	Several large trees and po	ower lines were do	wned due	to st	rong thunderstorm winds.
Wright County Western Portion	29 0300CST	0 0	?	?	Thunderstorm Winds
	Strong thunderstorm wind	ds downed several	large tree	es.	
Sherburne County Becker Clear Lake	29 0320CST	0 0	?	?	Thunderstorm Winds
Cital Lake	Numerous trees and outbuilds.	iildings were dama	ged on tw	o rura	al farmsteads by strong thunderstorm
Mille Lacs County 3 W to 2 SE	29 0330CST	0 0	?	?	Thunderstorm Winds

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAMA	AATED	
PLACE	DAN	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KI LLED	CHACLE	~	CCCOLO	CHARACTER OF STORM

					<u></u>	<u> </u>	Y	L	
MINNESOTA C	ont'o	d							
	Tw	o garages wong winds.	ere move	d off their	found	lation	s and a	numb	er of trees were blown down due to
eeker County Dassel Darwin	30 30	1345CST 1405CST		Narrow Narrow	0	0	0	0	Tornado (F0) Tornado (F0)
	Tw	o small, sho	rt-lived to	ornadoes to	uched	dowr	ı briefl	y in Da	arwin and Dassel leaving no damage.
ennepin County I E Minneapolis Bloomington Bloomington Richfield 1.5 to 0.5 W International Airport	30 30 A s	veled northe	nundersto ast. A	weak tornā	do to	uchec	l down	ina	Funnel Cloud Tornado (F0) Funnel Cloud Tornado (F0) Funnel Cloud vin Cities International Airport and small subdivision in Bloomington, and. As the storm moved east, the
	ton to t few	nado lifted a	nd a funn nd touch The thu	el cloud wa ed down bi inderstorm	s obseriefly move	erved in Ri ed tow	over ea	astern l	Bloomington. The funnel descended king some branches and uprooting a national Airport (MSP) and a funnel
Stearns County 4 S Augusta Sherburne County Haven Township	30	1500CST	Short	Narrow	0	0	0	0	Tornado (F0)
	30	1506CST	Short	Narrow	0	0	0	0	Tornado (F0)
arns County S St. Cloud	30	1509CST	Short	Narrow	0	0	0	0	Tornado (F0)
erburne County E St. Cloud	30	1521CST	Short	Narrow	0	0	0	0	Tornado (F0)
	Sev min	eral short-li nutes. The t	ved torna ornadoes	does were touched do	obser own b	ved in oriefly	n the v	icinity nen dis	of St. Cloud in a span of about 20 sipated causing no damage.
ikota County S. St. Paul	30	1523CST			0	0	?	?	Hail (1.00)
ashington County Newport	30	1528CST			0	0	0	0	Hail (0.75)
ISSISSIPPI									
anklin County NW Roxie	02	1633CST			0	0	2	0	Thunderstorm Winds
	Sev	eral trees an	d two ut	ility poles	were l	blown	down	along	Highway 33.
lams County 2 S Natchez	04	0030CST			0	0	2	0	Thunderstorm Winds
	Sev	eral trees we	ere blowi	down.					
ilkinson County E Woodville	04	0050CST			0	0	2	0	Thunderstorm Winds
	Two	o trees were	blown d	own along	High	way 2	24.		
ashington County	05	0110CCT			Λ	Λ	2	^	Thundaestaes Winds

2 S Greenville 05 0110CST

2 0 Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	ATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	I NOT DE LE	~-cam.co.za.c	CCCC	CHARACTER OF STORM

	Ц.,	<u> </u>				LL			
MISSISSIPPI Co	nt'd	1							·
	Sev	veral trees we	re blown	down and	seve	ral hou	ises ha	d roof	damage.
Pontotoc County Randolph	05	0300CST			0	0	2	0	Thunderstorm Winds
	Sev	veral large tre	es and po	wer lines	were	blown	down	l <b>.</b>	
Lee County Guntown	05	0310CST			0	0	2	0 :	Thunderstorm Winds
	Sev	veral trees and	d power li	nes were	blow	n dow	n in th	e Alpii	ne area of western Guntown.
Leflore County Minter City	05	0749CST			0	0	0	0	Hail (0.80)
	Nic	ckel-size hail	covered th	ne ground					
Carroll County 4 NW Centerville		0805CST			0	0	0	0	Thunderstorm Winds (G52)
	Gre	eenwood Airp	ort (GWC	) recorde	d a 5	2-knot	gust.		
Tallahatchie County Charleston	05	0830CST			0	0	3	0	Flash Flood
	An we	observer, ne re flooded in	ar Charles and aroun	ton record	ded 1 ton.	.80 in	ches o	f rain i	n 1 hour. Many streets and roads
Lafayette County	05	0900CST			0	0	2	0	Thunderstorm Winds
	Sev	eral trees and	l power li	nes were	blowi	ı dowi	in se	veral le	ocations throughout the county.
Pontotoc County			•						
Pontotoc County Endville	05	0900CST			0	0	2	0	Thunderstorm Winds
	Nu	merous trees	and power	r poles we	ere bl	own d	own.		
Yallobusha County 6 E Coffeville	05	0915CST	2.0	100	0	0	4	0	Tornado (F1)
	A t	tornado dama nobile home a	ged five c ind severa	otton trail I trees.	ers a	nd the	shingl	es on	a house, and completely destroyed
Chickasaw County 1 N Woodland 4 W Buena Vista	05	0915CST	11.0	880	0	0	5	0	Tornado (F1)
4 W DUCIE VISIS	A nur	tornado dama nerous trees a	aged five along its p	houses, a	rolled lown	over ed mar	severa y pow	al veh /er line	icles, blew down or snapped offes.
4 S Houston Clay County	05 05	0915CST 0926CST			0	0	0	0	Hail (0.80) Thunderstorm Winds
	Sev	eral large lim	ıbs were bl	own off to	rees o	nto po	wer lir	nes ove	r the western section of the county.
Lee County Shannon	05	0940CST			0	0	2	0	Thunderstorm Winds
	Sev	eral trees and	l power li	nes were	blowi	ı dowi	1.		
Baldwyn	05	0940CST			0	0	2	0	Thunderstorm Winds

MAY 1991

		TIME	,		NO.	OF SONS	EST IN	MATED NGE	
PLACE	DA)-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLUMO	OMXC.Z-	~~~~~~~~~~~	೧೮೦೮೧	CHARACTER OF STORM

MISSISSIPPI Co	nt'd													
	A f	few large limbs were blown off	trees.											
Tupelo	05	0945CST	0	0	3	0	Thunderstorm Winds							
	Nu	Numerous trees and power lines were blown down throughout the city.												
Monroe County	05	0945CST	0	0	2	0	Thunderstorm Winds							
	A f	few large trees were blown onto	powe	r lines	in the	easte	rn section of the county.							
Lowndes County 3 NW Columbus	05	1005CST	0	0	2	0	Thunderstorm Winds							
	Sev	veral large trees were uprooted.												
Oktibbeha County	05	1010CST	0	0	2	0	Thunderstorm Winds							
	Sev	eral trees were blown down thre	ougho	ut the	count	у.								
Lowndes County 3 SW Caledonia	05	1015CST	0	0	5	0	Thunderstorm Winds							
	Straight-line thunderstorm winds destroyed ten barns, sheds, and shops, four homes receive major roof damage, two cars were damaged, and up to 100 trees were blown down or snappe off.													
Kemper County 6 S to 8 SW De Kalb	05	1105CST	0	0	3	0	Thunderstorm Winds							
DO RMO	Nu	Numerous trees were blown down.												
Jones County 5 N Laurel	05	1135CST	0	0	2	0	Thunderstorm Winds							
•	Sev	eral trees and power lines were	blow	n dow	n.									
Lauderdale County 6 SE Meridian	05	1142CST	0	0	0	0	Hail (0.80)							
Clarke County Enterprise	05	1215CST	0	0	4	0	Thunderstorm Winds							
	Nu	merous trees were blown down,	and t	he roo	fs of s	everal	houses were damaged.							
Copiah County Hopewell	05	1530CST	0	0	0	0	Flash Flood							
	Ho	pewell River Road was under wa	ater.											
Pike County 3 NE McComb	05	1600CST	0	0	0	0	Hail (0.80)							
Lamar County Purvis	05	1603CST	0	0	0	0	Hail (1.00)							
Forrest County Hattiesburg	05	1610CST	0	0	4	0	Thunderstorm Winds							
. :	Tw	o trees were blown down, and o	ne la	nded o	n a ho	use.								
Sunflower County 3 SW Inverness	05	1910CST	0	0	4	0	Thunderstorm Winds							
		← 1 ← 1 ← 1 ← 1 ← 1 ← 1 ← 1 ← 1 ← 1												

MAY 1991

		TIME			NO. PER:	OF SONS	ESTIN DAMA	AATED	
PLACE	DA)-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L ED	OmbCc2-	<b>√−∞m±0</b> 0æ0	CEOPO	CHARACTER OF STORM

Pontotoc County Algoma

13 1642CST

		<u></u> _			L		Ý		
MISSISSIPPI Con	nt'd						۸		
	The dov	e wall of an wn. The tin e hail occur	airplane la from the red for 15	nanger was roof of the minutes ar	blov hang nd cau	vn in, er wa ised r	and ous blow	one airp vn over roof da	plane was pulled loose from its tir a half mile away. Pea- to marble mage.
Humphreys County 7 W Isola	05	1910CST			0	0	4	0	Thunderstorm Winds
	Hig fro	gh wind toro m a shed, a	e an aspha nd knocke	lt roof off d down a f	a sho	p, rea	noved satell	1,500 ite dish	to 2,000 square feet of tin roofin
Adams County 3 NE Natchez	05	2115CST			0	0	2	0	Thunderstorm Winds
	Thr	ee trees we	re blown o	lown along	g Pine	Ridg	e Roa	d.	
Rankin County 2 SW Puckett	05	2315CST	•		0	0	2	0	Thunderstorm Winds
	Tw	o trees were	e blown do	own on She	ell Ro	ad.			
Smith County 1 W Raleigh	05	2345CST	• .		0	0	3	0	Thunderstorm Winds
	Hig	sh wind dan	naged the	roof of one	hous	e.			
Jasper County 15 NE Bay Springs	06	0030CST			0	0	2	0	Thunderstorm Winds
	A c	ouple of tre	es were b	lown down	. On	e larg	ge tree	broke	off 4 feet above the ground.
George County	10	1600CST			0	0	5	0	Flash Flood
	was	enty-five ho shed out exp pman.	omes were oosing utili	flooded in ty lines an	the so	outher es. Se	n part everal	of the mobile	city of Lucedale, and one street wa homes were washed into a creek i
Pearl River County Picayune	10	2200CST			0	0	5	0	Flash Flood
		ne homes we naged.	ere flooded	l and a doz	zen bi	ısines	ses we	ere floc	oded. Many roads and streets wer
Bolivar County Rosedale	11	0800CST- 1100CST			0	0	5	0	Flash Flood
	Thr	ee business	es and ten	homes we	re flo	oded	due to	heavy	rains.
Countywide	11	1942CST			0	0	4	0	Thunderstorm Winds
	Nu	merous tree	s and powe	er lines we	re blo	own d	own a	cross a	portion of the county.
Lauderdale County 5 N to 8 E Meridian	12	1445CST			0	0	2	0	Thunderstorm Winds
<del>-</del>	-	-						_	

Several trees were blown down and were blocking roads at both locations.

Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAMA	MATED NGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Kirino	סששכרציי	о ∞Оошо>->	Oxorn	CHARACTER OF STORM

### MISSISSIPPI Cont'd

Strong wind blew the roof off of a barn, and blew the porch off of a mobile home, and uprooted several large trees.

Jones County 2 SE Laurel	16	1640CST	0	0	0	0	Hail (0.80)
Jasper County 7 NW Bay Springs Noxubee County	16	1814CST	0	0	. 0	0	Hail (0.80)
Macon Calhoun County	17	1609CST	. 0	0	0	0	Hail (0.75)
Calhoun City	26	1200CST	0	0	5	0	Flash Flood

Rising water damaged six homes, washed out two bridges, and damaged several roads.

Itawamba County 26 2100CST 0 0 6 0 Flash Flood

Nearly 8.00 inches of rain fell across the county in a 24-hour period flooding roads and homes, and washing out several bridges.

Tishomingo County Iuka

26 2200CST 0 0 6 0 Flash Flood

Up to 14.00 inches of rain fell across the county in just over 24 hours. Widespread damage was reported across the county to roads and bridges. In Iuka, 12 homes were flooded. Some of the homes had as much as 6 feet of water in them.

Lee County

27 0300CST 0 0 6 0 Flash Flood

Flood waters caused closing of 50 to 60 percent of the roads within the county, flooded at least three homes, and damaged four bridges.

Adams County Natchez Natchez MSZALL

28 1325CST 0 0 0 0 Hail (1.75) 28 1350CST 0 0 0 0 Hail (1.75) All Month 0 0 8 8 Flood

The month of May 1991 was one of the wettest months of all time across Mississippi, especially over the northeastern, east-central, southeastern, and coastal sections of the state. Normal rainfall for May ranges from 3.80 inches over east-central to 5.98 inches over southwestern Mississippi. Actual rainfall for the month ranged from 5.88 inches at Clarksdale to a record setting 23.36 inches at Guntown. The 6.00- to 9.00-inch totals over the western third of the state represented the "dry area". Widespread rainfall amounts of 12.00 to over 22.00 inches covered the northeastern and southeastern corner of the state. Rainfall in these areas represented about 300 to 500 percent of the normal May rainfall.

As was the case in April of 1991, May had a ceaseless cycle of one storm system after another. The already-high water and flooding that occurred in April was only pushed higher in the month of May. Nearly every basin in the state was flooded during the month and did not begin to fall until near the end of the month.

A total of 32 counties in the state were declared disaster areas by the Governor of the State and the Federal Emergency Management Agency. It was estimated that over two million acres of land were under water, and 1,700 homes were damaged for a total of approximately \$279 million in farmland and property loses.

#### **MISSOURI**

Bates County N Rich Hill

03 2256CST

0 0 1 0 Hail (1.00)

MAY 1991

		TIME	<del>.</del>		NO. PERS	OF SONS	EST II	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	صييد د کد	وسعودجي		CEOPN	CHARACTER OF STORM

MISSOURI Cont	t'd						
	Hai	1 from 0.75- to 1.00-inch diame	ter w	as rep	orted.		
Holt County Mound City	04	1350CST	0	0	2	1	Hail (1.25)
	Mo	unt City reported hail to 1.25-in	ch di	ametei	r <b>.</b>		
Buchanan County St. Joseph	04	1440CST	0	0	1	0	Hail (0.75)
	Hai	1 to 0.75-inch diameter and very	heav	y rain	was 1	reporte	d.
Andrew County Helena	04	1500CST	0	0	1	0	Hail (0.75)
	In F	Plattaburg, hail to 0.75-inch diar	neter	was r	eporte	d.	
Clinton County Plattsburg	04	1410CST	0	0	2	1	Hail (1.25)
	Hai	I to 1.25-inch diameter was repo	orted.				
Harrison County E Bethany	04	1448CST	0	0	1	0	Hail (0.75)
	Hai	1 to 0.75-inch diameter was repo	orted.				
Caldwell County Polo	04	1450CST	0	0	1	0	Hail (0.75)
	Hai	l to 0.75-inch diameter was repo	orted.				
Andrew County S of Savannah	04	1945CST	0	0	1	0	Hail (0.75)
	Hail	1 to 0.75-inch diameter was repo	orted.				
Pettis County 10 NW Sedalia	04	1810CST	0	0	0	0	Funnel Cloud
	A fi	unnel cloud was reported by the l cloud also reported.	publ	ic and	radar	indica	ited a possible tornado. A rotating
Houstonia	04	1830CST	0	0	1	0	Hail (0.75)
Buchanan County N St. Joseph	04	1836CST	0	0	2	1	Hail (1.25)
	Hail	l up to 1.25-inch diameter was r	eport	ed.			
Faucett	04	2035CST	0	0	2	0	Thunderstorm Winds
	Thu	inderstorm winds produced light	dama	age.			
Johnson County Holden	04	2045CST	0	0	2	1	Hail (1.25)

Hail (1.00) Hail (0.75)

Hail up to 1.25-inch diameter was reported.

04 2130CST 04 2152CST

Jasper County Duenweg W Sarcoxie

MAY 1991

		TIME			NO. PER	SONS	EST I	AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I LEO	CMWCLZ-1	4-89m30303	CEOTA	CHARACTER OF STORM

		(MILES)	(YARDS)	Ď	O SZED	E PC Y	S	
MISSOURI Con	t'd							
	One-inch-dian diameter was	neter hail w reported ju	as reported	d at 2 Sarco	2130 ( xie at	CST ii 2152	n Duen CST.	weg. Hail measuring 0.75 inch
Newton County Near Saginaw	04 2130CST	•		0	0	0	0	Hail (0.75)
	Near Saginaw	, 0.75-inch	-diameter l	nail w	as rej	ported		
Lawrence County Near Miller	04 2200CST	•		0	0	0	0	Hail (0.75)
	Hail, measuri	ng 0.75-inc	h in diame	ter, v	vas re	ported	l near N	Miller.
Greene County N Springfield S Springfield	04 2243CST 04 2253CST	•		0	0	0	0	Hail (0.75) Hail (1.00)
	At 2243 CST reported, and	in northe	rn Springf Springfiel	ield, d ten	0.75- minu	inch-cites lat	liamete er.	r and 1.00-inch-diameter hail w
Camden County Northwestern Portion	12 0730CST	•		0	0	3	0	Flash Flood
	Campers were	forced to I	nigher grou	ind a	nd str	anded	due to	flash flooding.
Benton County Near Cole Camp	12 0810CST	•		0	0	4	0	Flash Flood
	U.S. Highway	7 65 was un	der water.					
Camden County	12 0825CST	•		0	0	5	0	Flash Flood
	The State Wat	er Patrol re	ported that	t seve	eral ho	omes v	vere cu	t off by rising water.
Pettis County Lincoln Cole Camp	12 0840CST	1		0	0	3	0	Flash Flood
• • • • • • • • • • • • • • • • • • •	U.S. Highway	65 was im	passable d	ue to	flash	flood	ing.	
Dent County Near Salem Pettis County	12 0843CST			0	0	0	0	Hail (1.75)
Benton	12 0941CST			0	0	6	0	Flash Flood
	Numerous gra flooding. Gol	ivel roads v If ball-size	vere washe nail was re	d out porte	d near	naged, r Salei	and m m in De	any were under water due to flament County.
Henry County Clinton Near Deepwater Near Mt. Zion	13 1335CST 13 1422CST 13 1345CST			0 0 0	0 0 0	2 1 2	0 0 1	Hail (1.00) Hail (1.00) Hail (1.25)
	The county she across Henry		d that thun	dersto	orms p	oroduc	ed 1.00	o-inch-diameter to golf ball-size ha
St. Clair County Osceola	13 1420CST	-						

13 1420CST-1430CST

MAY 1991

		TIME			NO.	OF SONS	ESTIM DAM/	ATED GE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	איירישט	OTTO C-2-	о есоциосько	CECOEN	CHARACTER STORM

MISSOURI Cont	'd	•					٠.	
	Hai	l from 0.75 to 1.25 inc	ch in diameter	was 1	reported	i.		
Osceola	13	1610CST	0	0	0	0	Hail (1.75)	
	Gol	lf ball-size hail was rep	orted in Osceo	la.				•
Polk County Eudora Eudora Bolivar	13 13 13	1610CST 1615CST 1618CST	0 0 0	0 0 0	0 0 0	0 0 0	Hail (1.00) Hail (1.75) Hail (1.00)	
	Thu Pol	inderstorms produced k County.	1.00-inch-dian	eter	to golf	ball-s	ize hail near Eudora ar	ıd Bolivar ir
Greene County Walnut Grove	13	1618CST	0	0	0	0	Hail (1.00)	
	The	ere were reports of hail	to 1.00-inch i	n dia	meter n	ear W	alnut Grove.	
Laclede County Lebanon Lebanon E Conway	13 13 13	1645CST 1700CST 1715CST	0 0 0	0 0 0	0 0 0	0 0 0	Hail (1.50) Hail (1.50) Hail (0.75)	
	One rep	e-inch-diameter hail worted 1.50-inch hail at	as reported in 1700 CST, and	Leba 0.75	non at	1645 ail wa	CST while a cooperate slater reported just eas	tive observer t of Conway
Webster County 6 N Rogersville	13	1700CST	0	0	0	0	Hail (1.00)	
	One	e-inch-diameter hail wa	s reported 6 m	iles 1	orth of	f Roge	ersville.	
Greene County Springfield S Springfield Republic	13 13 13	1720CST 1725CST 1745CST	0 0 0	0 0 0	0 0 0	0 0 0	Hail (0.75) Hail (0.75) Hail (0.75)	
•	Thr CS	ree-quarter-inch-diamet r. Hail was also repor	er hail was rep tted in Republi	ortec c at 1	l in, an 1745 CS	d sou	th of, Springfield at 17	20 and 1725
Christian County Sparta	13	1755CST	0	0	0	0	Hail (0.75)	•
	Hai	il measuring 0.75-inch	in diameter wa	ıs rep	orted a	t Spar	ta.	
Marion County Hannibal	15	0500CST	0	0	0	0	Flash Flood	
	The ove	e Hannibal Civil Defenser its banks from thund	se Director rep erstorm rains.	orted Loca	that Be	ear Creations	eek, in and near Hannil were made near the c	oal, had gone reek.
Jefferson County 1 W De Soto 1 N De Soto Near Festus Near Festus	15 15 15 15	1110CST 1121CST 1200CST 1200CST	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	Funnel Cloud Funnel Cloud Hail (0.88) Thunderstorm Wind	s
	Δς	notter reported two fur	nal clouds nas	r De	Soto at	1110	and 1121 CST The c	ounty charif

A spotter reported two funnel clouds near De Soto at 1110 and 1121 CST. The county sheriff reported nickel-size hail and strong winds, which broke 6- to 8-inch tree limbs off near Festus at 1200 CST.

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	MATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Killing	OHOC LE	~~ <del>~</del> @mooxo	ראססיא	CHARACTER OF STORM

## MISSOURI Cont'd

Wright County 2 SE Hartville	15	1715CST	0	0	0	0	Hail (1.00)
	Ha	il to 1.00-inch in diameter was re	eport	ed alor	ng Hig	hway	Y in Wright County at 1715 CST.
Ralls County	15	1725CST	0	0	3	2	Thunderstorm Winds
	The thu	e Ralls County Sheriff's Office inderstorm winds.	e rep	orted	down	ed pov	ver lines and pout outages from
Cedar County Stockton Stockton 5 NE Stockton	16 16 16	1627CST 1638CST 1656CST	0	0 0 0	0 0 0	0 0 0	Hail (1.00) Hail (0.75) Hail (1.75)
	Hai tree	il to 1.75-inch in diameter was reje damage was later reported 5 mi	porte les n	d at 16 ortheas	527 and st of S	i 1638 tocktor	CST. Golf ball-size hail and some at 1656 CST.
Polk County 2 N Dunnegan 2 SW Humansville Flemington	16 16 16	1657CST 1700CST 1723CST	0 0 0	0 0 0	0 0 0	0 0 0	Hail (0.75) Hail (1.00) Hail (2.75)
	Hai CS	ll increased in size as thundersto Γ. Hail reached baseball-size in	rms Flem	moved ungton	throu , but	gh Pol there w	k County between 1657 and 1723 vere no reports of damage.
Hickory County Elkton Pittsburgh	16 16	1728CST 1735CST	0	0	0	0	Hail (2.75) Hail (1.75)
	Hai CS	l as large as baseballs fell in Elk Γ in Pittsburgh, Missouri. There	ton a	t 1728 e no r	CST. eports	Golf of dan	ball-size hail was reported at 1735 nage.
Camden County Macks Creek 2 S Montreal	16 16	1840CST 1920CST	0	0	0	0	Hail (1.75) Hail (1.00)
	Gol Mo	f ball-size hail was reported at 18 ntreal at 1920 CST.	340 C	ST wh	ile 1.0	0-inch	-diameter hail fell 2 miles south of
Atchison County Near Linden	16	1850CST	0	0	1	0	Hail (1.00)
	Hai	l to 1.00 inch in diameter was re	porte	ed near	r Linde	en.	
Barry County Purdy Purdy	17 17	0015CST 0015CST	0	0	0	0	Thunderstorm Winds Hail (1.00)
	Stro Pur		r hai	l were	produ	iced fr	om thunderstorms at 0015 CST in
Putnam County N Newtown Livonia	17 17	1555CST 1515CST	0	0	3 0	2 0	Hail (1.50) Hail (1.75)
	Hai at L	l to 1.50-inch in diameter was re ivonia at 1515 CST.	porte	d just	north	of Nev	wtown while golf ball-size hail fell

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	ATED GE	
PLACE	D&P-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	X I L	חששכנים.	-<-xmπ50æ	೧ಹ೦ಕಌ	CHARACTER STORM

MISSOURI Cont'	d								
Schuyler County 2 W Glenwood	17	1515CST			0	0	. 0	0	Hail (1.75)
	Gol	f ball-size hai	il fell 2 mi	les west	of G	lenwo	od at 1	515 C	ST.
Ste Genevieve County Northern Portion	y 17	1624CST			0	0	2	0	Thunderstorm Winds
•	The	Ste Geneviev	e County	Sheriff's	Offic	e repo	orted la	irge tre	ees downed by thunderstorm winds.
Scotland County 1 N Memphis 1 N Memphis 2 N Memphis	17 17 17	1645CST 1645CST 1710CST	0.5	15	0 0	0	0 0 4	0 0	Hail (0.75) Tornado (F0) Thunderstorm Winds
Arbela	17	1710CST			ŏ	ŏ	Ö	ŏ	Hail (1.75)
	At I torn Thu a ba	1645 CST, ra lado 1 mile i inderstorm wi irn 2 miles no	dio station north. The inds from to orth of Me	KMEM ne torna the same mphis.	I in N do to storr Golf	lemph uched n com ball-si	nis repo down pletely ze had	orted ( briefl destro was i	0.75-inch-diameter hail and a small by just north of the radio station. byed a shed and partially destroyed reported in Arbela at 1710 CST.
Ste. Genevieve Count Near St. Mary's	ty 17	1710CST			0	0	3	2	Thunderstorm Winds
	Thu outa	inderstorm wi	ind gusts k o reported	nocked by the c	down ounty	large sheri	trees :	and po	ower lines near St. Mary's. Power
Clark County Wyaconda Granger Anson	17 17 17	1710CST 1715CST 1715CST			0	0 0	0 0 3	0 0	Hail (0.75) Hail (1.75) Thunderstorm Winds
	Hail size mile	l measuring 0 hail fell in G es south of the	.75-inch in Grander fiv e Iowa-Mi	n diamet e minute ssouri s	er wa es late tate li	s repo r. The	rted in nunders ar Anso	Wyac storm v	onda at 1710 CST, while golf ball- winds damaged buildings about 2.5
Randolph County	17	1715CST			0	0	0	0	Hail (0.75) Thunderstorm Winds (G52)
	The	county sheri	ff reported	0.75-in	ch-dia	meter	hail a	nd wii	nd gusts to 60 mph at 1715 CST.
Hickory County Pittsburg	17	1730CST- 1740CST			0	0	2	0	Hail (1.75)
	The	re were repor	ts of hail	to the si	ze of	golf b	alls.		
Camden County Macks Creek	17	1840CST			0	0	2	0	Hail (1.75)
	Hail	l to golf ball-	size was re	eported.					
2 S Montreal	17	1920CST			0	0	1	0	Hail (1.00)
	Hail	l to 1.00-inch	ı-diameter	was rep	orted.				
Dent County Montauc State Park	17	1925CST			0	0	0	0	Flash Flood

MAY 1991

		TIME			NO.	OF SONS	EST IN	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-C-EO		~—xom uOxa a	CEOPN	CHARACTER OF STORM

MISSOURI Cont'd Over 3.50 inches of rain fell at Montauc State Park which brought the Pigeon Creek over its banks. Campers were evacuated due to rising water and flooding. Mississippi County Charleston 18 1316CST 0.8 50 0 0 5 0 Tornado (F1) The Mississippi County Sheriff's Office reported a tornado in the city of Charleston at 1316 CST. A garage with an apartment on top was destroyed while another home had minor damage. Two irrigation systems were also destroyed. There were no reports of injuries. Johnson County Warrensburg 26 1325CST Thunderstorm Winds Thunderstorm wind gusts knocked down large trees. Clay County Kansas City 26 1357CST 0 Thunderstorm Winds (G55) Downtown Airport Thunderstorm winds gusted to 55 knots. **Pettis County** Sedalia 26 1400CST 0 Thunderstorm Winds The Sedalia Police Department reported several house fires caused by lightning and high winds, along with several trees down. Sedalia 5 0 26 1400CST Lightning Several house fires were caused by lightning. Jackson County 0 1 0 Independence 26 1401CST Thunderstorm Winds (G52) Thunderstorm wind gusts to 60 mph. 0 Independence 26 1401CST 0 Thunderstorm Winds Avenue and Interstate 435 Large tree limbs and power lines were downed. Oak Grove 26 1410CST 0 1 0 Thunderstorm Winds Wind gusts, were estimated to 55 mph or greater. 26 1425CST 0 Thunderstorm Winds Warrensburg Thunderstorm winds downed trees. Cooper County Boonville 0 0 26 1445CST 3 Thunderstorm Winds The Boonville Police Department reported strong winds with large tree limbs and power lines down. 26 1545CST Boonville Thunderstorm Winds Winds damaged large trees and downed power lines and large limbs. Platte County Kansas City 26 2323CST 1 Thunderstorm Winds (G52) International

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	MATED AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	אריישט		~-como->-	NTOW	CHARACTER OF STORM

		L	<u></u>	<u> </u>	<u> </u>	<u> </u>	Υ		
MISSOURI Cont	'd								
Airport	Thu	understorm	wind gust	s to 60 mp	h we	ге гер	orted.		
Clark County Wayland	29	2104CST			0	0	0	0	Funnel Cloud
	The	e Wayland l	Fire Depar	tment repo	rted a	funne	el clou	d near	Wayland. No damage was reported.
MONTANA									
MTZ004	09 10	2300MST 0800MST			0	0	3	0	Heavy Snow
	Hea wer	avy wet sno re knocked	ow fell aro down.	und Bozen	nan, e	specia	lly in	the Bri	idger Canyon. Powerlines and trees
McCone County 12 North Circle Vida	10 10	0130MST 0205MST	0.2	10	0	0	3 3	0	Tornado (F0) Hail (1.75)
Richland County 20 North Richey 8 SE Brockton	10 10	0230MST 0300MST			0	0	4 4	0	Thunderstorm Winds Thunderstorm Winds
Garfield County 25 NE Jordan MTZ001	11 13	0920MST 0800MST 2200MST	`-	10	0	0	0 5	0 0	Tornado (F0) Flood
	Ста	ves Creek		ar Fortine	_		_		
MTZ006-007		0739MST		ur r oruno	0	0	0	0	High Winds (G58)
W112000 007				it Harlowte	-				n/Big Timber area.
Degraded County	44 11	nu gusis to	O7 mpn n	it Hallowi	on an	u III u	ile Liv	mgstor	Indig Timber area.
Beaverhead County 12 N Wisdom	16	1930MST	0.2	10	0	0	4	0	Tornado (F0)
	A t	ornado tore	through a	ranch no	rth of	Wisd	om.		
Yellowstone County Laurel	18	1500MST	•		0	0	3	0	Lightning
	Sev	eral bolts of	of lightning	g did mino	r dan	nage a	round	Laurel	l <b>.</b>
MTZ001	18 22	0500MST 0900MST	-		0	0	5	0	Flood
		oding occu ne park wa			liver s	system	inclu	ding H	askill and Turnbull Creeks; a mobile
Lewis and Clark County Helena	18	1537MST	•		0	0	4	0	Thunderstorm Winds
	Sev	eral trees v	vere blowr	down aro	und t	he cit	у.		
Gallatin County Bozeman Lewis and Clark		1700MST			0	0	3	0	Thunderstorm Winds
County Near Gibson Dam	18	1745MST	•		0	0	3	0	Flash Flood

MAY 1991

		TIME			NO. PER	OF SONS	EST!!	MATED AGE	
PLACE	D B E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	-2-)2m		CEOTA	CHARACTER OF STORM

							Ý		
MONTANA Conf	'd								
	Nea flas	arly 3.00 inch flood.	ches of rai	n fell in a	short	time	causing	g Beav	er Creek and other small streams to
MTZ006-007	18 19	2000MST- 2000MST			0	0	3	0	Flood
•	The	Shields an	d Musselsl	hell Rivers	were	floo	ded.		
MTZ003	19	0200MST			0	0	5	0	Flood
	The	St. Mary I	River flood	ded after n	early	2.00	inches	of rain	n fell overnight.
Yellowstone County North Billings and Shephard	19	2230MST- 2310MST	-		0	0	5	0	Hail (3.00)
	Wir	ndows, roof	s, and gar	dens were	destr	oyed	by larg	e hail.	
MTZ003	20 21	0400MST- 1600MST	-		0	0	5	0	Flood
	The	Teton Rive	er flooded	washing o	ut sev	eral b	oridges	and D	upuyer Creek flooded Highway 89.
Stillwater County Nye	20	1400MST			0	0	3	3	Hail (1.75)
Sweetgrass County 5 N Big Timber	20	1400MST			0	0	3	3	Hail (1.50)
Choteau County 10 SE Fort Benton		1530MST			0	0	3	3	Hail (1.75)
Golden Valley Count 5 W Ryegate	y 20	1600MST			0	0	3	3	Hail (1.75)
Hill County Havre	20	2000MST			0	0	4	0	Urban Flood
	Two	o to three in	iches of ra	in fell cau	sing s	street	floodir	ıg.	
Custer County Miles City Kinsey	21	2145MST			0	0	5	5	Hail (1.75)
Prairie County 6 NW Fallon	21	2233MST			0	0	4	5	Hail (1.75)
Wheatland County 10 E Harlowton	24	1930MST			0	0	3	3	Hail (1.75)
Golden Valley County Barber	7 24	1930MST			0	0	3	3	Hail (1.75)
Valley County Glasgow Lewis and Clark	25	0327MST			0	0	3	0	Thunderstorm Winds
County Helena	25	Evening			0	0	4	0	Hail (1.00)
	Win	idows were	broken an	d paint wa	s chi	pped	by hail	•	
Sheridan County 13 W Reserve	25	1850MST	0.2	10	0	0	0	0	Tornado (F0)
Roosevelt County 1 SE Brockton 27 N Poplar	25 25	1900MST 1900MST	0.2 0.2	10 10	0	0	0	0	Tornado (F0) Tornado (F0)
Powder River County 8 SW Biddle	25	2212MST			0	0	0	0	Hail (1.75)

MAY 1991

			TIME			NO.	OF SONS	ESTIM DAMA	AATED AGE			
	PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	CHT - F	OHTOCK-Z-	< <del>-amo⊖∞ o</del>	WTOTA	CHARACTER STÖRM		
ľ	MONTANA Cont'd											
ì	MTZ006	27 31	0800MST 0800MST	_		0	0	4	0	Flood		
		The	Judith Riv	er flooded	washing o	ut se	veral	farm r	oads.			
ŀ	owder River County Broadus	29	1520MST			0	0	0	0	Hail (0.75)		

MTZ007	29 30	1520MS1 0800MST-			U	U	U	U	Haii (0.75)
W112X07	Ju	2300MST			0	0	4	0	Flood
	Roc	k Creek floo	ded, wash	ing out	some 1	roads	•		
Dawson County Near Glendive	31	1745MST	0.2	10	0	0	0	0	Tornado (F0)
NEBRASKA									
Perkins County Brandon	02	1733CST- 1753CST	,		0	0	4	1	Hail (1.75)
	۰.	C1 11 · 1							

Golf ball-size hail fell in, and around Brandon, for 20 minutes and damaged cars, trucks, trees, and windows.

Perkins County
8 SW Grant
2 NE Grant
02 1800CST1830CST 13.0 175 0 0 6 2 Tornado (F3)

Spotters reported a tornado southwest of Grant, which was up and down as it moved northwest. Damage started at a farm house 2 miles southwest of Grant and continued as the tornado hit the western and northeastern sections of Grant. It then continued into open farm land northeast of Grant. A sheriff deputy's car was blown into a ditch, but he continued to monitor and report the movement of the tornado. Two mobile homes were completely destroyed, 15 cars were damaged, and several large high voltage power lines were blown down. Extensive damage occurred to at least 30 homes, the hospital roof, and football field. Over 25 center-pivot irrigation systems were destroyed or damaged. No injuries were reported.

Keith County Ogallala 02 1805CST 0 2 0 Thunderstorm Winds Thunderstorm winds ripped a roof off a house. **Red Willow County** 02 1815CST 0 0 0 Hail (1.75) Lebanon Golf ball-size hail fell, but caused no damage. Hayes County 3 N Hayes Center 25 02 1820CST 0.1 0 0 0 Tornado (F0) A tornado briefly touched down in open farmland causing no damage. Keith County 2 W Ogallala 02 1820CST 0 Hail (1.00) Quarter-size hail fell in a open field with no damage.

Hayes County 8 N Hayes Center 02 1830CST 0 0 0 Hail (1.75)

MAY 1991

		TIME			NO. PER	OF SONS	EST I	ATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KT-1-MD	OMOCCE	A-Commoo	CEOPN	CHARACTER OF STORM

#### NEBRASKA Cont'd

Golf ball-size hail fell in open county with no damage reported.

	OU	i bail-size half felf ill open cour	ity w	iui no	uamag	ge repe	nted.						
Keith County 3 NW Roscoe	02	1849CST	0	0	3	0	Thunderstorm Winds						
	Thu	inderstorm winds blew an outbu	ildin	g off i	ts four	ndation	l <b>.</b> ,						
Lincoln County Wallace North Platte	02 02	1850CST 1958CST	0	0	1 2	0	Hail (0.75) Thunderstorm Winds (G52)						
	Wir wer	Winds gusted to 60 mph at the National Weather Service Office. Broken and damaged tree livere reported throughout the area.											
Dawson County 2 S Gothenburg	02	1925CST	0	0	3	0	Thunderstorm Winds (G52)						
	Thu	inderstorm winds gusting to 60	mph	blew o	out the	windo	ow of a fire department vehicle.						
Richardson County 5 E Falls City	04	1215CST	0	0	1	1	Hail (1.75)						
Sioux County Harrison	09	1620MST	0	0	1	1	Hail (1.00)						
Dawes County Ft. Robinson 5 N Crawford 5 N Ft. Robinson Crawford	10 10	1352MST- 1415MST 1500MST	0	0	?	?	Hail (5.00) Hail (2.75)						
5 W Crawford	10	1604MST	0	0	?	?	Hail (3.75)						
		l up to 5.00 inches in diameter, damaging cars.	fell a	round	Ft. R	obinso	n and Crawford, breaking windows						
Sioux County Glen Sioux and	10	1645MST	0	0	?	?	Hail (3.75)						
Dawes Counties Glen 15 NE Chadron	10 11	1700MST- 0800MST	1	0	7	6	Flash Flood						
	Up nort	to 7.00 inches of rain fell around the astern Sioux County. The wa	und (	Glen in wept t	n the a	Soldiei Crawi	Creek and White River basins in ford, where the White River crested						

Up to 7.00 inches of rain fell around Glen in the Soldier Creek and White River basins in northeastern Sioux County. The water swept toward Crawford, where the White River crested at 16.32 feet around midnight Friday night. Many roads, bridges, 20 miles of railroad tracks, and 42 rail bridges were washed out. At Ft. Robinson State Park, the campground and several bridges were washed out. In Crawford, the city park, a recently completed golf course, state fish hatchery, and a trailer court were destroyed. Four hundred cattle were killed at the livestock market. There was one fatality: a 27-year-old male was swept away by flood waters. His body was found less than 100 yards from the mobile home where he was last seen. Preliminary damage estimates total over \$16 million. (M27M)

Box Butte County 10 NW Alliance Scotts Bluff County	11	1609MST	0	0	1	1	Hail (2.00)
Scottsbluff	11	1609MST	0	0	1	1	Hail (1.00)
Box Butte County Hemingford	11	1635MST	0	0	1	1	Hail (3.75)
Banner County 20 E Harrisburg Morrill County	11	1715MST	0	0	1	1	Hail (2.75)
Bayard	11	1725MST	0	0	1	1	Hail (0.75)

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAMA	ATED AGE	
PLACE	Đ	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K	CHICACLE -	<b>←-απποΟχειο</b>	Cacoan	CHARACTER STORM

### NEBRASKA Cont'd

Dixon County 1 N Emerson Dakota County	12	2100CST			0	0	1	1	Hail (1.75)
4 SW Dakota City 1 S Homer	12 12	2105CST 2138CST			0	0	1 1	1 1	Hail (1.50) Hail (1.00)
Thayer County Belvidere Bruning	14	0515CST- 0532CST			0	0	4	0	Hail (1.50)
	Wa	lnut-size hail	damaged	several v	ehicle	es.			
Scotts Bluff County 7 SW to 3 E Scottsbluff	15	1730MST- 1830MST			0	0	1	1	Hail (1.75)
Sioux County 30 W Hemingford	15	1920MST			0	0	1	1	Hail (1.50)
Buffalo County 8 N Amherst	15	2315CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	ınderstorm w	inds gustii	ng to 60	mph l	blew t	he roo	f off a	farrowing house.
Pierce County	16	1245CST	Short	15	Λ	Λ	Λ	Λ	Tornado (EO)

1 SW Osmond 16 1245CST Short 15 0 0 0 0 Tornado (F0)

A tornado briefly touched down in a field but caused no damage.

Lincoln County
2 W Sutherland
16 1305CST
0 0 0 Hail (1.75)

A deputy sheriff reported golf ball-size hail in open fields with no damage.

Phelps County
Holdrege
16 1430CST
0 0 4 0 Thunderstorm Winds (G61)

Thunderstorm winds questing to 70 mph downed several trees. A few trees fell on house

Thunderstorm winds gusting to 70 mph downed several trees. A few trees fell on houses and damaged roofs.

Lincoln County
4 S Sutherland 16 1458CST Short 25 0 0 0 Tornado (F0)

A spotter reported a brief touchdown in an open field with no damage.

Nuckolls County Superior 16 1500CST 0 0 3 0 Hail (1.75)

Golf ball-size hail damaged vehicles.

Chase County
5 SE Lamar

16 1510CST1515CST 1.5 50 0 0 0 Tornado (F0)

A tornado was reported by a spotter and moved north. Three funnels were also reported by the spotter.

Perkins County
2 E Brandon
16 1510CST Short 25 0 0 0 Tornado (F0)
2 N Grant
16 1510CST Short 25 0 0 0 Tornado (F0)

The Grant Fire Department reported that two tornadoes briefly touched down in open areas along with three additional funnel clouds.

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	MATED NGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLWO	OmæCc.Z⊢	~ <del></del>	OROAN	CHARACTER OF STORM

## NEBRASKA Cont'd

NEBRASKA Cor	nt'd								
Fillmore County Grafton	16	1515CST			0	0	4	0	Hail (1.50)
	Pin	ng-Pong ball-s	size hail br	oke seve	eral ca	ar and	house	windo	ows.
Gosper County 12 NW Arapahoe	16	1515CST	0.5	50	0	0	0	0	Tornado (F0)
	Αt	tornado briefl	y touched	down in	an o	pen fi	eld wi	th no a	pparent damage.
12 SE Elwood	16	1525CST	0.5	40	0	0	0	0	Tornado (F0)
	Αt	tornado briefl	y touched	down ne	ear a f	farm b	out cau	sed no	apparent damage.
10 N Arapahoe	16	1535CST	0.5	30	0	0	4	0	Tornado (F0)
	Αt	tornado briefl	y touched	down ar	nd lift	ed a g	arage	roof o	ff its foundation.
Buffalo County Odessa	16	1540CST			0	0	4	0	Hail (1.75)
	Go	lf ball-size ha	il damageo	d some v	vehicle	es.			
Keith County 4 S Ogallala	16	1600CST	Short	25	0	0	0	0	Tornado (F0)
	A s	spotter reporte	ed a brief (	tornado	touch	down	in ope	n field	with no damage.
Buffalo County 8 NE Kearney	16	1600CST	0.8	50	0	0	0	0	Tornado (F0)
	Civ app	vil defense of parent damage	ficials rep	orted th	e brie	ef tou	chdow	n of a	tornado in an open area with no
1 W Pleasanton	16	1605CST	1.0	40	0	0	0	0	Tornado (F0)
	A t	ornado touch	ed down ir	n an ope	n field	d with	no ap	parent	damage.
Seward County 8 SW Seward 5 NE Seward	16	1643CST- 1700CST	11.0	100	0	0	5	3	Tornado (F2)
	A t sou of ;	ornado first t thwest of Sew Seward where	ouched do vard. It lift it destroy	wn and ted as it i ed a ma	destro moveo chine	yed s l north shed	everal neast an and eq	outbuind touc	ildings and their contents on a farm ched down on another farm northeast nt.
Saunders County Valparasio	16	1715CST			0	0	2	1	Thunderstorm Winds (G52)
	Thu	understorm w	inds gustir	ng to 60	mph	blew 1	tree lir	nbs do	wn.
Nemaha County Johnson 2 W Auburn Brock	16 16 16	1813CST 1815CST 1828CST			0 0 0	0 0 0	1 0 1	1 0 1	Hail (1.75) Funnel Cloud Hail (1.75)
Dodge County Fremont	16	1830CST			0	0	3	1	Thunderstorm Winds (G63)
		ınderstorm wi	inds gustin	ng to 73	mph	downe			• •

		TIME			NO. PERS	OF SONS	ESTIN DAM/	ATED GE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	סשניייצ	-Z-)2000	≺-ЮтоОхот	השססית	CHARACTER OF STORM

NEBRASKA Cor	nt'd						
Douglas County 15 SW Omaha	16	1830CST	0	0	3	1	Thunderstorm Winds (G52)
		y-mph winds blew down some inty.	trees	near	190th	and I	Harrison in southwestern Douglas
Otoe County Talmage Douglas County	16	1839CST	0	0	1	1	Hail (1.00)
Douglas County 4 NE Omaha	16	1926CST	0	0	1	0	Thunderstorm Winds (G63)
	Win	nds up to 73 mph were recorded	at Ep	pley A	Airfield	1.	
Platte County 3 W Cornlea 9 NW Columbus	17	1130CST	0	0	0	0	Funnel Clouds
9 IVW Columbus	Nun	nerous cold air funnels were spo	tted,	but no	touch	idowns	were reported.
Phelps County 2 S Holdrege	22	1900CST	0	0	4	4	Hail (1.00)
	Hail and	up to 1.00 inch in diameter acc wheat fields.	umul	ated in	n drifts	s. The	ere was damage to several vehicles
Gosper County 6 N Elwood	22	1930CST	0	0	3	0	Hail (1.75)
	Gol	f ball-size hail, reported by storn	n spc	tters a	t John	son La	ike, damaged a few vehicles.
Dawson County Cozad Lexington	22 23	2100CST- 0400CST	0	0	5	5	Flash Flood
Ü	Thu to 8 mile sout sanc 4.00 High	nderstorms produced very heavy .00 inches of rain. Water ran of west of Cozad, was covered theastern part of Cozad were floodings were used to control the way to 5.00 inches of rain caused strain way 21 just north of Lexington its reported water and silt damage	y rain wer m with coded iter, r reet a n who	s acro water with nany h nd bas ich sei 10,000	ss Dav ounty r 300 to water comes l ement of thre	vson Croads a to 400 up to had wa flooding e cars	County, with Cozad reporting 7.00 nd flooded fields. Highway 30, 1 yards wide. Most streets in the car doors. Although 700 to 800 ter in the basements. In Lexington ng. The rain caused a mudslide on into the ditch. County extension ops in Dawson County.
Webster County Red Cloud 2 N Red Cloud		0512CST- 0515CST	0	0	4	0	Hail (1.75)
	Wal	nut- to golf ball-size hail covere	d the	groun	d and	damag	
Sioux County							
5 S Harrison Dawes County	27	1800MST	0	0	1	1	Hail (2.50)
4 N to 12 N Crawford	27	1900MST	0	0	1	1	Hail (0.75)
Chadron 1 S Chadron	27 27	1915MST 2200MST	0	0	4	5 1	Hail (1.75) Hail (1.75)
Burt County Lyons 4 SW Lyons	27 27	2335CST 2344CST	0	0	3 4	0	Hail (1.00) Lightning

MAY 1991

		TIME			NO. PER	OF SONS	ESTII DAM	MATED AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMO	Om20C-Z-	~	COCO	CHARACTER OF STORM

### NEBRASKA Cont'd

Lightning struck a barn and started a fire that completely destroyed the structure; damage was estimated at \$20,000.

3 N to 8 NE Oakland 27 2345CST-2355CST

6.0

0 2 6

Tornado (F3)

A tornado touched down north of Oakland and moved northeast. It completely destroyed a mobile home and injured its two occupants, one sustained a broken back and was paralyzed from the waist down. A 74-year-old man died from a heart attack in his basement after securing property before the storm hit. Nine other houses, sixteen farms, and four center-pivot irrigation systems were damaged at a total cost of \$900,000.

4 E Lyons 5 E Lyons 28 0030CST-

0032CST

1.0

440

0 5

3 Tornado (F2)

A second tornado moved northeast for a mile and caused damage at two farms. Damage was estimated at \$100,000.

0

0

0

0

0

0

0

0

O

Chase County 4 S Wauneta

28 1809CST

0 0

Funnel Cloud

A spotter reported a funnel cloud moving northeast at 30 mph.

Lincoln County Sutherland

28 1835CST28 1848CST

0 0 0

Thunderstorm Winds (G52) Funnel Cloud Thunderstorm Winds (G62)

12 NW North Platte North Platte 6 S North Platte

28 1850CST 28 1900CST 0 0 4 0

Thunderstorm Winds (G52) Funnel Cloud

Funnel clouds were spotted near Sutherland and south of North Platte moving east. Thunderstorm winds gusted to 60 mph at Sutherland and at the National Weather Service Office, and up to 71 mph northwest of North Platte. In North Platte, a home under construction collapsed with five people inside, but no one was injured. Numerous trees and power lines were blown down. A power company employee was seriously injured when he touched a live line while working to restore power.

Banner County
3 N Harrisburg
Red Willow County
McCook

28 1746MST

0 0 0

Funnel Cloud

28 1950CST

0 0 3

Lightning

Lightning struck the transmission tower of radio station KICX. Thunderstorm winds of 50 mph blew the roof off a grain bin and knocked a storage building off its foundation. Numerous power lines were blown down.

Custer County

28 2000CST

0 0 3

Thunderstorm Winds

Strong thunderstorm winds downed trees and power lines in Anselmo, Callaway, and Broken Bow.

Perkins County 8 S Grant

28 2040CST

0 0 4

Lightning

Lightning struck a house causing damage to the chimney and electrical system, cracked plaster walls, blew out windows, and knocked a hole in the roof that was several feet wide.

		TIME			NO. PERS	OF SONS	EST IN	AGE	,
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLUMD		~~\@m@—>	೧೯೦೬೧	CHARACTER OF STORM

NEBRASKA Cor	ıt'd								
Buffalo County 14 S Ravenna	28	2110CST	1.0	50	0	2	5	0	Tornado (F1)
	A to trac torr one a sh	ornado touche ctors and a co- nado touched side torn off nort distance i	ed down on mbine rece down and : and a hous from the fa	a farm ived ext sustained se sustain rm.	and d ensive d min ned ro	estroye e dama or leg oof dar	ed a Q age. I bruise nage.	ouonset Two pees and a The to	building. Inside the building, two cople were caught outside when the scratches. A wood frame barn had ornado lifted after moving northeast
Platte County Columbus	28	2115CST			0	0	1	0	Thunderstorm Winds
	Tre	e damage occ	ured from	thunders	storm	winds	S.		
Cuming County 5 N Beemer	28	2120CST			0	0	0	0	Hail (0.75)
Holt County Atkinson	28	2120CST			0	0	4	0	Thunderstorm Winds
	Stro	ong winds sca	ttered light	t planes	at the	Atkir	ison A	irport	and blew down an old hangar.
Hall County									
Grand Island	28	2130CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	ınderstorm wi	nds gustin	g to 60	mph o	caused	tree d	lamage	•
Sherman County 8 NE Ravenna	28	2145CST	0.5	30	0	0	0	0	Tornado (F0)
	A to	ornado touche	ed down in	an oper	field	l with	no ap	parent	damage.
Holt County 10 NW to 15 NE O'Neill	28	2145CST- 2155CST			0	0	5	1	Thunderstorm Winds
	Dov Nur Irrig wer	wnburst winds merous outbu gation system e damaged by	s caused a pildings and s were over falling tre	path of of barns erturned, ees and l	lamag were and imbs	ge appi destro power and v	roxima oyed, poles windov	ately 20 and so and li ws wer	o miles long and 2 to 3 miles wide. ome roofs were blown off barns. ines were downed. Several homes e blown out.
Howard County 2 N Dannebrog	28	2148CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	ınderstorm wi	nds gustin	g to 60 :	mph o	damage	ed a m	obile l	nome.
Hall County 2 N Grand Island	28	2150CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	ınderstorm wi	nds gusting	g to 60 i	mph o	lamage	ed fou	r outbu	uildings.
Merrick County					•	Ū			
8 W Central City	28	2218CST	0.5	40	0	0	0	0	Tornado (F0)
	A to	ornado briefly	touched d	lown wit	th no	appare	ent da	mage.	
Nance County Fullerton Genoa	28	2230CST- 2245CST			0	0	3	0	Thunderstorm Winds (G52)
	Thu	nderstorm wi	nds gusting	g to 60 i	mph c	lamage	ed tree	s and p	power lines.

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-LLE	1270mm	<del>Р.ЖО</del> ФШФО-Y	CACOEN	CHARACTER STORM

	⊥			<u> </u>	<u> </u>		<u> </u>	<u> </u>	
NEBRASKA Cor	nt'd								
Madison County Norfolk	28	2305CST		e e	0	0	1	0	Thunderstorm Winds
•	Sev	eral trees ar	nd numero	ous branche	es we	re blo	own do	wn.	
Platte County Columbus	28	2330CST			0	0	1	0	Thunderstorm Winds
	rest	ong winds dulted in a poother proper	wer outag	e. Tree br	anch	es, ba	cked p rk, twi	ower p gs, and	ooles and lines to the ground which I leaves fell throughout the city, but
Dixon County Newcastle Ponca	28	2340CST			0	0	3	0	Thunderstorm Winds
FOIICE	A g	garage was over lines we	destroyed re downed	3 miles ea I around N	st of lewca	Newe	castle t nd Pon	y high ica.	winds. Numerous tree limbs and
Dakota County South Sioux City	29	0030CST			0	0	4	1	Thunderstorm Winds
	A 1	.5-foot tree	limb fell	on a mobi	le ho	me in	the no	ortheast	ern section of town.
Otoe County Palmyra	29	1535CST			0	. 0	3	3	Hail (2.75)
	Bas kno	eball-size hocked down	ail fell fr power line	om a thur es.	ndersi	torm	which	produc	ed winds that uprooted trees and
Sioux County 9 SW Harrison 12 S Harrison	29 29	1523MST 1623MST			0	0	0	0 1	Funnel Cloud Hail (1.00)
Franklin County Hildreth	29	2035CST			0	0	3	0	Hail (1.75)
	Gol	f ball-size h	ail damag	ed a few v	ehicl	es.			
Perkins County 8 S Grant	<b>29</b> ,	2036CST	Short	25	0	0	0	0	Tornado (F0)
	A s	potter repor	ted a brie	f touchdow	n in	an op	en area	a with	no damage.
Hall County 2 E Doniphan	29	2055CST			0	0	3	. 0	Hail (1.75)
	A s	torm spotter	reported	golf ball-s	ize h	ail.			
Furnas County Cambridge Arapahoe Oxford	29	2100CST- 2200CST			0	0	4	4	Hail (2.75) Thunderstorm Winds (G52)
	dan	f ball- to be naged homes apletely flatt	s and bus	inesses, sti	rippe	d tree	limbs	, broke	asting to 60 mph, broke windows, branches, damaged vehicles, and
Adams County 2 NE Hastings Lincoln County	29	2110CST			0	0	0	0	Funnel Cloud
7 SW North Platte	29	2119CST	Short	25	0	0	0	0	Tornado (F0)

		TIME			NO.	OF SONS	EST IN	ATED GE	
PLACE	DAOLE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	חששכרב.	<b>~</b>	CACOEN	CHARACTER OF STORM

	上_	<u> </u>	<u> </u>	<u> </u>	<u> </u>		Υ	1	
NEBRASKA Con	nt'd								
	The	e highway p	atrol repo	rted a brie	f touc	chdow	n in ar	n open	field with no damage.
Buffalo County 2 N Kearney	29	2130CST	0.5	30	0	0	0	0	Tornado (F0)
	The	e sheriff's o	ffice repo	rted the br	ief to	uchdo	wn of	a torna	ado with no apparent damage.
Polk County 2 S Osceola	29	2135CST	1.0	40	0	0	3	0 ,	Tornado (F0)
	A t	tornado touc	hed down	and dama	ged s	everal	trees	before	lifting.
Hall County Grand Island	29	2142CST	0.3	30	0	0	0	0	Tornado (F0)
		orm spotters nage.	reported	the brief to	ouchd	lown	of a to	rnado	near Fonner Park with no apparent
Sarpy County Papillion Lincoln County	29	2150CST			0	0	1	0	Hail (0.75)
North Platte	29	2152CST			0	0	0	0	Funnel Cloud
	Fun	nnel clouds ver, and at 2	were repo 2nd Street	rted over and Alma	Lake	Malo	ney, th	e Unio	on Pacific's Bailey yards, the water
Furnas County 2 N Oxford	29	2155CST			0	0	0	0	Funnel Cloud
•	Civ	vil Defense	officials re	eported a f	unnel	cloud	1.		
Dundy County Haigler	29	2200CST			0	0	0	0 .	Hail (1.75)
	Go	lf ball-size	hail fell bu	ut caused n	o dar	nage.			
Dundy County Benkelman	29	2201CST			0	0	3	3	Hail (2.75)
	On	e inch of ha	il covered	the ground	d and	cause	d mino	r dama	ige to homes, cars, trees, and crops.
Lincoln County 2 NNE North Platte	29	2207CST			0	0	0	0	Thunderstorm Winds (G61)
2 mm		sts were est orted.	imated at	60 to 70 n	nph n	ear th	e KNC	OP Tel	evision Station, but no damage was
Harlan County Ragan	29	2221CST			0	0	4	0	Hail (1.50)
	Wa	ılnut-size ha	il damage	d several v	ehicle	es.			
Franklin County Upland Campbell	29	2305CST- 2310CST			0	0	4	0	Hail (1.75)
4	Go	lf ball-size	hail damag	ged several					
Hall County 6 N Wood River	30	0520CST			0	0	0	0	Funnel Cloud

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	AGE	
PLACE	DAOT E	LOCAL	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLWO	באטאבשט	<del>~ ∞</del> 00± —>	CACOTO	CHARACTER OF STORM

## NEBRASKA Cont'd

A funnel cloud was sighted by a storm spotter.

	A f	innel cloud w	as sighted	by a sto	orm s	potter.			
Custer County 5 NW Sargent	30	1050CST	Short	25	0	0	0	0	Tornado (F0)
	Spo	otters reported	a brief to	uchdown	in a	n open	field	with n	o damage.
Scotts Bluff County 1 NW Morrill Morrill 2 N Mitchell 6 SW Mitchell	30 30 30 30	1627MST 1650MST 1712MST 1721MST			0 0 0 0	0 0 0	0 1 1 0	0 1 1 0	Funnel Cloud Hail (2.00) Hail (1.75) Funnel Cloud
Kimball County 20 SW Kimball	30	1725MST			0	0	1	1	Hail (1.25)
Scotts Bluff County 3 N Lyman	30	1750MST			0	0	?	?	Hail (2.75)
Harlan County Stamford	30	1850CST	1.0	50	0	0	5	0	Tornado (F2)
	A to Star to 3 exc	ornado touche mford, seven l 300 yards and ept the house.	d down in nouses suff destroyed. Another	the north ered ma Just no farm los	nern p jor da orth o	oart of image. of Stan Quon	Stami One oford, uset she	ford and unoccu all buil eds and	d traveled 1 mile before lifting. In apied mobile home was moved 200 ldings on one farm were destroyed 1 two grain bins.
Orleans 5 NE Orleans	30	1855CST			0	0	0 .	0	Funnel Cloud Funnel Cloud
10 S Holdrege	30 30	1911CST 1920CST 1927CST	0.5	30	0	0	0 0 0	0 0 0	Tornado (F0) Funnel Cloud
8S Holdrege	30		d		•	•	·	_	
		age.	ouds were	reporte	a and	Jaw	Hauo	orieny	touched down with no apparent
Losp County 2 S Taylor	30	2145CST	?	15	0	0	0	0	Tornado (F0)
	A t	ornado briefly	touched d	lown in	open	countr	·y.		
Garfield County 2 SE Burwell	30	2145CST	?	15	0	0	0	0	Tornado (F0)
	A to	ornado briefly	touched d	own in	open	countr	у.		
Holt County Ewing	31	2100CST			0	0	0	0	Hail (2.75)
NEVADA		•					•		
NVZ001-003 Truckee and Tahoe Area, Extreme	08 09	1600PST- 0900PST			0	0	0	0	Heavy Snow
Western Nevada	sam	old low-pressi e system brou i.00 inches.	ire system ight a late	dumped season s	8.5 i	nches to wes	of sno stern N	ow in tl Jevada	he Lake Tahoe-Truckee area. The where many areas picked up 2.00
NVZ009 Extreme Southern	08 09	1800PST- 1500PST			0	0	0	0	High Winds
Nevada	The		brought his	gh winds Vegas.	-				wind gust of 52 mph was reported

MAY 1991

		TIME			NO. PERS	OF SONS	EST IN	AGE	
PLACE	D B E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KHLLMO	OHXCC.2-	~-com00x0	COCODA	CHARACTER OF STORM

### NEVADA, Cont'd

	13	1730PST		0	0	0	0	Funnel Cloud
Northeatern Nevada								

A funnel cloud was spotted 30 miles northeast of Elko at 1730 PST.

### **NEW HAMPSHIRE**

Cheshire County Fitzwilliam Winchester	17 17	1630EST 1633EST	0	0	?	0	Lightning Thunderstorm Winds Lightning
Merrimack County Hopkinton	17	1645EST	0	0	?	0	Thunderstorm Winds
Strafford County Dover	17	1720EST	0	0	?	0	Thunderstorm Winds
Somersworth	17	1723EST	0	0	?	0	Lightning Lightning
Rockingham County Nottingham	17	1725EST	0	0	5	0	Lightning
Hillborough County Sharon	17	1730EST	0	0	?	0	Lightning

Thunderstorms rolled across southern New Hampshire during the early evening hours on the 17th bringing with them, strong winds and lightning. Lightning started a fire at the Tomilla Brothers Lumber Company at 1630 EST destroying two storage sheds. Thunderstorm winds moved through the town of Winchester knocking down trees and power lines. A man was injured when he was struck by a falling tree. Twelve roads were closed as a result of the fallen trees. Lightning struck a substation in Winchester which left parts of the town without electricity. Large trees and power lines were knocked down in Hopkinton at 1645 EST causing some power outages and damage to a vehicle. At 1720 EST, thunderstorm winds knocked large tree limbs and power lines down in Dover. Lightning also struck two garages, setting each on fire. One garage was destroyed while the other sustained damage. At Somersworth, the Facemate Bleachery was struck by lightning at 1723 EST causing a fire and electrical damage. Lightning struck a vacant home in Nottingham at 1725 EST causing a fire. The home sustained \$200,000 damage. Lightning also struck a tree in Sharon at 1730 EST and jumped onto the roof of a home, starting a fire. Damage was reported as minimal.

### Cheshire County Hinsdale

31	1320EST-							
	1330EST	0.5	33	0	0	?	0	Tornado (F0)

A tornado touched down in the town of Hinsdale at 1320 EST. The tornado tore the roof off of a store and also knocked down several power lines and poles. As the tornado moved along Route 63, it picked up a dumpster and smashed it into a car.

### NEW JERSEY, Northern

TT							
Hunterdon County Whitehouse Station	13	1703EST	0	0	0	0	Thunderstorm Winds (G54)
Hunterdon County Clinton Annandale	13	1713EST	0	0	?	0	Thunderstorm Winds
Somerset County Countywide	13	1725EST	0	0	?	0	Thunderstorm Winds Lightning

Thunderstorms, forming along a stalled frontal boundary, generated damaging winds and frequent cloud-to-ground lightning. Hunterdon and Somerset Counties were the hardest hit with numerous trees and power lines down. Several homes in Somerset County were also hit by lightning and some severly damaged.

MAY 1991

		TIME			NO.	OF SONS	EST IN	MATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLE	CHOC.	<b>~~∞</b> moO∞o	CRODO	CHARACTER OF STORM

## NEW JERSEY, Northern Cont'd

Warren County Hacketstown Great Meadows	25	1420EST- 1450EST	0	0	?	0	Thunderstorm Winds
	An one	isolated thunderstorm moving the house in the process.	rough	Warre	en Cou	nty do	wned several large trees, damaging
Essex County	27	2305EST	0	0	?	0	Flash Flood
	A c Nea drai	complex of thunderstorms was rearly 2.00 inches of rain fell durinage flooding.	espon ing a	sible 1 short	for tor time a	rential and pro	downpours across Essex County. oduced significant urban and poor
Sussex County Monroe	30	1725EST	0	0	0	0	Hail (1.00)
Middlesex County Sayreville	30	1730EST	0	0	?	0	Thunderstorm Winds
South Amboy East Brunswick	An hail	upper level disturbance moving and locally damaging winds.	throu	gh a v	ery wa	rm and	l unstable air mass generated large
Warren County Belvidere	31	1320EST	0	0	?	0	Thunderstorm Winds
Somerset County Bedminster	31	1320EST	0	0	0	0	Hail (1.00)
Hunterdon County Clinton Pattenburg	31	1345EST	0	0	?	0	Thunderstorm Winds
Flemington Morris County Morris Township Chester Harding	31	1400EST	0	0	?	0	Thunderstorm Winds
Somerset County Gladstone Franklin	31	1400EST	0	0	?	0	Thunderstorm Winds
Hunterdon County Whitehouse Station	31	1415EST	0	0	0	0	Thunderstorm Winds (G61)
Monmouth County Monmouth Beach Middletown	31	1430EST- 1450EST	0	0	?	0	Thunderstorm Winds

A squall line formed over eastern Pennsylvania around midday. It raced across northern New Jersey during the early afternoon generating damaging winds. The highest gust recorded was 70 mph (61 knots) at Whitehouse Station in Hunterdon County. Elsewhere, numerous trees and power lines were reported downed. In Monmouth Beach, eight cars were damaged. The storms also produced 1.00-inch hail at Bedminster.

## NEW JERSEY, Southern

Gloucester County Swedesboro 2 NE Glassboro Cross Keys	06 06 06	1745EST 1755EST 1800EST	0 0 0	0 0 1	3 3 3	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
Airport							

Thunderstorm wind gusts downed trees in Swedesboro and near Glassboro. In Swedesboro, one tree fell on an automobile. Near the Cross Keys Airport, wind gusts collapsed a large tent where a meeting was taking place. One woman was slightly injured by a falling tent pole.

MAY 1991

		TIME			NO.	OF SONS	EST I M	ATED			
PLACE	DAOTE	LOCAL LENGTH STANDARD PATH (MILES)	LENGTH OF PATH (MILES)	, ,	KILLED	OTTOCC-Z-		റയാഗ	CHARACTER OF STORM		
NEW JERSEY, S	Sout	hern Cont	.'d								
Cumberland County Bridgeton 8 SW Millville	06 06	1755EST 1805EST			0	0	?	0	Thunderstorm Winds (G64) Thunderstorm Winds (G54)		
	Thi Mi	understorm llville. The	wind gust wind gust	s were rep is downed	oorted tree l	at 7	4 mph southv	in Br vest of	ridgeton and 62 mph southwest of Millville.		
Gloucester County Williamstown	30	1725EST			0	0	?	0	Hail (1.00)		
	A t	hunderstorn	n dropped	1.00-inch	hail i	n Wil	liamst	own.			
NEW MEXICO											
Grant County	01	Early			0	0	0	?	Freeze		
	Freezing temperatures on the first and earlier in the week caught blooming and budding trees during their most vunerable stages, causing extensive crop damage to area orchards.										
Lea County Lovington	10	1635MST			0	0	0	0	Hail (1.75)		
	The	e sheriff's o	ffice repor	ted golf ba	ıll-siz	e hail	near l	Loving	ton at 1635 MST.		
Buckeye	10	1644MST			0	0	0	0	Hail (1.00)		
	The	e civil defen	se director	in Hobbs	repo	rted q	uarter	-size h	ail east of Buckeye at 1644 MST.		
20 W Hobbs	10	1722MST			0	0	0	0	Hail (1.75)		
	The	e sheriff's o	ffice repor	ted golf ba	ıll-siz	e hail	20 mi	iles we	est of Hobbs at 1722 MST.		
Bernalillo County Albuquerque	11	1230MST			0	0	3	0	Dust Devil		
	The trai	e Albuquerq ler at the U	ue Journal niversity o	newspaper of New Me	r repo	rted t for 50	hat str ) feet a	ong wi and wr	inds blew a roof from 40-foot utility apped it around an oak tree.		
Lea County Monument	11	1720MST			0	0	0	0	Hail (0.75)		
	Pul	olic reported	l dime-size	hail 2.25	miles	nort	h of M	lonume	ent at 1720 MST.		

0

10

0.2

0

0

A SKYWARN spotter reported quarter-size hail 6 miles west of Hobbs at 1745 MST.

0

0

0

Wind indicator at Albuquerque International Airport spiked for a short time to 61 knots (70 mph) with passage of dust devil.

A tornado was spotted east of Kirtland Air Force Base at the base of Manano Mountains and lasted 15 minutes according to a report that was received from Channel 4 News at 1650 MST.

0

0

Hail (1.00)

**Dust Devil** 

Tornado (F0)

6 W Hobbs

Bernalillo County

Albuquerque

Albuquerque

Sandoval County Near Rio Rancho

11 1745MST

14 1342MST

15 1515MST

20 1730MST

MAY 1991

									MAY 1991
		TIME			NO. PER	OF SONS	ESTIM. DAMA	ATED GE	
Diver	D	LOCAL	LENGTH OF PATH	WIDTH OF PATH	K	I N	P R	Cac	CHARACTER
PLACE	Ė	STANDARD	(MILES)	(YARDS)	L	OmizeC. Z	-200mx	0.0000	STÖRM
					D	Ď	R Y		
	_!								
NEW MEXICO,	Cor	nt'd							
	A :	funnel cloud ording to a	d formed report that	a tornado t was recei	west	of Ri	o Ranc Channel	cho ai 4 Ne	nd lasted 2 minutes on the ground ows at 1802 MST.
Sierra County	20	1825MST	-		0	0	5	0	Hail (2.50)
Hillsboro Dona Ana County Near Rincon	U.	المصائمة ما	aa baina a	سطايين أخسما	1	منده ط		d agai	
Near Kincon	dov \$20 ran	wned trees, 0,000 breedi ged from 1.	severed plant of the severed p	hone lines was killed inches in	and by g	ruine golf ba neter a	d conv ll-size nd acci	ertible hail n imula	ps, shattered windows and skylights, e automobile tops in Hillsboro. A ear Rincon. The estimated hail size ted to 2 inches deep in places.
Mora County Cleveland	21	Morning			0	0	4	0	River Flood
	cou	ooding occur pled with sr Mora River	nowmelt.	tributaries A motel, b	s of thousine	ne Mo ss, and	ra Rive I some	r beca home	ause of 1.00- to 1.50-inch rains that s were flooded near Cleveland along
Bernalillo County Albuquerque	21	1215MST			0	0	3	0	Urban Flood
Thougastque	Off		gency Prep ted power	paredness i outages fo	in Alb	ouquer	que rer	orted	water in homes and street flooding.
Otero County Mayhill	21	1620MST			0	0	0	0	Hail (0.75)
way min		cooperative	observer i	n Mavhill					•
Eddy County	•			,					
Whites City	21	1645MST			0	0	3	0	Thunderstorm Winds
	One thu	e roof and nderstorm v	power ling wind of unl	ne were di known inte	amag ensity	ed 2	to 5 n	ules i	north of Whites City by a severe
McKinley County Gallup	21	1706MST			0	0	0	0	Thunderstorm Winds (G55)
<b></b>				tion obser	ved tl	hunde	rstorm	wind	gust to 55 knots.
Chaves County		17053 (07)			•	•	•	•	
30 NW Rosewell Airport		1725MST		4	0	0	0	0	Funnel Cloud
	nor	theast at 20	to 25 mpl	ted by an a	анста	и рио	t 30 m	nes no	orthwest of Roswell Airport moving
Eddy County W Carlsbad	21	1737MST			0	0	0	0	Funnel Cloud
		contract obs port.	server rep	orted a la	arge	funnel	cloud	15 t	to 30 miles west of the Carlsbad
15 W Carlsbad	21	1759MST			0	0	0	0	Funnel Cloud
		National We port.	eather Ser	vice spotte	ег гер	orted	a funn	el clo	oud 15 miles west of the Carlsbad

10 S Carlsbad 21 1810MST 0.2 10 0 0 3 0 Tornado (F0)

MAY 1991

									MAY 1991
		TIME			NO. PER	OF SONS	ESTIM DAMA	ATED GE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Kirring	OHING CE	~-com00x0	OACOAO	CHARACTER OF STORM
NEW MEXICO,	Cor	nt'd							
	A 1 10 Wa Car	tornado was miles south iste Isolation rlsbad, east	reported to Carlsba Pilot Plan of U.S. H	by the Edd d Airport. It site near ighway 28	ly Co One Carl 5.	unty ( roof sbad a	Sheriff was to also ob	's Off on off served	fice and Carlsbad Police Department and power lines were downed. The d this tornado just south-southeast of
Dona Ana County Afton	21	Afternoon			0	0	0	0	Hail (1.75)
	Αc	cooperative o	bserver re	ported in t	he mo	onthly	report	that g	olf ball-size hail covered the ground.
Eddy County 10 S Carlsbad	21	1836MST	0.2	100	0	0	0	0	Tornado (F0)
	Ope Car	erators obser	rved a tori rt. It was	nado on th estimated	e gro	ound 1	rom l	806 to	Service spotters, and two ham radio o 1845 MST, 10 miles south of the ation observer to be 100 to 200 yards
S Lakewood	21	1845MST			0	0	0	0	Funnel Cloud
	A f	unnel cloud th of Lakew	with good ood.	l rotation	was r	eporte	ed by the	he wif	fe of contract observer 5 to 10 miles
Cibola County Acoma Pueblo	21	Afternoon			0	0	0	0	Hail (0.75)
	Dir and	ne-size hail I was report	accumulate ed to Natio	ed to 1 inc onal Weatl	h dee her So	p on thervice	he grou at 185	and. 7 33 MS	The time of occurrence was unknown T.
Eddy County Artesia	21	1930MST			0	0	0	0	Funnel Cloud
	The	e public repo	orted a fun	nel cloud	south	of U	.S. Hi	ghway	52 a few miles west of Loco Hills.

Santa Fe and 22 Late-Taos Counties 23 Early

0 0 6 0 River and Stream Flood

Rivers and streams were swollen by heavy rains and snow melt causing damage to bridges and other structures in the Penasco and Chimayo areas. Damage was estimated at over \$500,000.

Eddy County Lakewood

23 1215MST

0 0 0 ? Hail (1.00)

One-inch-diameter hail with some crop damage, was reported at Lakewood.

Chaves County Rosewell Airport

23 1240MST

0 0 0 0 Hail (0.75)

Three-quarter-inch hail was reported at the Roswell Airport.

Eddy County Whites City

23 1255MST

0 0 0 ? Hail (1.75)

Golf ball-size hail was reported by the public with some crop damage indicated.

Artesia

23 1330MST

0 0 ? ? Hail (1.75)

Golf ball-size hail was reported in Artesia with some windshied damage to automobiles and some crop damage was indicated.

		TIME			NO. PER	OF SONS	ESTII DAM/	MATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KL-MD	CHACL21	P.000 HD0	CEOLO	CHARACTER OF STORM

NEW MEXICO,	Con	nt'd								
Chaves County Rosewell Airport	23	1345MST			0	0	?	0	Hail (0.75)	
	At wes	the Rosewell stern edge of	Airport, Roswell	0.75-inch on U.S. I	n hail Highw	was ro ay 70	eporte	d. Al	arge billboard was destroyed o	on the
Chaves County Rosewell Airport	26	1239MST			0	0	0	0	Hail (0.75)	
	At	the Rosewell	Airport,	0.75-inch	n hail	was r	eporte	d.		
Eddy County Artesia	26	1330MST			0	0	0	0	Hail (1.75)	
	Gol	lf ball-size ha	il was re	ported in	Artes	ia.				
Union County SW Clayton	28	1630MST			0	0	0	0	Hail (1.75)	
	Gol	lf ball-size ha	il was re	ported by	the C	Clayton	n polic	e.	•	
Quay County 1 W Nara Visa 2 E Tucumcari Logan	28 28 28	1715MST 1720MST 1800MST			0 0 0	0 0	0 0 0	0 0 0	Hail (1.00) Hail (0.75) Hail (0.75)	
-	repe	elevision met orted 1.00-ind hail.	eorologi ch hail ju	st reported st west of	d dim Nara	e-size Visa.	hail e The	ast of police	Tucumcari. Quay County de department at Logan reported	puties dime-
Lea County 25 NW Hobbs	31	1753MST			0	0	0	0	Hail (1.75)	
	The MS		iff's Off	ice report	ed gol	lf ball	-size ł	nail 25	miles northwest of Hobbs at	1753
Eddy County 5 W Carlsbad	31	1915MST			0	0	0	0	Funnel Cloud	
	A f	unnel cloud verver from 19	was repo	rted 5 mil 21 MST.	es we	st of t	he Ca	rlsbad	Airport by a Flight Service S	tation
Carlsbad	31	1848MST			0	0	0	0	Hail (2.00)	
	A F 184	light Service 8 to 1926 M	Station o ST.	bserver re	porte	1.00	- and 2	2.00-in	ch hail at the Carlsbad Airport,	, from
SW Carlsbad	31	1901MST			0	0	0	0	Hail (1.75)	
	The	Carlsbad Po	lice Dep	artment re	porte	d golf	ball-s	ize hai	l in southwestern Carlsbad.	
10 SE Carlsbad	31	1939MST	0.2	10	0	0	0	0	Tornado (F0)	
	A t Dep	tornado was partment 10 n	reported	to Carls theast of t	bad l	Flight y betv	Servi veen C	ce Sta Itis and	tion by the Carlsbad City I I Loving, moving north.	Police
3 SE Carlsbad	31	1942MST	1.0	285	0	21	6	0	Tornado (F2)	
	A to	ornado touche ard the north	ed down : east. Sor	3 miles sone damage	utheas e occu	t of th	e Carl	sbad A	airport, traveling mile on the g	round iunnel

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAM/	AATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	COMPOCION -	~— <del>—————</del>	CECOEN	CHARACTER OF STORM

## NEW MEXICO, Cont'd

which extended to the southwest for about 0.25 mile. The width of the tornado path was 285 yards.

Fourteen mobile homes were destroyed and 37 additional buildings were damaged. Numerous cars, trucks, campers, and boats were damaged or destroyed. Twenty-one people were injured, nine treated at a hospital, two of which were hospitalized, the others were released. The 12 remaining injured were treated at the scene.

People felt fortunate that the tornado struck when most of them were still outside and not in their homes or sleeping. One family reported their couch missing which was later found 1 to 2 miles away. Another reported that the tornado had lifted an automobile from the surface of the ground into the air.

Chaves County E Roswell

31 2028MST

0 0 0 Funnel Cloud

Channel 10 News in Roswell reported a funnel cloud well to the east of the city of Roswell.

Roosevelt County 3 SW Portales

31 2115MST

0 0 0 Thunderstorm Winds (G61)

A National Weather Service Cooperative Observer reported 70-mph winds which reduced the visibility to one-sixteenth of a mile in blowing dust. The thunderstorm downburst winds did not do any significant damage.

### NEW YORK, Central

Tioga County			_	_	_	_	
Barton	01	1625EST	0	0	2	0	Thunderstorm Winds
Madison County			_	_	_	_	
N Chittenango	01	1625EST	0	0	0 3 3 2	0	Funnel Cloud
N Chittenango	01	1633EST	0 0	Q	3	0	Thunderstorm Winds
Durhamsville	01	1640EST	Q	0 0 0	3	0	Thunderstorm Winds
Smithfield	01	1645EST	0	0	2	0	Thunderstorm Winds
Oneida County				_	_	_	
Countywide	01	1645EST	l	2 0 0 0	5 0	0	Thunderstorm Winds
Utica "	01	1651EST	0 0	Q	Q	0	Thunderstorm Winds (G55)
Rome	01	1652EST	Q	Ō	0 2	Q	Thunderstorm Winds (G51) Thunderstorm Winds
Tioga County	01	1715EST	0	0	2	Ō	Thunderstorm Winds
Herkimer County Old Forge							
Old Forge	01	1715EST	0	0	3	0	Thunderstorm Winds
Hamilton County							
Inlet	01	1720EST	0 0	0	3 3	0	Thunderstorm Winds
_ Raquette Lake	01	1725EST	0	0	3	0	Thunderstorm Winds
Broome County							
Union	01	1725EST	0	0	3 3	0	Thunderstorm Winds
Chenango Bridge	01	1725EST	0	0	3	0	Thunderstorm Winds
Chenango County							
Greene	01	1725EST	0	0	3	0	Thunderstorm Winds
Oxford	01	1732EST	0	0	3	0	Thunderstorm Winds
Hamilton County			•				
Blue Mountain	01	1745EST	0	0	3	0	Thunderstorm Winds
Lake							
Montgomery County	,						
St. Johnsville	01	1750EST	0	0	3	0	Thunderstorm Winds
Fulton County							*
Caroga Lake	01	1800EST	0	0	3	0	Thunderstorm Winds
Delaware County							
Deposit	01	1804EST	0	0	3	0	Thunderstorm Winds
#							

MAY 1991

		TIME			NO.	OF SONS	EST IN	AATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	M-1-MO	Omeo C. K.	4-cam 00,20 c	CROPA	CHARACTER OF STORM

## NEW YORK, Central Cont'd

Franklin County									
Southeast Portion Greene County	01	1805EST			0	0	3	0	Thunderstorm Winds
Greenville Otsego County	01	1811EST			0	0	3	0	Thunderstorm Winds
5 N Cooperstown Fulton County	01	1815EST			0	0	3	0	Thunderstorm Winds
Caroga Lake Johnstown Gloversville	01 01 01	1830EST 1830EST 1830EST			0 0 0	0 0 0	3 3 3	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
Montgomery County Eastern Portion Saratoga County	01	1830EST			0	0	3	0	Thunderstorm Winds
Northwestern Portion	01	1830EST			0	0	3	0	Thunderstorm Winds
Providence Essex County	01	1830EST			0	0	4	0	Thunderstorm Winds
Bloomingdale	01	1830EST			0	0	3	0	Thunderstorm Winds
Delaware County Deposit Fulton County	01	1843EST			0	0	3	0	Thunderstorm Winds
Mayfield Mayfield	01	1845EST Estimated	0.5	100	0	0	3	0	Tornado (F1)
Broadalbin Fonda Fultonville	01 01 01	1850EST 1850EST 1850EST			0 0 0	0 0 0	3 3 3	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
Saratoga County Saratoga Springs Warren County	01	1855EST			0	0	3	0	Thunderstorm Winds
Lake George Schoharie County Schenectady County Washington County	01 01 01	1858EST 1900EST 1900EST			0 0 0	0 0 0	2 3 3	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
Argyle Sullivan County	01	1900EST			0	0	3	0	Thunderstorm Winds
5 N Ferndale Rensselaer County	01	1915EST			0	0	3	0	Thunderstorm Winds
Troy Albany County Rensselaer County	01 01	1917EST 1930EST			0	0 0	3 3	0	Thunderstorm Winds Thunderstorm Winds
Cropseyville Grafton	01 01	1940EST 1940EST			0	0	3 3	0	Thunderstorm Winds Thunderstorm Winds

The first day of May saw a squall line move through eastern New York during the late afternoon and evening hours. Numerous reports of downed trees and power lines were received from across the area. Oneida County was one of the hardest hit areas by the storms with over 10,000 people left without power. One person was killed and two others injured when the car in which they were riding in along Route 365 in Oneida Castle was struck by a large tree limb. Fulton and Saratoga Counties were also affected by the storms with an confirmed F1 tornado in the town of Mayfield near Route 123 in Fulton County, and thunderstorm downburst winds of 70 to 80 mph destroyed a building at Hagedorns Mills in the town of Providence in Saratoga County. (F29V)

NYZ013-020 Lower Hudson Valley and Greater Capital District

13 Afternoon 0 0 0 Record Heat

Many communities in the Hudson Valley of New York tied or set new record high temperatures. The mercury hit 87°F at both Newburgh and Poughkeepsie breaking the previous record and Albany hit 86°F which tied the record high set in 1985.

MAY 1991

		TIME			NO. PERS	OF SONS	EST IN	ATED AGE	
PLACE	DA:	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OMWCL-Z-		COCODA	CHARACTER OF Storm

### NEW YORK, Central Cont'd

Warren County							
Lake George	17	1346EST	0	0	4	0	Lightning
Fulton County							6 6
Broadalbin	17	1415EST	0	0	3	0	Thunderstorm Winds
Saratoga County							
Milton	17	1500EST	0	0	6	0	Thunderstorm Winds
Ballston Spa	17	1500EST	0	0	6 5 4 5 4 5	0	Thunderstorm Winds
Malta	17	1500EST	Ŏ	0	4	0	Thunderstorm Winds
Clifton Park	17	1500EST	0	1	5	0	Thunderstorm Winds
Waterford	17	1500EST	0	0	4	0	Thunderstorm Winds
Saratoga Springs	17	1515EST	0	Ó	5	0	Thunderstorm Winds
Washington County							
Easton	17	1525EST	0	0	3	0	Thunderstorm Winds
Cambridge	17	1535EST	0	0	4	0	Thunderstorm Winds
Rensselaer County							
Buskirk	17	1535EST	0	0	4	0	Thunderstorm Winds
Eagle Bridge	17	1535EST	0	0	4	0	Thunderstorm Winds
Hoosick Falls	17	1535EST	0 0 0 0	0	4	0	Thunderstorm Winds
North Hoosick	17	1535EST	0	0	4 4 3 3	0	Thunderstorm Winds
Valley Falls	17	1540EST	0	0	4	0	Thunderstorm Winds
Melrose	17	1545EST	0	0	3	0	Thunderstorm Winds
Tomhannock	17	1545EST	Ŏ	Ŏ	3	0	Thunderstorm Winds
Reservoir							
Dutchess County							
Red Hook	17	1615EST	0	0	3	0	Thunderstorm Winds
Columbia County							
Hudson	17	1620EST	0	0	3	0	Thunderstorm Winds
<b>Dutchess County</b>			_	_	_	_	
Red Hook	17	1800EST	0	0	4	0	Thunderstorm Winds
Wappingers Falls			_	_		_	
Poughkeepsie	17	1810EST	0	0	4	0	Lightning
Putnam County	4.57	40000000	_			_	***
Patterson	17	1900EST	0	1	4	0	Lightning

An intense squall line developed ahead of a cold front as it swept into eastern New York during the afternoon of May 17th. Numerous reports of trees and power lines downed by thunderstorm winds were received from across the area. The hardest hit counties were Saratoga and Rensselaer, where around 10,000 people were left without power. Several cars were damaged by downed trees in Ballston Spa and Clifton Park. A man in Clifton park also sustained a hand injury when a tree toppled onto his truck. At the Saratoga County Airport in Milton, several planes sustained heavy damage, while in the town of Saratoga one side of an abandoned church collapsed. The storms were also accompanied by frequent lightning which started house fires in Lake George, Poughkeepsie, and Patterson. In the wake of the thunderstorms, temperatures dropped from the 80s into the 50s during a 2-hour period.

		·					
Oneida County Rome	27	0130EST	0	0	2	0	Lightning
	Lig	htning struck and damaged a po	ool on	Cole	man M	Iills R	oad.
Broome County Windsor Delaware County	30	1435EST	0	0	3	0	Thunderstorm Winds
Sidney Albany County	30	1445EST	0	0	3	0	Thunderstorm Winds
Bethlehem Albany Albany	30 30 30	1500EST 1512EST 1512EST	0	0 0 0	0 0 3	0 0 0	Hail (0.75) Hail (1.00) Urban Flood
Rensselaer County Schodack	30	1515EST	0	0	4	0	Thunderstorm Winds

MAY 1991

		TIME			NO.	OF SONS	EST I	MATED	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	OM-1-M	CH20CL2	~-com-00x10	CKOPN	CHARACTER OF STORM

## NEW YORK, Central Cont'd

Albany County							
Bethlehem	30	1520EST	0	0	6	0	Thunderstorm Winds
Guilderland	30	1520EST	0	0	6 5 3 2	0	Thunderstorm Winds
Guilderland	30	1520EST	Ō	Ō	3	Ō	Urban Flood
Guilderland	30	1520EST	0	Ó	2	Ó	Hail (2.75)
Rensselaer County			•	-	_	•	
Stephentown	30	1530EST	0	0	3	0	Thunderstorm Winds
Columbia County					-		
5 N Kinderhook	30	1535EST	0	0	4	0	Thunderstorm Winds
Lake	-	200000	_	•	•	•	
North Chatham	30	1535EST	0	0	4	0	Thunderstorm Winds
Valatie	30	1540EST	Ŏ	Ŏ	3	Ŏ	Thunderstorm Winds
Chenango County	-	10 10221	•	•	-	•	
Mcdonough	30	1545EST	0	0	2	0	Thunderstorm Winds
Columbia County	20	10 10201	•	•	44	•	
North Chatham	30	1547EST	0	0	3	0	Thunderstorm Winds
Sullivan County	50	10111001	v	v	•	•	Indidoistorin which
Thompsonville	30	1600EST	0	0	3	0	Thunderstorm Winds
Ulster County	50	1000251	U	U	,	U	Thunderstorm winds
Wallkill	30	1600EST	0	0	3	0	Thunderstorm Winds
Chenango County	30	10001201	U	U	3	U	I minderstorm winds
Greene	30	1600EST	0	0	2	0	Thunderstorm Winds
Smyrna	30	1600EST	ŏ	ŏ	2 3	ŏ	Thunderstorm Winds
Orange County	30	IOOOLSI	U	U	,	U	Indideistorm winds
Newburgh	30	1600EST	0	0	3	0	Thunderstorm Winds
Middletown	<b>3</b> 0	1610EST	ŏ	ŏ	ő	ŏ	Hail (1.00)
Middletown	30	1610EST	ŏ	ŏ	5	ŏ	Thunderstorm Winds
Ulster County	30	1010631	U	U	,	U	I numberstorm wings
Plattekill	30	1610EST	0	0	3	0	Thunderstorm Winds
Dutchess County	30	1615EST	ŏ	ŏ	3	ŏ	Thunderstorm Winds
Orange County	30	1013131	U	U	,	U	Thunderstorm winds
Highland Falls	30	1630EST	0	0	2	0	Lightning
	30	10000531	U	U	2	U	Lightning
Putnam County	30	1632EST	0	0	2	0	Thursdometown Winds
Philipstown	30	1622E31	ŏ	ŏ	3 3		Thunderstorm Winds
Garrison		1632EST			2	0	Thunderstorm Winds
Carmel	30	1700EST	0	0	3	0	Thunderstorm Winds
Saratoga County	20	1000ECT	^	^	-	^	T I-La-I
Wilton	30	1800EST	Ŏ.	Ŏ	3	Ŏ	Lightning
Dutchess County	30	1837EST	0	0	3	0	Thunderstorm Winds
Putnam County	20	10455000	_	_	•	_	m 1 . xxr 1
Philipstown	30	1845EST	Q	Ŏ	3	Ŏ	Thunderstorm Winds
Garrison	30	1845EST	Õ	0	3	0	Thunderstorm Winds
Mahopac	30	1900EST	0	0	3	0	Thunderstorm Winds
Dutchess County	20	100TF0T	_	^	•	^	erst 1 . Trans
Lagrangeville	30	1907EST	Õ	0	3 3	0	Thunderstorm Winds
Stormville	30	1907EST	Ŏ	Ŏ	3	Ŏ	Thunderstorm Winds
Poughkeepsie	30	1910EST	0	0	3	0	Thunderstorm Winds

A squall line swept through eastern New York on the afternoon and evening of May 30th causing widespread damage and producing some flooding in the Capital District Area. Hardest hit were the Townships of Bethlehem and Guilderland in Albany County. Extensive damage was reported at the Canterbury Park and Covington Woods housing developments along with baseball-size hail. Route 20 in Guilderland was closed for 2 hours during rush hour because of waste-high flooding. In Bethlehem, numerous trees were completely uprooted and a construction trailer was destroyed. In Albany many roads were flooded with up to 3 feet of standing water as storm drains overflowed. Also affected was the Columbia County town of Chatham where many trees were uprooted by thunderstorm winds. Altogether, over 20,000 people were left without power.

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	MATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L L E D		~—com.00x.v	CECOEN	CHARACTER OF STORM

# NEW YORK, Coastal

Westchester County	30	1730EST	0	0	?	0	Thunderstorm Winds
Nassau County Long Beach Suffolk County	30	1800EST	0	0	0	0	Thunderstorm Winds
Islip Holbrook		1834EST 1837EST	0	0	0	0	Hail (1.00) Hail (1.50)

An upper-level disturbance, moving through a very warm and unstable air mass, generated large hail and locally-damaging winds.

# NEW YORK, Western

Esia Camata									
Erie County Eden	01	1340EST	0.5	10	0	0	5	0	Tornado (F0)
Niagara County Niagara Falls	01	1346EST			0	0	3	0	Thunderstorm Winds (G51)
Wyoming County Couriers Java	01 01	1415EST 1415EST	0.2	50	0	0	4 4	0	Thunderstorm Winds Tornado (F1)
Genesee County Elba	01	1421EST			0	0	3	0	Thunderstorm Winds
Erie County Holland	01	1430EST	,		0	0	3	0	Thunderstorm Winds
Livingston County Mt. Morris Dansville	01 01	1450EST 1455EST			0	0	<b>4</b> <b>3</b>	0	Thunderstorm Winds Thunderstorm Winds
Monroe County Rochester Pittsford Henrietta	01 01 01	1455EST 1500EST 1500EST	•		0 0 0	0 0 0	4 5 4	0 0 0	Thunderstorm Winds (G56) Thunderstorm Winds Thunderstorm Winds
Allegany County Angelica	01	1500EST			0	0	3	0	Thunderstorm Winds
Ontario County Farmington	01	1510EST			0	0	4	0	Thunderstorm Winds
Steuben County Wayland Addison	01 01	1515EST 1521EST			0	0	3 4	0	Thunderstorm Winds Thunderstorm Winds
Schuyler County Tyrone	01	1523EST			0	0	3	0	Thunderstorm Winds
Ontario County Phelps	01	1525EST			0	0	4	0	Thunderstorm Winds
Yates County Dresden	01	1525EST			0	0	3	0	Thunderstorm Winds
Steuben County Bath	01	1527EST			0	0	3	0	Thunderstorm Winds
Wayne County Clyde Carrier County	01	1530EST			0	0	3	0	Thunderstorm Winds
Cayuga County Auburn Senega County	01	1530EST			0	0	3	0	Thunderstorm Winds
Seneca County Waterloo	01	1535EST			0	0	4	0	Thunderstorm Winds
Jefferson County Ontario Point	01	1600EST			0	0	3	0	Thunderstorm Winds (G55)
Oswego County Fulton	01	1600EST			0	0	4	0	Thunderstorm Winds
Onondaga County Baldwinsville Syracuse	01 01	1607EST 1617EST			0	0	3 3	0	Thunderstorm Winds Thunderstorm Winds (G66)

MAY 1991

		TIME		,	NO. PER	OF SONS	ESTIM DAMA	ATED GE	
PLAC	E DA	LOCAL	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OMMOC.Z-	₽₩0₽₩ <b>₩</b> -¥	ORODO	CHARACTER OF STORM

## NEW YORK, Western Cont'd

Collamer Ontario County	01	1620EST	0	0	4	0	Thunderstorm Winds
Bristol	01	1625EST	0	0	4	0	Thunderstorm Winds
Jefferson County Orleans	01	1630EST	0	0	4	0	Thunderstorm Winds
Oswego County Caughdenoy	01	1639EST	 0	0 .	4	0	Thunderstorm Winds
Tompkins County Lansing	01	1640EST	0	0	3	0	Thunderstorm Winds
Steuben County N Cohocton	01	1642EST	0	0	4	0	Thunderstorm Winds

A strong, cold front crossed the area producing severe thunderstorms, two of which spawned two small tornadoes. A tornado touched down in Eden, in Erie County, downing or damaging several dozen trees. The most extensive damage occurred when a large tree was uprooted and fell across the corner of a house. A barn on the property also sustained major damage as the western side of the second floor was torn off. Another tornado touched down in the town of Java in Wyoming County, and was embedded in a larger area of strong downburst wind. About 30 trees were damaged or destroyed in the mostly wooded area. The roof of a visitors center was torn off and one tree fell on a cabin and caused damage.

The thunderstorm winds uprooted trees and downed power lines across the area. Specific damage reports included: several 12-inch-diameter trees downed in Dansville; a barn was damaged in Farmington; a small plane parked at Monroe County Airport, Rochester, was overturned; the New York State Police Department in Henrietta had a portion of its roof blown away; wind removed a roof from a home in Pittsford; a 12- by 12-foot storage shed was moved 75 feet in Henrietta; a garage roof was blown off in Fulton; a roof was blown off the General Electric Complex in Collamer; and a barn was blown down in Caughdenoy and another in Orleans.

	County
Juniu	\$
Туге	

17 1140EST 0 0 3 0 Thunderstorm Winds 17 1150EST 0 0 3 0 Thunderstorm Winds

A cold front crossed the area and produced severe thunderstorms and which uprooted trees and downed power lines.

### Cattaraugus County Otto

26 1600EST 0 0 3

0 0 3 0 Thunderstorm Winds

Winds from a line of thunderstorms uprooted a stand of trees and tore fascia board off a house in the town of Otto during the early evening hours.

### Lewis County

27 0600EST

0 0 3 0 Flash Flood

In the late evening of the 26th, thunderstorms produced heavy rainfall. Highmarket reported 4.80 inches of rain. Sugar River, an ungaged stream and tributary to the Black River, reportedly exceeded its banks and two cows drowned.

### NORTH CAROLINA

Lenoir County Northern Portion Pitt County	. 01	1450EST			0	0	0	0	Hail (1.75)
Bethel	01	1526EST			0	0	0	0	Hail (0.88)
Craven County Askin		1530EST	•		0	0	0	0	Hail (0.75)
Martin County 1 N Robesonville	01	1540EST		,	0	0	0	0	Hail (2.00)

		TIME	•		NO. PER:	OF SONS	EST II	ATED GE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Kirino		P.ROPERTY	COCODO	CHARACTER OF STORM

NORTH CAROL	INA	Cont'd						
Craven County 3 E Cove City	01	1555EST		0	0	3	0	Thunderstorm Winds Funnel Cloud
	Wir	nd damaged a smoke l	nouse and r	nobil	e hom	ie, bro	ke tree	e limbs, and downed power lines.
Surry County 3 S Dobson	06	1500EST	•	0	0	4	0	Thunderstorm Winds
	Wir	nd damaged a cattle ba	arn, and ble	ew de	own s	everal	power	lines and poles.
Cleveland County Kings Mountain	16	1845EST		0	0	3	0	Lightning
	Fire	es in three textile plan	ts caused d	amag	ged ex	ceedin	g \$2,5	00.
Caldwell County 2 S Collettsville	18	1530EST		0	0	3	0	Lightning
	Thr	ee riding horses, valu	ed at \$2,50	0, w	ere st	ruck a	nd kille	ed by lightning.
Forsyth County Kernersville and Vicinity	19	0025EST		0	0	?	0	Flash Flood
and vicinity	Slov Res	w-moving thunderstor ultant flash flooding	ms produce on creeks th	ed he reate	eavy r	ains ir earby	the la	ate night and early-morning hours. homes.
Pender County Burgaw	28	2300EST		0	0	4	0	Lightning
	A n	niddle school fuel pur ort cost \$15,100.	np was dan	naged	l, dum	ping 1	1,100 g	gallons of heating oil. The cleanup
Iredell County	31	Unknown		0	0	4	. 0	Lightning
	Fire	es destroyed one hous	e and dama	ged a	anothe	r in th	ie coun	ity.
NORTH DAKOT	ľA	·						
NDZ004-007-008- 011-013 Parts of Southern	03	0500CST- 2100CST		0	0	0	0	Heavy Snow
North Dakota	A N part all	May snowstorm, rare of southern North I rain. The snow- and	even by No Dakota. In slush-cover	orth I the e ed re	Dakota eastern oads le	stand quarted to v	ards, d er of N ehicle	dropped 6 to 8 inches of snow over North Dakota, the precipitation was accidents, including a fatality.
Renville County Sherwood	12	1450CST		0	0	4	3	Thunderstorm Winds
	Wir	nds destroyed a large	section of a	roo	f on a	high s	school	gymnasium.
Ward County Minot Air Force Base	12	1455CST		0	0	0	0	Hail (0.75)
Minot Air Force Base	12	1529CST		0	0	0	0	Hail (0.75)
Surrey	12	1530CST		0	0	3	3	Thunderstorm Winds

MAY 1991

		TIME		-	NO.	OF SONS	ESTIN DAM/	AGE	
PLACE	Đ	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OE PATH (YARDS)	K I	CHESCLE		Cacoan	CHARACTER STORM

### NORTH DAKOTA Cont'd

Burleigh County 2 E Bismarck 5 SE Bismarck Benson County	12 12	1515CST 1531CST	0	0	3 0	3	Hail (1.75) Hail (0.75)
Maddock	12	1625CST	: 0	0	3	3	Hail (1.75) Thunderstorm Winds (G52)
Oberon	12	1630CST	0	0	3	3	Hail (1.75)
Minnewaukan	12	1655CST	0	0	3	3	Hail (1.75)
6 N Minnewaukan	12	1700CST	0	0	0	0	Funnèl Cloud
2 E Leeds	12	1730CST	Ō	0	3	3	Hail (1.75)
Cass County							` ,
7 SE Alice	12	1859CST	0	0	3	3	Thunderstorm Winds (G52) Hail (0.75)
Ramsey County							` '
Devils Lake (P11)	12	1920CST	0	2	5	4 .	Thunderstorm Winds (G83) Funnel Cloud

Winds gusted to near 100 mph in Devils Lake, lasting 4 to 5 minutes. The winds lifted the roof off a motel and destroyed 24 of its rooms, mostly on the upper (second) floor. Fortunately the rooms were unoccupied. The winds damaged many other buildings in the town; and lifted out signs, fences and trees. Two people received minor injuries from the flying debris. Property damage was estimated at one million dollars. The high winds occurred mainly in the city of Devils Lake, with little damage to the outlying areas. A funnel cloud was sighted during the winds, and came within 15 feet of touching down.

Towner County 10 SE Cando Cando Cass County	12 12	1945CST 1945CST	·		0	0	0	0 3	Hail (1.00) Thunderstorm Winds (G52)
Kindred Horace Fargo (FAR) 10 S Fargo	12 12 12 12	1950CST 1955CST 2034CST 2105CST			0 0 0 0	0 0 0	0 0 0 0	0 0 0	Hail (1.00) Hail (1.00) Thunderstorm Winds (G50) Hail (0.75)
Grant County New Leipzig	14	1945CST			0	Ó	0	0	Hail (1.50)
Dickey County Oakes Stutsman County	14	2030CST			0	0	3	3	Hail (2.00)
8 S Jamestown Jamestown	14 14	2115CST 2126CST	**100	10	0	0	3	3 3	Tornado (F0) Thunderstorm Winds (G53)

The tornado lasted less than five minutes, and dissipated very quickly.

Traill County									
Mayville	14	2250CST		•	0	0	0	0	Hail (0.75)
Sargent County 1 SW Crete	30	1220CST- 1230CST	2.0	40	٥	Δ	4	4	Tomodo (E1)
4 E Crete	30	1230CST	2.0	40	ŏ	ŏ	Õ	Õ	Tornado (F1) Funnel Cloud

A long cigarette-shaped funnel touched down and then traveled 2 miles northwest along farmland while skipping up and down in the cloud. At times, the tornado was stationary on ground. A funnel cloud was also sighted with the tornado.

Dickey County 2 E Oakes

30 1227CST \*\*80 12 0 0 2 2 Tornado (F0)

A tornado touchdown toppled some trees.

									MAY 199
		TIME			NO.	OF SONS	EST I	ATED	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OMWCLZ-	P. & O. P. E. P.	OTOTO	CHARACTER STORM
NORTH DAKOT	'A (	Cont'd							
Grand Forks County 1 SW Grand Forks 5 W Grand Forks Merrifield 2 E Thompson	30 30 30 30	1340CST 1344CST 1405CST 1428CST			0 0 0 0	0 0 0 0	0 0 0	0 0 0	Funnel Cloud Funnel Cloud Funnel Cloud Funnel Cloud
	Nu	merous funi	nel clouds	were sight	ed by	/ Grai	nd For	ks law	enforcement agencies.
Benson County	30	2130CST- 2330CST			0	0	4	4	Thunderstorm Winds Heavy Rains
Towner County 14 N Cando	swa	minutes, och th north of 2133CST	Leeds. T	th the heav he rain lef	y raii t muc	ns. The of	The heather the far	aviest mland	rain and hail covered a 2- to 3-n underwater. Funnel Cloud
ОНЮ									
Geauga County Russell 3 W Burton	01 01	1150EST 1200EST			0	0	4 3	0	Hail (1.75) Hail (0.75)
Holmes County Berlin Formbyll County	01	1220EST			0	0	4	0	Hail (1.75)
Frumbull County Southington Ashtabula County	01	1230EST			0	0	4	0	Thunderstorm Winds
Ashiabula County Andover Columbiana County	01	1244EST			0	0	3	0	Hail (0.75)
Homeworth Stark	01	1245EST			0	0	3	0	Hail (0.75)
Alliance  Frumbull County	01	1300EST			0	0	3	0	Hail (0.75)
Warren Mahoning County	01	1305EST	•		0	0	3	0	Hail (0.75)
Springfield Columbiana County	01	1309EST			0	0	4	0	Thunderstorm Winds (G51)
5 E Rogers	01	1330EST			0	0	4	0	Thunderstorm Winds

Thunderstorms moved through northeastern Ohio producing large hail and some wind damage. A roof was blown off a barn 5 miles east of Rogers and a small farm building was destroyed in Southington.

Coshocton County Coshocton	05	1600EST	0	0	4	0	Thunderstorm Winds
	An	isolated thunderstorm ble	w down tre	es in (	Cosho	cton.	•
Hamilton County Lunken Airport Lunken Airport Clermont County Goshen Warren County Lebanon Northeastern Portion	16 16	1353EST 1847EST 1919EST 1920EST 1925EST	0	0	4 4 4 5	0	Thunderstorm Winds (G57) Thunderstorm Winds (G56) Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds

MAY 1991

									MAY 1991
		TIME			NO. PER	OF SONS	ESTIM DAMA	ATED GE	
	D	LOCAL	LENGTH OF PATH	WIDTH OF PATH	Ķ	N	P R	Ç	CHARACTER
PLACE	E	STANDARD	(MILES)	(YARDS)	KILLED	-ZJD&mO	o O	೧೮೦೮೧	STORM
			(MICES)	(TARDS)	Ď	Ê	~-KOD-mXI>	3	
	<u></u>			<u> </u>	<u></u>	<u></u>	Υ		
OHIO Cont'd									
Hamilton County Milford	16	1932EST			0	0	4	0	Thunderstorm Winds
Warren County Franklin	16	1935EST		•	0	0	4	0	Thunderstorm Winds
Hamilton County Harris Park	16	1954EST			0	0	4	0	Thunderstorm Winds
Newton Clermont County		1,0,1201			·			Ů	· · · · · · · · · · · · · · · · · · ·
Tate	16	2000EST			0	0	4	0	Thunderstorm Winds
Greene County Xenia	16	2012EST			0	0	4	0	Thunderstorm Winds
Spring Valley Clark County									
Western Portion		2045EST			0	0	4	0.	Thunderstorm Winds
	Thu	inderstorms	moved thr	ough south	west	ern O	hio blo	wing	down trees and power lines in many jured by flying glass and five boats
	wer	e overturne	d and sank	at Caesar	Cree	k Lak	ce.	was III	fured by frying glass and five boats
Darke County	4-	4000000			_			_	TT 11 (4 00)
Southern Portion Preble County	17	1827EST			0	0	4	0	Hail (1.00)
Northeastern Portion	17	1830EST			0	0	4	0	Thunderstorm Winds
Montgomery County Brookville	17	1847EST			0	0	4	0	Hail (1:00)
Countywide	17	1847EST			ŏ	ŏ	4	ŏ	Hail (1.00) Thunderstorm Winds
Butler County Oxford	17	2000EST			0	0	4	0	Thunderstorm Winds
Oxford Hamilton	17 17	2000EST 2020EST			0	0	3	0	Hail (0.75) Thunderstorm Winds
Greene County Eastern Portion	17	2027EST			0	0	4	0	Thunderstorm Winds
Cedarville Hamilton County	17	2027EST			0	0	4	0	Hail (1.75)
Colerain Township Warren County	17	2030EST			0	0	3	0	Hail (0.75)
Southern Portion	17	2040EST			0	0	3	0	Hail (0.75)
Clinton County Sabina	17	2120EST			0	0	4	0	Thunderstorm Winds
Clermont County Fayette County	17	2121EST			0	0	4	. 0	Thunderstorm Winds
Washington C.H.	17	2150EST			0	0	4	0 .	Hail (1.00)
	Thu larg	nderstorms e hail. A b	moved throarn lost its	ough southers roof in the	ern O	hio bl vn of	owing Sabina	down ( i.	trees and power lines, and producing
Sandusky County Clyde	24	1110EST			0	0	3	0	Hail (0.88)
Lorain County					0				• • •
Lorain Cuyahoga County	24	1240EST			-	0	4	0	Thunderstorm Winds
1 N Bedford	24	1347EST			0	0	3	0	Hail (0.88)
	Thu	nderstorms	blew down	power line	es an	d drop	ped la	rge hai	I in isolated areas of northern Ohio.
Stark County Minerva	28	1620EST		٥	0	0	4	0	Thunderstorm Winds

An isolated thunderstorm blew down trees and power lines in Minerva.

MAY 1991

		TIME	÷ +		NO. PERS	OF SONS	EST IN	ATED GE	
PLACE	040-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILIMO	OTTO CAR	4-との中心のもつ	CEOPA	CHARACTER OF STORM

### OHIO Cont'd

N 11 0 4							
Noble County Sarahsville	30	1615EST	0	0	4	0	Thunderstorm Winds
Washington County 1 N Marietta	30	1630EST	0	0	4	0	Thunderstorm Winds
Lorain County Eastern Portion	30	1820EST	0	0	4	0	Thunderstorm Winds
Cuyahoga County Lakewood	30	1827EST	0	0	4	0	Hail (1.00)
Medina County Brunswick	30	1847EST	0	0	4	0	Thunderstorm Winds
Cuyahoga County North Royalton	30	1850EST	0	0	5	0	Thunderstorm Winds (G65)
North Royalton Medina County Eastern Portion	30	1904EST	0	0	4	0	Thunderstorm Winds
Seneca County 3 N Fostoria 4 NNE Fostoria	30 30	1917EST 1929EST	0	0	<b>4</b> <b>4</b>	0	Hail (1.00) Hail (1.00)
Hancock County McComb	30	1930EST	2	2	5	0	Thunderstorm Winds
Summit County Fairlawn Richfield	30	1930EST	0	0	4	0	Thunderstorm Winds
Portage County Randolph	30	1940EST	0	0	5	0	Thunderstorm Winds
Tuscarawas County Dover	30.	1945EST	0	0	4	0	Thunderstorm Winds
Trumbull County Leavittsburg Warren	30 30	1931EST 2015EST	0	0	4 4	0	Thunderstorm Winds Thunderstorm Winds
Wyandot County Eastern Portion	30	2040EST	0	0	3	0	Hail (0.75)
Richland County Madison Township Ashland County Wayne County	30 30 30	2145EST 2200EST 2200EST	0 0 0	0 0 0	4 4	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
•					_	_	i aux

Thunderstorms moved across northern Ohio blowing down trees and power lines in many areas, and producing some large hail. Numerous trees fell upon homes in North Royalton when winds reached 70 to 80 mph. Four people took refuge in an almost-completed, new home as severe thunderstorms moved into the northwestern corner of Hancock county. A mother and her son were killed, and two men were injured when the house collapsed. (F270)(MO30)

Seneca and Huron Counties 3 SE Tiffin Willard

30 2000EST-2030EST 22.0 100 0 0 5 0 Tornado (F1)

A tornado touched down about 3 miles southeast of Tiffin and traveled on a hit and skip path to the east along Route 224. It passed just north of Bloomville to Attica, then crossed into Huron County at 2020 EST and continued to the northern side of Willard before lifting for the last time. The tornado damaged trees, power lines, and some buildings with the most damage occurring in Attica.

Van Wert County

30 2100EST-31 0700EST 0 0 4 0 Small Stream Flood

Rainfall of 2.00 to 4.00 inches fell over northern parts of Van Wert County flooding roads, underpasses, and fields.

MAY 1991

		TIME			NO. PER:	OF SONS	EST I	MATED NGE	
PLACE	DAG-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMID	CMD9C6.2-		೧೮೦೮೧	CHARACTER OF STORM

### OHIO Cont'd

Lucas County							
1 N Waterville	31	2020EST	0	0	4	0	Thunderstorm Winds (G55)
Wood County	21	004EFRT	^	^		^	W 1 W 1 (050)
2 S Bowling Green	31	2045EST	0	0	4	0	Thunderstorm Winds (G55)
Erie County Huron	31	2145EST	0	0	4	0	Thunderstorm Winds
Lorain County	JI	2145131	v	v	4	U	Thunderswith winds
Wellington	31	2208EST	0	0	4	0	Thunderstorm Winds
Darke County	31	22001201	U	U	4	U	Thunderstorm winds
1 SE Greenville	31	2240EST	0	0	4	0	Thunderstorm Winds
Ashland County	ЭΪ	2240E31	U	U	4	U	i nunderstorm winds
Ashland County Hayesville	31	2245EST	0	0	4	0	Thunderstorm Winds
Distinct County	31	2243E31	U	U	4	U	Thunderstorm winds
Richland County	31	2245EST	0	0	4	0	Thunderstorm Winds
Possum Run	31	ZZAJEST	U	U	4	U	i nunderstorm winds
Cuyahoga County Highland Heights	21	2240ECT	^	^	4	^	TL J W 1.
Highland Heights	31	2248EST	0	0	4	0	Thunderstorm Winds
Euclid							
Miami County	~4	AAA STAM	^	^		^	078 1 4 XXV 1
West Milton	31	2325EST	0	0	4	0	Thunderstorm Winds

Thunderstorms moved across northern Ohio blowing down trees and power lines in many areas.

### OKLAHOMA

Tillman County	00	1600000			^	^		9	The dead on Winds
Grandfield	02	1600CST			0	U	4		Thunderstorm Winds
Comanche County 3 N Faxon	02	1657CST			0	0	3	?	Thunderstorm Winds
Kingfisher County 3 E Kingfisher	02	1825CST			0	0	4	?	Thunderstorm Winds (G69)
McClain County Blanchard	02	1900CST	0.3	30	0	3	4	?	Tornado (F1)
Cleveland County Moore	02	1920CST	0.5	30	0	0	5	?	Tornado (F1)

Severe thunderstorms developed across the southwestern portions of Oklahoma and spread to the central portions of the state producing two tornadoes.

In Granfield, severe thunderstorm winds destroyed a mobile home and an equipment barn, damaged the roof of a church, and downed power lines. Damage was estimated at \$40,000. North of Faxon, severe thunderstorm winds caused an estimated \$5,000 damage to a home. Three miles east of Kingfisher, winds estimated at 80 mph from a decaying thunderstorm complex, caused extensive damage to a roof of one house, and damaged a barn and several outbuildings. Damage is estimated at \$35,000, with \$28,000 of the damage done to the house. The first tornado (FI) occurred in Moore along a thunderstorm gust front. It destroyed about 200 self-storage units at a storage facility and 20 boats at a boat storage facility across the street, and damaged 5 mobile homes. The damage was estimated at \$325,000. The second (FI) tornado occurred along a gust front as it was moving through Blanchard. It destroyed two mobile homes, causing three minor injuries. The estimated damage is \$20,000.

Choctaw County Hugo Pushmataha County	03	0210CST	0	0	4	?	Thunderstorm Winds
Kiamichi McCurtain County	03	0215CST	0	0	?	?	Thunderstorm Winds
Valliant Idabel Wright City	03 03 03	0215CST 0230CST 0230CST	0 0 0	0 0 0	4 6 4	? ? ?	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds

MAY 1991

		TIME			NO.	OF SONS	EST IN	AGE	
PLACE	DA	LOCAL	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KJulano			CECOON	CHARACTER OF STORM

### OKLAHOMA Cont'd

Severe thunderstorms moved across the southeastern portion of the state. In Hugo, severe thunderstorm winds downed power lines and caused an estimated \$30,000 damage to two buildings when their roofs were ripped off by the strong winds. Severe thunderstorm winds in Kiamichi caused tree and power line damage, and in Valliant a roof was torn off a church by the winds causing an estimated \$30,000 damage. Extensive damage was done by severe thunderstorm winds at Idebel to the Kiamichi Vo-Tech Center, with damage estimated at \$3 million. A water plant was destroyed (\$50,000 damage) in Wright City by the winds.

Love County							
6 W Marietta	03	1440CST	0	0	?	?	Hail (0.75)
Johnston County			_	_	_	_	
Mill Creek	03	1534CST	0	0	?	?	Hail (1.00)
Garvin County	02	1/00/00	^	^	0	0	II. 1 (0.00)
1 E Pauls Valley Pottawatomie County	03	1620CST	0	0	?	?	Hail (0.88)
15 SW Tecumseh	03	1645CST	0	0	?	?	Thursdoortoom Winds (C52)
Cleveland County	U	1045C51	U	U	:	:	Thunderstorm Winds (G52)
7 E Noble	03	1646CST	0	0	?	?	Hail (1.75)
Pottawatomie County	UJ	10-10031	U	U	•	•	Hall (1.73)
3 E Pink	03	1702CST	Ω	0	9	?	Hail (0.75)
Pink	03	1748CST	0	0	?	ż	Hail (1.00)
Osage County			-	_	•	-	()
Osage County 4 W Okesa	03	1825CST	0	0	?	?	Hail (0.88)
3 N Okesa	03	1900CST	0	0	?	?	Hail (0.75)
Washington County						_	•
7 S Copan	03	1915CST	0	0	?	?	Hail (0.75)
Nowata County	00	1050000	^	^			II 1 (0.55)
2 S Wann	03	1950CST	0	0	?	?	Hail (0.75)
Washington County	02	2044CCT	Λ	Λ	0	9	II-:1 (0.75)
1 NW Copan	03	2044CST	0	0	?	á	Hail (0.75)
Copan 1 N Copan	03 03	2045CST 2055CST	0	0	?	?	Hail (1.75) Hail (0.75)
i ii Copan	VJ	2033C31	v	v	•		пан (0.75)

Severe thunderstorms developed over south-central Oklahoma during the afternoon and spread into northeastern Oklahoma during the evening hours producing large hail and strong winds.

Stephens County 6 S Bray	04	1530CST			0	0	?	?	Hail (1.75)
Jefferson County 3 SW Waurika	04	1545CST			0	0	?	?	Hail (0.88)
Garvin County 2 SSW Elmore City	04	1558CST	0.3	20	0	0	?	?	Tornado (F0)
Okfuskee County 5 E Welty	04	1615CST			0	0	?	?	Thunderstorm Winds
Garvin County 2 N Elmore City Garfield County	04	1620CST			0	0	?	? .	Hail (0.88)
1 SW Fairmont Kay County	04	1620CST			0	0	?	?	Hail (1.00)
5 W Braman Grant County	04	1625CST			0	0	?	?	Hail (1.00)
7 SE Renfrow Creek County	04	1630CST			0	0	?	?	Hail (0.75)
2 N Mounds	04	1630CST			0	0	?	?	Hail (0.75)
Okmulgee County 6 N Beggs Tulsa County	04	1635CST			0	0	?	?	Hail (0.88)
Downtown Tulsa	04	1641CST			0	0	?	?	Hail (0.75)

MAY 1991

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	סשאטכורא	4-1200 A C	CECOEN	CHARACTER OF STORM

### OKLAHOMA Cont'd

Osage County 12 S Skiatook	04	1644CST			0	0	?	?	Hail (0.75)
Tulsa County					_	_			
SE Tulsa	04	1653CST			0	Ò	?	?	Hail (0.75)
8 ESE Tulsa	04	1705CST			0	0	?	?	Thunderstorm Winds (G52)
Oklahoma County	04	1710CST			Λ	0	2	9	II.:! (A 99)
SE Oklahoma City	04	1/10031			0	U	?	?	Hail (0.88)
Washington County 2 E Vera	04	1715CST			0	0	?	?	Thunderstorm Winds (G52)
Nowata County	VŦ	1715051			U	U	•	•	indicisioni vinds (052)
Wann	04	1720CST	•		0	0	?	?	Thunderstorm Winds (G56)
Cleveland County									
SW Moore	04	1720CST			0	0	?	?	Hail (1.75)
Oklahoma County	~ .	100000			^	^			TT 11 (4 05)
1 SE Jones	04	1725CST			Ŏ	Ŏ	?	?	Hail (1.25)
1 SE Jones	04	1725CST			0	0	3	?	Thunderstorm Winds
Kingfisher County Kingfisher	04	1730CST			0	0	9	?	Thunderstorm Winds (G52)
2 N Okarche	04	1740CST			ŏ	ŏ	?	?	Hail (0.75)
Rogers County	٧.	1710001			•	•	•	•	(0.75)
Chelsea	04	1743CST			0	0	?	?	Thunderstorm Winds (G74)
Mayes County							_	_	
Salina	04	1756CST		'	0	0	?	?	Hail (0.75)
Oklahoma County	^4	1750.00m			^	^	0	0	**************************************
NE Oklahoma City	04	1759CST			0	0	?	?	Thunderstorm Winds
Kingfisher County	04	1800CST			0	0	?	?	Hail (0.75)
Hennessey Garfield County	V	1000031			U	U	ı		Hall (0.73)
3 SW Garber	04	1800CST			0	0	?	?	Hail (1.00)
Rogers County	٠.	1000001			•	•	•	•	
Chelsea	04	1800CST			0	0	?	?	Thunderstorm Winds (G56)
Craig County							_	_	· · ·
1 N Big Cábin	04	1800CST			0	0	?	?	Thunderstorm Winds (G52)
Choctaw County	Λ4	1010/007			^	Λ	9	9	H-H (1.06)
6 N Hugo	04	1810CST			0	0	?	?	Hail (1.25)
Osage County 3 N Barnsdall	04	1820CST			0	0	?	?	Hail (0.75)
Mayes County	UŦ	1020001			U	U	•	•	Hair (0.73)
Spavinaw	04	1823CST			0	0	?	?	Hail (0.75)
Payne County	•				•	•			
3 SE Glencoe	04	1825CST			0	0	?	?	Hail (0.75)
Tillman County		100/000			•	^	•	•	TT 11 (0.50
Frederick	04	1826CST			0	0	?	?	Hail (0.75)
Washington County	04	1020CCT			0	0	?	?	U.: 1 (A 75)
Ochelata Delaware County	04	1830CST			U	U	٤	٤	Hail (0.75)
6 NW Jay	04	1840CST			0	0	?	9	Hail (1.75)
4 N Jay	ŏ4	1845CST			ŏ	ŏ	ż	ż	Hail (1.75)
5 E Grove	04	1910CST			Ŏ	Õ	????	? ? ?	Hail (0.75)
8 E Jay	04	1915CST			0	0	?	?	Hail (1.75)
Osage County		4040000			_		_		
3 N Barnsdall	04	1940CST			0	0	?	?	Hail (0.75)
Delaware County	Ω4	2045/CCT			Λ	Λ	?	9	Heil (1.75)
4 N Jay Mayes County	04	2045CST			0	0	:	?	Hail (1.75)
9 S Pryor	04	2045CST			0	0	?	?	Hail (0.75)
- 5 11,01	٠.	_0.0001			-	~	•	•	(0.10)

Severe thunderstorms developed across the central and northeastern portions of the state. One tornado at F0 intensity touched down briefly near Elmore City with no reported damage. Thunderstorm winds ripped the roof off a front porch near Jones, and trees were reported down

MAY 1991

		TIME			NO. PERS	OF SONS	ESTIN DAMA	ATED GE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	om∞C-z⊷	<b>→</b>	COCO	CHARACTER OF STORM

### OKLAHOMA Cont'd

in northeastern Oklahoma City. Near Big Cabin, trees and power poles were damaged by strong winds. Golf ball-size hail was reported in the southwestern portion of Moore, south of Bray, and near Jay in Delaware County. Severe thunderstorm winds uprooted trees and did extensive damage to a large barn and roof damage to a house 5 miles east of Welty. Strong winds downed trees near Chelsea and in extreme eastern Tulsa County.

	tree	s near Chelsea	and in ex	treme e	asterr	Tulsa	Coun	ty.	ast of worth. Briong winds downed			
Creek County Bristow	05	1615CST			0	0	?	?	Lightning			
	Lig	htning struck	an oil tank	battery	and	set it o	on fire	. No	damage estimate was available.			
Caddo County Countywide Lookeba 2 E Lookeba	07 07 07	1420CST 1430CST 1510CST			0 0 0	0 0 0	?	?	Hail (1.00) Hail (0.75) Hail (1.00)			
Canadian County  1 W Scott Scott Scott Caddo County	07 07 07	1515CST 1530CST 1530CST			0 0 0	0 0 0	?	???	Hail (0.75) Hail (2.00) Thunderstorm Winds (G58)			
9 E Binger Grady County	07	1600CST			0	0	?	?	Thunderstorm Winds (G52)			
Minco Oklahoma County	07	1615CST			0	0	?	?	Hail (0.75)			
7 NW Oklahoma City	07	1742CST			0	0	?	?	Hail (0.75)			
Edmond Kingfisher County	07	1900CST			0	0	?	?	Hail (0.75)			
3 NE Okarche	07	1900CST			0	0	?	?	Lightning			
	larg to 8 disp eigh	Thunderstorms developed across the central portions of the state producing several reports of large hail. Near Scott, hail up to 2.00 inches in diameter was reported, covering the ground 6 to 8 inches in places. Near Okarche lightning struck a crude oil storage tank at a salt water disposal plant. The tank caught fire and exploded, with the fire spreading to a mobile home with eight residents. All escaped the mobile home except one, a 3-year-old girl, who died in the resulting fire. One man was critically injured, six others had minor injuries.										
Cimarron County Felt	10	1730CST			0	0	?	?	Hail (0.88)			
Texas County 1 E Hooker	10	2119CST			0	0	?	?	Hail (0.75)			
	Thu	inderstorms in	the Oklah	ioma Pa	nhanc	lle pro	duced	isolate	ed large hail.			
Cimarron County 12 NW Boise City 12 NW Boise City	11 11	1902CST 1902CST-			0	0	?	?	Hail (1.75)			
-	,	1915CST	0.5	70	0	0	?	?	Tornado (F0)			
	nort	th of the Cimai	rron River	.Even⊣	though	h the to	ornado	was o	t of Oklahoma Highway 3 and just n the ground for 13 minutes, it only was also reported with this storm.			
Jackson County 3 W Elmer 5 NW Elmer	12 12	0200CST 0420CST			0	0	?	?	Hail (0.75) Hail (0.75)			
	Mo	rning thunders	storms in s	outhwe	stern	Oklaho	oma pr	oduce	d isolated large hail.			

		TIME			NO.	OF SONS	ESTIN DAM/	MATED GE	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	F	OHOGO CAN		COCO	CHARACTER STÖRM

OKLAHOMA Co	nt'd	i							
Oklahoma, Cleveland, and McClain Counties	12	1335CST- 1500CST			0	0	?		High Winds
weciam country	thu	nderstorm co	mplex, du lahoma Cit	ring the ty, meas	mor ured	ning 55-kno	hours ot win	, prod ids at l	ced isolated large hail. A dying uced estimated 48-knot winds in Norman, and the Doppler radar at ore.
Nowata County 5 NE Wann	13	0820CST			0	0	?	?	Hail (0.88)
	An	isolated sever	e thunders	torm pro	duce	d nick	el-size	hail.	
1 W Nowata	14	0645CST			0	0	?	?	Hail (0.75)
	An	isolated sever	e thunders	torm pro	oduceo	d dime	e-size	hail ne	ar Nowata.
Creek County Sapulpa Kiefer	14 14	1408CST 1605CST			0	0	3 ?	?	Lightning Hail (1.00)
Cherokee County 0.5 S Cookson	14	1755CST			0	0	?	?	Hail (0.75)
	hail	inderstorms de was reported inderstorm stru	l at Kiefer	r, and d	ime-s	ize ha	ul at	Cookso	during the afternoon. Quarter-size on. In Sapulpa, lightning from a damage.
Roger Mills County Reydon	15	1910CST			0	0	?	?	Hail (0.75)
Harper County Laverne	15	1910CST			0	0	?	?	Hail (0.75)
Roger Mills County Reydon Harper County	15	1929CST			0	0	?	?	Hail (1.75)
6 SW Laverne 4 ENE Laverne	15	1935CST- 2011CST	11.5	200- 900	0	3	5	?	Tornado (F3)
3 SW Laverne 4 E Laverne Roger Mills County	15 15	1945CST 2010CST	11.0	700	Ŏ	0	5 ? ?	? ?	Hail (4.00) Hail (2.75)
5 E Roll	15	2125CST			0	0	?	?	Hail (1.00)
Beckham County 1 SE Sayre	15	2030CST	0.3	50	0	0	?	?	Tornado (F0)
Ellis County 17 S Harmon 8 S Harmon	15 15	2130CST 2200CST			0	0	?	?	Hail (0.75) Hail (0.75)
Dewey County Camargo 4 S Cestos	15 15	2206CST 2223CST	0.3	30	0	0	?	?	Hail (0.75) Tornado (F0)
Beckham County 1 SE Sayre	15	2230CST	0.5	50	0	0	?	?	Tornado (F0)
Woods County 10 W Aline	15	2301CST			0	0	?	?	Thunderstorm Winds
Major County 10 E Chester Fairview	15 15	2316CST 2330CST	0.3	30	0	0	?	?	Tornado (F0) Hail (0.88)
Blaine County Longdale 2 W Canton Longdale	16 16 16	0001CST 0110CST 0220CST			0 0 0	0 0 0	?	???	Hail (1.00) Hail (1.00) Hail (1.00)

MAY 1991

		TIME			NO. PER:	OF SONS	EST IN	MATED AGE	
PLACE	DAG-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLE	Om≫CL≥⊢	<b>4-хотоохо</b>	CECOEN	CHARACTER OF STORM

### OKLAHOMA Cont'd

Osage County							
3 E Burbank	16	0425CST	0	0	?	?	Hail (0.75)
Okesa	16	0510CST	Ō	Ō	?	?	Hail (0.75) Hail (0.75)
Washington County							, ,
1 W Dewey	.16	0530CST	0	0	?	?	Hail (0.75)
Wagoner County 4 NW Coweta							, ,
4 NW Coweta	16	0800CST	0	0	?	?	Hail (1.00) Hail (0.75)
Lake Crest	16	0900CST	0	0	?	?	Hail (0.75)
Mayes County 8 SSE Locust							
8 SSE Locust	16	0913CST	0	0	?	?	Hail (1.75)
Grove							, ,
Cherokee County							
Peggs	16	0915CST	0	0	?	?	Hail (1.75)
							• •

Several areas of severe thunderstorms developed across western and northwestern Oklahoma during the evening hours and spread into northeastern Oklahoma during the early morning. Five tornadoes were reported from these severe thunderstorms, as well as reports of damaging winds, and a large number of reports of hail, some as large as softballs.

The first tornado (F3) was the strongest of the evening and had a path that was 11.5 miles long. The tornado touched down in Harper County at 1935 CST, 1.5 miles east of the Beaver County line and 0.5 miles north of Oklahoma Highway 270. During the first 4 miles of its path, the tornado had a width of 200 to 300 yards and was F0 to F1 intensity. The tornado grew in strength and intensity as it moved northeast for the next 4 miles and produced F2 to F3 intensity damage as it widened to 800 to 900 yards. Hail up to 4.00 inches in diameter was reported at this time. Also, at this time, three injuries occurred, all requiring hospitalization. The injuries were sustained in a mobile home which was rolled by the tornado. At the same time the injuries were occurring, 0.50- to 1.25-inch hail was being observed at Laverne, 2 miles north-northwest of the tornado. During the last 3.5 miles of its path, the tornado shrunk to 100 yards in width, but hail up to baseball size was still being observed. The tornado lifted at 2011 CST 4.5 miles east and 0.75 miles north of Laverne. A five-room house suffered significant damage. One mobile home was destroyed, and also six outbuildings were destroyed. Significant utility damage was reported as 30 power poles were downed. Total damage is estimated at \$500,000.

The second tornado touched down at 2223 CST, 4 miles south of Cestos; the third tornado touched down at 2230 CST, 1 mile southeast of Sayre; and the fourth tornado occurred at 2316 CST, 10 miles east of Chester; and the fifth tornado occurred at 2230 CST, 1 mile east southeast of Sayre. The last four tornadoes had brief touchdowns and no reported damage.

In addition, severe thunderstorm winds downed trees 10 miles west of Aline in Woods County.

Okmulgee County 3.5 WNW to									
3.5 WNW to	16	1709CST-			•	•	_	•	m 1 (T4)
6 N Beggs		1725CST	7.0	60	0	0	5	?	Tomado (F1)
Tulsa County 3 E Kiefer	1.0	1718CST	Λ2	30	0	Δ	?	?	Tomada (E0)
Okmulasa County	16	1/10031	0.3	30	U	0		:	Tornado (F0)
Okmulgee County 1 S Mounds	16	1720CST	0.5	50	0	0	4	?	Tornado (F1)
Tulsa County	10	1720001	0.5	30	U	Ū	. •	•	101111100 (1 1)
S Tulsa	16	1724CST			0	0	?	?	Hail (0.88)
SW Tulsa	16	1740CST			0	0	?	?	Hail (1.75)
S Tulsa	16	1746CST			Ō	Q	?	?	Hail (1.00)
S Tulsa	.16	1810CST			0	0	?	?	Hail (0.88)
Wagoner County	10	1000,000			^	^	0	0	TT '1 (0 (75)
8 N Oneta	16	1820CST			. 0	0	?	?	Hail (0.75)
Tulsa County S Tulsa	16	1822CST			0	0	?	?	Hail (1.75)
Rogers County	10	1022631			U	U	• .	•	Han (1.73)
5 E Catoosa	16	1830CST			0	0	?	?	Hail (0.75)
					_	•		-	= = ()

MAY 1991

		TIME			NO. PERS	OF SONS	ESTIN DAM/	ATED	
PLACE	P	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLMO	סשמספריביי	<del> </del>	CCCOPS	CHARACTER STORM

### OKLAHOMA Cont'd

S Tulsa       16 1850CST       0 0 ? ? ! Hail (1.00)         SE Tulsa       16 1855CST       0 0 ? ? ! Hail (1.75)         S Tulsa       16 1856CST       0 0 ? ? Hail (1.75)         SE Tulsa       16 1901CST       0 0 ? ? Hail (1.00)         SE Tulsa       16 1903CST       0 0 ? ? Hail (1.75)         Catoosa       16 1908CST       0 0 ? ? Hail (1.00)         SE Tulsa       16 1908CST       0 0 ? ? Tornado (F0)         8 ESE Tulsa       16 1915CST       0 0 ? ? Hail (1.00)	
SE Tulsa       16 1855CST       0 0 ? ? Hail (1.75)         S Tulsa       16 1856CST       0 0 ? ? Hail (1.75)         SE Tulsa       16 1901CST       0 0 ? ? Hail (1.00)         SE Tulsa       16 1903CST       0 0 ? ? Hail (1.75)         Catoosa       16 1908CST       0 0 ? ? Hail (1.75)	
S Tulsa       16 1856CST       0 0 ? ? Hail (1.75)         SE Tulsa       16 1901CST       0 0 ? ? Hail (1.00)         SE Tulsa       16 1903CST       0 0 ? ? Hail (1.75)         Catoosa       16 1908CST       0 0 ? ? Hail (1.00)	
SE Tulsa 16 1901CST 0 0 ? ? Hail (1.00)  SE Tulsa 16 1903CST 0 0 ? ? Hail (1.75)  Catoosa 16 1908CST 0 0 2 ? Hail (1.00)	
SE Tulsa 16 1903CST 0 0 ? ? Hail (1.75)	
Catooca 16 1908CST 0 0 9 9 Hail (1 00)	
Caucisa 10 190001 0 0 ; ; Hall (1.00)	
Catoosa 16 1908CST 0 0 ? ? Hail (1.00) SE Tulsa 16 1908CST 0.3 30 0 0 ? ? Tornado (F0) 8 ESE Tulsa 16 1915CST 0 0 ? ? Hail (1.00)	
Rogers County	
Catoosa       16       1918CST       0       0       ?       ?       Hail (1.75)         Catoosa       16       1919CST       0       0       ?       ?       Hail (1.25)         1       S Catoosa       16       1925CST       0       0       ?       ?       Hail (1.50)	
Catoosa 16 1918CST 0 0 ? ? Hail (1.75) Catoosa 16 1919CST 0 0 ? ? Hail (1.25) 1 S Catoosa 16 1925CST 0 0 ? ? Hail (1.50)	
2 NE Catoosa 16 1936CST-	
1940CST 4.0 100 0 0 5 ? Tornado (F2)  1 N Catoosa 16 1949CST 0 0 ? ? Thunderstorm Wir  Claremore 16 1958CST 0 0 0 ? ? Hail (1.00)  1 S Claremore 16 2025CST 0.3 25 0 0 ? ? Tornado (F0)  4 S Fovil 16 2045CST 0 0 0 ? ? Hail (0.75)	_
1 N Catoosa 16 1949CST 0 0 ? ? Thunderstorm Wir	ads
1 N Catoosa 16 1949CST 0 0 ? ? Thunderstorm Wir Claremore 16 1958CST 0 0 ? ? Hail (1.00) 1 S Claremore 16 2025CST 0.3 25 0 0 ? ? Tornado (F0)	
1 N Catoosa       16 1949CST       0 0 ? ? Thunderstorm Wir         Claremore       16 1958CST       0 0 ? ? Hail (1.00)         1 S Claremore       16 2025CST       0.3 25 0 0 ? ? Tornado (F0)         4 S Fovil       16 2045CST       0 0 ? ? Hail (0.75)	
Mayes County	
5 N Pryor 16 2055CST 0 0 ? ? Hail (0.75) 3 N Adair 16 2140CST 0 0 ? ? Hail (0.75)	
3 N Adair 16 2140CST 0 0 ? ? Hail (0.75)	
Craig County	
10 NE Big Cabin 16 2130CS1	
Delaware County	
3 SW Bernice 16 2203CST 0 0 ? ? Hail (0.88) 3 N Grove 16 2224CST 0 0 ? ? Hail (0.88)	
3 N Grove 16 2224CST 0 0 ? ? Hail (0.88)	
Ottawa County	
8 SE Fairland 16 2235CST 0 0 ? ? Hail (0.88)	

Two isolated severe thunderstorms developed southwest of Tulsa during the late afternoon of May 16th and followed similar paths to the northeast during the late afternoon and evening. These storms produced a total of six tornadoes in northeastern Oklahoma, and large hail also accompanied the storms.

The first tornado (F1) touched down 3.5 miles west northwest of Beggs, at 1709 CST and trailed for 7 miles. The tornado moved north-northeast, hitting power line poles 3 miles north of Beggs, and destroying a barn 4 miles north of Beggs. The tornado continued north-northeast and blew out windows of a two-story house, and hit an oil tank 5 miles north of Beggs before lifting 6 miles north of Beggs.

The second tornado (F0) touched down briefly 3 miles west of Keifer, at 1718 CST; no damage was reported.

The third tornado (F1) was another brief touchdown in Okmulgee County just south of the Creek County border, 1 mile south of Mounds, at 1720 CST. This tornado destroyed a barn, killed two cows, and knocked down trees and power lines.

The fourth tornado (F0) touched down briefly in southeastern Tulsa near the intersection of 51st Street and the Broken Arrow Expressway (Highway 51); no damage was reported.

The fifth tornado (F2) was the most destructive of the day. It touched down at the Port of Catoosa which is 2 miles northeast of the city of Catoosa, at 1936 CST. The tornado moved northeast destroying a house, a mobile home, and a recreational vehicle repair shop along Highway 66 just south of the Verdigris River 4 miles northeast of Catoosa. The tornado lifted just east of the river, at 1946 CST. The tornado traveled 4 miles, did \$130,000 damage (mostly to the recreational vehicle shop).

The sixth tornado (F0) touched down briefly near the Will Rogers Turnpike (Interstate 44) just south of Claremore at 2025 CST; no damage was reported.

MAY 1991

		TIME			NO.	OF SONS	EST IN	ATED GE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KITTED	חשאכריב.	~~~~	COCODA	CHARACTER OF STORM

OKLAHOMA Co	nt'd	l.							
Payne County Stillwater	20	0300CST- 0800CST			0	0	?	?	Flash Flood
		nfall in excess in Stillwater.		inches, ir	5 ho	urs, c	aused f	looded	l roads, and resulted in some stalled
Tulsa County Western Portion	20	1800CST			0	0	3	?	Flash Flood
	20tl wer ban	<ol> <li>and produc</li> </ol>	ed over i h water i T. Some	3.00 inch up to 18 i e homes r	es of nches eceive	rain, deep ed mir	betwee across or dar	en 163	of the late afternoon of May 0 and 1830 CST. Many roadways roads. Cherry Creek overflowed its ue to the high water. Cherry Creek
Sequoyah County Gore		2255CST	oho	advasad st	0	0	?	?	Thunderstorm Winds (G51)
· ',	A s	evere thunders	storm pro	oduced st	rong '	winds	at Go	re.	
Woodward County 20 N Mooreland Harper County	23	1350CST			0	0	?	?	Hail (0.75)
7 NNE Buffalo	23	1420CST			0	0	?	?	Hail (0.75)
Woodward County 15 NE Mooreland 6 N Mooreland	23 23	1425CST 1525CST			0	0	?	?	Hail (0.75) Hail (0.75)
Woods County 5 E Waynoka	23	1600CST			0	0	?	?	Hail (0.75)
Woodward County Mooreland	23	1720CST			0	0	4	?	Lightning
Texas County 1 S Elkhart, KS	23	1720CST	0.1	70	0	0	?	5	Tornado (F0)
Dewey County 5 NW Putnam	23	2020CST			0	0	?	?	Hail (0.75)
Roger Mills County 1 S Dempsey	23	2050CST			0	0	?	?	Hail (0.75)
Greer County 5 SE Mangum	23	2050CST			0	0	?	?	Thunderstorm Winds (G61)
Washita County Sentinel	23	2145CST		*	0	0	?	· ?	Thunderstorm Winds (G52)
Kiowa County Lone Wolf	23	2147CST		•	0	0	?	?	Thunderstorm Winds (G52)
Caddo County	23	2245CST			0	0	· ?	· ?	Thunderstorm Winds (G52)
Carnegie Comanche County 3 E Cache	23	2250CST			0	0	; ?	: ?	Thunderstorm Winds
Caddo County Ft. Cobb Anadarko	23	2315CST 2340CST			0	0	?	; ? ?	Thunderstorm Winds (G52) Thunderstorm Winds (G52)

Severe thunderstorms developed across portions of western Oklahoma and the Oklahoma Panhandle. A tornado (F0) touched down briefly in Texas County, just south of Elkhart, Kansas. This tornado produced no reports of property damage, but a National Weather Service cooperative observer reported that corn fields were stripped. East of Cache, in Comanche County, severe thunderstorm winds downed trees.

Marshall County 5 N Little City 24 1545CST Thunderstorm Winds (G59)

MAY 1991

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILUUMO	OMOCCEN	4-12m0020	റയാസ	CHARACTER OF STORM

## OKLAHOMA Cont'd

Kingston	24	1545CST	0	0	?	?	Thunderstorm Winds (G61)
Bryan County				_	_	_	
Colbert	24	1615CST	Ŏ	Õ	????	?	Thunderstorm Winds (G52)
Colbert	24	1618CST	Ŏ	Ŏ	?	· X	Thunderstorm Winds
Roberta	24	1630CST	Ŏ	Ŏ	?	?	Thunderstorm Winds
Kemp	24	1630CST	Ō	Ŏ	?	?	Thunderstorm Winds (G52)
Marshall County		1.000.000	^	^			777 I . XX7' I
Kingston	24	1630CST	0	0	?	?	Thunderstorm Winds
Harmon County		1455.000	^	^	0	0	77 1 (0(1)
1 W Hollis	24	1655CST	Ŏ	0	?	?	Thunderstorm Winds (G61)
Countywide	24	1655CST	0	0	?	?	Hail (0.75)
Jackson County	~.	1700 COT	^	^	0	0	77 1 4 377 1 4751)
Altus Air Force	24	1720CST	0	0	?	?	Thunderstorm Winds (G51)
Base (LTS)							
Harmon County	~4	100 4000		_	0		Tr '1 (0 00)
Gould	24	1734CST	0	0	?	?	Hail (0.75)
Choctaw County		1516000	^		0	0	THE 1 . THE 1 (050)
1 NNE Hugo	24	1746CST	0	0	?	?	Thunderstorm Winds (G50)
Greer County	- 4	1754 COM	^	^	0	0	m 1 . mr 1 (000)
6 N Duke	24	1756CST	0	0	?	?	Thunderstorm Winds (G52)
Jackson County	~4	1959.000	^	•	•		II '1 (0 75)
Duke	24	1757CST	0	0	?	?	Hail (0.75)
Harper County	~4	1010000	^	^	0		II '1 (0.00)
Rosston	24	1810CST	0	0	?	?	Hail (0.75)
Jackson County	24	1015007	Λ	^	9	9	11-3 (1.05)
Blair	24	1815CST	0	0	?	?	Hail (1.25)
Altus Air Force	24	1820CST	0	U	ſ		Thunderstórm Winds (G52)
Base							
Kiowa County	24	1920000	۸	^	9	9	Thursday W. 1. (055)
2 N Mt. Park	24	1830CST	0	0	?	?	Thunderstorm Winds (G55)
Choctaw County	24	10 <i>450</i> 0T	Λ	Λ	9	9	II-:1 (A 99)
4 S Hugo	24	1845CST	0	0	?	?	Hail (0.88)
Kiowa County	24	1012CCT	Λ	^	0	n	TI-3 /1 000
2 SE Cooperton	24	1913CST	0	0	?	?	Hail (1.00)
Tillman County	24	1915CST	Λ	0	?	9	H-H (1 75)
Grandfield	24	1919031	0	U		?	Hail (1.75)
Blaine County	24	1916CST	Λ	Λ	9	?	11-3 (0.75)
1 S Canton	24	1910031	0	0	?		Hail (0.75)
Kiowa County	24	1930CST	^	^	9	9	II-:1 (0.75)
Gotebo	24	1930C31	0	0	?	?	Hail (0.75)
Washita County	24	2010CCT	Λ	Λ	9	9	11-11 (0.75)
2 NE Cowden	24	2010CST	0	0	?	?	Hail (0.75)
Caddo County	24	2025 CCT	Λ	Λ	9	9	II.:1 (1.75)
6 N Carnegie	24	2025CST	0	0	?	?	Hail (1.75)
Comanche County	24	2020/76/1	Λ	Ω	9	9	Ua;1 (A 99)
1 W Lawton	24	2029CST	0	0	?	?	Hail (0.88)
Woods County 8 W Alva	24	2100CST	0	0	3	?	Thunderstorm Winds
O M WIAS	24	2100031	v	U	,	:	THURSE STOLEN WINGS

Severe thunderstorms developed across portions of southern and western Oklahoma. Numerous reports of tree and power line damage were received across Marshall and Bryan County. West of Alva, severe thunderstorm winds tipped over and damaged a bale loader.

Ellis County Fargo Woodward County	26	1630CST	0	0	?	?	Hail (1.25)
Tangier Woods County	26	1650CST	0	0	?	?	Hail (2.75)
Lookout	26	1700CST	0	0	?	?	Hail (0.75)

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAM/	ATED	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K	1 N ) ) ONTIND	4-cam 00:00	רסגטסריט	CHARACTER OF STORM

### OKLAHOMA Cont'd

Woodward County 8 S to 2.5 E to 4.5 E	26 26	1737CST 1735CST	2.0	75	0	0	?	?	Hail (2.75) Tornado (F1)
Woodward 3 E to 12.5 E Woodward 3.5 ESE to 4.5 SE	26 26	1758CST- 1818CST 1759CST	9.5 1.0	800- 1000 50	0	0	5	?	Tomado (F3) Tomado (F1)
Woodward Mooreland Harper Conty	26	1806CST			0	0	?	?	Hail (4.00)
10 SE Selman Garfield County 2 W Hillsdale	<ul><li>26</li><li>26</li></ul>	1810CST 1822CST			0	0	?	? ?	Hail (0.75) Hail (1.00)
Woodward County 3 S Freedom Woods County 1 E Freedom	26 26	1855CST 1900CST			0	0 0	? ?	?	Hail (1.50) Hail (0.75)
Kay County 7 W Tonkawa Major County	26	1955CST	0.01	20	0	0	?	?	Hail (0.75)
3 SE Cleo Springs Woods County Alva Kay County	26 26	2001CST 2010CST	0.01	30	0	0	?	? ?	Tomado (F0) Hail (2.75)
8 SE Tonkawa Alfalfa County Goltry	26 26	2020CST 2030CST			0	0	?	?	Hail (0.88) Hail (0.88)
Garfield County Hillsdale Osage County 10 E Foraker	26 26	2045CST 2220CST			0	0	· ?	? ?	Hail (1.75) Thunderstorm Winds

Thunderstorms developed across northwestern Oklahoma during the late afternoon hours and quickly became severe. During the night, the storms spread to north-central and northeastern Oklahoma. Four tornadoes developed from these storms; three tornadoes in the vicinity of Woodward all developed from the same storm.

The first tornado (F1) developed 2.5 miles east of Woodward and moved east along a 2-mile path causing damage.

The second tornado (F3) was the longest and most destructive, it developed less than 0.5 mile south of the first tornado and moved almost due east along a 9.5-mile path, sometimes in excess of 0.5 mile in width. Even though it moved through mostly farm country, it did cause areas of F3 damage 8 miles east of Woodward along the North Canadian River.

The third tornado (F1) developed about 0.5 mile south of the second tornado and moved southeast along a 1-mile path length doing damage consistent with a F1 tornado. It was described as rope-like in appearance. Total damage from the three tornadoes is estimated at \$80,000, mostly from the second tornado. In total, three mobile homes were destroyed, one had minor damage; six barns or large outbuilding were destroyed, four were damaged; at least five small sheds or outbuildings were destroyed; ten homes damaged (mostly minor); and in addition damage was done to 36 power poles, fences, and trees along the path.

A fourth tornado (F0) made a brief touchdown southeast of Cleo Springs and caused no reported damage. Near Foraker strong winds from a severe thunderstorm blew the roof off a house.

Texas County				_		_	
2 Sw Guymon		1630CST	0	0	?	?	Hail (1.00) Hail (1.75)
Hardesty '	29	1645CST	0	0	?	?	Hail (1.75)

MAY 1991

		TIME			NO.	OF SONS	ESTIN DAMA	ATED GE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K	COTTOS C. Z.		CACOAN	CHARACTER STÖRM

### OKLAHOMA Cont'd

Beaver County 3 SW Gray

1720CST

0 O 7 7 Hail (1.75)

A severe thunderstorm developed over Texas County and moved east into Beaver County, with several reports of large hail.

Roger Mills County 3 E Cheyenne Woodward County 8 SW Woodward

30 1420CST

0 ? 0

Hail (0.75)

1510CST 30

? 0 0

Hail (1.75)

Isolated severe thunderstorms developed during the afternoon hours over northwestern Oklahoma.

### OREGON

**Umitalla County** 10 NE Pendleton

1740PST-1745PST

5.0

70

0

?

Tornado (F0)

In northeastern Oregon, air mass thunderstorms spawned a tornado that was visible from the Pendleton National Weather Service Office. The tornado traveled west-southwest over wheat fields.

0

Lane County Springfield

1400PST-16 1600PST

0

Lightning

Widespread cloud-to-ground lightning associated with a cold, upper- atmosphere low, struck and killed a horse near Woodburn, and started a house fire in Springfield.

Marion County Woodburn Lake County Lakeview

16 1600PST

Lightning

1100PST

Heavy Snow

In Lakeview, late spring storm dumped as much as 15 inches of snow in 12 hours.

Umitalla County Pilot Rock Pendleton Nolin Mission **Union County** Union LaGrande Hilgard Baker County

1200PST-20 1800PST

0 0

1200PST-19 20

1800PST

0

Flood

Flood

1200PST

0 Flood

6

Between 2.00 to 4.00 inches of rain fell in 2 days in this normally dry region of northeastern Oregon. The heaviest amount of rain fell in the mountain canyons and sent large volumes of water down the Umatilla and Grande Ronde river systems. Rivers and creeks rose as much as 3.5 foot above flood stage which swamped the lowland farms and highways. In Umatilla County, at least 14 bridges were lost along with 14 miles of fencing. The water washed away a section of rural highway 35 feet wide by 35 feet long and 20 feet deep. In Union County, 15,000 acres of wheat farms were under water. Baker County sustained damage to 20 irrigation dams dams.

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAM/	ATED AGE	
PLACE	0 8 1 E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	משמכרבי	~-compo	റയാം	CHARACTER OF STORM

PENNSYLVANL	A, I	Eastern									
Clinton County North Bend Lamar	01 01	1605EST 1650EST	0	0	3	0	Thunderstorm Winds Thunderstorm Winds				
	Thu	anderstorm wind gusts downed to	rees a	ınd uti	lity lin	nes in N	lorth Bend, and trees in Lamar.				
Centre County 5 NW Unionville Howard	01 01	1610EST 1622EST	0	0	3 3	0	Thunderstorm Winds Thunderstorm Winds				
	Thu	anderstorm wind gusts downed to	rees.								
Susquehanna County 2 ESE Middletown Center	01	1815EST	0	0	3	0	Thunderstorm Winds				
Control	Thu Lak	anderstorm wind gusts downed to the Townships.	rees a	t Irish	Hill n	ear the	border of Middletown and Forest				
Wayne County Milanville	01	1900EST	0	0	3	0	Thunderstorm Winds				
	Thu	Thunderstorm wind gusts downed trees and utility lines.									
Fulton County McConnellsburg	06	1440EST	0	0	3	0	Thunderstorm Winds				
	Abo	out 12 trees were downed by thu	nders	storm v	wind g	usts be	tween 1430 EST and 1445 EST.				
Huntingdon County 2 SE Three Springs	06	1445EST	0	0	?	? .	Hail (0.75)				
Neffs Mills	06	1605EST	0	0	3	0	Thunderstorm Winds				
	cou	inderstorm wind gusts downed to hty. Dime-size hail fell in the so also was reported around 1520	outhe	rn part	of the	county	nd across the northern part of the near Three Springs. Marble-size				
Centre County State College	06	1450EST	0	0	?	0	Thunderstorm Winds (G52)				
•	A t	hunderstorm wind gust was meas	sured	at 60	mph.						
Franklin County Waynesboro Chambersburg Waynesboro	06 06 06	1502EST 1515EST 1520EST	0	0	0 ? ?	? 0 0	Hail (0.75) Thunderstorm Winds (G57) Thunderstorm Winds (G61)				
	Thu to 7	inderstorm wind gusts, measured 'O mph were reported in Waynes	at 65 boro	mph, along	down	ed trees thumb-	in the Chambersburg area. Gusts size hail.				
Cumberland County Oakville 2 E Allen Shepardstown	06 06 06	1520EST 1545EST 1550EST	0 0 0	0 0 0	? 4 4	0 0 0	Thunderstorm Winds (G52) Thunderstorm Winds Thunderstorm Winds				

Camp Hill 06 1555EST ŏ ŏ ? ŏ Thunderstorm Winds (G57)

Thunderstorm wind gusts were estimated at 55 to 60 mph in the western part of the county center around Oakville. Gusts to 65 mph were reported in Camp Hill. Thunderstorm wind gusts destroyed the top half of a barn near Allen, and tore the roof off a commercial building near Shepardstown.

		TIME		,	NO. PER	OF SONS	EST II	ATED AGE	
PLACE	DA	LOCAL	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	סשמכריביי	- 1200 HZ-Y	CEOPN	CHARACTER OF STORM

PENNSYLVANIA, Eastern Cont'd									
Adams County Gettysburg Littlestown Gettysburg	06 1521EST 06 1530EST 06 1600EST	0 0 0 0 0 0	4 0 4 0 3 0	Thunderstorm Winds (G61) Thunderstorm Winds Thunderstorm Winds					
	In Gettysburg, thunderstorm wind a lines. Later, gusts downed numero gusts destroyed the top half of a ba	ous trees and	d tore the roo	roof off a house and downed utility of off a shed. In Littlestown, wind d barn.					
Clinton County Lock Haven Lock Haven Flemington Dunnstown Lock Haven	06 1525EST 06 1528EST 06 1533EST 06 1547EST 06 1603EST	0 0 0 0 0 0 0 0 0 0	? 0 3 0 3 0 3 0 4 0	Funnel Cloud Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds					
4	In Lock Haven, a funnel cloud was utility lines from 1528 EST to 154 utility lines were downed in Fleming trees and utility lines were downed	46 EST, wit gton, with s	th one tree fa	alling on a house. Tree limbs and					
Dauphin County Harrisburg Harrisburg	06 1555EST 06 1602EST	0 0 0 0	? 0	Thunderstorm Winds (G50) Thunderstorm Winds					
	A thunderstorm wind gust to 58 Harrisburg. In another part of the	mph was n city, a large	neasured at t e tree was br	he Federal Building in downtown oken in half.					
Strinestown York Capital City	06 1600EST 06 1625EST 06 1630EST 06 1631EST 06 1648EST	0 0 0 0 0 0 0 0	5 0 3 0 5 0 4 0 3 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds (G55)					
Airport	Thunderstorm wind gusts downed n barn were damaged near Shrewsbur Hanover. Trees and utility lines destroyed. In York, the roofs were was blown down, and numerous trees as well as the control of the co	e blown off ees were do	three row howed, some	on automobiles. Wind gusts were					
North York	06 1610EST 0.3 50	0 0	3 0	Tornado (F0)					
	A tornado touched down briefly do	wning trees	and tree lim	bs in a cemetery.					
Perry County Landisburg New Bloomfield	06 1615EST 06 1615EST	0 0 0 0	3 0 3 0	Thunderstorm Winds Thunderstorm Winds					
* A	Thunderstorm wind gusts downed r	numerous tre	ees and utilit	y lines.					
Lancaster County Manheim Millersville Ephrata Elizabethtown Mount Joy	06 1620EST 06 1630EST 06 1630EST 06 1635EST 06 1635EST	0 0 0 0 0 0 0 0 0 0	3 0 3 0 3 0 4 0 4 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds					

MAY 1991

		TIME			NO. PER:	OF SONS	ESTIN DAM/	ATED GE	
PLACE	DAD-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KL-wo	OmaC.Z.	~~~~~	CACCAC	CHARACTER OF STORM

#### PENNSYLVANIA, Eastern Cont'd

Thunderstorm wind gusts downed trees and utility lines. One tree fell on an automobile in Elizabethtown, and another fell large tree fell on a church in Mount Joy. Trees and utility lines were downed in other parts of the county. Wind gusts to 62 mph were measured at Millersville University.

Lebanon County
Mt. Gretna
Richland
Lebanon

06 06	1630EST 1630EST		(	0	0	<b>4</b> <b>3</b>	0	Thunderstorm Winds Thunderstorm Winds
06	1630EST	•		Ō	Ŏ	4	Ŏ	Thunderstorm Winds

Thunderstorm wind gusts downed trees, some of which fell on vehicles, and utility lines throughout the county. In Mt. Gretna, trees came down on a house. Trees were downed in Richland. A portion of a house roof was torn loose in Lebanon and trees were downed.

#### Northumberland County Sunbury

06 1630EST 0 0 3 0 Thunderstorm Winds

Thunderstorm wind gusts downed a tree.

#### Lancaster County Bainbridge

06 1640EST 1.0 100 0 3 5 0 Tornado (F2)

A tornado was first sighted over Susquehanna River drawing up water. The tornado came on shore and hit a mobile home park, destroying one mobile home and severely damaging six others. It then uprooted or snapped off dozens of trees, damaged the roofs on numerous homes, lifted the roof off a barn, and demolished a storage building in Bainbridge. After this, it damaged the side and roof on a cafe, and blew the glass out of the sign. It then hit three mobile homes across the highway, completely tearing apart two of them, and heavily damaging the third. Three people in the mobile homes sustained minor injuries. The tornado continued a bit farther east across farmland and damaged a barn before lifting off.

Columbia County
Bloomsburg
Benton 1 E Benton

								•
	1640EST	•		0	0	3	0	Thunderstorm Winds
06	1645EST			0	0	4	0	Thunderstorm Winds
06	1645EST		;	0	0	3	0	Thunderstorm Winds

Thunderstorm wind gusts downed trees in Columbia. In Benton, part of the roof was peeled off a church roof, the roofs of two barns a machine shop were damaged, a corn crib was also damaged, and trees were downed. In Ravens Creek, just east of Benton, a number of trees were damaged or uprooted.

Luzerne County
Cambra
Huntington Mills Yatesville
Yatesville

Thunderstorm wind gusts damaged or uprooted trees from Cambra to Huntington Mills and damaged a dilapidated barn just west of Huntington Mills. Trees and branches were downed at Yatesville.

Schuylkill County
Pine Grove
Tremont
Mechanicsville
Pottsville
Seltzer
Seitzei

06 06 06 06 06	1705EST 1705EST 1720EST 1725EST 1725EST			0 0 0 0	0 0 0 1 0	3 3 4 3	0 0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
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MAY 1991

		TIME			NO. PER	OF SONS	ESTI!	AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLEO	חששט רא ד	4-120m40204	COCODA	CHARACTER OF STORM

## PENNSYLVANIA, Eastern Cont'd

	Thunderstorm wind gusts downed trees and utility lines. In Pottsville, at least one tree came down on a truck, and another fell through the side of a house. A woman in the house received minor injuries from flying debris.									
Berks County 1 SW Wernersville Reading Shillington	06 06 06	1820EST 1825EST 1825EST		0 0 0	0 0 0	3 3 4	0 0 0	Thunderstorm Winds (G80) Thunderstorm Winds Thunderstorm Winds		
	Thu by a	understorm wind gusts a 92-mph wind gust.	downed tr In Shilling	ees agton,	nd util two tr	ity line ees fe	es. Ne Il on a	ar Wernersville trees were uprooted utomobiles.		
Franklin County Waynesboro	13	1330EST		0	0	3	0	Thunderstorm Winds		
	Thu	inderstorm wind gusts	downed t	rees a	and uti	lity lii	nes.			
Adams County 10 E Gettysburg	13	1407EST		0	0	?	?	Hail (1.75)		
	Gol	f ball-size hail was re	ported.							
Union County Weikert West Milton	13 13	1505EST 1515EST		0	0	3 .	0	Thunderstorm Winds Thunderstorm Winds		
•	Thu	nderstorm wind gusts	downed t	rees a	across	the co	unty.			
Northunberland							÷			
County Herndon	13	1510EST		0	0	3	0	Thunderstorm Winds		
	Thu	nderstorm wind gusts	downed to	rees a	and po	wer lii	nes in 1	Herndon.		
Snyder County Selingsgrove	13	1515EST		0	0	3	0	Thunderstorm Winds		
	Thu	nderstorm wind gusts	downed a	bout	14 tree	es betv	ween 1:	515 EST and 1530 EST.		
Schuylkill County 5 E Tremont 10 E Pine Grove	13 13	1610EST 1610EST		0	0	3 ?	0 ?	Thunderstorm Winds Hail (0.75)		
	Thunderstorm wind gusts downed trees and power lines east of Tremont. Dime-size hail was reported east of Pine Grove.									
Berks County Seisholtzville	14	1025EST		0	0	3	0	Thunderstorm Winds		
	Thu	nderstorm wind gusts	uprooted	trees	and br	ought	down	large tree limbs.		
Lycoming County 3 E Williamsport Williamsport Williamsport	29 29 29	1347EST 1349EST 1411EST		0 0 0	0 0 0	3 3 4	0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds		

Thunderstorm wind gusts downed trees and power lines. In Williamsport, two trees fell; one on a house and one on a garage.

MAY 1991

		TIME			NO.	OF SONS	EST IN	AATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	סשמכנ <u>. ב</u> א	~-\@m\0\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CEOPN	CHARACTER OF STORM

#### PENNSYLVANIA, Eastern Cont'd

Clinton County Lock Haven Salona	29 29	1431EST 1431EST		0	0	?	?	Hail (1.0) Hail (1.0)
Mill Hall	<b>2</b> 9	1429EST		Ŏ	Ŏ	3	Ò	Thunderstorm Winds
Beech Creek	29	1454EST		Ŏ	Ŏ	3	Ŏ	Thunderstorm Winds
2 N Dunnstown	<b>29</b>	1455EST	•	Ŏ	Ŏ	3	Ŏ	Thunderstorm Winds
Beach Creek	29	1510EST		0	Ŏ	3	Ō	Thunderstorm Winds
Mill Hall	29	1524EST		0	Ó	3	Ō	Thunderstorm Winds
Flemington	29	1526EST		Õ	Ó	3	Ō	Thunderstorm Winds

Thunderstorm wind gusts downed trees and utility lines. Nickel-size hail was reported in Lock Haven and Salona.

Perry County Green Park 29 1600EST 0 0 3 0 3 SW Landisburg 29 1600EST 0 0 3 0	3 0 Thunderstorm W 3 0 Thunderstorm W	Vinds Vinds
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Thunderstorm wind gusts downed trees and utility lines between 1600 EST and 1630 EST.

Juniata County
McAlisterville 29 1615EST 0 0 3 0 Thunderstorm Winds

Thunderstorm wind gusts downed trees and utility lines between 1615 EST and 1635 EST.

Harrisburg International	29	1650EST	0	0	?	0	Thunderstorm Winds (G50)
Airport (MDT)	A t	hunderstorm wind gust was mea	sured	at 58	mph.		
Lebanon County 1 NE MT. 210N 1 E Fredricksburg Lebanon 2 NW Myerstown Myerstown Richland 2 SW Newmans-	30 30 30 30 30 30 30	1442EST 1442EST 1444EST 1452EST 1459EST 1502EST 1506EST	0 0 0 0 0 0 0	0 0 0 0 0	4 3 3 3 3 3 3 3	0 0 0 0 0	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
town 3 NW Myerstown	30	1523EST	0	0	3	0	Thunderstorm Winds

Thunderstorm wind gusts downed trees and utility lines. Utility poles were downed near Lebanon. Trees fell on vehicles in Jackson township, northwest of Myerstown, and in Richland. A tree fell on a house in Swatara township, east of Jonestown. Lightning struck a utility pole in Cleona and caused it to burn down.

Schuylkill County
Tamaqua
30 1445EST

0 0 5 0 Thunderstorm Winds

Thunderstorm Winds Thunderstorm Winds

Thunderstorm wind gusts brought down many trees and utility lines. The roof, or portions of the roof, were blown off several houses. Some houses, and at least one street light, were damaged by flying debris. Much of the roof was blown off a large commercial building. A number of automobiles were damaged by debris from the roof. Some of the cars were inside the building and some were in the parking lot outside.

Berks County Kempton

Dauphin County

1 E Jonestown

2 S Annville

30 1445EST

1601EST

0 0 3 0 Thunderstorm Winds

Thunderstorm wind gusts downed several large trees and large tree limbs.

		TIME			NO. PER	OF SONS	ESTII DAM/	MATED AGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLMO	חששכר≤⊷	0.000 HB-Y	CROPA	CHARACTER OF STORM

PENNSYLVANI	A, E	Eastern Con	t'd							
Lebanon County 2 S Newmanstown	30	1500EST	**220	20	0	0	3	0	Tornado (F0)	
	The 10 (gras	tornado touc to 20 yards w ss in a field w	ched down vide. Nur vas twisted	very b nerous dand fl	riefly large t attened	at severees well. The	eral lo vere up e torna	ocations prooted ado mo	s along the path, I and snapped or oved from northy	which varied from twisted off. High vest to southeast.
•	To t	the right of tha	ne tornado mage occu	path warred be	as a pa	ath of 1500	dama EST a	ge whi	ch appeared to b 30 EST.	e straight line wind
Berks County Wernersville 2 W Wernersville	30 30	1520EST 1520EST			0	0	3 ?	0 ?	Thunderstorm Hail (1.75)	Winds
	Thu was	inderstorm wi reported at V	nd gusts o Vernersvil	downed lle State	trees a	ind ut tal, w	ility li /hich i	ines ne s west	ar Wernersville. of Wernersville	Golf ball-size hai
Chester County West Chester	30	1625EST			0	0	?	0	Hail (1.00)	
	A th	nunderstorm o	dropped 1	.00-incl	ı hail i	n Wes	st Che	ster.		
1 SE Exton	30	1630EST			0	0	0	0	Hail (0.75)	
	A th	nunderstorm o	dropped 0	.75-incl	n hail s	outhe	ast of	Exton		
Delaware County Lima Media	30 30	1654EST 1706EST			0	0	?	0	Hail (0.75) Hail (0.75)	
	Thu	nderstorms d	ropped 0.	75-inch	hail.					
Lehigh County Netfs	31	1421EST			0	0	3	0	Thunderstorm	Winds
		nderstorm wi	nd gusts c	lowned	trees a	nd uti	ility li	nes in	the northeastern	part of the county.
Northhampton Count Northampton	y 31	1421EST			0	0	3	0	Thunderstorm	Winds
•	Thu	nderstorm wi	nd gusts d	lowned	trees a	nd uti	ility li	nes in	the western part	of the county.
PENNSYLVANL	4, V	Vestern								
Lawrence County 2 SE New Castle	01	1347EST			0	0	0	0	Thunderstorm	Winds
	A fi	g tree was do	wned on	Gardnei	r Road	in Sh	enago	Town	ship.	
Washington County 6 NE Washington	01	1350EST			0	0	0	0	Thunderstorm	Winds
	Larg	ge trees were	downed in	n Canor	isburg.					
Beaver County 8 SE Beaver	01	1350EST			0	0	0	0	Thunderstorm	Winds
	Pow	er lines were	downed i	n Harm	iony, N	Aonac	a. and	Brigh	ton.	

MAY 1991

			TIME			NO. PERS	OF SONS	ESTIN DAM/	MATED AGE	
P	LACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	איייייש	חששמרב⊢	~-comoOxa o	COCOEN	CHARACTER OF STORM

### PENNSYLVANIA, Western Cont'd

PENNSYLVANI	A, \	Western Cont'd								
Mercer County 4 E Mercer	01	1352EST	0	0	0	0	Thunderstorm Winds			
	Αr	nedium-size tree was downed on	Rout	te 158,	1 mil	e north	of Interstate 80.			
Allegheny County 6 N Pit 9 S Pittsburgh	01	1400EST	0	0	0	0	Thunderstorm Winds			
) o masaign	Lar tree in (	ge trees were downed in Sewick es blocked roads in South Park. T Oakland, Haxelwood, Squirrel H	ley H rees ill, a	leights were d nd Noi	, and g owned th Hil	gusts to in Gre ls.	60 mph were reported. Downed entree. There were power outages			
Butler County 4 NE Butler	01	1415EST	0	0	0	?	Thunderstorm Winds			
	Six	ty-mph gusts were reported near	Butle	er.						
16 NW Butler	01	1420EST	0	0	0	0	Thunderstorm Winds			
	Gus	sts were reported to 60 mph at S	lippe	ry Roc	k.					
Venago County 7 E Franklin	01	1430EST	0	0	2	0	Thunderstorm Winds			
	Damage was reported to the roof of a mobile home in Cranberry Township.									
McKean County Bradford	01	1431EST	0	0	0	0	Thunderstorm Winds			
	A gust to 62 mph was reported at Bradford Flight Service Station.									
Ciarion County 5 NE to 7 SE Clarion	01	1500EST	0	0	2	0	Thunderstorm Winds			
Ciarion	The dov	e roof was blown off a storage should in Crates and Reidsburg.	ied in	Highl	land T	ownshi	p, and trees and power lines were			
Jefferson County 12 SE Brookville	01	1515EST	0	0	0	0	Thunderstorm Winds			
	Tre	es were downed and uprooted in	Reyr	noldsvi	ille.					
Clearfield County Clearfield	01	1540EST	0	0	3	0	Thunderstorm Winds			
	Pov	ver lines and large trees were do	wned	. Part	s of th	e roof	of two buildings were blown off.			
Cambria County Johnston	01	1600EST	0	0	0	0	Thunderstorm Winds			
	Lar	ge trees were downed in Johnsto	wn.				,			
Clearfield County 18 NE Clearfield	01	1605EST	0	0	0	0	Thunderstorm Winds			
	Lar	ge trees and power lines were do	wnec	l in Ka	rthaus	i.				
Blair County 11 S Hollidaysburg	01	1620EST	0	0	0	, O	Thunderstorm Winds			

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLEO	חששכרביי	<u> Р.ЖОР.ШЖТ-</u> У	CROPN	CHARACTER OF STORM

	<u> </u>				<u> </u>		<del>-</del>		
PENNSYLVANL	A, \	Western C	Cont'd			•			
	Gu	sts to 60 m	ph, were r	eported at	Clays	burg.			
Somerset County 17 SE Somerset	01	1630EST			0	0	0	0	Thunderstorm Winds
	Lar	ge trees we	re downed	l in Fairho	pe.				
Bedford County Bedford 20 W Bedford	01	1630EST			0	0	0	0	Thunderstorm Winds
	Pov	ver lines w	ere downe	d in Hyndi	nan a	nd Be	dford.		
Washington County	06	1220EST			0	0	0	0	Thunderstorm Winds
	Tre	es, road sig	gns, and po	ower lines	were	down	ed in	Canons	sburg.
Green County Waynesburg	06	1230EST			0	0	0	0	Thunderstorm Winds
	In '	Waynesburg	, large tre	es were do	wned			•	
Washington County 13 SE Washington	06	1238EST			0	0	0	0	Thunderstorm Winds
	Gus	sts to 58 m	sh were re	ported at M	Mariai	nna.			
Washington	06	1300EST			0	0	0	0	Thunderstorm Winds
	Lar	ge trees and	l power li	nes were d	owne	d in V	√ashin	gton.	
Allegheny County 6 S Pittsburgh 10 NE Pittsburgh	06	1301EST			0	0	4	0	Thunderstorm Winds
13 E Pittsburgh	aba a m	tree fell on ndoned hou nasonic hall oss the Park	se in Wilk roof was	insburg co partly pee	n Lib llapse led o	rary; d; free ff in	large es wer Monre	trees e down peville	were downed in Mt. Lebanon; an ned in Harmarville and Fox Chapel; and telephone lines were downed
Armstrong County 15 S Kittanning	06	1309EST			0	0	0	0	Funnel Cloud
	A f	unnel cloud	was sight	ted at Apol	lo.				
Westmoreland County 3 N Greensburg	y 06	1309EST			0	0	0	0	Funnel Cloud
	At :	Beaver Run	Dam, a f	unnel cloud	d was	sight	ed nor	th of I	Route 22 heading northeast.
Westmoreland County 22 W Greensburg	y 06	1310EST			0	1	0	0	Thunderstorm Winds
	A tı	ree fell on a	man in the	ecemetery	in An	nold, a	and la	rge tree	es were downed in New Kensington.
Cambria County Johnstown	06	1310EST			0	0	0	0	Thunderstorm Winds
	Lar	ge trees and	l power lir	nes were d	ownec	l in Jo	hnsto	wn.	
Allegheny County 7 E Pittsburgh	06	1315EST			0	0	0	0	Thunderstorm Winds

MAY 1991

		TIME			NO. PERS	OF SONS	EST IN	ATED GE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	אַרירשט	<b>⊸≈</b> ¬⊃∞шо	√√⇔m¤⊖≫⊅	CECOEN	CHARACTER OF STORM

PENNSYLVANIA, Western Cont'd In Braddock Hills, large trees and power lines were downed. Armstrong County 13 SW Kittanning 0 0 0 Thunderstorm Winds 06 1318EST Near Schenley, 114 trees and 71 power lines were downed. Somerset County 0 Somerset 06 1330EST 0 Thunderstorm Winds Gusts to 66 mph were reported at Somerset. 9 NW Somerset 13 S Somerset 06 1338EST 0 0 Thunderstorm Winds 16 N Somerset Large trees and power lines were downed at Bakersville and Rockwood. In Meyersdale, large trees and power lines were downed, and a chimney fell onto an addition of a house and through the roof. Trees were downed in the Ideal Park section of Conemaugh Township. Indiana County 11 N Indiana 06 1343EST Funnel Cloud A funnel cloud was sighted over Plumville. Somerset County 10 N Somerset Thunderstorm Winds 06 1345EST Gusts to 70 mph were reported 2 miles south of Boswell. Indiana County 06 1348EST 0 Thunderstorm Winds Indiana 3 SE Indiana 3 E Indiana 15 SW Indiana Large trees and power lines were downed in Indiana, Boro, and Brush Valley Townships. Gusts to 87 mph were reported at Jimmy Stewart Airport. Trees were uprooted in Blairsville. Poles were snapped and large trees were downed in Rochester Mills, and a tree fell into a church east 17 NE Indiana of Mahoning township. Westmoreland County 14 NW Greensburg 06 1348EST Thunderstorm Winds In Murrysville, 20 to 30 trees were uprooted; some cut off halfway up. All debris was lying in the same direction. A shed and a car were also damaged. A Washington township house was destroyed by fire that was started by downed power lines. 22 NW Greensburg 06 1348EST Thunderstorm Winds Trees and power lines were downed in New Kensington Jefferson County 0 0 16 SE Brookville 06 1412EST Thunderstorm Winds Large trees and power lines were downed in Punxsutawney blocking roads. Clearfield County 0 Clearfield 06 1415EST 0 3 Thunderstorm Winds

Gusts to 60 mph were reported at Clearfield. Large trees were downed; some fell on cars and some blocked roads. A garage roof collapsed, and a man was injured when his leg was cut. Trees, utility poles, and signs were downed in the Blain City section of Beccaria, near Coalport.

18 S Clearfield

		TIME			NO. PEŔ	OF SONS	EST 17	NATED NGE	
PLACE	D E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Kilimo	OM WCC.Z.	T-KOD-MKH-≻	OEOEN	CHARACTER STORM

	<u> </u>		<u></u>			D	Ý		
PENNSYLVANI	Ά, \	Western C	Cont'd						·
	A	chimney col	llapsed spi	lling brick	s onto	a cai	r <b>.</b>		
Bedford County 11 S Bedford	06	1417EST			0	0	0	0	Thunderstorm Winds
	Laı	rge trees we	ere downed	d south of	Bedfo	ord.			
15 N Bedford	06	1419EST			0	0	0	0	Thunderstorm Winds
	La	rge trees an	d power li	nes were d	owne	d by g	gusts t	o 75 n	nph, 2 miles north of Woodbury.
Clearfield County Clearfield 15 SW Clearfield	06.	1426EST			0	0	0	0	Thunderstorm Winds
13 5W Clearnest	Laı	len Hope, and Mahaffey.							
Cambria County Ebensburg	06	1430EST			0	0	3	0	Thunderstorm Winds
	Αt	tree fell thro	ough an ap	oartment ro	of.				
Bedford County 11 S Bedford	06	1434EST			0	0	0	0	Thunderstorm Winds
	Ma	ny large tre	es and po	wer lines v	vere o	lowne	d sout	h of B	edford.
Blair County 15 SE Altoona Altoona	06	1440EST			0	0	3	0	Thunderstorm Winds
12 S Altoona	fell	ny large tre on a bus. ar in Royer	A mobile l	owned in M nome was t	artin: ipped	sburg, over	Clays and de	sburg, stroye	Altoona, and Freedom. Power lines d in Martinsburg, and a tree fell into
Bedford County Bedford 7 N Bedford	06	1440EST			0	0	4	0	Thunderstorm Winds
10 E Bedford 12 N Bedford	col	rge trees and lapsed in Ev tly torn off	verett; half	f a roof was	owned s torn	l at Be off a	edford house:	, Evere ; a tree	ett, and Reynoldsville. A wood silc fell onto a car; and a barn roof was
Cambria County 7 SE Ebensburg 3 SW Johnstown	06	1444EST			0	0	3	0 .	Thunderstorm Winds
J VII JOHNSOWII	Tre dan	es were do naged; trees	wned in is were dov	Portage. vned, and a	The roof	roof of was	of a c torn o	are fac ff a ga	cilty in upper Yoder township was s station.
Blair County Altoona	13	1714EST			0	0	0	0	Thunderstorm Winds
	Wi	nd gusts to	63 mph w	ere reporte	ed at.	Altoor	na Flig	ght Ser	vice Station.
Crawford County 12 NE Meadville	24	1450EST			0	0	0	0	Thunderstorm Winds
	Nu	merous tree	s and tree	limbs were	e dow	ned n	orthw	est of	Cambridge Springs.
Erie County	24	1515EST			0	0	0	0	Thunderstorm Winds

MAY 1991

			TIME			NO. PER:	OF SONS	EST II	MATED AGE	
. ]	PLACE	DAD-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	ששנים	סשמכריבי	4-12m30220	השטבוט	CHARACTER OF STORM

PENNSYLVANIA	4, V	Vestern Cont'd											
	Nun	nerous trees and tree limbs, and	powe	er line	s were	snap	ped off or downed in Waterford.						
26 SE Erie	25	1625EST	0	0	0	0	Hail (1.75) Thunderstorm Winds						
	At (	Corry, strong wind and 0.75-inc	h hai	l was	report	ed.							
Warren County 9 W Warren	25	1700EST	0	0	0	0	Hail (1.75)						
• .	At Youngsville, 1.75-inch hail was reported.												
Armstrong County Kittanning	30	1235EST	0	0	0	0	Thunderstorm Winds						
	Trees were downed in Kittanning.												
Indiana County 14 S Indiana 12 SE Indiana	30	1330EST	0	0	0	0	Thunderstorm Winds						
12 NE Indiana	Trees were downed in Blairsville, Blacklick, and Marion Center.												
Westmoreland County 23 NE Greensburg	y 30	1330EST	0	0	0	0	Thunderstorm Winds						
	Tree	es were downed in Bolivar.											
Cambria County Johnstown	30	1330EST	0	0	0	0	Thunderstorm Winds						
	A large oak tree was downed in the Hornerstown section of Johnstown.												
RHODE ISLAND	)												
Providence County N Smithfield	31	1540EST	0	1	0	0	Lightning						
٠	Lightning struck either a 13-year-old girl, or the dog she was walking. The dog was killed instantly and the girl suffered burns to her arm when the current traveled through the meta leash. She was treated at a local hospital and released.												
SOUTH CAROLI	NA												
Aiken County Warrenville Clearwater	05	PM	0	0	5	0	Thunderstorm Winds						
Cical water	Thu	nderstorm winds snapped power	poles	s in ha	alf and	whipp	ped lines away from their moorings						
Lexington County Cayce and Vicinity	05	1945EST- 2035EST	0	0	?	?	Flash Flood						
Richland County Columbia Area	05	1945EST- 2035EST	0	0	?	0	Flash Flood						

A thunderstorm caused flash flooding in the Columbia metropolitan area. In Columbia, a warehouse roof failed, causing \$350,000 in damage to the inventory and structure. In Lexington County, one earthen dam failed. In southern Richland County, 50 roads were washed out, but only 10 were impassable.

MAY 1991

		TIME			NO. PER:	OF SONS	EST IN	MATED NGE	
PLACE	DA) E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-M	Omac & I	<b>√—ЮПООЭО</b>	CECOLO	CHARACTER OF STORM

#### SOUTH CAROLINA Cont'd

Abbeville County 5 E Abbeville	05	1620EST	0	0	0	0	Thunderstorm Winds Lightning
Greenwood County 3 N Greenwood	05	1645EST	0	0	4	?	Thunderstorm Winds Lightning
Laurens County Cross Hill	05	1708EST	0	0	1	0	Thunderstorm Winds Hail (0.75)
Abbeville County Eastern Portion Newberry County	05 05	1715EST 1800EST	0	0	?	?	Flash Flood Thunderstorm Winds

A severe thunderstorm developed east of Abbeville and moved across the lower part of the Piedmont. In eastern Abbeville County, a few trees were blown down and extremely heavy rain fell, causing flooding of small streams. Some roads were still closed the next morning. Lightning caused damage to power lines, telephone lines, and several homes and businesses. North of Greenwood, trees and power lines were blown down. A large tree fell on an automobile, destroying it. The storm continued across southern Laurens County and produced large hail, and caused similar types of wind damage near Cross Hill. In Newberry County, some trees were downed in a rural area.

Sumter County Dalzell

05 2035EST

1

Thunderstorm Winds

Thunderstorm winds flipped over a mobile home, killing one occupant, and injuring another. (F57M)

Calhoun County Northwestern Portion

05 2100EST-2230EST

U

0 4 0 Flash Flood

0

A stream washed away a portion of a secondary road during a flash flood.

Clarendon County Turbeville

05 2230EST

0.3

70

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Tornado (F0)

A tornado touched down briefly and tossed a 30-foot trailer onto a house. No one was injured.

?

Georgetown County Andrews

06 1815EST

0 0

Thunderstorm Winds

Georgetown County Emergency Preparedness Office reported high winds in the town of Andrews. Several trees were blown down, and marble-size hail was reported. Marble-size hail was also reported in Pleasant Hill.

Charleston County N Charleston Charleston Air Force Base Ladson

16 16	1230EST 1230EST	0	0 2	? 0	0	Lightning Lightning
16	1230EST	0	Ω	9	0	Urban Floor

Stationary thunderstorms dumped nearly 5.00 inches of rain in the Ladson-Oakbrook area, forcing police to close parts of Trolley and Ladson Roads. These same thunderstorms were responsible for two lightning incidents in addition to the urban flooding. In one incident, two aircraft mechanics were momentarily stunned when lightning struck near an aircraft they were working on. They were not seriously injured. In a separate incident, lightning struck a mobile home, setting it ablaze. The fire truck that was dispatched to the mobile home fire overturned, injuring three firefighters.

MAY 1991

		TIME			NO. PERS	OF ONS	ESTIM DAMA	ATED GE	
PLACE	Đ Ē	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Om rX			CXOFN	CHARACTER OF STORM

#### SOUTH CAROLINA Cont'd

Richland County Columbia		1528EST htning started a house fire causing	0 ng \$4	0 ,500 i	3 n dama	0 age.	Lightning					
Greenwood County Ware Shoals 2 N Greenwood	16 16	1730EST 1730EST	0	0	?	?	Hail (1.75) Lightning					
П. О.	Lig 221	Lightning started a fire causing approximately \$20,000 in damage to a house on S.C. Highway 221, 2 miles north of Greenwood. Golf ball-size hail was reported in Ware Shoals.										
Union County Buffalo	16	1930EST	0	0	3	0	Lightning					
	of t in t ligh	Lightning struck the eave of a house, just above a bedroom. The bolt blew a hole in the gable of the roof, scattering boards onto the ground. The force of the stroke shook loose the stucco in the room next to where the lightning struck. An electrical outlet also caught fire after the lightning struck. The occupant of the house reported that his left eardrum was damaged by the thunder. In 1990, lightning struck two trees on the same property.										
Clarendon County 0.5 NE Sardinia	18	1430EST	0	0	?	?	Thunderstorm Winds					
	A n	A mobile home was blown over and the roof was taken off another mobile home.										
Pickens County Pickens Berkeley County	18	1730EST	0	0	?	0	Thunderstorm Winds					
St. Stephens Greenwood County	18	1740EST	0	0	?	?	Hail (0.75)					
Greenwood	18	1800EST	0	0	?	0 , .	Thunderstorm Winds Urban Flood					
Greenwood Greenville County	18	1810EST	0	0	4	0	Lightning					
Simpsonville Mauldin	18	1830EST	0	0	?	?	Hail (0.75) Lighting					
Greenville  Mauldin Area	18 19 18	1930EST- 0100EST 2000EST	0	0	4	?	Flash Flood Flash Flood Lightning					
Spartanburg County Northern Portion	18 19	2200EST- 0100EST	0	0	?	?	Flash Flood					

Powerful, nearly stationary thunderstorms developed early in the evening. A classic flash flood event occurred in and around Greenville. The Reedy River rose several feet in 0.5 hour and crested at 11 feet, nearly 3 feet above flood stage. Most damage in Greenville, however, was caused by severe urban flooding not associated with the river. Some people required rescue from vehicles in the downtown area. Water entered some homes in Berea. There were several places where roadbeds were scoured. Near Mauldin, at least one bridge was washed out and remained closed for several days until repairs could be made. Rainfall reports up to 4.75 inches were received from the west side of Greenville and a spotter in Mauldin reported 4.25 inches of rainfall. Most fell in a 2-hour period in the early evening. Several bridges were still under water early the next morning in northern Spartanburg County. There was an unofficial report of 6.00 inches of rain along the Greenville - Spartanburg County border, near Gowensville.

In a separate thunderstorm in Greenwood County, lightning struck a bed inside an upstairs bedroom of a home and caused \$15,000 in damage from the ensuing fire. Also, in the Canterbury Subdivision of Greenwood, urban flood water reached the hoods of several cars. In some places the water was waist deep. Some trees and limbs were felled by thunderstorm winds.

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAMA	AGE AGE	
PLACE	D T E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	صنداع		<b>≺-∞moo</b> ∞o	വളവാഹ	CHARACTER OF STORM

#### SOUTH CAROLINA Cont'd

In a separate thunderstorm, in the Low Country, 0.75-inch hail reported by the Berkeley County Sheriff's Office.

Beaufort County Hilton Head Island

21 Unknown

? 0

Urban Flood

Water overflowed roadside ditches and stood in pools along South Forest Beach Drive and Coligny Circle.

**Beaufort County** Beaufort

1630EST-1700EST

Urban Flood Lightning

Very heavy rain of 3.37 inches in 2 hours caused some urban flooding. No wind damage or hail reported. Lightning caused power outages throughout Beaufort and vicinity.

Anderson County Anderson Belton

1712EST 30 1730EST

7 0 ż 0

Hail (1.75) Thunderstorm Winds Hail (0.88)

A single severe thunderstorm produced golf-ball-size hail in Anderson, and blew large limbs out of trees at Belton. Nickel-size hail was observed at Belton.

#### SOUTH DAKOTA

Fall River County 2 N Ardmore 30 S Hot Springs Pennington County Quinn

1940CST 1630CST 10

0

0

Hail (0.75) Hail (0.75)

1630EST

0 0 4 Hail (1.75)

Golf ball-size hail pelted Quinn for about 15 minutes. One car was totaled and four more suffered broken windows. Several houses incurred siding and roof damage, and broken windows.

?

ż

Fall River County Ardmore Haakon County W of Milesville

10 1700EST

0

0 Hail (0.75)

1815CST-1900CST

0

Hail (?)

Hail of unknown size destroyed 1,000 acres of wheat.

Fall River, Custer, and Shannon Counties

2030CST-0500CST

12

? Flood 0 6

Very heavy rainfall over the southern Black Hills and southwestern South Dakota caused extensive flooding from late evening on the 10th through early morning of the 12th. Total rainfall reports ranged from 4.00 to 10.00 inches in the area during the period. Afternoon and evening thunderstorms developed the 10th through the 12th dropping the heavy rain. Over \$1 million in flood damage occurred as a result of the copious amount of water. Oral was hardest hit as flood waters carried houses a few hundred feet from where they originally stood. Many highways, roads, culverts, and bridges were completely washed out by the heavy rains, and a few towns along the Cheyenne and White Rivers had to be evacuated due to high water levels.

Fall River County Provo

11 1813CST

50

?

Torando (F0)

		TIME			NO. PER	OF SONS	EST IN	IATED IGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KHTTMO		~∺⊗mooæo	השטה	CHARACTER OF STORM

SOUTH DAKOTA Cont'd													
2 S Edgemont	11	1820CST- 1900CST	1.0	75	0	0	0	0	Tornado (F1)				
	ton	ornado moved nado destroyed o removed roo	l a ranch h	ome and	outbu	ulding	s abou	ıt 7 mil	7 miles north of Edgemont. The es north of Edgemont. The tornado dings.				
Custer County Pringle Custer	11 11	1826CST 1835CST			0	0	4 3	0	Hail (1.75) Hail (1.75)				
Fall River County Near Edgemont	11	1838CST	0.8	50	0	0	0	?	Tornado (F0)				
	At least seven tornadoes were spotted in open fields.												
Custer County 5 E Custer	11	1840CST			0	0	5	?	Hail (2.75) Thunderstorm Winds (G60)				
	Up to 2,500 acres of trees and some Forest Service equipment were damaged as strong wind and hail swept through the Custer National Forest.												
Meade County Piedmont Perpineton County	11	1900CST			0	0	?	0	Hail (0.75)				
Pennington County Keystone	11	1915CST			0	0	3	0	Hail (0.75)				
	The	ere were nume	rous repor	ts of aut	omoł	oile an	d hom	e dama	age due to hail.				
Rapid City Area	11	1930CST			0	0	3	0	Hail (0.75)				
	The	There were many reports of home and automobile damage caused by hail.											
4 SW Rapid City 6 S Rapid City	11 11	1935CST 1935CST			0	0	3 1	0	Hail (1.75) Thunderstorm Winds (G53)				
Meade County 4 NW Rapid City	11	1955CST			0	0	4	0	Thunderstorm Winds (G60)				
		Strong winds associated with thunderstorms tore the roof off a mobile home and damaged a nearby house.											
Ellsworth Air Force Base	11	2005CST	0.5	50	0	0	?	0	Tornado (F0)				
roice base	A s	mall tornado	touched do	wn brief	fly or	the n	orthw	estern	corner of the airbase.				
Pennington County 11 NW Rapid City	11	2009CST			0	0	?	0	Hail (1.75)				
Meade County 20 NW Rapid City	11	2010CST			0	0	?	0	Hail (0.75)				
Pennington County 2 N Rapid City	11	2010CST	0.5	50	0	0	5	0	Tornado (F1)				
		mall tornado t ver poles were			ly da	magin	g seve	ral mo	bile homes and outbuildings. Two				
Meade County 5 N Rapid City	11	2010CST	1.0	300	0	5	5	0	Tornado (F2)				
	A tornado moved through Weston Heights subdivision, damaging several homes and injuring five people. Nine mobile homes were destroyed along with several sheds and garages.												

MAY 1991

		TIME			NO. PER:	OF SONS	EST II	MATED	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	סשאכניביי	6.KODEE+	COCODO	CHARACTER OF STORM

#### SOUTH DAKOTA Cont'd

SOUTH DAKOT	AC	Contra							
6 N to 8 N Rapid City	11	2010CST- 2050CST	2.0	500	0	20	6	0	Tornado (F3)
	mo	ornado destro bile homes we es were knocl	ere also de:	stroyed	by the	: torna	do. T	wenty	moved north of Rapid City. Four people were injured, and 33 power
Corson City 3 E Walker 3 McLaughlin Hughes County	12 12	1343CST 1425CST			0	0	0	0	Hail (0.75) Hail (0.75)
6 S Harrold Harrold	12 12	1454CST 1500CST			0 0	0	0	0	Hail (1.75) Hail (0.75)
Brule County Kimball	12	1552CST		٠	0	0	0	0	Hail (0.75)
Hanson County Fulton	12	1600CST	0.1	50	0	0	0	0	Tornado (F0)
	A s	mall tornado	touched do	own brie	fly ne	ar Ful	ton.	No da	mage was reported.
Charles Mix County 6 SW Platte	12	1630CST	0.5	100	0	0	2	0	Tornado (F0)
	A t	ornado damag	ged the roo	f on an	old b	arn and	d dem	olished	d a metal grain bin.
Sanborn County 5 N Letcher	12	1641CST			0	0	0	0	Hail (1.75)
Aurora County 6 S Stickney	12	1705CST	0.1	50	0	0	0	0	Tornado (F0)
	A t	ornado touche	ed down br	iefly car	using	no dai	nage.		
Davison County 1 N Vernon	. 12	1720CST			0	0	?	0	Thunderstorm Winds (G55)
	Stro	ong thunderst ginally stood.	orm winds	moved	some	heavy	y farn	n equip	oment about 20 feet from where it
1 N Mitchell Brown County	12	1745CST			0	0	0	0	Hail (1.75)
3 W Aberdeen Davison County	12	1745CST			0	0	0	0	Hail (0.75)
10 SE Mitchell	12	1753CST	0.5	100	0	0	0	?	Tornado (F0)
	A to	ornado was ol	bserved in	an open	field	causir	ig littl	e dam	age.
Miner County Howard	12	1838CST		<i>y</i>	0	0	0	0	Hail (1.75)
	The	ground was	covered wi	th hail u	ip to	golf b	all-siz	e.	
McCook County 2 S Canistota 10 S Salem Canistota	12 12 12	1855CST 1905CST 1958CST			0 0 0	0 0 0	0 0 0	0 0 0	Hail (0.75) Hail (0.75) Hail (0.75)
Minnehaha County Humboldt Sioux Falls Baltic Crooks	12 12 12 12	1925CST 1940CST 1945CST 2000CST			0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	Hail (0.75) Hail (0.75) Hail (0.75) Hail (0.75)

MAY 1991

		TIME			NO. PER	OF SONS	ESTII DAM/	MATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-LLWD	OMOCEZ	P&OP WELL	CCOPS	CHARACTER O STORM

#### SOUTH DAKOTA Cont'd

Spearfish Marshall County 4 SE Veblen

14 1915CST

14 2010CST

500111 5111101		.0114 G							
Dewey County 4 E Eagle Butte	14	1652CST			0	0	0	0	Hail (1.75)
Ziebach County 2 E Cherry Creek	14	1659CST			0	0	?	0	Hail (1.75)
Grant County Milbank Dewey County	14	1709CST			0	0	0	0	Hail (1.00)
4 W Eagle Butte Roberts County	14	1710CST			0	0	0	0	Hail (1.75)
Summit Lawrence County	14	1722CST			0	0	0	0	Hail (0.75)
Near Deadwood Walworth County	14	1725CST			0	0	0	0	Hail (1.75)
Mobridge Perkins County	14	1728CST			0	0	0	0 .	Thunderstorm Winds (G50)
10 NW Faith	14	1740CST	0.5	300	0	0	5	0	Tornado (F1)
	wer	ornado damag e destroyed, naged. Damag	and the ed	quipment	and	vehic	orage les ins	sheds ide th	(40 by 60 feet and 60 by 100 feet) em were also either destroyed or
Corson County 1 NW McIntosh	14	1750CST			0	0	0	0	Hail (2.00)
	Hai	l as big as chi	icken eggs	piled up	to 3	inches	s deep.		
Roberts County Peever Lawrence County	14	1751CST			0	0	0	0	Hail (0.75)

4	Hai	l as big as ch	icken eggs	piled up	to 3	inche	es deep	).	
Roberts County Peever Lawrence County	14	1751CST			0	0	0	0	Hail (0.75)
2 W Spearfish 2 E St. Onge	14	1759CST- 1820CST	4.0	150	0	0	0	0	Tornado (F0)

A weak tornado moved from 2 miles west of Spearfish to 2 miles east of St. Onge before dissipating. No damage was reported.

			•					
Walworth County Mobridge	14	1800CST	0	(	)	0	0	Thunderstorm Winds (G52)
	Tre	e limbs up to 6 inches in	diameter,	wer	e blo	wn o	ff tree	S.
Roberts County Summit	14	1813CST	Ö	(	)	0	0	Hail (0.75)
Grant County 6 NNE Twin Brook	14	1816CST	0	(	)	0	0	Hail (1.75)
Roberts County Sisseton Corson County	14	1845CST	0	. (	)	0	0	Hail (1.75)
5 W Walker Day County	14	1859CST	0	(	)	0	0	Hail (1.75)
Waubay Marshall County	14	1902CST	0	(	)	0	0	Hail (0.75)
Eden 5 Lake City	14 14	1902CST 1903CST	0	(		0	0	Hail (1.75) Hail (0.75)
Roy Lake Grenville	14 14	1915CST 1953CST	0 0 0	(	) )	0	0 0	Hail (1.25) Hail (0.75)
Lawrence County	1.4	1015CCT	0		`	Λ	Λ	Heil (1.75)

0

0

0

0

0

0

Hail (1.75)

Hail (1.75)

MAY 1991

		TIME			NO. PER:	OF SONS	ESTII DAM/	MATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLED	סשמטכרב	ᡐᡡ᠐ᡎᡴᢍ᠆ᢣ	CACOTO	CHARACTER OF Storm

#### SOUTH DAKOTA Cont'd

Day County Enemy Swim Pickeral	14.	2020CST	0	0	0	0	Hail (0.75)
McPherson County Bowdle Leola	14 14	2229CST 2315CST	0	0	0	0	Thunderstorm Winds (G52) Thunderstorm Winds (G52)
Todd County Mission Bennett County	15	1350CST	0	0	0	0	Hail (1.00)
Martin 8 NE Marriman	15 15	1410CST- 1500CST 1540CST	0	0	5 ?	4?	Hail (1.75) Hail (0.75)
Bennett County Tuthill	15	1630CST	0	0	?	?	Hail (1.00)
				_			

A series of slow-moving thunderstorms moved over most of Bennett County from 1400 CST to approximately 1700 CST. Six-foot drifts of hail between Martin and Tuthill wiped out over 1,000 acres of wheat in the southeastern part of the county. Five to six inches of rain caused widespread flooding and flash flooding washing out many roads and bridges. Four calves drowned due to fast-rising water.

Jackson County 20 SW Philip

15 1708CST-1759CST

0 0 3 ? Flood

Flash flooding due to heavy rainfall from slow-moving thunderstorms caused damage to fences, stock dams, and outbuildings.

Codington County
3 S Henry
Butte County
Belle Fourche

15 1710CST19 2130CST

0 0 0 0 0 0 0 0 0 0 0 0

Thunderstorm Winds (G61)

Hail (1.75)

Winds from a thunderstorm, estimated near 70 mph, demolished a pickup truck topper that was being stored near a house. The winds rolled the topper against a nearby house.

Edmunds County 5 S Roscoe 2 W Roscoe

21 1950CST 21 1955CST  $\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 3 \end{array}$ 

Hail (0.75) Thunderstorm Winds (G55)

Two grains bins were destroyed and the roofs of a house and a barn were damaged by thunderstorm winds.

Deuel County 10 S Gary

23 1930CST

0 0 3 0 Lightning

Lightning struck a cabin near Lake Cochrane and set it on fire. The interior of the cabin was damaged severely.

Faulk County 10 W Faulkton

26 1615CST

0 0 3 Hail (1.75)

Several farmers lost crops due to hail. Up to 500 acres of wheat and alfalfa were lost.

Spink County	٠.						
Redfield	- 26	1701CST	0	0	0	0	Thunderstorm Winds (G54)
Mellette	26	1705CST	0	0	4	0	Thunderstorm Winds (G60)
9 W Turton	26	1725CST	0	0	0	0	Thunderstorm Winds (G52)
1 S Turton	26	1733CST	0	0	1	0	Thunderstorm Winds (G57)
Conde	26	1735CST	0	0	0	0	Thunderstorm Winds (G57)

**MAY 1991** 

		TIME			NO. PER	OF SONS	ESTIN DAM/	MATED AGE	
PLACE	O A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-1-mD	OMMCCZ	± Com∞−×	CCOTO	CHARACTER OF STORM

#### SOUTH DAKOTA Cont'd

Thunderstorm winds were clocked at 62 mph on a gust recorder at Redfield. As the thunderstorm moved through the rest of Spink County, several screens were ripped off houses, a 33,00 bushel grain bin was destroyed, and tree limbs up to 6 inches in diameter were blown off

Southern South Dakota 27 2100CST-28 0800CST

0 0 0 Thunderstorm Winds

A cluster of thunderstorms over southwestern South Dakota in the late evening of May 27th moved east across southern-central into southeastern South Dakota through the morning of the 28th. Widespread hail and wind damage occurred with these storms. Damage to buildings, homes, vehicles, and crops occurred. In southwestern South Dakota, already-saturated ground and swollen creeks were drenched with 4.00 to 6.00 inches of new rain. The rains, which fell in a short period of time, produced flash flooding that damaged roads, bridges, and some private property.

Shannon County 8 E Pine Ridge Bennett County Tuthill and La Creek Refuge

27 2115CST 0 0 0 ? Hail (0.75)
27 2230CST 0 0 5 4 Hail (1.75)
Thunderstorm Winds (G60)

Golf ball-size hail broke windows in buildings, homes, and vehicles. Strong thunderstorm winds damaged several buildings and grain bins. Almost 1,000 wild birds nesting in La Creek Refuge were killed by falling hail.

Tripp County
Winner
Shannon County
30 SE Rapid City

28 0100CST 0 0 0 Hail (1.00) 28 0105CST 0 0 5 ? Flood

Thunderstorms dumping heavy rainfall caused flash flooding. On Highway 12, a bridge and a section of the road were washed out.

Aurora County Stickney

28 0300CST

0 0 4 4 Hail (2.50)

Tennis ball-size hail did substantial property and crop damage. Bean crops were destroyed and many homes and buildings sustained damage due to the hail.

Beadle County Wessington

28 0330CST

0 0 4 0 Thunderstorm Winds (G75)

Strong winds blew an old tree into a house destroying the roof and leaving the tree lodged in the bedroom. There were no injuries. Elsewhere in town, the strong winds also destroyed a shed and moved a garage off its foundation.

McCook County Salem Beadle County 2 SE Wolsey

28 0425CST 0 0 0 0 Hail (1.75)

28 0445CST 0 0 2 0 Thunderstorm Winds (G65)

Winds picked up the corner of a mobile home and knocked out the blocks. An old refrigerator was blown 30 feet, and several tree limbs measuring 8 to 12 inches in diameter, were torn from healthy trees.

Kingsbury County Bancroft

28 0500CST 0 0 5 0 Thunderstorm Winds (G65)

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAM/	MATED AGE	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLE	ואשטטרא	4-12m4020	CROPA	CHARACTER OF STORM

#### SOUTH DAKOTA Cont'd

	Win a tr		ins, an	id a m	etal sh	ed wa	s destroyed when it was blown into
Minnehaha County Lyons Colton	28 28	0505CST 0506CST	0	0	0	0	Hail (1.25) Hail (0.75)
McCook County Montrose	28	0530CST	0	0	2	0	Hail (1.00)
Minnehaha County 1 S Dell Rapids	28	0542CST	0	0	0	0	Hail (0.75)
Beadle County 5 NE Broadland	28	0550CST	0	0	0	0	Hail (1.00)
McCook County Near Montrose	28	0600CST	0	0	3	4	Hail (1.00)
	Ext	ensive crop damage and widesp	oread o	damage	e to ve	hicles	and buildings was caused by hail.
Lincoln County 8 E Lennox Stanley County 13 SSW Hayes	28 28	0643CST 0730CST	0	0	0	0	Hail (0.75) Hail (0.75)
East-Central South Dakota	28 28	1600CST- 1800CST	0	0	0	0	Hail
	A la late larg buil	arge hail-producing thunderstorn afternoon hours of May 28th. te quantities. Falling hail stor dings, vehicles, and crops. Da	n com Hail nes inj mage e	plex mover 2 ured testimat	oved a .00 in wo pe es in \	cross ches in cople a	east-central South Dakota during the a diameter was common, and fell in and caused severe damage to many ocket alone were around \$1 million.
Jerauld County 5 W Woonsocket	28	1600CST	0	0	4	4	Hail (2.75)
Kingsbury County 10 S DeSmet	28	1600CST	0	0	3	4	Hail (2.75)
Sanborn County Woonsocket	28 28	1610CST- 1625CST	0	1	6	4	Hail (4.00)

Jerauld County 5 W Woonsocket Kingsbury County	28	1600CST	0	0	4	4	Hail (2.75)
10 S DeSmet Sanborn County	28	1600CST	0	0	3	4	Hail (2.75)
Woonsocket		1610CST- 1625CST	0	1	6	4	Hail (4.00)

A woman was struck in the head as she tried to retrieve a hail stone to show her insurance agent. The injury, the only one she sustained, required a few stitched. The western side windows on almost every building in town were broken. Cars were totaled due to hail damage and crops were destroyed.

Miner County 6 W Carthage	28	1615CST	0	0	3	4	Hail (3.00)
Beadle County 14 SE Huron Sanborn County	28	1630CST	0	0	. 0	0	Hail (1.75)
8 N Artesian	28	1645CST	0	1	4	4	Hail (5.00)

A girl received cuts that required stitches when she was struck by hail. Hail the size of softballs, and some even larger, did extensive damage. Vehicles, windows, roofs of buildings, and crops were all damaged. Seventy-five feeder pigs and two calves were killed by the large hail.

Kingsbury County 16 SW DeSmet	28	1650CST	0	0	3	3	Hail (1.75)
Beadle County 11 SE Cavour Kingsbury County	28	1700CST	0	0	2	0	Hail (1.75)
4 W Oldham Lake Preston	28 28	1712CST 1717CST	0	0	0	<b>4</b> <b>2</b>	Hail (2.75) Hail (1.75)

NO. OF ESTIMATED

MAY 1991

	PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K	2000 - 2000 D	₽.R.О₽.ШФ>	00000	CHARACTER OF STORM	
,	SOUTH DAKOT	A C	cont'd								
	5 NW Arlington 1 W Arlington	28 28	1730CST 1743CST					0		Hail (2.75) Hail (4.50)	
,	Danahinan Caumtu	Hai rep	l as large as orted with t	s softballs hese storm	destroyed as.	a gra	iin bir	n near	Arling	gton. Widespread crop damage wa	S

**Brookings County** 5E Arlington White SE South Dakota Thunderstorm Winds Thunderstorms producing very strong winds and a few weak tornadoes moved across the southeast late on the 28th. Many houses and outbuildings were damaged. Some livestock was also killed during the storms. Charles Mix County

2 Lake Andes 28 2218CST 0 0 Thunderstorm Winds (G52) Tree limbs from 1 to 4 inches in diameter were torn from healthy trees. There was some minor damage to houses in town.

Wagner 28 2220CST Thunderstorm Winds (G80)

Strong winds blew several buildings down and took roofs off others. Trees up to 10 inches in diameter were snapped off. The top 30 feet of a 100-foot metal tower was bent, and a 70-foot tower was blown onto a house. Many roofs in town were partially torn off, some down to the framework.

Thunderstorm Winds (G80)

Bon Homme County 28 2225CST 0 Tyndall

**Hutchinson County** 

Tripp

**Parkston** 

Wind damaged roofs and blew trees over.

0

28 2230CST 0.5 150 0 0 4 0 Torando (F1) Near Tripp A small tornado destroyed some sheds and damaged farm equipment.

28 2235CST O 3 Thunderstorm Winds (G53)

Homes sustained roof and window damage due to strong winds.

Near Parkston 2245CST 0.5 100 Tornado (F0)

Two tornadoes were spotted, but no damage was reported.

28 2246CST Thunderstorm Winds (G70)

Windows were broken in many houses by flying debris caused by the strong winds.

Freeman 28 2250CST 0.5 150 Tornado (F1)

A small tornado damaged two silos, each 90-feet tall. The tornado also took the roof of a barn

off and destroyed two sheds.

Bon Homme County Scotland 2255CST 0 Thunderstorm Winds (G65)

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OMACCZI	₩. ₩. ₩. ₩. ₩.	CEOPN	CHARACTER OF STORM

			(220)	(1/11100)	Ď	È	Ř T Y		
L.,			<u></u>		<u></u>	<u>L</u>		<u> </u>	
SOUTH DAKO	ΓA (	Cont'd							
	A l	large tree worted.	as blown o	over into a	gara	ige cai	using	major	damage. Other minor damage was
Sanborn County	•								
Woonsocket	28				0	0	5	0	Lightning
McCook County	Αl	nouse was co	ompletely	destroyed	after	a light	tning :	strike s	set it on fire.
Cannistota	28	2310CST			0	2	5	3	Thunderstorm Winds (G60)
	A c due stro	couple receive to wind an ong winds.	ved minor i d hail. So	njuries whome roofs v	en th were	ey we blown	re cut off b	by gla uilding	ss from a window that was shattered ss, and a barn was destroyed due to
Hanson County Alexandria Near Emory	28 28	2310CST 2320CST			0	0	3	0	Thunderstorm Winds (G60) Hail (0.75)
	A s	sheep was ki	illed and m	inor dama	ge to	house	es and	buildi	ngs was reported.
Yankton County Yankton	28	2320CST			0	0	4	0	Thunderstorm Winds (G80)
	Ver hou	ry strong wi	inds blew were received	over health ved throug	iy tre hout	es up the cit	to 8	inches	in diameter. Numerous reports of
Union County 2 W Elk Point	29	0015CST			0	0	3	0	Thunderstorm Winds (G55)
North Sioux City 1 N Elk Point	29 29	0020CST 0030CST			ŏ	0	4	Ŏ	Thunderstorm Winds (G65) Thunderstorm Winds (G60)
	Sev rest	eral farm be aurant unde	uildings we r construct	ere blown ion was al	dowr so de	ı by h stroye	igh w	inds, a severa	and a mobile home blown over. A li vehicles were totaled.
Minnehaha County Brandon	29	0047CST			0	0	4	0	Lightning
	A h	ouse was da	amaged sev	erely whe	n ligl	ntning	strucl	k, resu	lting in a fire.
Hamlin County Esteline	29	0200CST			0	0	4	0	Lightning
	Lig	htning struc	k a garage	setting it	on fi	re.			
Meade County	20	1 <i>5 15 0</i> 000			0	^	•	•	II '1 (4 MC)
10 S Union Center Elm Spring	29 29	1545CST 1620CST			0	0	3 0	3 0	Hail (1.75) Hail (1.75)
Pennington County 2 N Wall	29	1700CST			0	0	0	4	Hail (1.00)
Haakon County 22 N Philip 20 NE Philip 25 NE Philip	29 29 29	1720CST 1815CST 1825CST			0 0 0	0 0 0	3 3 3	3 3 3	Hail (2.75) Hail (2.75) Hail (2.75)
2 NE rump				المناء ملاميات	•			_	` ,
	veh	i wiped out	тапу пе	ias of whe	at ar	iu alfa	ma as	well	as damaging windows, roofs, and
Stanley County 55 WSW Pierre	29	2030CST			0	0	0	0	Hail (2.75)

MAY 1991

		TIME			NO. PEŘ:	OF SONS	EST II	ATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L L E D	חשאכני ביי	<b>РЖОФШЖТ У</b>	כאסהא	CHARACTER OF STORM

## SOUTH DAKOTA Cont'd

Jones County 10 N Draper	29	2120CST	0.5	50	0	0	0	0	Tornado (F0)
	Α:	small tornado	touched	down brie	efly b	efore	dissipa	iting.	No damage was reported.
Stanley County 10 W Pierre Brown County	29	2120CST			0	0	0	0	Hail (2.75)
Aberdeen	30	0030CST			0	0	4	0	Thunderstorm Winds (G55)
Hamilin County Hayti	30	0315CST			0	0	4	0	Thunderstorm Winds (G52)
Hughes County 4 E Blunt	30	0830CST			0	0	4	4	Hail (1.75)
Perkins County 30 SW Lemmon	30	1945CST			0	0	0	3	Hail (1.75)
Stanley County 10 W Pierre 10 WNW Pierre	30 30	2020CST 2029CST			0	0	0	0	Hail (1.75) Hail (1.75)
8 W Pierre Jackson County	30	2030CST		·	0	0	0	0	Hail (2.75)
14 WSW Philip Turner County	30	2055CST			0	0	0	2	Hail (0.75)
Marion Minnehah County	31	0125CST			0	0	3	0	Thunderstorm Winds (G55)
4 ESE Hartford Miner County	31	0150CST			0	0	0	0	Hail (0.75)
4 NW Canova Clark County	31	0230CST			0	0	0	1	Hail (0.80)
1 N Elrod Codington County	31	0255CST			0	0	0	0	Hail (0.75)
Watertown	31	0330CST			0	0	0	0	Thunderstorm Winds (G55)
Grant County Milbank	31	0415CST			0	0	3	0	Thunderstorm Winds (G50)
TENNESSEE									
Hamilton County Red Bank	05	1800CST			0	3	5	0	Flood
	He.	avy rains (bet wer lines were	ween 2.5 knocked	0 and 4.0 I down as	00 inc well.	hes) c	aused	an ap	artment complex to collapse. Some
Tipton County Covington	11	0900CST			0	0	2	0	Flood
	Por	rtions of High	way 51 v	were unde	r wat	er.			
Haywood County Brownsville	11	0900CST			0	0	2	0	Flood
	Mi	nor flooding v	was repor	ted in Br	ownsv	ille.			
Lewis County Hohenwald	11	1430CST			0	0	5	0	Flood
	Sev	eral bridges v	vere wasl	hed out.					• .
Sumner County Countywide Gallatin	12 12	1400CST 1400CST			0	0	2 2	0	Thunderstorm Winds Flood

MAY 1991

		TIME			NO.	OF SONS	EST IM	ATED GE	
PLACE .	DA)-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMD	חשטטר בי	~—\2m\0\2\2	CROPS	CHARACTER OF STORM

#### TENNESSEE Cont'd

Some telephone lines were knocked down by the wind. Urban flooding produced water which was as high as truck doors.

Fayette County Moscow Rossville

12 1400CST

0 0 4 0 Flood

Nineteen homes and five businesses in the Rossville area were damaged. Twenty cars were stalled on Route 57 between Moscow and Rossville. Flooding produced holes in the railroad bed which stalled four trains.

Shelby County Bartlett Cordova Collierville Millington

12 1500CST

0 0 3 0 Flood

Reports of urban flooding with water as high as hub caps in some spots. Some cars were found off the road and water reached a few houses.

Washington County Johnson City

12 1900CST

0 1 2 0 Flood

A man was knocked off an inner tube on the Watuga river because of rising water due to heavy rain.

Carter County Biltmore Gap Creek

12 1900CST

0 0 2 0 Flood

3

3

Minor flooding was reported in the Biltmore, Gap Creek, and Laurels communities.

Blount County Maryville

Laurels

16 1400CST

0 0 3 0 Lightning

Lightning produced damage to the First Federal Bank.

Bradley County Cleveland

16 1930CST

0 0

0 Lightning

Lightning produced extensive damage to one house.

Campbell County Duff and Westbourne

19 1500CST

0 0

0 Flood

Some houses were damaged by flood waters and several trees were knocked down.

Lawrence County							
Loretto	25	1700CST	0	1	3	0	Flood
Lawrenceburg						_	
Wayne County	25	2000CST	0	0	4	0	Flood
Lewis County	<b>2</b> 5	2030CST	0	0	3	0	Flood
Fayette County							
Moscow	26	0330CST	0	0	3	0	Flood
Maury County	26	1100CST	0	0	3	0	Flood
Hardin County	26	1700CST	0	0	5	0	Flood
Humphreys County	26	2145CST	0	0	6	6	Flood
Hickman County	26	2200CST	0	0	4	0	Flood
Dickson County	26	2230CST	0	0	4	0	Flood
Montgomery County	26	2345CST	0	Õ	3	Ō	Flood
Cheatham County	<b>2</b> 7	0400CST	Õ	Ŏ	3	Ó	Flood
			-	~	_	-	- 1000

Heavy rain moved through parts of western and middle Tennessee during the Memorial Day weekend. Eight to twelve inches of rain fell across the southern part of middle Tennessee. This

		TIME			NO. PER	OF SONS	ESTIN DAMA	MATED NGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	ואטטאשט	4-120 TO 20 TO 10	CEOPN	CHARACTER OF STORM

<u> </u>	.1	<u> </u>				J				
TENNESSEE Co	nt'd	·								
	pro was dov was	duced quite a s washed awa wn due to the l ters.	bit of f y. In H high wat	looding. ickman Co er. In Ha	One pounty, rdin C	erson a Ten ounty,	was in inessee , 16 br	ijured i Valle idges v	n Lawrence County as to Authority substation were washed out because	their camper was knocked of the flood
Washington County Johnson City	27	1730CST			0	0	2	0	Flood	
	Mi	nor urban flo	oding wa	as reporte	d.					
Sullivan County Bristol	27	1900CST			0	2	3	0	Flood	
Abingdon	Min inju	nor flood dam uring two peo	age was ple.	reported.	Two	autom	obile	accider	nts occurred due to the fl	lood waters
Washington County Johnson City	30	1815CST			0	0	3	0	Flood	
•	Sev	eral roads we	ere flood	ed.						
TEXAS, Norther	n									
Northern Texas	02-	04								-
	4th	, as a series s ssure system	of upper centers	r level dis ed over t	turbar he w	ices ro estern	otated Rock	across v Mo	Texas, from May 2nd the area from an upper untain states. The n ging downbursts of wir lash flood events.	r-level low- nost intense
McCulloch County 5 NW Brady 2 N Brady	02 02	1255CST 1315CST			0	0	3	?	Hail (1.75) Thunderstorm Winds	ı
	Gol win	If ball-size hands lifted the t	il broke in roof o	the winds ff a buildi	shield ng anc	of an I blew	autom down	obile 5 large t	miles northwest of Braree branches 2 miles nor	idy. Strong th of Brady.
Foard County 1 SE Thalia	02	1300CST			0	0	3	?	Thunderstorm Winds	
	Stro	ong winds ble	w down	several to	ees.				,	
Jones County 2 S Hawley Hamlin	02 02	1357CST 1418CST-			0	0	?	?	Hail (0.75)	
Aldinini	UZ	1419CST	Short	Narrow	0	0	4	?	Tornado (F2)	
	A to	ornado touche lding, and ble	ed down ew down	briefly at power lin	Hami nes.	lin and	llifted	d the re	oof off a home, destroy	ed a storage
Haskell County 6 NW Haskell	02	1450CST- 1451CST	Short	Narrow	0	0	4	?	Tornado (F1)	
	A t	ornado touch thwest of Has	ed down skell), ar	n briefly nd snapped	in ope I num	n cou erous	ntry r utility	ear Fa poles	rm-to-Market Road 24 and blew trees onto pov	07 (6 miles ver lines.
Wichita County Wichita Falls	02	1720CST			0	0	?	?	Thunderstorm Winds	(G56)

		TIME			NO. PER	OF SONS	ESTI! DAM/	MATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	CHINGC LW I	4-20m2020	CECOEN	CHARACTER OF STORM

					<u> </u>	<u> </u>	Y		
TEXAS, Northern	n Co	ont'd							
Cooke County 11 NW Gainesville 4 W Gainesville	02 02	22320CST 2230CST	<b>.</b>		0	0	4 4	?	Thunderstorm Winds Thunderstorm Winds
	and At	Moss Lake a home, dethe airport in aged the d	amaged tw n Gainesv	/o boats, a ille (4 mile	porc s we	h, a p st of	oatio, Gaine	a radio sville),	winds lifted the roof off a boathouse tower, and snapped several trees. strong winds blew the windows in, ower lines.
Tarrant County Haslett Carron Porce	02 02	2334CST 2356CST			0	0	3 ?	?	Thunderstorm Winds Thunderstorm Winds (G56)
Force Base Saginaw Saginaw	03 03	0020CST 0040CST			0	0	3 ?	?	Thunderstorm Winds Thunderstorm Winds (G52)
	Stro	ong winds b	olew down	power line	es at	both 1	Haslet	t and S	aginaw.
Fannin County Leonard	03	0050CST			0	0	3	?	Thunderstorm Winds
	Stre	ong winds b	olew down	large tree	bran	ches.			
Lamar County Paris 3 NW Blossom 1 E Blossom	03 03 03	0130CST 0152CST 0200CST			0	1 0 0	5 5 4	?	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
	Stro and a b Blo	ong winds lidamaged tusiness, blessom. A d	ifted the ro he roof of w down so ownburst	of off a mo several ho everal pow overturned	otel, l mes i er lir a tra	olew d in Par ies and ctor-s	lown a is. St d appi emitra	greenl rong w roximat ilor 1	house, several power lines and trees, yinds destroyed two barns, damaged tely 300 trees, 3 miles northwest of mile east of Blossom.
Red River County Woodland Negley 3 W Bagwell	03 03 03	0208CST 0208CST 0210CST			0 0 0	0	3 4 4	???	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
	3 n	ong winds b niles west gwell.	olew down of Bagwel	numerous l. The ro	trees of of	and p	ower ral ho	lines a omes w	t Woodland, Negley, and in an area vere also damaged 3 miles west of
Morris County Jenkins Daingerfield	03 03	0215CST 0215CST			0	0	4 3	?	Thunderstorm Winds Thunderstorm Winds
	Stree	ong winds u	prooted tre	ees, damag	ed tw	o auto	omobil	les, the	roof of a home in Jenkins, and blew
Cass County Hughes Springs Avinger	03 03	0300CST 0300CST	r		0	0	3 3	?	Thunderstorm Winds Thunderstorm Winds
Č	Str		olew sever	al trees ont	o po	wer li	nes at	both I	Hughes Springs and Avinger.
Bowie County Beaverdams	03	0310CST			0	0	_	_	Thunderstorm Winds
<b>DeKalb</b> Sims Hooks	03 03 03	0310CST 0315CST 0315CST			0	0 0 0	3? 3 3	????	Thunderstorm Winds (G52) Thunderstorm Winds Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	EST I	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OBSCER	4-20m4022	רשטהע	CHARACTER OF STORM

## TEXAS, Northern Cont'd

4 N Redwater	03	0315CST	0	0	3	?	Thunderstorm Winds					
	Stro		trees Plant	at Bea	verdan les no	ns, Sin	ns, and Hooks, and damaged signs					
Wood County Winnsboro	03	0315CST	0	0	3	?	Thunderstorm Winds					
	Stro	ong winds blew down seeral trees	3.									
Cass County Hughes Springs 1 E Linden 4 NE Linden	03 03 03	0320CST 0322CST 0322CST	0 0 0	0 0 0	? 3 4	?	Hail (1.00) Thunderstorm Winds Thunderstorm Winds					
	Strong winds blew several trees down 1 mile east of Linden, and damaged the roof of a chicken barn 4 miles northeast of Linden.											
Camp County Center Point	03	0340CST	0	0	3	?	Thunderstorm Winds (G52)					
	Stro	Strong winds measured at 60 mph blew down several trees.										
Upshur County 3 N Ore City Gilmer Diana	03 03 03	0340CST 0400CST 0420CST	0 0 0	0 0 0	3 3 3	???	Thunderstorm Winds (G52) Thunderstorm Winds Thunderstorm Winds					
	Strong winds blew down several trees at Lake of the Pines (3 miles north of Ore City), Gilmer, and Diana.											
Smith County Chapel Hill Lindale Big Sandy Winona	03 03 03 03	0345CST 0410CST 0410CST 0425CST	0 0 0 0	0 0 0 0	3 ? ?	????	Thunderstorm Winds Funnel Cloud Funnel Cloud Funnel Cloud					
	Stro	ng winds blew down several tree	es at	Chapel	Hill.		•					
Marion County 5 N Kellyville Jefferson	03 03	0415CST 0420CST	0	0	4?	?	Thunderstorm Winds Thunderstorm Winds (G54)					
	Stro Hur	ng winds blew down several tree ricane Creek (5 miles north of K	s and ellyv	the roille).	of off	an out	door building at a campsite on the					
Gregg County Greggton Rusk County	03	0421CST	0	0	?	?	Hail (1.00)					
3 E Overton	03	0441CST	0	0	?	?	Hail (1.00)					
Harrison County Harleton	03	0443CST	0	0	3	?	Thunderstorm Winds					
Scottsville 1 W Marshall Marshall 3 NW Waskom	03 03 03 03	0520CST 0520CST 0540CST 0540CST	0 0 0 0	0 0 0 0	? 3 3 3	????	Hail (0.88) Thunderstorm Winds (G59) Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds					

Strong winds blew down large tree limbs at Harleton, and several trees 1 mile west of Marshall, at Marshall, and 3 miles northwest of Waskom.

MAY 1991

		TIME			NO. PER	OF SONS	EST II	AATED AGE	
PLACE	DAOTE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	ואייטאפט	PROPERTY	CROPS	CHARACTER OF STORM

#### TEXAS, Northern Cont'd

Angelina County Lufkin 3 NE Zavalla 9 E Lufkin Diboll	03 03 03 03	0524CST 0600CST 0650CST 0650CST	0 0 0	0 0 0 0	? 3 ?	?	Hail (0.75) Thunderstorm Winds Thunderstorm Winds Hail (1.00)
	03	0650CST	0	0	?	?	
Huntington	03	0650CST	0	0	?	?	Hail (1.00)

Strong winds uprooted several trees 3 miles northeast of Zavalla, and at Rocky Hill, 9 miles east of Lufkin.

Harrison and Marion Counties	03 03	0600CST- 1245CST 1600CST-	0	(	)	4	?	Flash Flood
		2000CST	0	(	)	4	?	Flash Flood

Heavy rains in excess of 5 inches in a 24-hour period produced flash flooding of several homes, vehicles, and roadways in both Harrison and Marion Counties (specifically, in Harrison County). In Marshall, a mobile home was flooded and several cars were washed off roadways. Several bridges were washed out along the Sabine River and parts of U.S. Highway 59, while Farm-to-Market Road 2625 was closed for several hours.

Gregg County Liberty City Longview	03 03	0400CST 0430CST	0	0	4	?	Thunderstorm Winds Thunderstorm Winds Hail (1.75)
Kilgore Countywide	03	0430CST	0	0	4	?	Hail (1.75) Thunderstorm Winds
Countywide	03	0530CST- 1230CST	0	0	6	?	Flash Flood
	03	1600CST- 2000CST	0	0	6	?	Flash Flood

Strong winds uprooted trees at Liberty City, Longview, and Kilgore. In addition, both Longview and Kilgore had windows blown in, the roof lifted off several homes, and utility poles and power lines blown down. In Kilgore, a little league ballpark was damaged. Heavy rains of 9.00 inches in a 7-hour period produced widespread flash flooding of homes, businesses, roadways, and public facilities in Gregg County. In Longview, approximately 200 homes and 50 businesses were flooded by high water up to 5 feet deep. High water was observed up to the roof line of homes in other locations. Flash flood damage was estimated at \$2.5 million.

Rusk County							
5 SW Kilgore	03	0405CST	0	0	4	?	Thunderstorm Winds
Henderson	03	0415CST	0	0	3	?	Thunderstorm Winds

Strong winds destroyed a barn and blew down large tree limbs 5 miles southwest of Kilgore, and blew down several trees at Henderson.

Harrison County Marshall	03 0430CST	0	0	3	?	Thunderstorm Winds
	Strong winds blew down se	veral trees ar	id pov	ver lin	es.	
Bowie and Cass Counties	03 0430CST- 0830CST 03 1600CST-	0	0	?	?	Flash Flood
Bowie and Cass Counties	03 1600CST- 2000CST	0	0	?	?	Flash Flood

Heavy rains resulted in the flash flooding of several creeks, low-lying areas, and numerous roadways.

		TIME			NO. PER	OF SONS	EST I	ATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OHACLE	4-200 mg-7-	CROPN	CHARACTER OF STORM

								<u> </u>				
TEXAS, Norther	n Co	ont'd										
Panola County Beckville	03	0510CST			0	0	3 ?	?	Thunderstorm Winds			
6 NE DeBerry	03	0601CST			0	0	ź	į́.	Hail (1.00) Thunderstorm Winds			
	Str	Strong winds blew down several trees at Beckville, and 6 miles northeast of DeBerry.										
Panola and Rusk Counties	03	1000CST- 1245CST			0	0	?	?	Flash Flood			
Comito	03	1600CST- 2000CST			0	0	?	?	Flash Flood			
	Hea Far	avy rains was	hed out n Road 3053	umerous o s was clos	culve sed d	rts in	Pano	la and	Rusk Counties. In Rusk County, ver the roadway.			
Bell County 1 E Killeen Countywide	03 03	1225CST 1330CST-			0	0	?	?	Hail (0.75)			
Temple 3 S Youngsport	03 03	1700CST 1343CST 1505CST			0 0 0	0 0 0	4 5 5	?	Flash Flood Thunderstorm Winds Thunderstorm Winds			
· .	Heavy rains of 3.00 inches in a 45-minute period flooded numerous roadways in Bell County. Several homes were flooded in Youngsport while Farm-to-Market Road 13 south of Killeen, was closed. Strong winds destroyed two mobile homes and damaged another in Temple. Three miles south of Youngsport, a 70-foot two-way radio tower was snapped, while 10 storage buildings and a greenhouse were destroyed, and several homes were uprooted.											
Jack County 3 S Jacksboro	03	1315CST			0	0	?	?	Hail (0.75)			
Taylor County Buffalo Gap	03	1340CST			0	0	?	?	Hail (1.00)			
McCulloch County 2 N Doole	03	1349CST- 1405CST	Short N	arrow	0	0	?	?	Tornado (F0)			
	A to	ornado touche	ed down in	open cou	untry	2 mi	les no	rth of I	Doole and damaged a fence.			
Falls County Marlin 2 W Westphalia	03 03	1400CST 1425CST			0	0	5 4	?	Thunderstorm Winds Thunderstorm Winds			
	Stro of V	ong winds dest Westphalia.	troyed a ba	arn and a	comb	oine sh	ned at	Marlin	and damaged a home 2 miles west			
Young County Newcastle Graham Farmer Countywide	03 03 03 03	1415CST 1515CST 1442CST 1600CST-			0 0 0	0 0 0	??	?	Hail (1.75) Hail (1.75) Hail (0.75)			
County Wide	U.S	2100CST	•		0	0	?	?	Flash Flood			
	Hea cros	sy rains processings over sca	duced flas attered sec	h floodin tions of Y	g of Youn	seve g Cou	ral ro inty.	adways	, low-lying areas, and low-water			
Callahan County 1 W Eula 2 S Baird	03 03	1435CST 1450CST			0	0	?	?	Hail (2.75) Hail (1.75)			
Hopkins County Como	03	1500CST			0	0	?	?	Hail (1.00)			

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	סשאטרבידו	~~~~~	೧ಹ೦೯೧	CHARACTER OF STORM

TEXAS, Norther	n Co	ont'd										
McCulloch County Calf Creek Brady	03 03	1515CST 1532CST		0	0	?	?	Hail (0.75) Funnel Cloud				
Stephens County 5 N Breckenridge	03 03	1535CST		0	0	?	?	Hail (0.75)				
Countywide	03	1700CST- 1930CST		0	0	?	?	Flash Flood				
	Hea of l	Heavy rains of 4.56 inches fell in a 6-hour period at Ivan. High water resulted in the closing of Farm-to-Market Roads 1148, 701, 1287, and State Highway 67.										
Leon County 4 NE Marquez Oakwood Oakwood	03 03 03	1540CST 1625CST 1725CST		0 0 0	0 0 0	?	?	Hail (1.75) Hail (1.75) Hail (1.75)				
Camp County 3 NE Pittsburh	03	1545CST		0	0	5	?	Thunderstorm Winds				
	A d	lownburst desi vn several tree	troyed an outdoor	buildi	ng, lif	ted the	e shing	eles off the roofs of homes, and blew				
Shelby County	03	1600CST- 2300CST		0	0	?	?	Flash Flood				
	Hea	avy rains resul	ted in the flash flo	oding	of roa	dways	, low v	water crossings, and low-lying areas.				
Freestone County Oakwood	03	1625CST		0	0	?	?	Hail (1.75)				
Camp, Morris and Titus Counties	03	1630CST- 1900CST		0	0	?	?	Flash Flood				
		avy rains of 4. as, and roadw		urs, re	sulted	l in the	flash:	flooding of several creeks, low-lying				
Anderson County Elkhart Hoston County	03	1730CST		0	0	?	?	Hail (1.75)				
Grapeland	03	1730CST- 1731CST	Short Narrow	0	0	?	?	Tornado (F1)				
	Δt	ornado toucha	d down briefly no	ar Gr	anelan	d and	hlew.	down several trees				

A tornado touched down briefly near Grapeland and blew down several trees.

Nacogdoches County	03	1830CST- 2030CST	0	n	9	2	Flash Flood
Nacogdoches	03	1957CST	ŏ	ŏ	5	?	Thunderstorm Winds
Appleby Cushing	03	2000CST 2000CST	0	0	3	?	Thunderstorm Winds Thunderstorm Winds

Heavy rains, up to 4.23 inches measured at Cushing in a 6-hour period, produced widespread flash flooding of several residences, roadways, and vehicles where high water was observed up to 3 feet deep at various locations in Nacogdoches County. Several roads were closed including Farm-to-Market Roads 307, 818, 789, 818, 438, and 706. Strong winds destroyed a barn, uprooted several trees, and blew down trees and large limbs onto power lines and homes in Nacogdoches. Several utility poles and trees were snapped at both Appleby and Cushing.

1 W San Augustine 03	2010CST- 2011CST	Short Narrow	0	0	3	?	Tornado (F1)

MAY 1991

		TIME			NO. PERS	OF SONS	EST IN	MATED AGE	
PLACE	D A I E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLUMD	סשמכריביי	<u>~-∞ппоо» о</u>	CEOPN	CHARACTER OF STORM

## TEXAS, Northern Cont'd

A tornado was observed 1 mile west of San Augustine where numerous trees and power lines

		ornado was observed 1 mile we e blown down.	st of	San A	ugusti	ne whe	ere numerous trees and power li
Shelby County Neuville Huxley Bay	03 03	2010CST 2020CST	0	0	?	?	Hail (1.75) Thunderstorm Winds
	Stro	ong winds blew a few trees and	street	signs	down	at Hu	xley Bay.
Eastland County Cisco Ranger Eastland	04 04 04	1220CST 1220CST 1220CST	0 0 0	0 0 0	3 3 3	?	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
	Stro	ong winds blew down trees and	powe	r lines	at Ci	sco, Ra	anger, and Eastland.
Throckmorton Count Woodson Stephens County	ty 04	1230CST	0	0	?	?	Hail (1.75)
7 W Breckenridge Breckenridge	04 04	1240CST 1306CST	0	0	?	?	Hail (0.75) Hail (0.75)
Comanche County 10 SE Comanche	04	1315CST	0	0	?	?	Thunderstorm Winds (G50
Erath County Alexander 8 E Stephenville	04 04	1351CST 1410CST	0	0	?	?	Thunderstorm Winds (G56) Thunderstorm Winds
	A d	lownburst blew the roof off a ba	ım 8	miles	east of	f Steph	enville.
Somervell County 8 SW Glen Rose Hood County	04	1415CST	0	0	?	?	Thunderstorm Winds (G52)
Granbury Cresson Palo Pinto County	04 04	1434CST 1434CST	0	0 0	?	?	Thunderstorm Winds (G52) Thunderstorm Winds (G52)
Mineral Wells Airport	04	1455CST	0	0	?	?	Thunderstorm Winds (G50)
Mineral Wells	04	1455CST	0	0	3	?	Thunderstorm Winds (G61)
	Stro	ong winds measured at 70 mph,	blew	down	sever	al trees	at Mineral Wells.
Parker County 5 S Weatherford Peaster	04 04	1500CST 1500CST	0	0	?	?	Thunderstorm Winds (G52) Thunderstorm Winds (G52)
Tarrant County Fort Worth Fort Worth Arlington	04 04 04	1500CST 1530CST 1530CST	0 0 0	0 0 0	3 3 3	?	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
•							

Strong winds blew down a circus tent in Fort Worth at 1500 CST, and several trees were blown onto power lines in Arlington and Fort Worth at 1530 CST.

Johnson County Cresson	04	1505CST	0	0	?	?	Thunderstorm Winds (G57)
Wise County 4 N Rhome Roanoke Newark	04 04 04	1530CST 1600CST 1600CST	0 0 0	0 0 0	? 3 ?	?	Hail (0.75) Thunderstorm Winds (G52) Thunderstorm Winds (G52)

Strong winds of 60 mph, blew down several trees at Roanoke.

MAY 1991

		TIME			NO. PERS	OF SONS	ESTIN DAMA	ATED GE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLEO	סוויס	≺⊣∞mōO≈o	CEOPN	CHARACTER OF STORM

# TEXAS, Northern Cont'd

122110, 11010101						
McLennan County Waco	04 1600CST	0	0	3	?	Thunderstorm Winds
	Strong winds blew down large tree	limbs	onto	power	lines.	
Dallas County Seagoville	04 1600CST	0	0	?	?	Hail (0.75) Thunderstorm Winds (G52)
Navarro County Blooming Grove Angus Corsicana	04 1610CST 04 1615CST 04 1630CST	0 0 0	0 0 0	3 3 3	?	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
	Strong winds blew down several Corsicana.	trees	and	power	lines	at Blooming Grove, Argus, and
Collin County McKinney McKinney	04 1615CST 04 1620CST	0	0	?	?	Hail (0.75) Thunderstorm Winds
	Strong winds blew down several tre	es an	d pov	wer line	es.	
Rockwall County Rockwall Chisolm	04 1620CST 04 1630CST	0	0	3 3	?	Thunderstorm Winds Thunderstorm Winds
	A downburst blew down several tre	es an	d pov	ver line	s.	
Ellis County Ennis	04 1625CST	0	0	3	?	Thunderstorm Winds
	In Ennis, a downburst blew down p	ower	lines	and se	veral t	rees.
Bell County Gray AAF Hunt County	04 1632CST	0	0	?	?	Thunderstorm Winds (G59)
Quinlan	04 1650CST	0	0	3	?	Thunderstorm Winds
	Strong winds blew down several tre	es.		:		
Fannin County 1 N Bonham	04 1650CST	0	0	5	?	Thunderstorm Winds
	A downburst destroyed a couple of and blew down highway signs.	barns	, dan	naged tl	ne roof	f of several homes, uprooted trees,
Van Zandt County Jackson 7 SW Canton Canton Colfax Grand Saline	04 1718CST 04 1719CST 04 1725CST 04 1739CST 04 1745CST	0 0 0 0	0 0 0 0	? 3 3 ? 3	??????	Funnel Cloud Thunderstorm Winds Thunderstorm Winds Funnel Cloud Thunderstorm Winds
	Strong winds blew down power line onto power lines at Canton and Gra	s 7 m .nd Sa	iles s line.	outhwes	st of C	anton, and blew down several trees
Delta County 5 W Cooper Cooper 4 NE Cooper	04 1720CST 04 1730CST 04 1734CST	0 0 0	0 0 0	? 3 ?	?	Thunderstorm Winds (G61) Thunderstorm Winds Funnel Cloud

		TIME			NO. PERS	OF SONS	ESTIN DAMA	ATED GE	~
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED		<b>СКОРНЖ-</b>	CROPS	CHARACTER OF STORM

TEXAS, Northern	n Co	ont'd									
Enloe	04	1745CST		. (	) (	) 3	3	? Thunderstorm Winds			
	A d and	lownburst blev blew down se	v down pov everal trees	wer lines at Enloe.	in Co	oper.	Strong	g winds destroyed the porch of a home			
Henderson County Athens Malakoff 6 E Athens	04 04 04	1735CST 1745CST 1745CST		(	) (	) <u>3</u> ) <u>3</u>	3 7	? Thunderstorm Winds ? Thunderstorm Winds ? Thunderstorm Winds			
	Stro	ong winds blew er in Malakof	v down tree f.	s in Ather	ns and	l at La	ke Ath	nens (6 miles east of Athens) and a radio			
Rains County Emory	04	1737CST		(	)	) 3	3 :	? Thunderstorm Winds			
	Stro	trong winds blew down several trees.									
Lamar County 5 E Paris Paris	04 04	1740CST 1750CST		(	) (	0 2	3	? Hail (0.75) ? Thunderstorm Winds			
	Stro	Strong winds blew down several trees and power lines at Paris.									
Hopkins County Sulphur Springs	04	1740CST		(	) (	) 4	<b>4</b> 1	? Thunderstorm Winds (G79)			
	Stro	Strong 90-mph winds destroyed an outbuilding and blew down several large trees.									
Smith County Dogwood City 5 S Tyler Lindale	04 04 04	1750CST- 1751CST 1804CST 1810CST	Short N	• (	0			? Tornado (F1) ? Thunderstorm Winds (G52) ? Thunderstorm Winds			
	A to	ornado toucheo vn several tree	d down brie s at Lindal	efly at Do e.	gwoo	d City	damag	ging several homes. Strong winds blew			
Franklin County Mount Vernon Wood County	04	1758CST		(	0	o 1	? 1	? Thunderstorm Winds (G52)			
5 NW Mineola Anderson County	04	1758CST		(	0	0 '	? '	? Hail (0.75)			
Palestine Palestine	04 03	1810CST 1900CST 2100CST						? Thunderstorm Winds ? Flash Flood			
	Stre		med several crossings,	l trees onto	o pov	er line	s. Fla	ash flooding was observed across several			
Camp County Pittsburg	04	1810CST		(	0	0 :	3 1	? Thunderstorm Winds			
	Stro	ong winds blev	w down sev	veral trees	in P	ittsbur	g.				
Red River County 5 N Clarksville Annona Box Elder Avery	04 04 04 04	1810CST 1815CST 1820CST 1820CST		(	0		3 3	? Thunderstorm Winds ? Thunderstorm Winds ? Thunderstorm Winds ? Thunderstorm Winds			

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN	AGE	
PLACE	DA F	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLUMD	OMACLE	± 000 ⊞ 200 € 1	CECOEN	CHARACTER OF STORM

#### TEXAS, Northern Cont'd

Strong winds downed several trees onto power lines 5 miles north of Clarksville, Annora, Box Elder and Avery.

	Eld	er and Avery.	_				
Upsher County Gilmer Colfax Diana	04 04 04	1812CST 1812CST 1815CST	0 0 0	0 0 0	4 ? 4	?	Thunderstorm Winds Funnel Cloud Thunderstorm Winds
	Stro	ong winds downed several trees	onto j	power	lines a	ınd re	sidences at both Gilmer and Diana.
Cherokee County Jacksonville	04	1825CST	0	0	3	?	Thunderstorm Winds
	In J	acksonville, strong winds blew	down	severa	al trees	S.	
Morris County Lone Star Daingerfield Omaha Naples	04 04 04 04	1830CST 1830CST 1830CST 1830CST	0 0 0 0	0 0 0	3 3 3 3	????	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
`	A d	ownburst blew down several tree	s ont	o pow	er line	s at L	one Star, Daingerfield, Omaha, and
_	Nap	oles.					
Gregg County Longview 1 S East Mountain 4 N Longivew	04 04 04	1840CST 1855CST 1859CST	0	0 0 0	? 3 3	?	Thunderstorm Winds (G52) Thunderstorm Winds Thunderstorm Winds
Longview 10 N Longview	04 04	1900CST 1921CST	0	0 -	3	?	Hail (1.75) Thunderstorm Winds Thunderstorm Winds

Strong winds uprooted several trees 1 mile south of East Mountain, 4 miles north of Longview, at Longview, and 10 miles north of Longview.

Hughes Springs Hughes Springs Hughes Springs 7 S Maud 5 N Lassater	04 04 04 04 04 04 04	1849CST 1849CST 1903CST 1914CST 1915CST 1921CST 1955CST		0 0 0 0 0 0	0 0 0 0 0 0	3 3 ? 3 ? 3 ? 3	?????????	Thunderstorm Winds Thunderstorm Winds Hail (1.00) Thunderstorm Winds (G62) Hail (1.00) Thunderstorm Winds Thunderstorm Winds
--	--	---	--	-------------	----------------------------	--------------------------------------	-----------	--

Strong winds blew down several trees at Avenger, at Hughes Springs at 1949 CST and 1914 CST, and 5 miles north of Lassater. One-inch hail was observed at Lake Wright Patman (7 miles south of Maud), while a downburst damaged several boat houses and trees at Lake Wright Patman Dam (7 miles southeast of Redwater).

Bowie County				
DeKalb	04 1850CST	0 0 3	3 ?	Thunderstorm Winds (G65)
4 S Maud	04 . 1915CST	0 0 ?	? ?	Hail (1.00)
7 SE Redwater	04 1955CST	0 0 4	4 ?	Thunderstorm Winds

Strong 75-mph winds blew down trees and street signs, and blew the windows out of several businesses.

Upshur County
East Mountain 04 1855CST 0 0 3 ? Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	AATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OHWC.WI	PROPERTY	CECEN	CHARACTER OF STORM

#### TEXAS, Northern Cont'd

Strong winds blew down several trees.

Strong winds blew down several trees at Harleton, 2 miles north of Harleton, and at Crossroads (6 miles northwest of Elysian Fields)

Rusk County 8 NW Henderson Henderson		1912CST 1920CST	0	0	3	?	Thunderstorm Winds Thunderstorm Winds
1101100.0011	• •	1720001	•	•		•	Indiadibioin (Thiab

Strong winds blew down numerous trees 8 miles northwest of Henderson and damaged the roof of a business at Henderson.

Marion County 3 NW Lassater 5 NE Jefferson		1921CST 2000CST	0	0	3	?	Thunderstorm Winds Thunderstorm Winds
2 IAT ACTIONS	V-1	2000001	U	U	,	•	indidension winds

Strong winds blew down several trees 3 miles northwest of Lassater, and 5 miles northeast of Jefferson.

Cass County
Linden 04 1900CST 0 0 4 ?

**04** 1900CST 0 0 4 ? Thunderstorm Winds

Strong winds blew down several trees, utility poles, and power lines.

Rusk County

Henderson 04 1900CST 0 0 3 ? Thunderstorm Winds

Strong winds blew down several trees.

Bowie and Cass 04 2130CST-Counties 05 0030CST 0 0 0 ? ? Flash Flood

Heavy rains resulted in the flash flooding of several creeks, low-lying areas, and roadways.

 Panola County
 05
 1955CST
 0
 0
 ?
 ?
 Thunderstorm Winds

 Panola
 05
 1955CST
 0
 0
 ?
 ?
 Hail (1.00)

A downburst downed numerous trees 2 miles south of DeBerry.

 Bell County

 Temple
 07
 1930CST
 0
 ?
 ?
 Hail (0.75)

 Salado
 07
 1930CST
 0
 0
 5
 ?
 Thunderstorm Winds

 Countywide
 07
 1930CST 2330CST
 0
 ?
 ?
 Flash Flood

Strong winds overturned a tractor-semitrailer, destroyed a storage shed, and blew down fences and street signs. Heavy rains of approximately 5.00 inches, in less than 1 hour, produced flash flooding of several roadways in Bell County. Interstate 35 from Salado to the Bell County line was closed for several hours as numerous automobiles were washed off the roadway. Several feet of water overflowed from the Mill Creek onto low-lying areas and low-water crossings.

		TIME			NO. PER	OF SONS	ESTIN DAMA	MATED NGE	
PLACE	D A I E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIND	OMWCLZH	~	CœOps	CHARACTER OF STORM

	<del></del>		1	-L1			
TEXAS, Norther	n Co	ont'd					
Eastland County Cisco Eastland Cherokee County	07 07 08	2238CST 2250CST 1825CST- 2100CST	0 0	0 0 0	??	? ? ?	Hail (0.75) Thunderstorm Winds (G50) Flash Flood
	Hig of S	ch water produced flash flooding State Highway 69.	over	severa	ıl seco	ndary 1	roadways and resulted in the closing
McLennan County Waco Waco Countywide	13 13 14	1806CST 1809CST 1430CST- 1700CST	0 0	0 0	??	???	Hail (1.50) Hail (1.75) Flash Flood
•	floo	eral creeks and streams overflo	-Mar	ket Ro	banks ads 44	12 and	roadways where several cars were 3047 were closed when high water,
Tarrant County	14	1530CST- 1800CST	0	0	?	?	Flash Flood
	Hea	avy rains produced high water, u	ıp to	1 foot	deep,	across	s isolated roadways.
Coleman County Coleman	16	0615CST	0	0	5	?	Thunderstorm Winds
	Stro dan	ong winds destroyed a carport, anaged several businesses, and bla	overte ew do	urned own la	a sma rge tre	ll airpl e limb	ane, lifted the roof off a building, s and utility poles.
Comanche County Comanche	16	0720CST	0	0	?	?	Hail (1.00)
2 S Comanche	16	0730CST	0	1	4	?	Thunderstorm Winds
		ong winds blew down a cinder lding.	block	wall	at a c	onstru	ction site and lifted the roof off a
Brown County Brownwood Bangs Early	16 16 16	1017CST 1030CST 1030CST	0 0 0	0 0 0	3 3 3	???	Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds
	Stro	ong winds blew down several tre vnburst uprooted trees in Bangs,	es, a and	flag p	oole, a low <b>n</b> p	nd doo	ors of buildings in Brownwood. A lines in Early.
Angelina County 5 W Lufkin Lufkin	16 16	1700CST 1700CST	0	0	?	?	Hail (1.75) Thunderstorm Winds
	A d	lownburst blew down several tre	es.				
Cherokee County Rusk	17	0815CST- 1000CST	0	0	<b>?</b> -	?	Flash Flood
	Hig	h water was observed over State	High	hway (	69 in 1	Rusk.	
Anderson County	17	1000CST- 1400CST	0	0	?	?	Flash Flood

MAY 1991

		TIME			NO. PERS	OF SONS	ESTIN DAMA	MATED NGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLUD	משמכרבּה	~HXMTODE	CECOON	CHARACTER OF STORM

		L					Y		
TEXAS, Norther	n Co	ont'd							
	Hig	gh water wa	s observed	l over seve	eral ro	padway	ys and	low-ly	ying areas.
Jones County 2 W Hamlin Boyds Chapel	17 17	1645CST 1655CST			0	0	?	?	Hail (1.75) Hail (1.75)
Hood County 8 N Granbury	22	1215CST			0	0	?	?	Funnel Cloud
Wise County Bridgport	24	1445CST- 1530CST	-		0	0	?	. ?	Flash Flood
	Hea	avy rains re	sulted in t	he flash flo	oodin	g of s	everal	roadw	ays and automobile.
Denton County Denton	24	1615CST- 1900CST	-		0	0	?	?	Flash Flood
	Hea	avy rains re	sulted in th	e flash flo	oding	of sev	eral r	oadwa	ys, low-water crossings, and creeks.
Tarrant County Eagle Mountain Lake	24	1645CST			0	0	?	?	Hail (0.75)
Countywide	24	1745CST- 1930CST	-		0	0	?	?	Flash Flood
	Hig	gh water wa	s observed	l over seve	ral ro	adway	ys, lov	v-wate	r crossings, and creeks.
Young County 1 N Graham Hill County	24	1700CST			0	0	?	?	Hail (0.75)
Hillsboro Archer County	24	1707CST		•	0	0	?	?	Hail (0.75)
5 NE Archer City 1 E Holliday Wichita County	24 24	1830CST 1847CST			0	0	?	?	Hail (0.75) Hail (0.75)
Wichita Falls 6 W Burkburnett Dallas County	24 24	1850CST 1932CST			0	0	?	?	Hail (1.00) Hail (1.75)
Mesquite Garland	24 24	1911CST 1920CST			0	0	?	?	Thunderstorm Winds (G52) Thunderstorm Winds
	Stro	ong winds b	olew down	large tree	limbs	s onto	powe	r lines	in Garland.
Rockwall County 10 NE Rockwell	24	1930CST			0	0	3	?	Thunderstorm Winds
•	Stro	ong winds b	olew down	several tre	ees an	d pow	er lin	es.	
Hopkins County Sulphur Springs Sulphur Springs Sulphur Springs	24 24 24	2034CST 2040CST 2055CST			0 0 0	0 0 0	3 ? ?	?	Thunderstorm Winds Thunderstorm Winds (G50) Thunderstorm Winds (G52)
	A d	lownburst b	lew down	a few tree	s in S	alphu	r Spri	ngs at	2034 CST.
Franklin County 5 N Mount Vernon	24	2105CST			0	0	3	?	Thunderstorm Winds

A downburst blew down several trees.

MAY 1991

									HOT 1771
		TIME			NO. PER	OF SONS	EST IN	ATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	Omaccz-	<b>₩</b>	CKOTN	CHARACTER STORM
TEXAS, Souther	n								
Bexar and Wilson Counties Graytown	01	2240CST			0	0	?	?	Hail (2.75)
		seball-size h s reported.	ail was rep	oorted in C	Grayto	own,	on the	Bexar	-Wilson County line but no damage
Uvalde County Concan	02	1313CST			0	0	3	?	Hail (1.75)
	Go	lf ball-size l	hail was re	ported in t	the to	wn o	f Conc	an wh	ere several cars were damaged.
Bandera County Southern Portion	02	1510CST			0	0	?	?	Hail (1.75)
	The	e county she	riff's offic	e reported	up to	golf b	all-size	e hail i	n the southern portion of the county.
Kendall County 5 SE Boerne	02	1620CST			0	0	4	?	Hail (1.75)
	Co	e Kendall Co unty line. I king lot.	ounty Sher Hail damag	iff's Office ged a numb	e repo per of	rted g vehi	golf bal cles at	ll-size the A	hail on Interstate 10, near the Bexar neir GMC Trucks and Motor Home
Bandera County 5 SW Pipe Creek	02	1645CST			0	0	3	?	Hail (2.75)
	A l wir	ham radio o idows out o	perator reg	ported base, and dest	eball- royed	size l l his p	nail nea blastic	ar Pip rain g	e Creek that broke the living room auge.
Angelina County 8 E Lufkin Southern Portion	03 03	0650CST 0650CST			0	0	3?	?	Thunderstorm Winds Hail (1.00)
	Lui	e Angelina ( fkin, and or ntington.	County Sh 1 Highway	eriff's Off 103. On	ice re e-incl	porte h hail	d trees was r	down eporte	ned on county roads 8 miles east of d in Diboll, east of Lufkin, and in
Medina County Lake Medina	03	0925CST			0	0	?	?	Hail (1.75)
	Go	lf ball-size l	nail was re	ported by	the co	ounty	sheriff	f near	Lake Medina.
Bexar County Western Portion	03	1009CST			0	0	?	?	Hail (0.75)

San Antonio	U3	1100C51	U	U	2	?	Hail (1./5)
Helotes	03	1108CST	0	0	4	?	Hall (1.75) Flash Flood
San Antonio	03	1118CST	0	0	4	?	Thunderstorm Winds (G66)
Universal City	03	1130CST	0	0	4	?	Hail (1.00)
Schertz	03	1130CST	0	0	5	?	Hail (2.50)
Guadalupe County							(2007)
Marion	03	1145CST	0	0	?	?	Hail (4.50) Hail (0.75)
Cibolo	03	1154CST	0	0	?	?	Hail (0.75)
Gonzales County							` '
Gonzales	03	1215CST	0	0	4	?	Thunderstorm Winds (G60)

Bexar County

A severe thunderstorm moved from Medina to Bexar County, and produced dime-size hail near the county line.

MAY 1991

		TIME			NO. PER	OF SONS	EST II	ATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	סששכניבי	P.R.Op. W.T.Y	CROPS	CHARACTER OF STORM

### TEXAS, Southern Cont'd

A severe thunderstorm moved into western Bexar County just before noon and rapidly intensified. Golf ball-size hail was reported in the Hollywood Park area as the storm passed over. Up to 2.00 inches of rain fell over northwestern Bexar County in less than 1 hour. Flooding was reported in the Helotes area for several hours. As the storm continued to move across the county, wind speeds over 58 mph were estimated. One gust to 66 mph, was recorded at the San Antonio International Airport. Several windows were blown out of apartments in a complex on Patricia Street in San Antonio, and trees were downed in the northern area of the Colonies. Several roofs were damaged, and windows broken by hail, as the storm moved through the High Country subdivision in northeastern San Antonio. The storm continued to move to the east while producing large hail. Up to softball-size hail was reported in Marion. The storm began to die out over Gonzales County but still produced wind gusts to 60 mph, which damaged several trees in the town of Gonzales.

Webb	County
Lare	do

03 1612CST

0 0

Hail (1.00)

?

?

Quarter-size hail was reported over the southern side of Laredo.

Nacogdoches County

Countywide Countywide

03 1957CST 03 1957CST

 $\begin{array}{cccc} 0 & 0 & 4 \\ 0 & 0 & 2 \end{array}$ 

Thunderstorm Winds

Flash Flood

The Nacogdoches County Sheriff's Office reported several roads closed across the county because of fallen trees. Highway 21, east and west through the county, was closed due to flooding.

San Augustine County

San Augustine

03 2055CST

0 0 4

Thunderstorm Winds

San Augustine County Sheriff's Office reported several trees and power lines down in the town of San Augustine.

Blanco County Blanco Bexar County Helotes Grey Forest

04 1415CST04 1516CST

1518CST

04

0 0 ?

Hail (0.75)

0 0 ? ? Hail (2.50) 0 0 ? ? Hail (1.50)

A severe thunderstorm moved into northwestern Bexar County and produced up to tennis ball-size hail in Helotes. At Grey Forest, walnut-size hail was reported.

Travis County S Austin

04 1625CST

0 4

? Thunderstorm Winds

A part of a roof was blown off a house, and trees were uprooted in southern Austin.

Guadalupe County McQueeny Seguin

04 1640CST 04 1650CST  $\begin{array}{cccc}
0 & 0 & ? \\
0 & 0 & ?
\end{array}$ 

Hail (1.75) Hail (2.50)

As the severe thunderstorm moved into Guadalupe County from Bexar County, it produced golf ball-size hail in McQueeny, and tennis ball-size hail in Seguin.

Gonzales County Belmont

04 1725CST

0 0 ?

? Hail (1.25)

The Gonzales County Sheriff's Office reported half dollar-size hail in Belmont.

MAY 1991

Thunderstorm Winds Thunderstorm Winds

		TIME			NO. PER	OF SONS	ESTI!	MATED NGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	משאטניא	ት አርስ ተመመተት	טאסטיי	CHARACTER OF STORM

### TEXAS, Southern Cont'd

Bastrop County							
Southern Portion	04	1730CST	0	0	4	?	
Alum Creek	04	1735CST	0	0	4	?	

Several trees and power lines were downed across southern Bastrop County. In the town of Alum Creek, several trees were uprooted.

Lavaca County Eastern Portion 9 SW Shiner

04 1818CST 04 1818CST Tomado (F1) Hail (1.75) 5.0

A rainfall observer reported a tornado and golf ball-size hail south of Shiner. The tornado A rainfail observer reported a tornado and gorf ball-size half south of Sinher. The tornado dropped down, and lifted again, several times as it moved across the county, resulting in only spotty damage. The tornado first touched down I mile north of Yoakum, and extended to I mile south of Sweet Home, which was the last damage area. The path length was estimated to be about 5 miles long. The tornado was only 30 yards wide at its maximum. The most extensive damage was 2 miles northeast of Yoakum. A mobile home and travel trailer were completely destroyed, and several trees were uprooted. One house south of the town of Sweet Home had its roof torn away.

Washington County 2 N Burton 10 W Brenham Brenham

04	1831CST	0	0	?	?	Tornado (F0)
04	1834CST	0	0	?	?	Tornado (F0)
04	1903CST	0	0	?	?	Tornado (F0)

The Washington County Sheriff's Office reported a tornado 4 miles south of Lake Someville. About 3 minutes later, the Sheriff's office reported a tornado west of Brenham. These tornados touched down and lifted back up without doing any damage. A half hour later, the Brenham Police Department reported a tornado in town. The tornado lifted off the ground without doing any damage.

Waller County Northern Portion

04 1952CST 0 Hail (0.75)

Dime-size hail was reported over northern Waller County, about 6 miles north of Prairie View.

Angelina County Angelina County Airport

2000CST Tornado (F0)

The Angelina County Sheriff's Office reported a tornado touching down at the county airport and lifting back into the clouds.

Wharton County Countywide Pierce 2 El Campo

04 04	2030CST 2030CST	0	0	?	?	Hail (1.75) Thunderstorm Winds (G91)
04	2030CST	0	0	5	?	Tornado (F1)

A severe thunderstorm moved across Wharton County, producing golf ball-size hail, and at least one tornado. The major damage was in the town of El Campo, where three mobile homes were completely destroyed. The hospital and adjacent clinic received heavy damage, several windows were blown out, and the roof was removed from the clinic. Several homes had roof and fence damage, and scores of trees were uprooted. Power lines were downed across the county. At the Department of Public Safety Office in Pierce, wind speeds of 90 mph, and gust to 105 mph were reported. The total damage estimate was over \$1.5 million.

Montgomery County
5 SE Conroe
5 SE Conroe

2200CST 2205CST Tornado (F0) Tornado (F0)

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLLED	OMWC-12	ערשטטיוושר≻	CEOTO	CHARACTER OF STORM

### TEXAS, Southern Cont'd

Two tornados were reported near Farm-to-Market Road 1314, southeast of Conroe; no damage was reported.

Brazoria County W Columbia W Columbia

04 2205CST 04 2205CST  $\begin{array}{cccc} 0 & 0 & 3 \\ 0 & 0 & 3 \end{array}$ 

Tornado (F0) Tornado (F0)

Two tornadoes were reported in the town of West Columbia. Several trees were uprooted, and a mobile home had its roof ripped off.

Montgomery County Magnolia Galveston County Galveston Galveston

04 2250CST

0 0 ?

Hail (0.75)

04 2315CST 04 2330CST 0 ? ? 0 5 ? Hail (1.75) Thunderstorm Winds (G69)

Dime- to golf ball-size hail was reported on the western end of Galveston Island. Thunderstorm winds were estimated to be gusting near 80 mph. These winds caused several trees to be uprooted, and broke 38 wooden power poles, and then left a part of the island without power for 2 hours.

Orange County Bridge City

05 0215CST

0 0

? Hail (1.75)

The Orange County Sheriff's Office reported golf ball-size hail in the town of Bridge City.

Starr County Rio Grande City

05 0230CST

0 0

? Thunderstorm Winds

Thunderstorm winds destroyed a mobile home, and a few homes sustained roof damage.

Starr County Roma Starr County Rio Grande City La Grulla

05 0303CST 05 0330CST 05 0340CST 0 0

? Hail (1.75)

Hail (1.75) Thunderstorm Winds

Thunderstorm winds severely damaged a home in La Grulla; no injuries were reported.

Hidalgo County McCook McCook

05 0650CST 05 0655CST  $\begin{smallmatrix}0&&0\\0&&0\end{smallmatrix}$ 

?

Hail (1.75) Thunderstorm Winds (G58)

Golf ball-size hail was reported in the town of McCook, with wind gusts to 67 mph.

Starr County La Victoria

05 0700CST

1.0

200

0 0

5

Tornado (F2)

A tornado cut a mile-long path through the village of La Victoria. The path was 200 yards wide at its maximum. Over 40 mobile homes, houses, and barns were damaged, or destroyed. Power lines were downed for several hours and numerous trees were uprooted.

Hidalgo County Mission 6 N Mission

05 0840CST 05 0852CST  $\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$ 

? ?

Hail (1.75) Tornado (F1)

The Mission Police Department reported a tornado 6 miles north of Mission. Roofs were torn off several buildings, and power lines were knocked down. Golf ball-size hail was also reported in the town of Mission.

MAY 1991

		TIME	=		NO. PERS	OF SONS	ESTIN DAMA	MATED NGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L L	שאטטשט	~~~~~	CEOPO	CHARACTER OF STORM

TEXAS, Southern	n Co	ont'd							
Willacy County Port Mansfield	05	1210CST			0	0	?	?	Thunderstorm Winds (G53)
	A 6	1-mph wind	gust was re	ecorded	at Po	rt Mar	rsfield	•	
Cameron County Harlingen	05	1345CST			0	0	?	?	Thunderstorm Winds (G59)
	Αv	vind gust to 6	9 mph was	s recorde	ed in	Harlin	igen.		
San Patricio County 5 SE Mathis	05	1400CST			0	0	?	?	Tornado (F0)
	The of !	county sheri Mathis. No d	ff's office amage was	reported s reporte	a to	mado m this	touchi storm	ng dov	vn five miles southeast of the town
Galveston County Clear Lake Shores Galveston Bay	07 07	1320CST 1330CST	?	?	0	0	4 ?	?	Thunderstorm Winds Waterspout
	Sev rem a w	ere thundersto oved, a few o aterspout abo	orm winds chimneys o ut 10 minu	s damage collapsed ites later	ed 5 , and , off	homes severa the Sa	in thal win	e Clea dows v n point	r Lake area. Parts of roofs were broken. This storm produced
Harris County SW Houston	08	1100CST- 1400CST			0	0	?	?	Flash Flood
	Hea floo	vy rains from ding subsided	thunderstollabout 3 h	orms cau nours late	sed fl er.	ash flo	ooding	in the	southwestern part of Houston. The
Iim Wells County Orange Grove	08	1110CST			0	0	?	?	Thunderstorm Winds (G56)
	The	Navy landing	g field at (	Orange C	Grove	recore	ded a	wind g	ust to 65 mph.
Harris County Houston	08	1115CST	0.1	4	0	0	3	?	Tornado (F0)
-	A to brol mpl	ken off, and s	ghted in th ome signs	e southw were da	ester mage	n part L. To	of the rnado	city of wind s	f Houston. Several tree limbs were peeds were estimated to be near 60
Nueces County Corpus Christi Naval Air Station	08 08	1150CST 1200CST			0	0	3 ?	?	Thunderstorm Winds Thunderstorm Winds (G54)
	the	Corpus Chris midtown area val Air Station	of Corpus	Departme Christi.	ent re A w	ported and gu	sever st to 6	al trees 2 mph	uprooted and large limbs down in was recorded at the Corpus Christ
Nueces County Corpus Christi	08	1225CST			0	0	4	?	Thunderstorm Winds
Kleberg County Padre Island	08	1232CST			0	0	?	?	Thunderstorm Winds (G60)
	The	police departs	ment in Co	rpus Chi	risti re	eportec	d powe	r lines	downed, and several trees uprooted

in the southern part of town. A lightning strike at a refinery storage tank caused a fire. In Kleberg County, a wind gust to 69 mph was recorded at the Padre Island National Seashore.

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	MATED AGE	
PLACE	DATE	LOCAL	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	-270cH0	PROPURTY	CROPN	CHARACTER OF STORM

TEXAS, Southern	ı Co	ont'd											
Val Verde County Comstock	11	1855CST		0	0	4	?	Thunderstorm Winds (G52) Hail (0.75)					
	The be 6	The Val Verde County Sheriff's Office reported dime-size hail and estimated the wind spee be 60 mph. One house had its roof blown off, and one wall blown out.											
Val Verde County 9 SSW Juno	12	2315CST		0	0	3	?	Thunderstorm Winds (G69)					
	Tree limbs up to 12 inches in diameter were broken off, and wind speeds were estimated to be near 80 mph.												
Hidalgo County Edinburg	14	0300CST		0	0	4	?	Thunderstorm Winds					
	stor	ne of severe thunderstorms ms destroyed two mobile nburg area.	s passed homes	d thro , and	ough H knoc	lidalgo ked do	o Coun	ty in the early morning hours. The veral trees and utility poles in the					
Orange County Bridge City Jefferson County	14	2255CST		0	0	?	?	Flash Flood					
Port Arthur	14 15	2257CST- 0200CST	·	0	0	?	?	Flash Flood					
	Ove Hig floo Gul subs	er 4.00 inches of rain fell in the hway Department reported ded within Bridge City. The prive underpass, and inches by 0300 CDT on the	in Jeffe water The Po d seve e 15th.	erson over rt Art ral st	and O Highw thur Po reets f	range /ay 87 olice I floode	Counti , near E Departn d in Po	es during the evening. The Texas Bridge City, and several other roads nent reported 6 feet of water in the ort Arthur. Most of this flooding					
Jefferson County Southeastern	15	1340CST		0	0	?	?	Flash Flood					
Portion	Parl und	k rangers from Sea Rim St er 10 inches of water. Th	ate Par e floor	rk, re ding o	ported contin	l High ued fo	way 87 r sever	from Sabine Pass to High Island, al hours.					
Harris County Baytown	15	1520CST		0	0	3	?	Thunderstorm Winds					
	Pow with	ver lines were knocked dov n this storm.	vn alon	ig Int	erstate	10 ne	ar Bayt	own. Small hail was also reported					
Bexar County 13 SW San	16	1255CST		0	0	?	?	Hail (0.88)					
Antonio 13 W San Antonio 12 SE San Antonio 15 SW San	16 16 16	1300CST 1310CST 1320CST		0 0 0	0 0 0	? ? ?	?	Hail (1.75) Hail (1.75) Hail (1.75)					
Antonio 10 S San Antonio	16	1325CST		0	0	?	?	Hail (1.75)					
		nerous reports of large haveen 1300 CST and 1330						er Service Office in San Antonio, d from this storm.					

between 1300 CST and 1330 CST. No damage was reported from this storm.

Guadalupe County 10 E Seguin	16	1325CST	0	0	?	?	Hail (1.75)
Montgomery County Conroe	16	1450CST	0	0	?	?	Hail (0.75)

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLL	OMBC LE	4-120m202030	CROPA	CHARACTER OF STORM

	E		(MILES)	(YARDS)	6	D	P.H.O.	s	STURM
TEXAS, Souther	rn Co	ont'd							
	Dir	ne-size hail	was repor	ted in the	south	ern p	art of	Conro	<del>.</del>
Austin County	16	1513CST			0	0	?	?	Hail (0.75)
Dewitt County Cuero	16	1515CST			0	0	3	?	Thunderstorm Winds
	The	e Dewitt Co tern and we	ounty Sheri stern sides	ff's Office of Cuero.	repo	orted 1	large ti	rees up	rooted and large limbs down on the
Harris County Tomball	16	1530CST			0	0	3	?	Thunderstorm Winds
	Thu Tor	ınderstorm nball.	winds ble	w down a	chu	rch st	teeple	and to	ppled several trees in the town of
Angelina County 5 W Lufkin	16	1700CST			0	0	?	?	Hail (1.75)
	Gol	lf ball-size l	hail was re	ported at 1	Peave	y Sw	itch, 5	miles	west of Lufkin.
Tyler County Chester	16	1810CST			0	0	3	?	Thunderstorm Winds
	The	Tyler Cou	nty Sherif	s Office	repor	ted tr	ees do	wned n	near Chester.
Starr County Rio Grande City	16	2039CST			0	0	?	?	Thunderstorm Winds (G55)
	The	e Aerostat s	ite north o	f Rio Gran	ide C	City, r	eporte	d a wir	nd gust to 63 mph.
Bexar County San Antonio	18	1825CST			0	0	?	?	Hail (0.88)
	Nic	kel-size hai	l was repo	rted in the	wes	tern p	art of	San Ai	ntonio.
Aransas County Aransas Bay	25	1145CST	?	?	0	0	?	?	Waterspout
	Sev Safe	eral waterspety.	outs were	reported in	Ara	nsas E	Bay eas	t of Ro	ockport, by the Department of Public
TEXAS, Western	n								
Concho County 4 N Paint Rock	02	1255CST			0	0	2	1	Hail (1.75)
	A s dan	potter repor age was no	ted golf ba oted.	ll-size hail	near	the co	mmun	ity of (	Concho at 1255 CST. No significant
Fisher County Longworth McCaulley Roby	02 02 02	1325CST 1338CST 1338CST	0.7 0.6	75 50	0 0	0 1 0	2 4 2	2 2 2	Tornado (F0) Tornado (F1) Hail (1.75)
	A to	ornado was	reported n	ear Longw	orth	at 13	25 CS	T, with	n no significant damage noted. The

A tornado was reported near Longworth at 1325 CST, with no significant damage noted. The Texas Department of Public Safety reported a tornado near McCaulley at 1338 CST. This tornado damaged two buildings, downed two power poles and one person received minor injuries. Golf ball-size hail was reported near Roby by the Department of Public Safety.

MAY 1991

		TIME			NO.	OF SONS	EST 11 DAM	AATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L LED	T NOCE OF THE PROPERTY OF THE	P.ROP.LIBO-Y	COCOEN	CHARACTER STORM

## TEXAS, Western Cont'd

TEXAS, Western	Co	nt'd								
Scurry County Snyder	02	1430CST		•	0	0	1	1	Hail (1.75)	
	Gol	f ball-size hai	il fell at Sn	ıyder wit	h no	signif	ficant o	lamago	e observed.	
Lubbock County Reese Air Force Base	02	1508CST			0	0	1	1	Thunderstorm Winds (G52)	
Lubbock WSFO Lubbock		1553CST 1555CST			0	0	1 2	1	Hail (1.00) Hail (0.75)	
	The weather observer at Reese Air Force Base, reported wind gusts to 61 mph at 15 Quarter-size hail fell at Lubbock International Airport at 1553 CST. Two minutes public reported dime-size hail in Lubbock. No significant damage resulted.									
Fisher County Roby	02	1515CST			0	0	1	1	Hail (1.75)	
·	Gol	f ball-size hai	il fell near	Roby.	No si	gnific	ant da	mage 1	resulted.	
Hartley County Hartley Sherman County	02	1515CST			0	0	0	0	Hail (0.75)	
Stratford Stratford	02 02	1526CST 1546CST			0	0	0	0	Hail (1.00) Hail (0.88)	
	qua	e public report rter-size hail atford. No da	in Stratto	rd at 15	26 C	ST.	1515 Twen	CST. ty mir	Law enforcement officials observed nutes later, nickel-size hail fell in	
Sutton County 8 W Sonora 8 W Sonora 2 W Sonora	02 02 02	1728CST 1750CST 1800CST	0.8	75	0 0 0	0 0 0	0 2 2	0 1 1	Hail (0.75) Tornado (F1) Hail (1.75)	
	175 ball	e Sutton Count 0 CST, a ton 1-size hail fell hail.	ty Sheriff nado was i 2 miles w	s Office reported est of So	obse by th nora	rved c ie sup . No	lime-si ervisor signifi	ze hai at So cant d	l west of Sonora at 1728 CST. At mora Caverns. At 1800 CST, golf amage resulted from the tornado or	
Hartley County 4 ESE Hartley	02	1740CST			0	0	0	0	Hail (0.88)	
		SKYWARN s erved.	potter repo	orted nic	kel-si	ze ha	il near	Hartl	ey at 1740 CST. No damage was	
Runnels County 7 SE Ballinger	03	1215CST	0.7	70	0	0	0	0	Tornado (F0)	
		Runnels Cou damage resul		f's Office	е гер	orted	a torna	do in	the southeastern part of the county.	
Runnels County Winters Winters	04 04	1155CST 1209CST	0.8	80	0	0	3 0	2 0	Hail (4.50) Tornado (F0)	
	The	Winters Poli	ce Denartm	nent reno	rtad 1	in to s	ofthall	-cize l	nail in Winters at 1155 CST Minor	

The Winters Police Department reported up to softball-size hail in Winters at 1155 CST. Minor damage to windows and automobiles was noted. A tornado was reported east of Lake Winters at 1209 CST. The tornado was over open country and no damage resulted.

MAY 1991

		TIME			NO. PERS	OF SONS	EST IN	ATED AGE	
PLACE	DA TE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	CITI-I-MO	OMBCCZ∼	<b>√-ю</b> тоОхо	COCOAN	CHARACTER OF STORM

TEXAS, Western Cont'd

Castro	County
Dimo	nitt ´
Dima	nitt

07 1543CST 07 1549CST 0 0 1 1 Hail (1.75) 0 0 0 0 Hail (0.75)

Golf ball-size hail fell in Dimmitt at 1543 CST and dime-size hail was reported 6 minutes later. No significant damage was observed.

Lubbock County 4 W Shallowater

Lubbock and Hale Counties 7 E Anton

1612CST 3.5 80 0 0 1 1 Tornado (F0)		1604CST- 1612CST	3.5	80	0	0	1	1	Tornado (F0)
-------------------------------------	--	---------------------	-----	----	---	---	---	---	--------------

07 1608CST-1614CST 2.6 60 0 0 0 Tornado (F0)

The Department of Public Safety observed a tornado in northwestern Lubbock County. The tornado touched down at 1604 CST, 4 miles west of Shallowater. The tornado moved slowly northeastward, lifting 3 miles north of Shallowater at 1612 CST. A spotter observed a second tornado 7 miles east of Anton, just south of the community of County Line. The second tornado moved into southwestern Hale County before dissipating at 1614 CST. Both tornadoes were low-energy, "landspout" type tornadoes, and no significant damage was reported.

<b>Dawson County</b>
3 S Lamesa
7 S Lamesa
12 SE Lamesa
8 S Lamesa
14 S Lamesa
2 N Ackerly

07 07 07	1705CST 1713CST 1714CST	2.2	100	0	0	0 0 3	0 0 2	Hail (1.00) Hail (1.00) Tornado (F0)
Ŏ7	1721CST	2.2	100	ŏ	ŏ	3	3	Hail (1.75)
07	1721CST	1.2	8.0	0	0	0	0	Tornado (F0)
07	1738CST	1.5	100	0	0	2	2	Tornado (F0)

A supercell developed over Dawson County and moved slowly southeastward. As the storm moved south of Lamesa, several reports were received from SKYWARN spotters and the Dawson County Sheriff's Office, of hail up to golf ball-size. The storm produced three tornadoes in Dawson County. Damage from these tornadoes consisted of uprooted trees, damaged irrigation equipment, and snapped power poles.

Lubbock County Idalou Crosby County Lorenzo

07 1738CST 0 0 2 1 Hail (1.75) 07 1749CST 0 0 2 2 Hail (2.50)

A SKYWARN spotter observed golf ball-size hail near Idalou at 1738 CST. Eleven minutes later, the Crosby County Sheriff's Office reported tennis ball-size hail in Lorenzo. Only minor damage was noted.

Floyd County 3 S Floydada Dougherty

07 1800CST 0 0 0 0 Hail (0.75) 07 1815CST 0 0 0 0 Hail (0.75)

The Floyd County Sheriff's Office reported dime-size hail south of Floydada and near Dougherty with no damage observed.

Martin County Ackerly 7 WSW Ackerly

0 0 0 Hail (1.00) 77 1825CST 3.5 120 0 0 5 4 Tornado (F2)

The Martin County Sheriff's Office reported quarter-size hail near Ackerly at 1811 CST. At 1825 CST, a tornado touched down 2 miles east-northeast of the Flower Grove Community. As the tornado moved eastward, 32 power poles were snapped, and a cotton gin, farm equipment,

MAY 1991

		TIME			NO.	OF SONS	EST II	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-400		~	COCOEN	CHARACTER STORM

### TEXAS, Western Cont'd

and other buildings were damaged. The tornado lifted at 1840 CST, 3 miles west-southwest of Ackerly.

**Borden County** 4 NE Ackerly

07 1821CST

0.5

**4**0

Tornado (F0)

The Martin County Sheriff's Office observed a tornado in extreme southwestern Borden County, but no damage was reported.

Crosby County Ralls

07 1818CST

0

Hail (4.50)

The Ralls Fire Department reported tennis ball- to softball-size hail in Ralls. Minor damage was done to automobiles and windows in Ralls.

3

**Howard County** Knott Knott

Vealmoor

1820CST 1846CST 1853CST 07 0.3 40 07

Tornado (F0) Hail (1.25) Hail (2.50) 0 0

A SKYWARN spotter reported a tornado just west of Knott at 1820 CST. Half dollar-size hail fell near Knott at 1846 CST. Tennis ball-size hail fell near Vealmoor at 1853 CST. The hail caused minor damage to windshields and roofs.

Lubbock County Lubbock WSFO 4 E Lubbock Ransom County

1912CST 1938CST Hail (1.50) 2 2 2 07 0.4 Tornado (F0) 2000CST 07 Hail (1.75)

Hail, slightly smaller than golf balls, fell across the northern side of Lubbock. Moderate damage was done to automobiles and roofs in the area. The Lubbock County Sheriff's Office observed a tornado just east of Lubbock at 1938 CST. At 2000 CST, golf ball-size hail fell at Ransom Canyon in eastern Lubbock County.

**Howard County** 6 N Coahoma 3 E Coahoma

1925CST 2030CST 07

Hail (1.75) Hail (1.75)

The Howard County Sheriff's Office reported golf ball-size hail north of Coahoma at 1925 CST. A SKYWARN spotter observed golf ball-size hail covering the ground to 3 inches in extreme eastern Howard County. Only minor damage was reported.

Childress County Tell

07 1930CST

0 3

0 Thunderstorm Winds

Downburst winds damaged tree limbs, windows, and destroyed a small building.

Mitchell County Westbrook 6 E Westbrook

2018CST 2051CST

The Department of Public Safety reported baseball-size hail near Westbrook at 2018 CST. At 2051 CST, golf ball-size hail fell near Lake Colorado City. Scattered, minor damage was reported from the hail.

Ward County

Pyote Pyote 10 Hail 10 0 Pyote Pyote 0

MAY 1991

	_	TIME			NO. PER:	OF SONS	ESTIN DAMA	IATED IGE	
PLACE	DAG-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL		~- <del></del>	COCODO	CHARACTER STORM

### TEXAS, Western Cont'd

2 N Monahans	10	1652CST	0	0	1	1	Hail (0.75)
3 E Monahans	10	1711CST	0	0	3	2	Hail (4.50)
Monahans	10	1724CST	0	0	5	3	Hail (2.75)
Wickett	10	1746CST	0	0	3	1	Thunderstorm Winds
Monahans	10	1819CST	0	0	2	. 1	Hail (1.75)
Monahans	10	1830CST	0	0	1	1	Hail (1.75)

Recurrent supercell thunderstorms over Ward County produced a swath of very large hail from Pyote to Monahans. Hail, up to cantaloupe size, was reported by SKYWARN spotters, the Ward County Sheriff's Office, and the public. Damage to roofs, windows, and windshields was extensive. Downburst winds damaged the roof of a grocery store in Wickett, according to the public.

Cochran	County
Lehmai	n ´
Morton	l

1640CST Hail (0.88) Hail (0.75) 10 1648CST

The public observed nickel-size hail near Lehman at 1640 CST. At 1648 CST, the Cochran County Sheriff's Office reported dime-size hail in Morton. No significant damage was noted.

### Oldham County Adrian

10 1655CST

0 Hail (0.75)

The Oldham County Sheriff's Office reported dime-size hail near Adrian. No damage was observed.

# Hartley County Channing

10 1701CST

0 Hail (1.75)

The Hartley County Sheriff's Office observed golf ball-size hail near Channing with no damage noted.

# Parmer County

2 E Lazbuddie	10	1/35CST- 1745CST	0.6	30	Λ	Λ	Λ	Λ	Torondo (FO)
2 NW Lazbuddie	10	1745CST	0.0	30	ŏ	ŏ	2	2	Tornado (F0) Hail (2.75)
Hub Parmer County	10	1812CST			0	0	2	1	Hail (2.75)
3 E Lazbuddie	10	1740CST			0	0	0	0	Hail (2.00)

Thunderstorms developed rapidly in the southwestern Panhandle along the same dryline which allowed thunderstorms to develop in the northwestern Panhandle earlier. SKYWARN spotters reported hen egg-size hail, in association with a storm, in southeastern Parmer County. No damage resulted.

# Castro County 2 W Flagg Flagg

1740CST Hail (1.00) Hail (0.88) 10 1745CST

A supercell, over eastern Parmer County, produced a weak tornado and baseball-size hail near Lazbuddie, according to SKYWARN spotters, the Department of Public Safety, and the Parmer County Sheriff's Office. As the storm moved into western Castro County, up to quarter-size hail was observed by a SKYWARN spotter west of Flagg. No significant damage resulted from the tornado or the hail.

Dallam County
Dalhart
Hartley County 5 S Dalbart
5 S Dalhart

10 1743CST 0 Hail (1.00) 1743CST 0 0 0 O Hail (1.00) 10

MAY 1991

		TIME			NO.	OF SONS	EST IN	ATED AGE	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	- AJDRHO		COCODA	CHARACTER OF STORM

## TEXAS, Western Cont'd

The Dalhart Police Department reported quarter-size hail near and south of Dalhart. No damage resulted.

Bailey County 4 S Needmore

10 1805CST

) 0 0 0 Hail (0.88)

The public reported nickel-size hail at the Muleshoe Wildlife Refuge with no resulting damage.

Hockley, Lamb, and Bailey Counties Pep	10	1810CST		•.	0	0	· ງ	1	Hail (0.88)
r sp	10	1010001			•	•	~	•	11411 (0.00)
1 N Pep to Bula	10	1822CST- 1856CST	8.5	450	0	0	5	3	Tornado (F3)
Lamb County									
8 SW Amherst	10	1912CST	1.5	80	0	0	2	1	Tornado (F0)
5 SW Amherst	10	1915CST	2.8	120	0	0	2	2	Tornado (F1)
3 E Earth	10	2019CST			0	0	0	Ó	Hail (0.88)
7 W Olton	10	2028CST	0.4	70	Ŏ	Ŏ	Ŏ	Ŏ	Tornado (F0)

A supercell developed over northern Hockley County, producing nickel-size hail in Pep at 1810 CST. At 1822 CST, SKYWARN spotters reported a tornado 1 mile north of Pep, in southwestern Lamb County. The tornado quickly evolved into a large, multiple-vortex tornado which was over 0.5 mile wide at its widest. Moving northwest, the tornado entered southeastern Bailey County southeast of Bula at 1845 CST. The tornado lifted just northwest of Bula at 1856 CST. Nearly 20 homes suffered damage; many of these experienced heavy damage. Two cotton gins in Bula were damaged but miraculously, no casualties were reported.

As the storm turned northeast and moved through Lamb County, spotters observed two tornadoes southwest of Amherst. The Lamb County Sheriff's Office reported nickel-size hail east of Earth and the Olton Fire Department observed a brief tornado west of Olton. The storm then weakened as it moved into Castro County.

Oldham County 4 W Adrian Hartley County	10	1820CST	٠.	0	. 0	2	2	Hail (2.25)
Hartley County 5 S Dalhart Dallam County	10	1833CST		0	0	1	1	Hail (1.75)
Dalhart Dalhart		1835CST 1838CST		0	0	2 1	1	Hail (1.75) Hail (1.25)

Thunderstorms in the northwestern Panhandle produced hail larger then hen eggs, west of Adrian. Golf ball-size hail fell near, and south of Dalhart. No significant damage was reported.

Parmer County
4 N Lazbuddie 10 1838CST 1.0 30 0 0 4 0 Tornado (F0)

A weak tornado (F0) was part of a family of tornadoes associated with a low precipitation supercell in southern Parmer County. The tornado damaged irrigation equipment as it moved across farmland.

Parmer County 4 N Lazbuddie	10	1838CST-							
		1841CST	1.0	30	0	Õ	4	3	Tornado (F0) Hail (2.75)
Lazbuddie 3 NW Lazbuddie	10 10	1840CST 1842CST-			0	0	2	U	Hail (2.75)
J IVW LAZDUNNIE	10	1852CST	3.0	100	0	1	5	4	Tornado (F2)
4 N Lazbuddie	10	1843CST	0.1	20	0	0	3	3	Tornado (F2) Tornado (F0)
4 N Lazbuddie	10	1848CST- 1852CST	0.5	60	0	0	4	3	Tomado (F1)

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAMA	MATED	
PLACE '	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED		<b>←-12007000</b> 00000	naoan	CHARACTER OF STORM
TEXAS, Western	Со	nt'd							
Castro County 6 W Flagg 2 SE Summerfield	10 10	1848CST 1910CST	0.1	20	0	0	0	0	Tornado (F0) Hail (1.00)
Parmer County Lazbuddie Bovina	10 10	1918CST 1935CST			0	0	0	0	Hail (1.75) Hail (0.88)

Another supercell developed in Parmer County. This storm produced a strong tornado which touched down at 1842 CST, 3 miles northwest of Lazbuddie. The tornado moved northeast then curved southwestward, lifting 4 miles north of Lazbuddie at 1852 CST. The tornado damaged two residences (one demolished), numerous fences, and field irrigation systems, and resulted in one injury. Several small (F0 to F1) tornadoes were observed rotating around the larger vortex at a distance of 0.25 mile. These smaller tornadoes also damaged fencing and irrigation systems. Nickel- to baseball-size hail accompanied the tornadoes.

Bailey County									
7 S Muleshoe	10	1840CST-							
		1850CST	1.2	100	0	0	2	1	Tornado (F1)
7 SE Muleshoe	10	1900CST-							` '
		1904CST	0.7	60	0	0	1	1	Tomado (F0)

The Bailey County Sheriff's Office reported that a storm over northern Bailey County, between the Pep/Bula storm and the Parmer County storm, produced two tornadoes south and southeast of Muleshoe. The tornadoes were over open country and no significant damage was observed.

Dallam County									
2 W Chambérlain	10	1920CST-			_	_	_	_	
		1940CST	5.0	160	- 0	0	- 3	3	Tomado (F1)
1 E Chamberlain	10	1925CST-							
		1928CST	0.2	40	0	0	2	0	Tornado (F0)

The Dalhart Police Department reported two tornadoes near the community of Chamberlain, which is 8 miles northeast of Dalhart. The first tornado touched down 2 miles west of Chamberlain at 1920 CST before moving northeast and lifting 7 miles north of Chamberlain at 1940 CST. The second tornado briefly touched down east of Chamberlain. The tornadoes damaged irrigation systems, outbuildings, power lines, and a tractor cab.

Ector County 6 S Goldsmith	10 1928CST	. 0	0	0	0	Hail (0.75)	
	A SKYWARN spot	ter reported dime-size	e hail a	at High	ways	302 and 866 with no noted dan	nage.

Randall County 15 NE Canyon 5 S Amarillo	10 10	2015CST 2143CST	0	0	0	0	Hail (1.75) Hail (0.75)
Armstrong County 10 SE Washburn Randall County	10	2200CST	0	0	0	0	Hail (0.75)
S Amarillo Carson County	10	2215CST	0	0	0	0	Hail (0.75)
Panhandle White Deer	10 10	2221CST 2250CST	0	0	0	0	Hail (0.88) Hail (0.88)

A thunderstorm complex, which was tracked across the central Panhandle, produced several reports of nickel- to dime-size hail. Golf ball-size hail fell in northeastern Randall County. No damage was noted with any of the hail events.

Ward County						
Ward County 2 W Pyote	11 1607CST	0	0	0	0	Hail (1.25)

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	AATED AGE	
PLACE	DAGTE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	ארוישט		<b>←-∞m™00×0</b> 0	CECOEN	CHARACTER OF STORM

TEXAS, Western Cont'd											
4 W Pyote	11	1608CST			0	0	0	0	Hail (1.75)		
	The	public repor	ted half do	llar- to g	olf b	all-siz	e hail	west of	Pyote. No damage was observed.		
Lamb County Olton	11	1720CST			0	0	0	0	Hail (0.88)		
	The	Olton Fire I	Department	reporte	d nick	cel-siz	e hail	in Olto	on; no damage was noted.		
Hale County 12 W Plainview Edmondson Lamb County	11 11	1754CST 1810CST			0	0	0 2	0	Hail (0.88) Hail (1.75)		
6 N Olton	11	1810CST			0	0	2	3	Hail (2.50)		
	An off-duty National Weather Service employee observed nickel-size hail west of Plainview. A SKYWARN spotter reported golf ball-size hail near Edmondson. A National Weather Service employee reported tennis ball-size hail north of Olton. No significant damage resulted.										
Castro County Nazareth Hart Nazareth Hart 5 SE Hart Hart	11 11 11 11 11	1800CST 1801CST 1820CST 1830CST 1847CST 1857CST	0.2	30	0 0 0 0 0	0 0 0 0 0	2 2 1 3 0	2 1 1 2 0 0	Hail (1.75) Hail (1.00) Hail (1.75) Hail (2.50) Tornado (F0) Hail (1.00)		
	A strong multicell storm moved over Castro County producing up to tennis ball-size hail, with minor damage noted to automobiles and roofs. SKYWARN spotters observed a tornado southeast of Hart over open country, and no damage was noted.										
Hockley County 4 S Levelland Levelland		1831CST 1850CST			0	0	2 3	1 2	Hail (1.75) Hail (1.75)		
	SKY mine	WARN spot or damage to	tters report automobil	ted golf les in the	ball-s area	ize ha	il in a	and sou	uth of Levelland. The hail caused		
Randall County SW Amarillo Potter County	11	1900CST			0	0	0	0	Hail (0.75)		
W Amarillo Randall County	11	1906CST			0	0	0	0	Hail (0.75)		
SW Amarillo	11	1910CST			0	0	0	0	Hail (0.75)		
		evere thunder	storm over	r Amaril	lo pro	duced	l dime	-size h	ail, but no damage was reported.		
Swisher County Kress	11	1917CST	0.2	30	0	0	0	0	Tornado (F0)		
Castro County 3 SE Hart	11	1930CST		•	0	0	0	0	Hail (2.50)		
	The Kress Emergency Operations Center reported a tornado near Kress. A cooperative observer reported tennis ball-size hail southeast of Hart. No damage resulted from the tornado or the hail.										
Randall County 15 SE Amarillo 15 SE Amarillo	11 11	1930CST 1945CST	0.1 0.2	30 30	0	0	0	0	Tornado (F0) Tornado (F0)		

MAY 1991

		TIME			NO.	OF SONS	EST IN	ATED	
PLACE	DA-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OMOC-Z-	~- <del>.xom.</del> 00:a.o	COCOEN	CHARACTER OF STORM

### TEXAS, Western Cont'd

A SKYWARN spotter observed two weak tornadoes over open country north of Palo Duro Canyon; no damage resulted.

Hockley County Oklahoma Flat

11 1935CST

0 0 3 2 Hail (1.75)

A SKYWARN spotter reported golf ball-size hail near the Oklahoma Flat community. Damage occurred to several automobile windshields in the area.

Lamb County
Olton
9 N Littlefield
Littlefield
3 W Littlefield

11 11 11	1940CST 1940CST 2000CST	0.2	20	0 0	0 0	2 1 3	1 1 2	Hail (2.00) Hail (1.75) Hail (1.75)
11	2005CST	0.3	30	0	0	0	0	Tornado (F0)

A severe multicell storm over Lamb County produced golf ball- to hen egg-size hail across the county. A SKYWARN spotter observed a brief tornado west of Littlefield at 2005 CST. The hail caused minor damage while no damage was reported with the tornado.

Swisher County 8 W Kress 10 W Kress	11 11	1950CST 1950CST			0	0	0	0	Hail (0.88) Thunderstorm Winds
Castro County Hart	11	2000CST			0	0	2	1	Flash Flood
Swisher County					_	_		_	
3 W Kress Tulia	11	2005CST 2016CST	0.1	30	0	0	0	0	Tornado (F0) Flash Flood
	11	2010001			U	U	•	•	I mai I ico
Castro County 3 SE Hart	11	2030CST	•		0	0	0	0	Hail (0.88) Flash Flood
Hart	11	2040CST			0	0	2	1	Flash Flood
Swisher County	4.4	0100000				^	_	•	TT '1 (0 00)
Kress	11.	2100CST			0	0	0	0	Hail (0.88)
Briscoe County 3 E Silverton	11	2140CST			Λ	Λ	1	1	Flash Flood
э в энуепоп	11	Z140C31			0	0	1	1	riash riooq

A large multicell storm moved across Castro, Swisher, and Briscoe Counties. Several of the cells produced nickel-size hail and flash flooding as they tracked across the area. Downburst winds damaged a barn west of Kress. The Kress Emergency Management Office reported a brief tornado west of Kress. No significant damage resulted from the tornado, the hail, or the flash flooding.

Hale County
4 W Edmondson
Plainview
Plainview
Lamb County
6 S Olton
Hale County
3 N Hale Center
Edmondson
Plainview

11 11 11	2005CST 2045CST 2052CST	3.5	80	0 0 0	0 0 2	0 2 5	0 2 2	Hail (1.00) Hail (1.00) Tornado (F1)
11	2110CST			0	0	1	0	Hail (1.75)
11 11 11	2150CST 2155CST 2210CST	1.2	70	0 0 0	0 0	3 2 0	1 1 0	Tornado (F1) Hail (2.00) Hail (0.75)

Another strong multicell complex moved across Lamb and Hale Counties. The first cell produced quarter-size hail and a tornado that struck the southern portion of Plainview. The tornado touched down at 2052 CST, 3 miles south of the city limits. It lifted at 2101 CST, just inside the southern edge of the city. The Plainview Emergency Operations Center reported that four mobile homes and two other buildings were damaged by the tornado. Two people (in the mobile homes) were injured. The second cell produced a brief tornado just north of Hale Center which damaged a house and outbuildings. Dime- to hen egg-size hail fell from this cell as it passed near and northwest of Plainview.

MAY 1991

		TIME			NO.	OF SONS	EST IN	MATED	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	¥1-LLED	OM30CL.Z		CECOTA	CHARACTER OF STORM

TEXAS, Western	Co	nt'd									
Midland County 8 S Midland 5 S Midland	12 12	1813CST 1832CST			0	0	2 0	1 0	Hail (1.75) Hail (0.75)		
	Gol pub	f ball-size hai lic reported d	l fell in s ime-size	outhern l hail at 18	Midla 332 C	nd Co ST.	ounty a No sig	t 1813 nifican	CST, according to the public. The t damage was noted.		
Scurry County 8 W Snyder	12										
	Gol Sny	Golf ball-size hail was reported by an off-duty National Weather Service employee west o Snyder. No significant damage resulted.									
Crockett County Ozona Ozona	12 12	2030CST 2050CST			0	0	0	0	Hail (0.75) Hail (0.75)		
	The	Crockett Cou	inty Sheri	ff's Offic	e repo	orted	dime-s	ize hai	in Ozona but no damage was noted		
Dickens County Spur	12	2120CST			0	0	0	0	Hail (0.75)		
	The	Spur Police	Departme	ent report	ed di	me-siz	ze hail	in Spu	ir; no damage was noted.		
Coke County 12 NE Robert Lee Bronte	12 12	2300CST 2330CST			0	0	1 2	1	Hail (1.75) Thunderstorm Winds (G51)		
	The Dov note	vnburst winds	y Sheriff s, estima	s Office ted to 60	obser mph	ved g , mov	olf bal	ll-size ough E	hail near the Oak Creek Reservoir. Bronte. No significant damage was		
Runnels County Ballinger	12	2330CST		•	0	0	3	1	Thunderstorm Winds		
	Doy Off		s damage	d a build	ing in	Balli	nger,	accord	ing to the Runnels County Sheriff's		
Concho County Paint Rock	13	0045CST			0	0	2	1 -	Thunderstorm Winds (G51)		
	A s	potter reported	d downbu	ırst winds	s, to 6	00 mp	h, in P	aint R	ock; no significant damage resulted		
Briscoe County Silverton Silverton	13 13	1528CST 1532CST			0	0	0	0	Hail (1.00) Hail (0.88)		
	Am Off	ateur radio speice observed r	otters rep nickel-siz	orted qua e hail a f	rter-s ew m	ize ha inutes	il in Si later;	lvertor no da:	n, while the Briscoe County Sheriff's mage was reported.		
Hale County Plainview	13	1545CST			0	0	2	1	Flash Flood		
4 W Plainview	13	1606CST- 1612CST	0.5	30	0	0	0	0	Tornado (F0)		

The Plainview Emergency Operations Center reported flash flooding in Plainview at 1545 CST. A weak tornado briefly touched down west of Plainview and remained over open country, but no damage resulted.

MAY 1991

		TIME			NO. PER	OF SONS	EST I	MATED AGE	
PLACE	DA-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLI	CHICACLE	-causo->	റയായ	CHARACTER OF STORM

TEXAS, Western Cont'd									
Hutchinson County 7 ESE Borger Borger 2 SE Fritch 2 SE Fritch	13 13 13 13 The torn	1648CST 1715CST 1750CST 1810CST the Hutchinson (mado near Fring)	0.2 0.1 County Shareh. The	30 20 eriff's C	0 0 0 0 Office was	0 0 0 0 and th	0 0 0 0 e Dep	0 0 0 0 artmen	Tornado (F0) Hail (0.75) Tornado (F0) Funnel Cloud  It of Public Safety reported a small and no damage resulted. Twenty funnel near Fritch.
Floyd County 4 N Aiken	13	1709CST			0	0	1	1	Flash Flood northwestern Floyd County, north
Pecos County	of A	Aiken. Since	motorists	avoided	the a	rea, no	signi:	ficant o	damage resulted.
3 N Bakersfield		13 1925CST 0 0 0 0 Hail (0.75)  The public reported dime-size hail north of Bakersfield; no damage was observed.							
Upton County McCamey		1943CST	ara ahaara	ad gyarte		0	1	0 hail in	Hail (1.75)  McCamey. No significant damage
Midland County	rest	ilted.	ers odserv	eu quar	5I- tO	gon oa	111-8120	Hall III	i weecamey. No significant damage
Greenwood 2 NE Midland	13 13	2103CST 2130CST	. 4 4::.	b-11	0 0	0	0	0 0	Hail (0.75) Hail (0.75)
Ector County Odessa		2130CST	sa aime-siz	ze nan ne	ar G	reenwo	0 0	ю поги О	h of Midland. No damage resulted.  Hail (0.75)
			operator o	observed	-				essa. No damage was observed.
Howard, Midland, and Martin Counties			vil tank hat	teries in	0 easte	0 m Hov	5 vard C	1	Lightning northeastern Midland County, and
Lipscomb County	nor	thwestern Mar	tin County	. Dama	ge to	the tan	iks wa:	s exten	sive, but no injuries were reported.
Darrouzett	15 Dar	1815CST rouzett City C	Officials ob	served o	0 dime-	0 size ha	0 iil; no	0 damag	Hail (0.75) ge was noted.
Collingsworth and Wheeler Counties 9 S Shamrock Texola	15 15	2017CST- 2110CST 2110CST	15.0	450	0	0	5 2	3 1	Tornado (F3) Hail (1.75)
1 OVOIR	1.3	2110001			•	•	_	•	1.13)

A supercell developed over Collingsworth County and moved slowly northeast. SKYWARN spotters observed the beginning of a strong tornado 9 miles south of Shamrock. The tornado demolished a frame home, three vehicles, two barns, and an oil pump jack in northern Collingsworth County. The tornado crossed into Wheeler County at 2050 CST, southeast of Shamrock. The Shamrock Police Department reported no significant damage in Wheeler County

MAY 1991

			TIME			NO. PER	OF SONS	EST IN	AATED AGE	
.	PLACE	D-Q-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	סשביו-א	OmbCc.Z-	~	COCOLA	CHARACTER OF STORM

### TEXAS, Western Cont'd

from the tornado, which lifted at 2110 CST, 1 mile west of Texola. Golf ball-size hail was reported in Texola at 2110 CST.

### Reagan County Big Lake

16 0415CST

0 0 0 0 Hail (0.75)

The Reagan County Sheriff's Office reported dime-size hail in Big Lake with no resulting damage.

### Tom Green County Grape Creek Carlsbad

16 0430CST 16 0433CST 0 0 2 1 Hail (1.75) 0 0 2 2 Hail (2.50)

An off-duty National Weather Service employee reported golf ball-size hail near Grape Creek at 0430 CST. The public reported golf ball- to tennis ball-size hail near Carlsbad at 0433 CST. No significant damage resulted.

### Fisher County 3 W Hamlin 10 E Roby

17 1640CST 17 1738CST 0 0 2 1 Hail (1.75) 0 0 1 0 Hail (0.75)

A severe thunderstorm produced dime- to golf ball-size hail in central and eastern Fisher County. No significant damage was reported.

### El Paso County El Paso NE El Paso

21 1408CST 21 1427CST 0 0 4 1 Hail (1.00) 0 0 1 1 Hail (0.75)

A severe thunderstorm moved across central and northeastern El Paso. Up to quarter-size hail was reported with the storm. The hail damaged cars and homes in the area.

### E El Paso

21 1500CST

0 0 7 5 Hail (1.50)

A second, severe thunderstorm moved across eastern El Paso. Hail almost as large as golf balls was reported from this storm. Cars and buildings were heavily damaged by the hail. In the lower valley, 400 acres of cotton and an onion crop were severely damaged. Total storm damage is estimated at \$5 to \$7 million.

### Culberson County Guadalupe Park Guadalupe Park Guadalupe Park Guadalupe Park

21 1845CST 21 1920CST 21 1930CST 21 1930CST 0 3 2 Thunderstorm Winds (G76) 0 2 1 Hail (0.75) 0 4 2 Thunderstorm Winds (G82) 0 2 2 Flash Flood

Downburst winds were measured in Guadalupe Pass at 87 mph. Park staff estimated peak winds at 95 to 100 mph about half an hour later. Dime-size hail and nearly 3.00 inches of rain accompanied the strong winds. Several of the dry washes near the park overflowed their banks.

### Reeves County 10 NNW Pecos

21 2151CST

0 0 0 0 Hail (1.00)

The Department of Public Safety reported quarter-size hail in northern Reeves County, but no damage was observed.

### Potter County Amarillo

22 1408CST

0 0 0 0 Hail (0.75)

Dime-size hail fell at the National Weather Service Office at Amarillo International Airport. No damage was noted.

MAY 1991

		TIME			NO. PER:	OF SONS	ESTIN DAMA	MATED AGE	
PLACE	D A	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED		<b>₩</b>	CXOTA	CHARACTER OF STORM

TEXAS, Western	n Co	nt'd							
Reeves County 12 E Saragosa 7 W Coyanosa	22 22	1701CST 1720CST	0.5	50	0	0	0 2	0	Tornado (F0) Hail (1.75)
·	The sign	e public repon nificant dama	rted a brie ge resultin	f tornad	o and	golf	ball-si:	ze hail	in eastern Reeves County with no
Hall County Brice 3 W Memphis	22 22	1705CST 1745CST			0	0	2	1	Hail (1.25) Hail (0.88)
Briscoe County Silverton	22	1700CST			0	0	1	0	Flash Flood
Hall County Memphis	22	1811CST			0	0	0	0	Hail (0.75)
	A n hail	nulticell cluste fell, along v	er storm m vith very h	noved the neavy rai	ough n resu	Brisco ulting	e and in flas	Hall C h flood	Counties. Nickel- to half dollar-size ding in Silverton.
Ward County Pyote Pyote	22 22	1742CST 1745CST			0	0	2 2	1	Hail (2.50) Thunderstorm Winds (G60)
	The obs	e Ward Count erved downbi	y Sheriff's urst winds	Office r to 70 m	eporte ph. l	ed tenr Minor	nis ball roof d	l-size h lamage	ail in Pyote. A SKYWARN spotter resulted from the hail and wind.
Lynn County 6 W Tahoka Tahoka	22 22	2038CST 2133CST			0	0	1 2	1 1	Thunderstorm Winds (G51) Hail (1.75)
	The ball	Lynn County I-size hail in	y Sheriff's Fahoka, bu	Office roat no sig	eporte nifica	ed dow nt dan	nburst nage w	t winds vas not	s to 60 mph west of Tahoka and golf ed.
Potter County 2 W Amarillo Randall County	22	2326CST			0	0	2	1	Hail (1.75)
S Amarillo Potter County	22	2329CST			0	0	0	0	Hail (0.75)
N Amarillo	23	0015CST			0	0	0	0	Hail (0.88)
Randall County S Amarillo	23	0016CST			0	0	1	1	Hail (1.00)
	Gol	ere thunderste f ball-size hai duty National	l was repo	orted by a	a SKY	'WAR	dime- N spo	to nicl tter. (	kel-size hail over much of the city. Quarter-size hail was reported by an
Potter County 2 NE Amarillo	23	0115CST			0	0	0	0	Hail (0.75)
	Stro at 0	ong thundersto 115 CST, and	orm winds d no dama	moved the	nroug bserv	h the A ed.	\maril	lo area	. The public reported dime-size hail
Hansford County 6 W Gruver 5 SW Gruver	23 23	1410CST 1515CST			0	0	2	0	Hail (1.75) Hail (1.75)
	Sev dan	ere thundersto naged a car w	orms over indshield.	Hansford Golf ba	d Cou lll-siz	nty pr e hail	oduceo also fe	d golf ell sout	ball-size hail west of Gruver which thwest of Gruver.
Reeves County 5 W Balmorhea	23	1428CST	0.5	50	0	0	0	0	Tornado (F0)

MAY 1991

	<del></del>		TIME			NO. PER	OF SONS	EST IN	AATED AGE	
PL	ACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L L E D	OHBOCK I	4-120m v0.20 v	CACOAN	CHARACTER OF STORM

<u> </u>	1			<u></u>		<b>.</b>							
TEXAS, Wester	n Co	nt'd							•				
Saragosa Saragosa	23 23	1429CST 1450CST		,	0	0	<b>2 5</b>	<u>1</u> 5	Hail (1.75) Hail (1.75)				
	SKYWARN spotters observed a tornado west of Balmorhea with no resulting damage. Golf ball size hail in Saragosa caused extensive damage to roofs, windows, automobiles, and crops in tharea.												
Hall County 15 N Turkey Memphis Memphis	23 23 23	1525CST 1530CST 1551CST			0 0 0	0 0 0	2 1 0	1 1 0	Hail (1.75) Hail (1.75) Hail (0.75)				
	A sl	low-moving orted dime- t	storm de o golf ba	veloped o ll-size ha	ver w il. No	estern o sign	Hall (	County damag	t. The Memphis Police Department resulted.				
Presidio County 3 N Marfa	23	1548CST			0	0	1	0	Thunderstorm Winds (G50)				
	Fift was	y-eight mph observed.	downbur	st winds v	vere m	easure	ed at th	e Marí	fa Airport, but no significant damag				
Ochiltree County 3 S Perryton Perryton	23 23	1600CST 1612CST			0	0	0	0	Hail (0.75) Hail (1.75)				
	As trepo	the Hansford orted in, and	County south of	storms m Perryton	oved i . No	nto O dama	chiltre ge was	e Cour	nty, dime- to golf ball-size hail wa				
Castro County 8 S Dimmitt Moore County	23	1650CST			0	0	3	0	Thunderstorm Winds (G70)				
Dumas	23	1712CST			0	0	1	1	Hail (1.00)				
Hansford County 2 S Spearman	23	1810CST			0	0	2	2	Hail (1.75)				
Randall County S Amarillo Detter Country	23	1815CST			0	0	0	0	Hail (0.75)				
Potter County 2 N Amarillo	23	1821CST			0	0	0	0	Hail (1.00)				
Ochiltree County Perryton	23	1830CST			0	0	2	1	Hail (1.75)				
Lipscomb County Follett	23	1900CST			0	0	0	0	Hail (0.88)				
Gray County Lefors	23	1905CST	0.1	20	0	0	0	0	Tornado (F0)				
	to g	olf ball-size	hail. D	ownburst	wind	s estin	nated 1	to 80 i	oss the Panhandle, producing dimemph, snapped power lines south own in central Gray County.				
Midland County 4 S Midland 3 SW Midland	23 23	1652CST 1702CST			0	0	2	0	Hail (1.00) Thunderstorm Winds (G50)				
	gust	KYWARN s ed to 58 mpl ificant dama	h at the N	lational V	arter-s Veathe	size ha r Serv	il 4 m rice Of	iles so fice at	outh of Midland. Downburst wind Midland International Airport. No				

Lubbock County Reese Air Force Base 23 1755CST Hail (0.75)

MAY 1991

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	Omacc.z.	4- <del>2011</del> 0020	CEOPN	CHARACTER OF STORM

TEXAS, Western	ı Cont'd	<del></del>	. <del></del>	<b>--</b>		
Slide	23 1800CST	0	0	3	0	Thunderstorm Winds
	The weather observer a downed power lines neat to spotters.	at Reese Air Fo ar the community	rce Ba of Sl	ise rep ide in	orted southy	dime-size hail. Downburst winds western Lubbock County, according
Potter County 2 N Amarillo	23 1821CST	0	0	0	0	Hail (1.00)
	A SKYWARN spotter r	reported quarter-s	ize ha	il in P	otter (	County, but no damage resulted.
Brewster County Marathon	23 1950CST	0	0	3	0	Hail (1.00)
	Quarter-size hail fell in	Marathon breaki	ng sor	ne of t	he wi	ndows at the local school.
Hall County Brice Brice Lakeview	24 1453CST 24 1520CST 24 1520CST	0 0 0	0 0 0	1 2 1	0 2 1	Hail (1.00) Hail (1.75) Hail (1.75)
Donley County Clarendon	24 1520CST	0	0	2	1	Hail (1.75)
Hall County Estelline Estelline Turkey Estelline	24 1530CST 23 1550CST 24 1600CST 24 1756CST	0 0 0 0	0 0 0 0	2 1 0 0	2 1 0 0	Hail (2.75) Hail (1.75) Flash Flood Flash Flood
	A multicell severe storm No significant damage v southern and eastern Ha	vas reported. Th	onley e resu	Counti lting h	ies pro eavy r	duced quarter- to baseball-size hail. ains flooded secondary highways in
Hemphill County Canadian	24 1530CST	0	0	0	0	Hail (0.75)
	The public reported dim	ne-size hail in Ca	nadian	, but r	no dan	nage resulted.
Carson County 4 S White Deer	24 1615CST	0	0	0	0	Hail (1.00)
Gray County 2 N Pampa	24 1617CST	0	0	0	0	Hail (0.75)
	A multicell storm over damage was observed.	Carson and Gra	y Cou	nties p	oroduc	ed dime- to quarter-size hail. No
Dallam County 4 S Texline	24 1645CST	0	0	0	0	Hail (1.00)
	Thunderstorms moving damage was observed.	east out of New	Mexic	o proc	luced	quarter-size hail at Texline, and no
Midland County 6 SW Midland	24 1704CST	0	0	0	0	Hail (1.00)
	The public reported quadamage resulted.	arter-size hail 4	miles	south (	of Mic	dland International Airport, but no
Roberts County Miami	24 1707CST	0	0	0	0	Hail (0.75)

MAY 1991

		TIME			NO. PER	OF SONS	EST II	MATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OTTO	a.ccomoo->-	OBODEN	CHARACTER STORM

## TEXAS, Western Cont'd

4 S Wolfforth

24

1812CST

28 1750CST

As the storm from Carson and Gray Counties drifted north, dime-size hail fell at Miami, according to the Roberts County Sheriff's Office. No damage resulted.

	acc	ording to the Roberts County Silv	CIIII	s Onic	. IN	o dama	ige resulted.
Randall County 5 E Canyon	24	1818CST	0	0	0	0	Hail (1.75)
Armstrong County 6 W Claude	24	1820CST	0	0	0	0	Hail (0.75)
Hutchinson County Borger	24	1840CST	0	0	0	0	Hail (1.00)
Randall County 5 E Canyon Hytchiana County	24	1853CST	0	0	1	0	Flash Flood
Hutchinson County Stinnett	24	1858CST	0	0	0	0	Hail (0.75)
Armstrong County 15 SW Claude	24	1940CST	0	0	0	0	Flash Flood
Hutchinson County 5 W Borger	24	2008CST	0	0	0	0	Hail (0.75)
	ball	arge multicell storm moved over size hail were reported. Heavy ding in the Palo Duro Canyon.	the craini	central fall ass	Panha sociate	andle. d with	Several instances of dime- to golf the storms, resulted in some flash
Lubbock County Reese Air Force Base	24	1750CST	0	0	1	0	Hail (1.75)
4 0 337 100 41	0.4	1010000	^	^	4		77 '1 /4 CO\

0

The public reported golf ball-size hail near Reese Air Force Base. SKYWARN spotters and the public observed hail slightly smaller than golf ball-size, south of Wolfforth. No significant damage was reported.

1

Hail (1.50)

0

Briscoe County 6 NW Silverton 10 NE Silverton 2026CST 2101CST Hail (1.00) Hail (0.88)

> The central Panhandle, multicell cluster drifted southeast. As it moved over Briscoe County, nickel- to quarter-size hail was reported by the Briscoe County Sheriff's Office.

Motley County 5 S Matador 2240CST 2255CST Hail (1.00) Thunderstorm Winds (G54) 24 24 0 Roaring Springs

The Matador Fire Department reported quarter-size hail south of Matador. The public reported downburst winds to 65 mph in Roaring Springs. No significant damage resulted.

Reeves County 2 NE Balmorhea 1702CST Balmorhea 1727CST

The public reported quarter-size hail at Balmorhea State Park. The Reeves County Sheriff's Office observed quarter-size hail in Balmorhea, from 1727 CST to 1747 CST. Only minor

0

Hail (1.00)

damage resulted. Hartley County 8 SW Dalhart

0

The public reported quarter-size hail southwest of Dalhart, but no damage was noted.

0

Dallam County Dalhart 28 1841CST 0 0 0 Thunderstorm Winds (G55)

MAY 1991

-		TIME			NO. PER	OF SONS	EST!!	MATED AGE	
PLACE	DAOLE	LOCAL	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	- A JUREO	A-23-00-20-0	CACOON	CHARACTER OF STORM

TEXAS, Western	n Co	ont'd							
Dalhart Kerrick	28 28	1925CST 1926CST			0	0	1 2	3 1	Thunderstorm Winds (G52) Thunderstorm Winds
	wii and	short line of the nds to 63 mph I uprooted tre rrick, in north	at the Dall es in Dall	nart wea nart. N	ither s Iinor	tation wind	Dallam A co damag	Count coperage to	ty. The storms produced downburst tive observer reported 60-mph winds buildings and trees was reported in
Reeves County 8 NE Pecos	28	2010CST			0	0	0	0	Hail (1.00)
	The	e public report	ted quarter	r-size ha	il nor	thwes	t of P	ecos.	No damage resulted.
Hartley County 3 N Channing	28	2101CST- 2110CST	0.5	40	0	0	0	0	Tornado (F0)
6 S Dalhart	28	2110CST- 2115CST	0.3	30	0	0	0	0	Tornado (F0)
	As tori		orm line oserved by	moved the Der		_	_	_	hrough Hartley County, two weak The tornadoes remained over open
Ector County Goldsmith	28	2126CST			0	0	0	0	Hail (0.75)
	The	e public report	ed dime-s	ize hail	in Go	oldsmi	th and	no da	image was noted.
Ward County Monahans Monahans	28 28	2345CST 2354CST			0	0	2 2	0	Thunderstorm Winds (G61) Thunderstorm Winds (G70)
	Do dan	wnburst winds nage resulted.	s gusted u	p to 80	mph	, acco	ording	to the	e public and spotters. Only minor
Pecos County 4 NW Iraan	29	0035CST			0	0	0	0	Hail (1.00)
		e Pecos County served.	Sheriff's	Office r	eporte	ed qua	rter-si	ze hail	northwest of Iraan. No damage was
Sherman County Texhoma	29	1520CST			0	0	2	1	Hail (2.00)
	A S	SKYWARN sp	otter repo	rted hen	egg-	size ha	iil nea	r Texh	oma. Only minor damage resulted.
Potter County Amarillo	29	1612CST			0	0	0	0	Hail (0.75)
	The	e public report	ed dime-si	ize hail	in An	narillo	and r	io dan	nage resulted.
Carson County Panhandle Panhandle	29 29	1618CST 1633CST			0	0	1 2	1	Hail (1.00) Hail (1.50)
	A the	hunderstorm o Carson Count	ver Carson y Sheriff's	County office	y proc , and	luced (	quarte iblic.	r- to P Only	ing-Pong ball-size hail, according to minor damage was observed.
Hansford County 22 NW Spearman	29	1642CST			0	0	2	1	Hail (1.75)

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN	ATED GE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KTLL		~	COCOLO	CHARACTER OF STORM

4 N Spearman	29	1650CST			0	0	1	0	Hail (1.00)
·	Cou	Hansford Conty. The pure noted.	County Sl ablic repo	neriff's O orted quar	ffice i ter-siz	report e hail	ed gol just n	f ball- orth of	size hail in northwestern Hansford f Spearman. No significant damage
Armstrong County 10 SW Claude	29	1654CST			0	0	0	0	Hail (0.88)
		KYWARN : ilted.	spotter o	bserved n	ickel-	size h	ail in	wester	n Armstrong County. No damage
Randall County 2 SW Amarillo	29	1710CST			0	0	0	0	Hail (0.75)
	SKY	YWARN spo	tters repo	orted dime	e-size	hail ji	ust sou	thwest	of Amarillo. No damage resulted
Ochiltree County 3 W Booker Perryton	29 29	1712CST 1712CST	0.5	60	0	0	4 2	0	Tornado (F0) Hail (1.75)
	The	Perryton Po tornado do ryton, accord	wned sev	eral powe	porte er pol	d a to: es alc	rnado ong Hi	in extr ghway	reme northeastern Ochiltree County 15, and golf ball-size hail fell in
Randall County 2 S Bushland SW Amarillo		1729CST 1745CST			0	0	1 0	0	Hail (1.75) Hail (0.75)
5 SE Umbarger	29	1747CST- 1752CST	0.5	50	0	0	0	0	Tornado (F0)
	Serv	ne- to golf ba vice personne ched down ov	el. A sto	orm chase	r repo	rted a	ı weak	tornac	otters and off-duty National Weather do near Buffalo Lake. The tornado t damage.
Potter County 15 NW Amarillo	29	1751CST- 1808CST	2.8	60	0	0	0	0	Tornado (F0)
	Nur Am	nerous spotte arillo. The t	ers and N tornado r	National V emained o	Veather of	er Ser pen co	vice pountry	ersonn and no	el observed a tornado northwest of damage resulted.
Hutchinson County 5 E Borger	29	1808CST- 1810CST	0.1	20	0	0	0	0	Tornado (F0)
	Spo	tters observe	d a small	tornado	just ea	ast of	Borge	r. No	significant damage was noted.
Randall County SW Amarillo	29	1810CST			0	0	0	0	Hail (1.00)
	An sout	off-duty Na hwestern An	ational V narillo.	Veather S No damag	Service e was	e emp	oloyee rved.	repor	ted dime- to quarter-size hail in
Moore County 8 E Dumas	29	1810CST- 1816CST	2.0	60	0	0	0	0	Tornado (F0)

MAY 1991

			TIME		)	NO.	OF SONS	ESTIN DAM/	MATED AGE	
	PLACE	D-O-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K L L D	CHICOCLE.	4-cam 00x 0	CEOPN	CHARACTER OF STORM
ŗ	TEXAS, Western	Со	nt'd			<u> </u>	<u> </u>			
		As eas no	the Potter ( tern Moore damage rest	County torn County, no ulted.	nadic storn orth of Lal	n mov ke Me	ved n eredit	orth, S h. Th	SKYW e torna	ARN spotters reported a tornado in ado remained over open country and
(	Ochiltree County									

Farnsworth

29 1811CST

0 2 Hail (2.50)

The Department of Public Safety reported tennis ball-size hail in Farnsworth, with only minor damage reported.

Randall County SW Amarillo 2 S Amarillo

1813CST 1815CST Hail (1.75) Thunderstorm Winds

An off-duty National Weather Service employee reported golf ball-size hail in southwestern Amarillo. A strong downburst damaged 30 mobile homes in a park just south of Amarillo. No injuries were reported.

**Hutchinson County** Borger

29 1815CST

0 5 1 Thunderstorm Winds

Downburst winds blew down a radio tower in Borger, cutting off power and communications. No injuries were reported as the strong winds blew through the eastern part of the county until 1900 CST.

Randall County Canyon

29 1825CST

Hail (1.00)

A SKYWARN spotter reported quarter-size hail in Canyon, but no damage was observed.

Ward County **Monahans** Monahans

1825CST 1832CST 29

Hail (1.00) Hail (1.00)

A severe thunderstorm dropped quarter-size hail on Monahans at 1825 CST and 1832 CST, according to spotters and the Monahans Police Department. Only minor damage resulted.

Briscoe County 10 NE Silverton

29 1825CST

2 2 0 0 Hail (2.75)

The Briscoe County Sheriff's Office reported baseball-size hail in northeastern Briscoe County. Only minor damage was observed.

Potter County 17 N Amarillo Amarillo 14 N Amarillo

Hail (1.00) Ŏ Ō Õ Hail (0.88) Hail (1.75) 0

SKYWARN spotters and the Department of Public Safety reported nickel- to golf ball-size hail in, and north of Amarillo. No significant damage resulted.

Roberts County 18 N Pampa

29 1838CST

0 1 0 1 Hail (1.75)

A SKYWARN spotter observed golf ball-size hail in western Roberts County. No significant damage was reported.

Randall County Southern Amarillo 10 SE Amarillo

1844CST 1848CST

0.2

30

Hail (1.75) Tornado (F0)

MAY 1991

		TIME			NO. PER	OF SONS	ESTII DAM/	MATED AGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	- NACE CALL	~	COCODO	CHARACTER OF STORM

## TEXAS, Western Cont'd

The public reported golf ball-size hail in southern Amarillo. SKYWARN spotters observed a small tornado east of Lake Tanglewood, but no significant damage resulted.

2

Briscoe County 10 NW Silverton

29 1845CST

0 0

2

Hail (2.75)

Armstrong County 11 S Washburn 1 W Washburn

29 1901CST 29 1902CST The public reported baseball-size hail near Lake MacKenzie, and only minor damage was noted.

Thunderstorm Winds Hail (0.88)

11aa (0.00)

SKYWARN spotters reported a downburst south of Washburn, and nickel-size hail near Washburn. No significant damage was observed.

20

Carson County 1 SW Conway

29 1930CST

0.1

0

0

Tornado (F0)

A brief tornado was reported by a television meteorologist near Conway. The tornado was over open country and no damage resulted.

Hall County Memphis

29 1930CST

0 0

0 Hail (0.75)

1

1

A SKYWARN spotter observed dime-size hail in Memphis, but no damage resulted.

Armstrong County Washburn Carson County Conway

29 1937CST

0 0 0 0

Hail (0.88)

29 1938CST

0 0 1

Hail (1.00)

SKYWARN spotters reported nickel- to quarter-size hail in northern Armstrong and southern Carson Counties. No significant damage was observed.

Donley County 10 WNW Clarendon 10 WNW Clarendon

29 1940CST

0 0 4

Thunderstorm Winds

29 2000CST

0 2 2

Hail (2.75)

The Donley County Sheriff's Office reported a downburst and baseball-size hail near the Ashtola community. The downburst damaged a barn, a mobile home, and an outbuilding. No significant damage resulted from the hail.

Hutchinson County Borger Borger

29 1941CST 29 2000CST 0 6

Thunderstorm Winds (G85) Hail (1.75)

An intense downburst, with peak gusts to 98 mph, damaged equipment and burlings at the Phillips refinery near Borger. The Borger Police Department reported golf ball-size hail with the storm. Fortunately, there were no injuries.

Carson County 2 S Conway 1 S Conway 2 N Pantex

29 2005CST 29 2012CST 29 2030CST-2100CST 30

0.2

0 0 0 3

0 7 1 H

0

Tornado (F0) Hail (1.75) Hail (1.00)

Armstrong County 2 S Claude

29 2032CST

0 0 2 1 Hail (1.25)

A severe, multicell storm was tracked across Carson and northern Armstrong Counties. A television meteorologist reported a brief tornado near Conway. SKYWARN spotters reported

0

MAY 1991

		TIME			NO.	OF SONS	EST IN	ATED	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-1-IIIO	OHISCLE -		COCOLIN	CHARACTER OF STORM

### TEXAS, Western Cont'd

golf ball-size hail near Conway, which cracked automobile windshields. Spotters also observed quarter- to half dollar-size hail with the storm.

Hall County Memphis

29 2130CST

0 0 2 Hail (1.75)

The Memphis Police Department reported golf ball-size hail in Memphis. No significant damage was observed.

2

Armstrong County

Claude

29 2133CST

0

Hail (0.75)

The Claude Police Department reported dime-size hail, but no damage resulted.

Hall County Memphis Donlary County	29	2150CST	0	0	1	1	Hail (1.75)
Donley County Clarendon Collingrayooth Coun	29	2200CST	0	0	1	0	Hail (1.00)
Collingsworth Coun 6 W. Wellington	29	2228CST	0	0	2	1	Hail (1.75) Hail (0.75)
Quail 10 WSW	29 29	2330CST 2339CST	0	0	0	Ö	Hail (0.75) Hail (0.75)
Wellington						16.1	1 1

A short line of thunderstorms produced dime- to golf ball-size hail across the southeastern Panhandle. No significant damage was reported by law enforcement officials in the area.

### **UTAH**

Northwestern Valleys Salt Lake County

08 0200MST-0500MST 0630MST

High Winds Thunderstorm Winds (G75)

A cold front, associated with a strong Pacific-storm system, caused very strong and gusty southerly winds ahead of it. Several wind gusts near 60 mph were reported. The high winds caused a widespread power outage in West Valley City, and scattered power outages elsewhere in the Salt Lake Valley as trees were blown over onto power lines. The winds diminished after the front paged later the started power outages. the front passed late in the afternoon.

As the vigorous cold front moved through the Wasatch Front, it also ushered in thunderstorms that produced microburst winds. However, no damage was reported.

UTZ006-011 Southwestern Valleys Southern Mountains

0300MST-1500MST

High Winds

The cold front that caused the high winds in the northwestern portion of the state did the same to most of the southwestern, and the southern mountains. Several gusts of 59 or 60 mph were reported. Travel along Interstate 15 was hampered because of the strong winds and poor visibility due to blowing dust. In Cedar City, the wind tore part of a roof off a mobile home.

**Davis County** Bountiful Salt Lake County Cottonwood

14 1115MST

O 0 Lightning

14 1138MST

0 5 0 0 Lightning

0

An upper-level low that moved into central Utah, created a very moist and unstable environment over the northern and western portions of the state. Thunderstorms developed rapidly, and before noon several reports of heavy rain and small hail were received. Also, frequent lightning was produced by these storms. Scott Shumway, of Bountiful, was fixing a patio door when lightning hit very near his location. The electric shock sent through him caused him to be lightheaded. He was treated and released from a local hospital. Lightning from these same

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	AATED AGE	
PLACE	DA E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Qmrr	סשאכר <u>ב</u> א	- COLUMN	റമറാം	CHARACTER OF STORM

### UTAH Cont'd

storms also struck the roof a condo, and set it on fire. Before the fire was put out, \$52,000 of damage had been done. Until late afternoon, several more reports of up to 0.50-inch hail were received. The heavy rain, in a short period of time, created minor to locally moderate areas of flooding along the Wasatch Front. Light to moderate rain continued until the early morning hours.

UTZ002-006 Great Salt Lake Desert and Southwestern Valleys

17 1100MST-1400MST 0 0 **High Winds** 

As a strong cold front moved in, it caused strong and gusty, southerly winds and thunderstorms. The microburst winds that came from the thunderstorms added to the already-high gradient winds. Several gusts occurred from 58 to 62 mph. No damage was reported from these areas, but where wind was less than high wind criteria (in much of northern and western Utah), large trees were blown over, damage was done in several buildings and cars, power poles and lines were blown down resulting in many outages and reduced visibility on Interstate 15 due to blowing dust.

UTZ004-006-007-008-011, Uinta Basin, Sevier and Southwestern Valleys, Southwestern Portion, and Southern Mountains

1045CST-1700MST **High Winds** 

The same strong front that had roared through the northwestern portion of the state became stationary and extended from the northeast to the west-central portion. Sustained winds of 40 to 45 mph, with gusts ranging from 60 to 67, were common throughout the area. A recreational trailer was blown over on Interstate 70 east of Richfield, a roof blown off a mobile home in Monticello, and trees were uprooted in Rossevelt.

## VERMONT

Chittendon County Colchester

01 1915EST

0 2 O

Thunderstorm Winds

Several large tree limbs were downed along Route 7.

VTZ003

Northeastern Vermont

12 Afternoon

3

0 **High Winds** 

A pickup truck was totaled when strong winds caused a large tree to snap at its base and land on the moving vehicle along Pleasant Street in South Ryegate in Caledonia County. The driver and two passengers suffered multiple abrasions.

**Bennington County** Pownal

Windham County

17 1535EST

0 0 3

0

Thunderstorm Winds

**Brattleboro** 

17 1610EST

0 3 O

0

0

Thunderstorm Winds

Large tree limbs and power outages were reported in Pownal with trees downed across roads in Brattleboro.

### **VIRGINIA**

Isle of Wight County Raynor

01 1855EST

0 0 Hail (1.75)

Golf ball-size hail covered the ground.

MAY 1991

		TIME			NO. PER	OF SONS	EST II	AATED AGE	
PLACE	DAGTE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLE	CHIZOC C. K.	A-Composed	COCOEN	CHARACTER OF STORM

VIRGINIA Cont'	'd						
Sussex County Wakefield Airport	01	1990EST- 1905EST	0	0	0	0	Hail (2.00)
	Hai	il the size of hen's eggs was repo	orted.		•		
James City County 1 W Toano	01	1920EST	0	0	0	0	Thunderstorm Winds
	Tre	ees were downed 1 mile west of	Toand	<b>)</b> .			
City of Suffolk Chuckatuck	01	1920EST	0	0	0	0	Funnel Cloud
	The	e public reported a funnel cloud.					
City of Chesapeake 3 W Fentress	01	1920EST	0	0	0	0 _	Thunderstorm Winds
	The	e police reported trees downed.					
3 S City of Portsmouth	01	1925EST- 1930EST	0	0	0	0	Funnel Cloud
	The area	e police and public reported a fun a. Two telephone poles were kn	nel c	loud cl l dowr	lose to	the gree same	ound in the Deep Creek Boulevar area.
York County Yorktown	01	1925EST	0	0	0	0	Thunderstorm Winds
	The	e park service reported trees dow	ned i	n Yorl	ctown.		
Isle of Wight County							
5 S Carrollton	01	1927EST	0	0	0	0	Thunderstorm Winds
	The	e police reported trees downed.					
City of Portsmouth Churchland	01	1930EST- 1940EST	0	0	0	0	Hail (1.50)
	Nur	merous reports of hail 1.00 to 1.	50 in	ches ir	n diam	eter.	
City of Suffolk Driver	01	1930EST- 1945EST	0	0	0	0	Hail (2.00)
•	The	ere were several reports of 1.00-	to 2.	00-inc	h diam	neter ha	uil.
City of Virginia							
Beach Chesapeake Beach	01	1940EST	0	0	0	0	Thunderstorm Winds
	Two	o oak trees were downed.					
2 SE City of Chesapeake	01	2000EST	0	0	3	0	Thunderstorm Winds Hail (1.25)

Falling trees knocked over a telephone pole.

MAY 1991

		TIME			NO. PER:	OF SONS	ESTIN DAM/	AATED AGE	
PLACE	DA-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIMO	CHOOC C.		COCODA	CHARACTER OF STORM

VIRGINIA Cont's	d								
City of Norfolk City of Virginia	01	2005EST	0	0	0	0 .	Hail (0.75)		
Beach Kempsville	01	2010EST- 2020EST	0	0	0	0	Hail (1.00)		
•	Pol	ice and hand radio operators repo	orted	hail 0.	.75 to	1.00 i	nch in diameter.		
City of Virginia									
Beach 2 WSW Oceana	01	2035EST	0	0	0	0	Hail (1.00)		
Frederick County Clear Brook	06	1450EST	0	0	3	0	Thunderstorm Winds		
	Hig	h winds downed trees in Clear B	rook						
3 N Winchester 1 S NW Winchester	06 06	1450EST 1450EST	0	0	0	0	Hail (1.00) Hail (1.00)		
Loudoun County Leesburg	06	1535EST	0	0	0	0	Thunderstorm Winds		
	Nui	nerous trees were downed in Lee	sbur	g.					
Fauquier County Midland	06	1540EST	0	0	0	0	Thunderstorm Winds		
	Tre	es were reported downed in Midl	land.		,				
Fairfax County Pender	06	1635EST- 1640EST	0	0	0	0	Funnel Cloud		
Warren County	06	1743EST	0	0	0	0	Thunderstorm Winds		
		es were downed by thunderstorm	win	ds.	_				
Carroll County		· · · · · · · · · · · · · · · · · ·							
Cana	12	1400EST	0	1	0	0	Lightning		
	A to	eenage boy received a severe shoesk in the local fire department b	ck an uildii	d burn ng.	s whe	n he w	as struck by lightning, as he sat at		
Prince William Coun Woodbridge	ty 14	1700EST	0	0	5 -	0	Lightning		
	Sev	eral houses were set afire by ligh	ıtning	g strike	es.				
Fauquier County Warrenton	14	1700EST	0	0	4	0	Thunderstorm Winds		
	A la	arge tree fell onto a house.							
City of Charlottesville	17	1435EST	0	0	0	0	Thunderstorm Winds		
Charlonesville	A large tree was downed in the city of Charlottesville.								
Albemarle County	17	1438EST	0	0	3	0	Thunderstorm Winds		
	The	ere were several reports of downer	d po	wer lir	nes.				

MAY 1991

		TIME			NO. PER	OF SONS	EST IN	MATED NGE	
PLACE	DAT E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	CHINCLE	- COM TO CO	COCOEN	CHARACTER OF STORM

### VIRGINIA Cont'd

Rockingham County Grottoes

18 1700EST-1720EST

0 0 5 0 Thunderstorm Winds

A 20-minute thunderstorm caused widespread damage to trees and power lines in Grottoes. A house was heavily damaged when wind partially unroofed it and a ceiling collapsed, with incoming water ruining the interior of the house.

**Buchanan County** 

18 1700EST

0 0 5

Flash Flood

Flash flooding washed a home off its foundation and damaged three other houses. Water was reported up to 10 feet deep from flooding on Harm Fork.

Buckingham County Buckingham Shepphards

18 1900EST

0 0 5 0 Thunderstorm Winds

In Buckingham, a house and several outbuildings on a farm were damaged, and the house was partially unroofed. In Sheppards, trees and power lines were downed, causing outages to some 800 residents. Downed trees were reported at several other areas in the county.

City of Roanoke

27 1600EST-1630EST

0 0 5 0 Thunderstorm Winds

Strong thunderstorm winds partially unroofed an elementary school 1 mile north of the center of Roanoke. A large ventilation unit on the roof was also ripped off and thrown against another building. Nearby, a dumpster was flipped over and the top halves of trees were snapped off. Reports of a tornado were not confirmed. The cost of replacing the school roof and the water damage to school supplies was placed at about \$100,000 by school board officials.

### WASHINGTON

WAZ010 Southeast 18 1700PDT-19 1100PDT

2 0

0 0 Heavy Rain

A nearly-stationary, upper-level weather disturbance, over southern Oregon, circulated abundant moisture over southeastern Washington. Just over 2.00 inches of rain was reported at Walla Walla during the time frame. Around 1400 PDT on the 19th, two people died when their car was buried by a mudslide on a county road between Waitsberg and Prescott. (M27V)(F35V)

WAZ007 Okanogan County 20 1700PDT-27 0500PDT

0 0 4 ? Flood

A strong spring runoff caused by snowpack amounts of 170% of normal in southern British Columbia brought the Okanogan River above flood stage at Tonasket for 7 days. The river went above flood stage at 1700 PDT on the 20th and went below flood stage at 0500 PDT, on the 27th. Some minor crop damage occurred during the flood, and one residence was damaged in Ellisberg.

### **WEST VIRGINIA**

Hancock County 3 N New Cumberland

01 1355EST

0 0 0

Thunderstorm Winds

Several trees were blown down between Chester and New Cumberland.

Kanawha County Sissonville

06 1102EST Sissonville 0 Hail (1.00) 1130EST Thunderstorm Winds London 06 0 0 0 0 Montgomery 1145EST Thunderstorm Winds

MAY 1991

		TIME			NO. PER:	OF SONS	EST IN	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	ם שמבער בי		CROPA	CHARACTER OF STORM

WEST VIRGINI	(A Cont'd									
	Trees were blown down and power	r lines snap	ped in the u	pper Kanawha Valley.						
Braxton County Little Birch	06 1130EST	0 0	0 0	Hail (0.75)						
	. Dime-size hail fell during a passag	e of a north	h/south line	of thunderstorms.						
Little Birch	06 1200EST	0 0	2 0	Thunderstorm Winds						
	Power lines were blown down.									
Herold	06 1210EST	0 0	0 0	Thunderstorm Winds						
	Large tree limbs were broken off by the wind.									
Harrison County West Milford	06 1215EST	0 0	0 0	Thunderstorm Winds						
Clarksburg	Several trees fell around West Milford, while large tree limbs were broken off in Clarksbur									
Randolph County Elkins Harman	06 1249EST 06 1300EST	0 0 0 1	3 0 4 0	Thunderstorm Winds (G52) Thunderstorm Winds						
	Winds gusted to 60 mph in Elkins, blowing out a large window of a clothing store. Two mobile homes were blown off their foundations in Harman, one of which had the roof ripped off. A female resident of one mobile home received minor injuries. Electrical power was out to about a 1,000 homes in the county.									
Preston County Kingwood	06 1300EST	0 0	3 ?	Thunderstorm Winds (G57)						
	Gusts of 66 mph were measured in	Kingwood	. Six trees f	fell, one landed on a mobile home.						
Grant County 1 S Bayard	06 1320EST	0 0	0 0	Thunderstorm Winds						
	Numerous large tree limbs were sn	apped off.								
Mineral County	06 1340EST	0 0	? ?	Thunderstorm Winds						
	Several trees were blown down.									
Hardy County	06 1400EST	0 0	? ?	Thunderstorm Winds						
	Numerous trees were uprooted, res	ulting in po	ower outages	<b>5.</b>						
Hampshire County Romney	06 1400EST	0 0	? ?	Thunderstorm Winds						
	Several large tree limbs were snapp	ed and pov	wer outages	were common.						
Morgan County Berkeley Springs	06 1430EST	0 0	4 0	Thunderstorm Winds						
	Trees and power lines were downed. A tree fell into a car, causing serious damage.									
Inwood	06 1440EST	0 0	0 0	Thunderstorm Winds (G52)						
•	A severe weather spotter reported winds of 60 mph.									

MAY 1991

		TIME			NO.	OF SONS	EST II	MATED AGE	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLE	CATABOLIC - X	<b>—-ю</b> шФОжФ	CECOEN	CHARACTER OF STORM

WEST VIRGINI	A C	ont'd									
Jefferson County Shepherdstown	06	1540EST- 1550EST			0	0	0	0	Funnel Cloud		
	An	An eyewitness photographed a funnel cloud.									
Pendleton County Brandywine	13	1600EST			0	0	0	0	Hail (0.75)		
	Dir	ne-size hail o	ccurred i	n Brandy	wine.						
Mercer County Ingleside Oakvale	18	1800EST- 2300EST			0	0	4	0	Flash Flood		
	An east/west line of thunderstorms dumped 1.50 to 2.50 inches of rain on wet ground. The East River flooded sections of Route 112 with 3 to 4 feet of water. Thirty people were evacuate from about a dozen homes when water began to surround their houses. Basement flooding was common. One private bridge serving three families in Hoot Owl Hollow was washed away.										
Statewide	26- 31				0	0	0	0	Heat		
	Rec Sev	cord heat converal schools	nbined wi were clos	ith high led for 1	humidi or 2 d	ity cre ays.	eated a	n unco	omfortable late spring environment.		
WISCONSIN											
Rock County Janesville Dane County	22	1533CDT	4.0	75	0	0	5	0	Tornado (F1)		
1 NE Cottage Grove	22	1625CDT	0.1	25	0	0	0	0	Tomado (F0)		
Marshall Waukesha County	22	1630CDT			0	0	0	0	Funnel Cloud		
Oconomowoc North Lake	22 22	1710CST 1721CDT			0	0	0	0	Funnel Cloud Funnel Cloud		
	A tornado touched down just south of the Janesville (Rock County) city limits and moved north for about 4 miles. A roof was blown off a 150- by 250-foot pheasant pen, several homes sustained roof and siding damage, trees and power lines were knocked down, and 400 cars were damaged at the Janesville auto transport company. Another tornado briefly set down in an open field near Cottage Grove (Dane County).										
Dodge County Fox Lake	26	1100CDT			0	0	4	0	Thunderstorm Winds		
Marinette County	26	1615CDT			^	^	•	^	The 1-4 Wi-1-		

Marinette 26 1515CDT 0 0 0 3 Thunderstorm Winds

> Severe thunderstorm winds knocked down trees which smashed a boathouse near Fox Lake. Other violent winds took the tops off 100-year-old oak trees and uprooted others in a cemetery in Marinette.

Pierce County Elmwood 27 1500CDT Hail (1.00) Dunn County
Eau Galle
Eau Claire County ? 27 1515CDT 0 Hail (1.75) 0 0 27 1611CDT 0 0 Eau Claire Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	EST II	ATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLEO	OHISO C.Z.	A-00011100x0	COCODY	CHARACTER OF STORM

### WISCONSIN Cont'd

Douglas County							
13 S Superior	27	1630CDT	0	0	?	0	Thunderstorm Winds (G52)
Bayfield County 6 S Iron River			_	_	_	_	, ,
6 S Iron River	27	1705CST	0	0	?	0	Thunderstorm Winds
Clark County	27	1710CDT	•	^	_	Λ	Three decembers Williads
Willard Wood County	27	1710CDT	0	0	5	0	Thunderstorm Winds
Marshfield	27	1810CDT	Λ	Λ	2	0	Thunderstorm Winds
Auburndale	วัว	1820CDT	ň	ň	ż	ŏ	Thunderstorm Winds
Babcock	27 27	2125CDT	0 0 0	0 0 0	? ? ?	ŏ	Thunderstorm Winds
Ashland County			•	•	•	•	i iluitototo i ili vi ilitar
0.25 E Marengo	27	1810CDT	0	0	?	0	Hail (1.75)
Highland	27	1814CDT	0	0	?	0	Hail (1.75) Hail (1.75)
Iron County							
10 NW Manitowish	27	1840CDT	0	0	?	0	Thunderstorm Winds
Oneida County			_	_	_	_	
Three Lakes	27	2000CDT	0	0	?	0	Hail (0.75) Thunderstorm Winds
Three Lakes	27	2000CDT	0	0	5	O	Thunderstorm Winds
Forest County	27	2020 CDT	•	^		^	77 1 777 1
Argonne	27	2030CDT	0	0	<b>4 5</b> .	Ŏ	Thunderstorm Winds
Crandon	27	2035CDT	U	U	Э,	0	Thunderstorm Winds
Jackson County 8 NE Melrose	27	2058CDT	0	0	0	0	Funnel Cloud
Marinette County	21	2036CD1	U	U	U	U	rumer Cloud
Wausankee	27	2215CDT	0	0	?	0	Hail (1.75)
TT IMMORITANCE	2,	MAISON I	9	•	•	v	111111 (1.75)

Severe thunderstorms hit northern and central portions of Wisconsin with hail up to golf ball-size, and violent winds. The hardest hit areas included Three Lakes (Oneida County) where a 5-mile swath of destruction occurred. Power lines were downed and thousands of trees, which were snapped off or uprooted, fell onto residences and vehicles. The intense winds also rolled a mobile home near Willard Inclark County. After the home rolled, a short in electrical wiring ignited a propane tank which caused an explosion and destroyed the home.

Wood County							
Marshfield*	28	0510CDT	0	0	?	0	Thunderstorm Winds
Washburn County							
Spooner	28	1030CDT	0	0	?	0	Hail (1.00)
20 SE Spooner	28	1115CDT	0	0	?	0	Thunderstorm Winds
Shell Lake	28	1115CDT	0	Ō	?	0	Thunderstorm Winds
Sawyer County							
Stone Lake	28	1130CDT	0	0	?	0	Hail (0.75)
Taylor County							• •
Medford	28	1210CDT	0	0	?	0	Thunderstorm Winds (G52)
Marathon County	28 28	1225CDT	0 0 0 0	Ō	?	0	Thunderstorm Winds `
10 Athens	28	1230CDT	0	0	5	0	Thunderstorm Winds
Wausau	28	1245CDT	0	Ō	4	0	Thunderstorm Winds
Price County							
Ogema	28	1215CDT	0	0	?	0	Thunderstorm Winds
Prentice	28	1215CDT	0	0	?	Ō	Thunderstorm Winds
Lincoln County							
Tomahawk	28	1250CDT	0	0	4	0	Thunderstorm Winds
Merrill	28	1250CDT	0	0	4	0	Thunderstorm Winds
Langlade County							
Elcho	28	1315CDT	0	0	?	0	Thunderstorm Winds
Antigo	28	1325CDT	0	0	5	0	Thunderstorm Winds
Antigo	28	1325CDT	0 0 0	0	5 4	0	Lightning
Phlox	28	1335CDT	0	0	4	0	Thunderstorm Winds
Portage County							
Junction City	28	1315CDT	0	0	?	0	Thunderstorm Winds
•		b.					

MAY 1991

		TIME			NO. PER:	OF SONS	EST IN	MATED	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	Om-1-M	OMMCL.Z-	~-X0m100x1	COCOTO	CHARACTER OF STORM

### WISCONSIN Cont'd

Forest County							
Crandon	28	1330CDT	0	0	5	0	Thunderstorm Winds
Menominee County	20	1550001	•	•	•	•	Indicasconii Wilds
9 N Neopit	28	1340CDT	0	0	?	0	Thunderstorm Winds
10 NE Neopit	28	1350CDT	Ō	Ŏ	?	Ŏ	Thunderstorm Winds
5 E Keshena	28	1415CDT	Ò	Ō	Ō	Ō	Funnel Cloud
Florence County							
Fence	28	1345CDT	0	0	?	0	Thunderstorm Winds
Shawano County							
Birnamwood	28	1325CDT	0	0	4	0	Thunderstorm Winds
Split rock	28	1345CDT	Q	0	?	0	Hail (1.75)
4 E Briarton	28	1445CDT	0	Ö	?	0	Hail (1.00)
Waupaca County			_	_	_	_	
Big Falls	28	1400CDT	0	0	?	0	Hail (1.75)
Symco	28	1410CDT	0	0	?	0	Hail (1.75)
Marinette County	00	1.400 CDT	^	_	•	_	red 1 . 337' 1
Wausaukee	28	1400CDT	Ŏ	Ŏ	3 5	Ŏ	Thunderstorm Winds
Pound	28	1400CDT	Ŏ	Ŏ	4	Ŏ	Thunderstorm Winds
Middle Inlet	28	1420CST	0	0	4	0	Thunderstorm Winds
Oconto County Gillette	28	1410CDT	0	0	?	Λ	Thundaestown Winds
	20	1410CD1	U	U	!	0	Thunderstorm Winds
Florence County Aurora	28	1415CDT	0	0	?	0	Thunderstorm Winds
Brown County	20	1413CD1	v	U	2	U	Indirectsorm whas
Green Bay	28	1500CDT	0	0	9	0	Hail (0.75)
Green Bay	28	1510CDT	ŏ	ŏ	? ? ?	ŏ	Hail (0.75) Hail (0.75)
Green Bay	28	1515CDT	ŏ	ŏ	ż	ŏ	Hail (1.00)
Green Bay	28	1515CDT	ŏ	ŏ	4	ŏ	Hail (2.38)
Door County	20	1010001	•	•	•	v	11411 (2.50)
Sturgeon Bay	28	1500CDT	0	0	0	0	Funnel Cloud
Sturgeon Bay	<b>28</b>	1500CDT	Ŏ	0	ž	Ŏ	Hail (1.00)
Carlsville	28	1510CDT	Ŏ	Ŏ	?	Ŏ	Thunderstorm Winds
Kewaunee County			-	•		_	
1 W Algoma	28	1545CDT	0	0	?	0	Hail (1.75)
Algoma	28	1550CDT	0	Ō	?	Õ	Hail (1.75)
Manitowoc County							` '
1 N Two Rivers	28	1650CDT	0	0	? 5	0	Hail (1.50)
Two Rivers	28	1700CDT	0	0	5	0	Hail (1.75)
							• •

Numerous severe thunderstorms crossed the northern half of Wisconsin generating intense winds and hail up to 2.38-inch in diameter. In Forest County, over half a million dollars in damage took place to 14 homes and numerous trees and power lines. Another half million dollars in damage was recorded at several locations in Marinette County. In Two Rivers (Manitowoc County), about \$400,000 in damage occurred when golf ball-size hail destroyed 70% of the windows at a florist shop and dented numerous vehicles, many on automobile dealership lots. Around the Tomahawk area of Lincoln County, violent winds toppled hundreds of trees, power lines and wrecked homes, barns and vehicles. Other significant property damage took place north of Athens (Marathon County) where a couple of barns were destroyed.

Polk County Osceola	28	2210CDT	0	0	?	0	Hail (0.75)
Washburn County Shell Lake	28	2230CDT	0	0	4	0	Thunderstorm Winds
Barron County Cumberland 3 W Chetek Prairie Farm	28 28 29	2315CDT 2330CDT 0020CDT	0 0 0	0 0 0	? 5 5	0 4 0	Hail (1.75) Thunderstorm Winds (G52) Thunderstorm Winds
St. Croix County River Falls Hudson	28 28	2330CDT 2330CDT	1 0	0	5 5	0	Thunderstorm Winds Thunderstorm Winds

MAY 1991

		TIME			NO. PER	OF SONS	EST I	IATED NGE	
PLACE	DATE	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K I L E D		<b>₩₩₩₩₩₩₩</b>	NTORO	CHARACTER OF STORM

### WISCONSIN Cont'd

4 E Hudson	28	2333CDT		0	0	?	0	Hail (1.00)
4 E Hudson	28	2335CDT		Ŏ	0 0 0	? 5 5	Ŏ	Thunderstorm Winds (G52)
3.5 S Baldwin		2345CDT		Ŏ	ŏ	5	Ŏ	Thunderstorm Winds
Glenwood City	<b>29</b>	0005CDT		ŏ	ŏ	š	ŏ	Thunderstorm Winds
	4,9	WOJCD I		U	U	,	v	Thunderstorm whites
Pierce County	20	22.45.CDT		^	^	9	^	774 1 W W.
River Falls	28	2345CDT		0	Ŏ	?	Õ	Thunderstorm Winds
Ellsworth	29	0000CDT		0	0	?	0	Thunderstorm Winds
Chippewa County				_	_	_	_	
New Auburn	28	2345CDT		Ō	0	6	0	Thunderstorm Winds
Bloomer	28	2355CDT		Ŏ	0	6 4 4 6	0	Thunderstorm Winds
Tilden	29	0000CDT	•	Ó	0	4	Ō	Thunderstorm Winds
1 N Holcombe	29	0030CDT		0	0	6	0	Thunderstorm Winds
Rusk County								
Island Lake	29	0010CDT		0	0	5	0	Thunderstorm Winds
5 W Conrath	<b>2</b> 9	0030CDT		ŏ	ŏ	š	4	Thunderstorm Winds
Sheldon	29	0040CDT		ŏ	ŏ	5 6 6	4	Thunderstorm Winds
	23	WWCDI		U	U	U	4	Thunderstorm whites
Price County	20	0035CDT		Λ	Λ	9	Λ	U.:1 (0.75)
Park Falls	29			Ŏ	0	? 5	Ŏ	Hail (0.75)
Kennan	29	0115CDT		0	U	3	0	Thunderstorm Winds (G52)
Taylor County				_	_	_	_	
Rib Lake	29	0125CDT		0	0	?	0	Thunderstorm Winds
Medford	29	0126CDT		0	Ō	?	0	Thunderstorm Winds
Jump River	29	0100CST		0	ŏ	???	0	Thunderstorm Winds
Hannibal	29	0110CDT		0	0	?	0	Thunderstorm Winds
Oneida County								
Minocqua	29	0201CDT		0	0	?	0	Hail (0.75)
Lincoln County		V2010D 1		•	_	•	•	11111 (01/0)
Tomahawk	29	0210CDT		0	0	9	0	Thunderstorm Winds (G50)
Merrill	29	0215CDT		ŏ	ŏ	?	ŏ	Thunderstorm Winds (050)
	29	OZIJCDI		U	U		U	Thunderscolm Anids
Marathon County	29	0224CDT		0	0	?	0	Thunderstorm Winds
Marathon	29	0224CD1		U	U	!	U	I nunderstorm winds
Langlade County	20	MANAGE TE		^	Λ	0	^	77 1 XVC . 1 .
Deerbrook	29	0230CDT		0	0	?	0	Thunderstorm Winds
Forest County				_	_	_	_	
Crandon	29	0300CDT		0	0	?	0	Thunderstorm Winds
Oconto County								
2 S Mountain	29	0315CDT		0	0	?	0	Thunderstorm Winds
Door County								•
Jacksonport	29	0515CDT		0	0	?	0	Thunderstorm Winds
Bailey Harbor	29	0517CDT		Ŏ	Ŏ	?	Ŏ	Thunderstorm Winds
Ellison Bay	<b>29</b>	0520CDT		Ŏ	Ŏ	Ž	Ŏ	Thunderstorm Winds
Sister Bay	29	0530CST		ŏ	ŏ	? ? ?	ŏ	Thunderstorm Winds
Jimi Day	2,	0030001		•	•	•	•	THE PROPERTY OF THE PARTY OF TH

Scattered, severe thunderstorms swept across northern and central Wisconsin with strong winds and hail up to golf ball-size. Over \$8.1 million in damage occurred in the counties of Barron, Chippewa, Price, and Rusk, mainly to over 63,000 acres of woodlands in a damage path 5 miles wide and 35 miles long. The severe winds moved a mobile home 60 feet from its foundation near Chetek (Barron County). At a campground near Holcombe (Chippewa County), five mobile homes were tipped on their sides and over 300 trees were knocked over, damaging homes and resorts. Other damage was mainly confined with trees and power lines. A River Falls farmer was killed when he was hit by an empty fuel storage tank that was blown by intense severe thunderstorm winds. (M440)

Marathon County Edgar Jackson County	29	1545CDT	0	0	?	0 .	Hail (1.75)
Taylor Lacrosse County West Salem	29	1635CST	0	0	4	0	Hail (0.88)
West Salem	29	1700CDT	0	0	4	0	Thunderstorm Winds

MAY 1991

		TIME			NO. OF PERSONS		ESTIMATED DAMAGE			
PLACE	DAT E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	UMACL-K-1	<b>∀-∞om v</b> O∞ v	CECOEN	CHARACTER OF STORM	

### WISCONSIN Cont'd

Wood County Pittsville Saratoga	29 29	1845CDT 1900CDT	0	0	?	0	Thunderstorm Winds Thunderstorm Winds
Portage County Stevens Point Stevens Point		1920CDT 1920CDT	0	0	?	0	Hail (1.00) Thunderstorm Winds
Forest County Armstrong Creek	29	1930CDT	0	0	?	0	Thunderstorm Winds

Widely scattered, severe thunderstorms dropped hail up to golf ball-size hail and caused tree and power line damage over portions of Wisconsin.

Green County 5 S Brodhead	30	1600CDT			0	0	5	0	Thunderstorm Winds
Rock County Milton Milwaukee County	30	1615CDT			0	0	?	0	Thunderstorm Winds
S Milwaukee Trempealeau County	30	1700CDT			0	2	0	0	Lightning
1 W Whitehall	30	1730CDT	0.1	25	0	0	4	0	Tornado (F0)

Severe thunderstorm winds blew down a barn near Brodhead (Green County). A small tornado caused minor tree damage to a golf course near Whitehall (Trempealeau County). Two teenage boys were playing basketball when lightning struck the metal backboard. The boys were injured when the bolt knocked them back 12 feet.

Green Lake County Berlin Winnebago County

31 1150CDT 0 0 ? 0 Hail (1.00) 31 1210CDT 0 0 ? 0 Hail (0.75)

An isolated, severe thunderstorm deposited hail up to 1.00 inch in diameter.

### **WYOMING**

Rush Lake

02	1536MST-							
	1537MST	0.1	20	0	0	0	0	Tornado (F0)
02.				•	-	•	•	101111111111111111111111111111111111111
-		0.1	20	0	0	0	0	Tornado (F0)
(	12 12	02 1536MST- 1537MST 02 1605MST- 1606MST	1537MST 0.1 02 1605MST-	1537MST 0.1 20 02 1605MST-	1537MST 0.1 20 0 02 1605MST-	1537MST 0.1 20 0 0 02 1605MST-	1537MST 0.1 20 0 0 0 02 1605MST-	1537MST 0.1 20 0 0 0 0 02 1605MST-

A band of early spring thunderstorms spawned two weak tornadoes in open country, in southwestern Wyoming. A tornado was reported 2 miles west of Fontenelle at 1536 MST, and 20 miles north of LaBarge at 1605 MST.

Oshen County Near Veteran 5 W Torrington		1515MST 1531MST	0	0	0	0	Hail (1.25) Hail (1.00)
Platte County Near Chugwater	10	1804MST	0	0	0	0	Hail (1.75)

A series of thunderstorms in southeastern Wyoming produced hail in Goshen and Platte Counties.

Natrona County Casper Airport	11	1552MST			0	0	0	0	Hail (0.75)
Converse County 5 South Bill	11	1654MST- 1655MST	0.1	20	0	0	0	0	Tornado (F0)
Weston County Near Upton	11	1839MST- 1840MST	0.1	20	0	0	0	0	Tornado (F0)

MAY 1991

		TIME			NO. PER	OF SONS	ESTIN DAMA	AATED AGE	
PLACE	D	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	OMISC C.E.	<b>≺-खा</b> च0≫•च	COCOEN	CHARACTER OF STORM

	<u> </u>		<u> </u>				Υ		
WYOMING Con	t'd								
Newcastle Airport	11	2222MST 2223MST	0.2	80	0	0	5	0	Tornado (F1)
	afte at 1 165 30	ernoon and 1552 MST. 54 MST. A	evening of Five mile nother ton	the 11th. s south of nado was r	Hail Bill i eporte	up to n Con d near	0.75 i verse r Upto	inch in County n at 18	tral and northeastern Wyoming the diameter was at the Casper Airporty, a tornado touched down briefly a 39 MST. Funnel clouds were noted to the Newcastle Airport was reported
Sheridan County Near Dayton	12	1045MST			0	0	0	0	Hail (1.00)
		late mornin untains.	g thunders	storm proc	luced	hail a	at the	foot o	of the eastern face of the Big Horn
Converse Glenrock	14	1410MST			0	0	0	0	Hail (1.75)
	A t	hunderstorn	n develope	ed over La	ramie	Rang	e and	moved	l over the eastern plains.
Laramie County Cheyenne Airport 3 NE Chey 8 E Chey 7 E Chey 5 NE Chey Countywide	15 15 15 15 15 15	1530MST 1530MST	0.1	80	0 0 0 0	0 0 0 0	0 0 5 4 0	0 0 5 4 0	Hail (1.00) Hail (0.75) Tornado (F1) Hail (3.50) Hail (1.75) Hail (0.75)
	Cho Cho	I, hail was eyenne at 1: eyenne at 1:	s reported 505 MST. 530 MST.	Hail was At 1600	eyenn repoi MST,	ie Air rted 7 wind	port. miles gusts	A toreast of to 77	oming the afternoon of the 15th. A 30 MST. At 1432 MST and at 1502 nado touched down 8 miles east of Cheyenne and 5 miles northeast of mph were logged 29 miles northeast yenne Airport at 1615 MST.
Park County Cody 7 W Powell	18 18	1620MST 1707MST 1708MST	_	60	0	0	5	0 5	Hail (1.75) Tornado (F1)
	Go	ate afternoo If ball-size l niles west o	hail in Coo	storm spav dy caused	vned a damag	hail ge to c	storm cars, a	and a to	tornado in Park County on the 18th ornado caused damage to local crops
11 SW Cody	18	1700MST 2200MST			0	0	4	0	Flood
	of (	anderstorms Cody, the e ter in other	vening of	the 18th.	A co	unty 1	rain or road w	n parts as was	of the South Fork River Basin, wess shed out in places and covered with
Laramie County 5 E Chey 10 SE Chey Cheyenne 10 W Chey 12 W Chey 10 SE Chey	18	1815MST 1900MST 1915MST 1950MST 1957MST 2008MST			0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	Hail (0.75) Hail (1.00) Funnel Cloud Hail (1.00) Hail (1.25) Thunderstorm Winds

MAY 1991

		TIME			NO.	OF SONS	EST I	MATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILL	OMBCLET	4- <del>00</del> m00200	Cocoon	CHARACTER OF STORM

### WYOMING Cont'd

Several thunderstorms developed in southeastern Wyoming the evening of the 18th. Hail up to 0.75 inch in diameter was noted 5 miles east of Cheyenne at 1815 MST. A funnel cloud was reported over Cheyenne at 1915 MST. At 1950 MST, hail up to 1.00 inch in diameter was reported 10 miles west of Cheyenne. Twelve miles west of Cheyenne, 1.25-inch hail was reported at 1957 MST. Thunderstorm winds of 55 mph were noted 10 miles southeast of Cheyenne at 2008 MST.

Goshen County 2 W Veteran	19	1400MST- 1441MST	0.1	20- 40	0	0	n	n	Tornado (F0)
Laramie County 5 S Chey	10	1610MST-	0,1	75	U	U	J	v	Tornado (10)
•	19	1640MST			0	0	0	0	Funnel Cloud
25 N Chey Cheyenne	19 19	1645MST 1711MST			0	0	0	0	Thunderstorm Winds Thunderstorm Winds
one) come	1,	1.11.47.7			•	-		•	I IIIIIIIII WIIIII

A series of thunderstorms developed in southeastern Wyoming the afternoon of the 19th. A tornado touched down briefly 2 miles west of Veteran at 1400 MST. Five miles south of Cheyenne, a funnel cloud was observed at 1610 MST. At 1645 MST, wind gusts to 66 mph were reported 25 miles north of Cheyenne. At 1711 MST, wind gusts of 55 mph were noted at the Cheyenne Airport.

50 N Sinclair	23	1346MST	0	0	0	0	

Thunderstorms in the early afternoon produced a funnel cloud 50 miles north of Sinclair at 1346 MST.

Funnel Cloud

10101

24 1357MST 0 0 0 0 Funnel Cloud

Thunderstorms in south-central Wyoming spawned a funnel cloud at 1357 MST, 10 miles southwest of Hanna.

Sweetwater County 5 W Greenriver

10 SW Hanna

26 1050MST 0 0 0 Funnel Cloud

An early morning thunderstorm produced a funnel cloud 5 miles west of Greenriver at 1050 MST, on the 26th.

Laramie County							
10 NW Cheyenne	26	1419MST-					
•		1422MST	0	0	0	0	Funnel Cloud
5 N Cheyenne 3 E Cheyenne Hillsdale	26	1440MST	0	0	0	0	Funnel Cloud
3 E Cheyenne	26	1514MST	0	0	0	0	Hail (0.75)
Hillsdale	26	1559MST-					
		1601MST	0	0	0	0	Hail (0.75)
2 S Burns	26	1618MST-					` '
		1621MST	0	0	0	0	Hail (0.75)
Burns	26	1627MST	0	0	0	0	Hail (0.75)
Egbert	26	1633MST	0 0	0	Ó	0	Hail (1.00)
Pine Bluffs	26	1658MST	. 0	Ō	0	0	Hail (0.75)
8 N Cheyenne	26	1827MST-		_	_	-	()
· · · · · · · · · · · · · · · · · ·		1837MST	0	0	0	0	Hail (1.00)
Cheyenne	26	1837MST-	_	_	_	_	(4.4.7)
,		1850MST	0	0	0	0	Hail (0.75)
5 S Chey	26	1845MST	0	Ŏ	Ŏ	Ŏ	Hail (1.00)
,			_	-	_	-	()

Several thunderstorms in southeastern Wyoming the afternoon and evening of the 26th produced hail. A funnel cloud was observed 10 miles north of Cheyenne at 1419 MST, and again at 1440 MST 5 miles north of Cheyenne. Hail was reported at Hillsdale at 1559 MST. Hail collected

MAY 1991

		TIME		·	NO. PER	OF SONS	EST II	ATED AGE	
PLACE	DA	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLIM	OMACIE !	₽. <b>Ж</b> ОФ.Ш <b>Ж</b> Y	CECOLO	CHARACTER OF STORM

2 miles south of	Burns at 1618	MST, and	at Burns at	1627 MST.	Hail was re	ported at 1	Egber
at 1633 MST, at	Pine Bluffs at	1658 MST	, and 8 mile	es north of (	Cheyenne at 1	1827 MST.	. Hai
also was reporte	d 5 miles south	h of Cheyer	nne at 1845	MST.	•		

			(MILES)	(TAKUS)	5	Ē	R Y	3	
WYOMING Co	ont'd								
	at :	niles south 1633 MST, o was repor	at Pine Bl	uffs at 165	8 MS	T, and	d 8 mi	les nor	MST. Hail was reported at Egbe th of Cheyenne at 1827 MST. Ha
Fremont County Riverton	. 27	1045MST 1105MST			0	0	0	0	Hail (0.75)
	<b>A</b> 1	late morning	g thunders	torm produ	iced (	).75-iı	nch ha	il at th	e Riverton Airport at 1045 MST.
Goshen County La Grange	28	1625MST	•		0	0	0	0	Hail (2.00)
La Grange	28	1625MST 1800MST	-		0	0	0	0	Flood
	La(	e afternoor Grange at 1 Grange befo	610 MST.	Rainfall o	he 28 of 1.2	8th in 21 inc	southe hes bro	ern Go ought l	oshen County brought large hail t local flooding to some basements i
Laramie County Cheyenne	28	1653MST 1712MST			0	0	0	0	Hail (0.75)
	Αl	late afternoo	on thunder	storm brou	ght 0	.75-ir	nch hai	il to Cl	heyenne at 1653 MST.
Cheyenne	30	1741MST 1756MST			0	0	0	0	Hail (1.00)
	A l	ate afternoo 1741 MST.	n thunders	storm over	south	neaste	rn Wy	oming	brought 1.00-inch hail to Cheyenn
ALASKA, Sout	heaste	ern							
	No	ne reported							
HAWAII									
Lanai	20	1730			0	0	0	0	Funnel Cloud
	Αí	funnel cloud	l was repo	rted near L	anai	Airpo	ort.		
Oahu	21	1620- 1630			0	0	0	0	Funnel Cloud
	A f	funnel aloft	was repor	ted over H	1 Fre	æway	near l	Makaki	ilo.
Oahu	22	1400			0	0	0	0	Funnel Cloud
	A 1	funnel aloft	was briefl	y observed	over	Kane	ohe B	ay.	
Oahu	22	1435- 1445			0	0	0	0	Funnel Cloud
	A f	funnel cloud	l was obse	rved near V	Waipi	io and	Milila	ani.	

Oahu **Funnel Cloud** 0

A funnel cloud was observed near Wheeler Field.

MAY 1991

		TIME			NO.	OF SONS	EST I	AGE	
PLACE	DAO-E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	I N UREO		CRODA	CHARACTER OF STORM

## **PACIFIC**

Guam

09 Unknown

0 0 5 5 Typhoon Walt

Typhoon Walt moved just south of Guam causing minor wind and flooding damage, mainly in the southern sections. Walt was the northern tropical cyclone from a pair of twins that formed near the equator, southeast of Guam, a couple of days earlier. The southern twin was named Lisa.

### **PUERTO RICO**

PRZ005

20 Afternoon

0 0 4 0 Mudslide

A weak tropical wave brought thunderstorms with heavy rains over the Western Interior section of Puerto Rico. The municipalities of Utuado, Jayuya, Lares, and Adjuntas received rainfall amounts of 1.00 to 3.50 inches in 2 hours. There were several reports of impassable roads due to localized flooding and fallen trees in this area. In Utuado, there was a total of five houses affected by a mudslide.

### VIRGIN ISLANDS

None reported.

# CORRECTIONS

AUGUST 1990 - Pages 95, 96, and 97 read September but should read August.

# JANUARY 1991

UTAH - Page 51

UTZ001-003 Northwestern Valleys

02 0500MST-1200MTS

4 18 5

Dense Fog

High pressure over the area created a strong inversion which in turn caused areas of dense fog. One area of dense fog formed in a low-lying area of Interstate 215 just south of the Great Salt Lake during the morning of the 2nd. This caused four multi-vehicle accidents involving 52 vehicles; the accident resulted in 4 fatalities and 18 injuries.

## FEBRUARY 1991

**CONNECTICUT** - Page 15

CTZ001-004-005

26 All Day-

27 Early Morning

0 0 0 Heavy Snow

Heavy snow accumulated across the southwestern portion of the state with amounts of 8 to 10 inches reported from Fairfield County. Ridgefield received 10 inches; New Fairfield received 8.5 inches; and both New Canaan and Redding received 8 inches. The immediate coastal section of southwestern Connecticut received 4 to 5 inches.

APRIL 1991 - Page 18 - Aurora Borealis - March 24, 1991

March 13, 1991 should read March 13, 1989.

MAY 1991

		TIME			NO. PER	OF SONS	EST II	ATED	
PLACE	D A E	LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	K-L-WO	OmbC.Z.	~	CECOEN	CHARACTER OF STORM

# **ADDITIONS**

<b>APRIL</b> 1991	
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OKLAHOMA - Page 156

Kingfisher and Canadian Counties Okarche	02	0000CST	0	0	?	?	Hail (0.75)
Page 157							•
Cotton County 8 SSW Temple 5 S Randlett Marshall County 7 E Kingston Blaine County 2 N Okeene Geary Alfalfa County Goltry Caddo County Carnegie Carter County Lone Grove	02 02 02 12 12 12 12	1815CST 1905CST 2244CST 1307CST 1510CST 1545CST 1600CST 1705CST	0 0 0 0 0 0	0 0 0 0 0 0	???????????	???????????????????????????????????????	Hail (0.75) Hail (0.75) Hail (1.25) Hail (1.00) Hail (2.75) Hail (1.00) Hail (1.00) Thunderstorm Winds
	Stro	ong winds from a severe thunder	storm	down			one Grove.
Kingfisher County 7 WNW Okaarche 1 NW Okarche 1 E Okarche Kay County	14 14 14	1633CST 1633CST 1651CST	0 0 0	0 0 0	???	???	Hail (0.75) Hail (0.75) Hail (0.75)
Ponca City Jefferson County 4 N Grady	17 17	1445CST 1545CST	0	0	?	? -	Hail (0.75) Hail (0.75)
Comanche County 9 NW Meers Garfield County	17	2230CST	0	0	?	?	Hail (0.75)
Enid Kay County Blackwell	26 26	0427CST 0542CST	0	0	?	?	Hail (1.25) Hail (0.88)
McCurtain County Idabel	26	2200CST	0	0	?	?	Hail (1.25)

				,							,	,		,													
TYPE	ALABAMA	ARIZONA	ARKANNAN	CALIFORNIA	COLORADO	CONNECTHOUT	DELAWARE	FLORIDA	GWORG-A	IDAHO	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & DC	MASSACHUSELHS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	HAMPHHAME KINK
TORNADOES  Number Days Deaths Injuries Property Damage Crop Damage					38120050			97 00 7 1	1 10050	320050	13 0 0 0	410000	1040054	5400255		95015?				52005?	9200??	210050	220000	750050	29,604,64	0	10000
HAIL  Deaths Injuries Property Damage Crop Damage THUNDERSTORM WINDS	00%	٠			0070			004			0045	00??	0065	0006	0003	005?				0040	0002?		0053	0055	0045		
Deaths Injuries Property Damage Crop Damage HIGH WINDS	0568	,	0050		00000	0040	0030	0000	0004	0040	3264	0000?	0265	1 12 5 5		0275	0020	0250	0000	1250	0222?	0050	0000	0050	005		0170
Deaths Injuries Property Damage Crop Damage		0000		1 0 ? 0	0050									0050													
Deaths Injuries Property Damage Crop Damage FLASH FLOODS	0000		-		0540	0000		1531	0050	0050	1400	1000	0000		1200	015?	0000	1040	0040	0240	0000		0050	00%0	0000		0050
Deaths Injuries Property Damage Crop Damage FLOODS	00??		0000		0054				0000	0000	0454	0000	0076	0075	0055	0000			0070	0050		0000	0000	00000	1 0 7 6		
Deaths Injuries Property Damage Crop Damage HEAVY SNOWSTORMS AND BLIZZARDS a	'								•		0004		0077			0000				0049		0000		0000			
Deaths Injuries Property Damage Crop Damage ICE STORMS #																								OMO			
Deaths Injuries Property Damage Crop Damage HURRICANES AND TROPICAL STORMS																											
Deaths Injuries Property Damage Crop Damage ALL OTHERS														-													
Deaths Injuries Property Damage Crop Damage									0050	0050		00??	0008					1 0 0 0									

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TYPE	AMOZME ERZ	OOTXEM KEN	XAOA KIRK	NORTH CAROLINA	NORTH DAKOTA	OHIO	OKLAHOMA	OREGOZ	PENNSYLVANIA	RHODE ISLAND	SOUTH CAROLINA	SOUTH DAKOTA	HENNESSHE	TEXAS	UTAH	VER MONT	VIRGINIA	MASHINGHON	WEST VIRGINIA	ZHWZOUWHZ	JYOX≥G	ALASKA	HAZALI	PACHEHO	00-20 0-00	SHEGHE HOLKEDO	STINGUAL DEATHS
TORNADOES	T																					ŧ	0			0	
Number Days Deaths Injuries Property Damage Crop Damage		640700	310050		320044	110050	2070665	1000?	32035?		100?0	1850 2570		721604-64						320050	850055						347
HAIL  Deaths Injuries Property Damage Crop Damage	0020	0050	0000		0 2 4	0050	00??		00??		00??	0265		0 0 7 5						0000	0054		ļ.				2
THUNDERSTORM WINDS																								,-		7.	
Deaths Injuries Property Damage Crop Damage	014?	0000	1 37 0	0 0 5 0	0254	23700	000?		020?		1 1 ? ?	0	0000	0 2 7 3		0040	0050		014?	1005				,			29
HIGH WINDS																											
Deaths Injuries Property Damage Crop Damage															0050	0340		-									3
LIGHTNING																											
Deaths Injuries Property Damage Crop Damage	0000		50	000			006?	0040	,	0	0020	0050	0030	0 5 1	0 1 5 0		0 1 5 0			0240							48 48
FLASH FLOODS										!											ا ا						
Deaths Injuries Property Damage Crop Damage	00?0		0030	0000			0030				00??	0004	0 7 6 6	0002			050		0040		0040			:			11
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Deaths Injuries Property Damage Crop Damage		0000	 					0000				0066						004?				. !				٠	
HEAVY SNOWSTORMS AND BLIZZARDS @														i									-				
Deaths Injuries Property Damage Crop Damage	ļ 																					,				•	
ICE STORMS #																											
Deaths Injuries Property Damage Crop Damage		 																									
HURRICANES AND TROPICAL STORMS					<u> </u>																						
Deaths Injuries Property Damage Crop Damage																								0055			
ALL OTHERS	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ		[ ]				1	ĺ	[		ĺ	1		1	[		i i		i i			1 1

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ALL OTHERS

Deaths Injuries Property Damage Crop Damage

# STORM DAMAGE CATAGORIES

# REFERENCE NOTES

2 3 4 5 6 7 8	Less than \$50 \$50 to \$500 \$500 to \$5,000 \$5,000 to \$50,000 \$50,000 to \$500,000 \$500,000 to \$5 Million \$5 Million to \$50 Million \$50 Million to \$500 Million \$500 Million to \$5 Billion	0/Blank * ** 0 # # # o/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.

(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

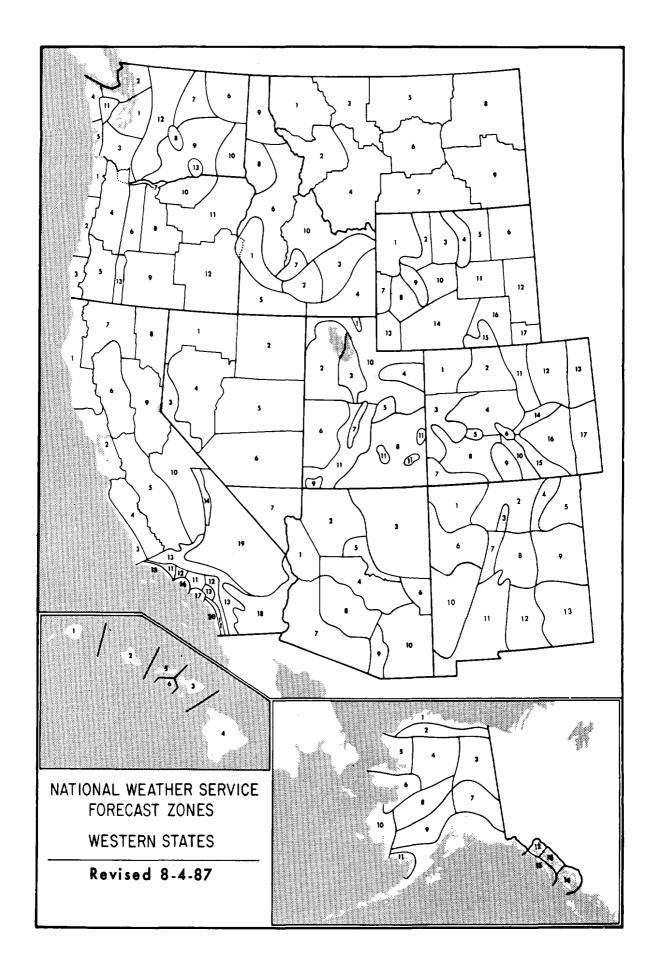
From J. Atmos. Sci., August 1981, p. 1517-1519

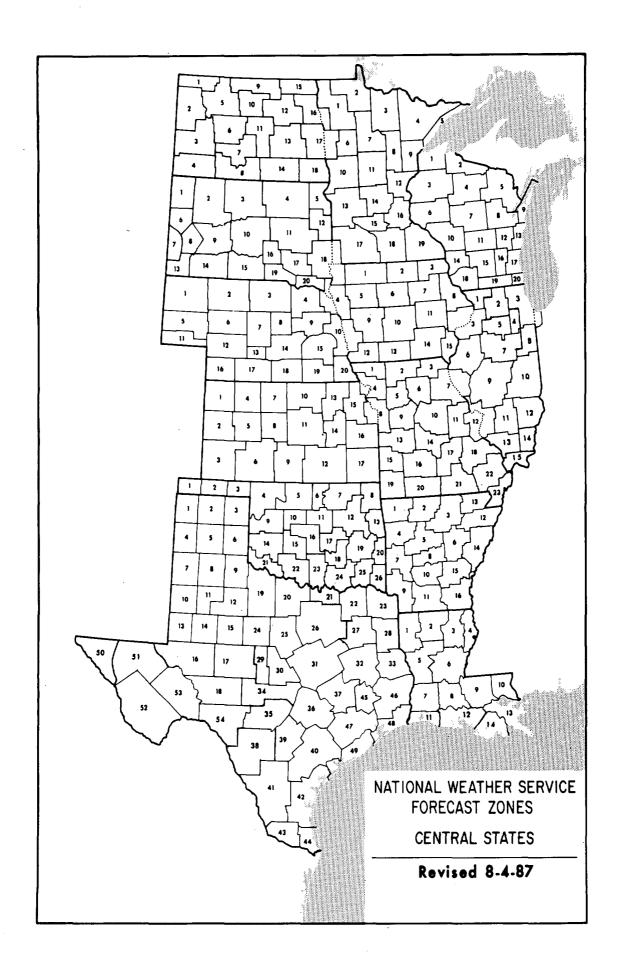


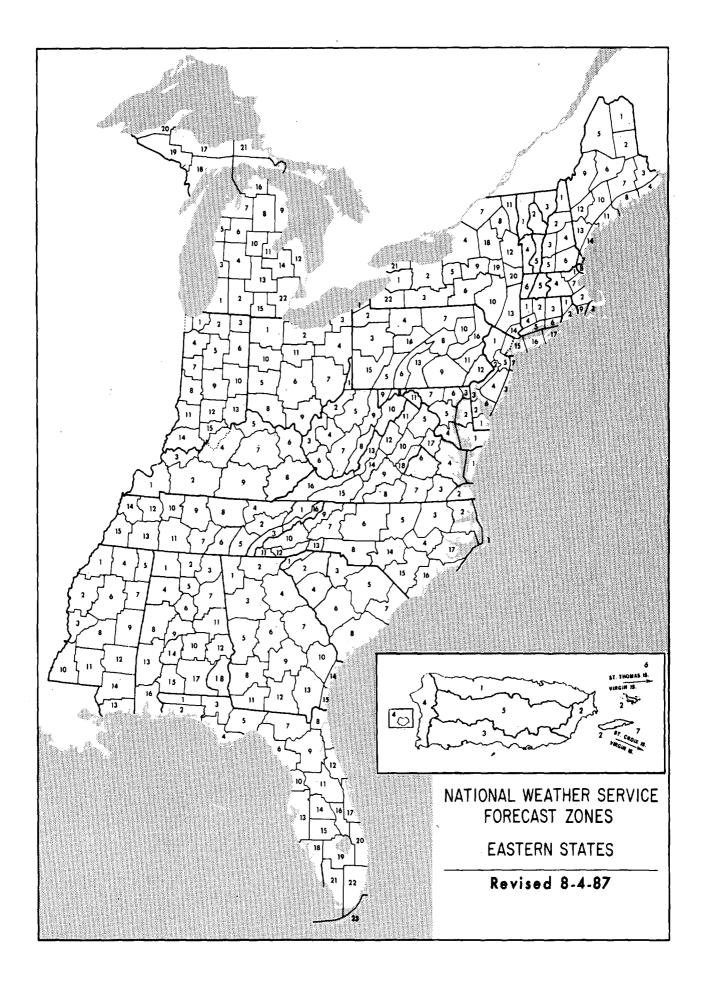












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