

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Morgan County									
Decatur	02	1300CST			0	0	30K	0	Thunderstorm Wind (G65) An apparent microburst struck Decatur in northwest Morgan County causing major damage to several stores. The roof was blown off an auto parts store and the north wall of a clothing store was collapsed. Several other businesses sustained minor damage to roofs and walls. Power lines and a few trees were also blown down. Wind was estimated to be in excess of 70 mph.
ALZ044									
Montgomery	04	0630CST			0	0	0	0	Extreme Cold A new record low of 62 degrees was set at Montgomery.
Lee County									
5 SW Auburn	05	1820CST			0	0	5K	0	Thunderstorm Wind (G50) Trees were downed along County Road 191 and County Road 10 in southwest Lee County.
Jackson County									
Section	07	1411CST			0	0	5K	0	Thunderstorm Wind A power pole was blown down in Section in the southeast part of the county.
Dekalb County									
Henagar	07	1418CST			0	0	4K	0	Thunderstorm Wind (G50) A wind gust to 56 mph was reported by the public in Henagar in the northern part of the county.
Dekalb County									
Henagar	07	1441CST			0	0	10K	0	Thunderstorm Wind Trees and power lines were reportedly blown down by the wind.
Limestone County									
Athens	07	1500CST			0	0	10K	0	Lightning Lightning struck a fire hydrant in Athens and caused the water line to break.
Shelby County									
Alabaster	07	1612CST			0	0	8K	0	Hail (1.00) Hail the size of quarters was reported at Thompson High School by amateur radio storm spotters.
Shelby County									
Alabaster	07	1612CST			0	0	10K	0	Thunderstorm Wind A telephone pole was blown down by the wind.
Limestone County									
Athens	07	1630CST			0	0	15K	0	Lightning Lightning struck a power pole and severed it knocking out power to 3500 residents in the central part of the county.
Marshall County									
5 SW Boaz	07	1645CST			0	0	10K	0	Thunderstorm Wind (G50) Trees were blown down in the Whitesville area in the southern part of the county.
Etowah County									
Gadsden	07	1700CST			0	0	10K	0	Lightning Lightning struck a sub-station and caused power outages for several hours. The cities of Gadsden, Attalla, and Ball Park were affected. Time is estimated.
Lamar County									
Vernon	07	1903CST			0	0	5K	2K	Hail (0.75) Hail from one-half to three-quarters of an inch fell just west and southwest of Vernon in the central part of the county.
Tuscaloosa County									
Tuscaloosa	07	1930CST			0	0	10K	0	Lightning Nearly 4,000 residents were without power after lightning struck a transformer.
Montgomery County									
11 S Montgomery	07	2110CST			0	0	0	0	Funnel Cloud A funnel cloud was reported along Interstate 65 at the Pintala exit.
Tuscaloosa County									
Tuscaloosa	08	1755CST			0	0	25K	0	Lightning Lightning struck a home causing a fire that resulted in moderate damage to two rooms and the garage.
Fayette County									
Fayette	14	1710CST			0	0	15K	2K	Thunderstorm Wind (G50) A roof was blown off a mobile home and damage was reported to at least three other homes in Fayette. Trees and power lines were reported downed in scattered locations across the county.
Calhoun County									
Anniston	14	1730CST			0	0	10K	0	Lightning Lightning disabled the 911 service in Calhoun when the computer was knocked out of service. Calls had to be rerouted to Etowah County.
Lawrence County									
Moulton	14	1800CST			0	0	5K	0	Thunderstorm Wind (G50) Thunderstorm wind knocked down trees in Moulton in the central part of the county.
Cullman County									
5 N Cullman	14	1823CST			0	0	10K	0	Thunderstorm Wind (G50) Cullman County EMA reported several trees down just north of Cullman.

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ALABAMA, North Central									
Morgan County Hartselle	14	1844CST			0	0	15K	2K	Thunderstorm Wind (G50)
									Several large trees were blown down and one fell on a house causing minor damage. Power lines were also downed in Hartselle in the west-central part of the county.
Morgan County Lacey Spring	14	1903CST			0	0	12K	0	Thunderstorm Wind (G50)
									Trees were blown down in Lacey Springs in the northeast part of the county. One tree fell on a car.
Madison County Huntsville	14	1930CST			0	0	10K	0	Lightning
									Lightning struck the generator room at WAAY-TV setting the breaker box on fire and knocking the station off the air for more than an hour.
Montgomery County Montgomery	17	1430CST			0	1	15K	0	Lightning
									A man was injured while seeking shelter under a tree. A lightning bolt struck the tree and traveled along the ground through the man. During the same storm, lightning struck a sub-station and about 5,000 residents lost power for several hours.
Madison County Huntsville	20	1311CST			0	0	20K	0	Lightning
									Lightning struck a sub-station causing power outages to 23,000 residents. Power was out for over an hour mainly from Huntsville northward to the Tennessee line.
Cullman County Goodhope	22	1540CST			0	0	0	0	Funnel Cloud
									A funnel cloud was reported along Interstate 65 near Goodhope in the central portion of the county.
Jefferson County Leeds/Trussville	22	1605CST			0	0	0	0	Funnel Cloud
									A funnel cloud was reported over the Leeds and Trussville area in the eastern part of the county.
Blount County 3 S Locust Fork	22	1612CST			0	0	10K	0	Thunderstorm Wind (G50)
									Power lines were down along Highway 79 south of Locust Fork in the southern part of the county.
Jefferson County Birmingham	22	1645CST			0	0	20K	0	Thunderstorm Wind (G50)
									A very large tree was blown over and damaged 8 cars near Legion Field.
Jefferson County Homewood	22	1656CST			0	0	10K	0	Thunderstorm Wind (G50)
									A few large tree limbs were reported blown down in Homewood and Vestavia Hills in the Birmingham area.
Limestone County Athens	22	2110CST			0	0	10K	0	Thunderstorm Wind (G50)
									Trees and power lines were downed. About 1700 residents were without power in Athens in the central part of the county.
Madison County Huntsville	22	2145CST			0	0	10K	0	Thunderstorm Wind (G50)
									Trees and power lines were down across the county. About 4,000 residents were without electricity.
Tuscaloosa County Tuscaloosa	24	1600CST 1800CST			0	0	65K	0	Flash Flood
									About two inches of rain fell in Tuscaloosa in less than an hour causing serious flash flooding in the city. The water was reported to be four feet deep in some areas. About 50 cars were damaged in a used car dealership due to rising water. The water was high enough to cause cars to float. Several small bridges over small creeks were washed away.
Jefferson County Birmingham	24	1615CST			0	0	15K	0	Thunderstorm Wind (G50)
									A few trees were down on an apartment complex in the Five Points West area.
Shelby County Indian Springs	24	1630CST			0	0	12K	0	Thunderstorm Wind (G50)
									A large limb broke off and fell onto a fence destroying the fence section. A few other trees were uprooted in the same neighborhood in northern Shelby County.
Jefferson County Pinson	24	1641CST			0	0	0	0	Funnel Cloud
									A funnel cloud was reported in Pinson in the northeast part of Jefferson County.
Jefferson County Bessemer	24	1645CST			0	0	10K	0	Thunderstorm Wind
									Trees were downed across Highway 150 near Bessemer in the southern portion of Jefferson County.
Tuscaloosa County Tuscaloosa	24	1700CST			0	0	15K	0	Lightning
									Lightning struck a sub-station leaving about 8,300 residents without power.
Chambers County Lanett	24	2100CST			0	0	10K	0	Thunderstorm Wind (G50)
									Trees and power lines were downed in the eastern part of the county.

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ALABAMA, North Central

Chambers County

Lanett	24	2115CST 2300CST			0	0	15K	2K	Flash Flood
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Heavy rain caused flash flooding that closed all roads in the city of Lanett. One person was trapped in their car due to rapidly rising water.

Tuscaloosa County

Tuscaloosa	27	1600CST			0	0	10K	0	Thunderstorm Wind (G50)
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Several power lines and a few trees were downed in the southern part of the city. Time is estimated.

ALABAMA, Southeast

NONE REPORTED.

ALABAMA, Southwest

Choctaw County

Toxey	08	1800CST			0	0			Funnel Cloud
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A funnel cloud was reported just northwest of Toxey. The funnel never touched the ground.

Mobile County

Semmes	09	1545CST			0	0			Hail (0.75)
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Dime size hail was reported in Semmes.

Mobile County

Georgetown	09	1615CST			0	0	2K		Thunderstorm Wind (G55)
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Several limbs and power lines were blown down along US Hwy 45 near the city of Georgetown.

ALZ061

Upper Mobile

11	0800CST 1500CST			1	0				Excessive Heat
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A 34 year old female was found in her vehicle suffering from a heat stroke outside a doctors office. She was estimated to have been in the vehicle for five and one half hours before being found. The outside air temperature climbed to 94 degrees and when found her body temperature was 108 degrees. She had first and second degree burns on her legs. She died in the hospital four days later from heat stroke. It is unknown if the heat is what caused her to pass out in the first place. F34VE

Mobile County

Mobile	13	1106CST			0	0	15K		Lightning
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Lightning struck a home in Mobile and caused it to catch on fire.

Clarke County

Grove Hill	13	1330CST			0	0	2K		Thunderstorm Wind (G55)
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Trees and power lines were blown down near Grove Hill.

Choctaw County

Butler	13	1510CST			0	0	2K		Thunderstorm Wind (G55)
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Trees and power lines were blown down near Butler.

Mobile County

Mobile	20	1530CST			0	0	300K		Lightning
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Lightning struck an office building in Mobile. The building caught fire and sustained heavy damage.

Escambia County

Wallace	28	1400CST			0	0	2K		Thunderstorm Wind (G55)
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Trees and power lines were blown down along County Road 40 near Wallace.

Baldwin County

Orange Beach	30	1600CST			1	1			Rip Currents
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A couple was swimming in the gulf just offshore of Orange Beach when strong rip currents took them both under the water. The husband tried to save his wife but was unable to do so. She drowned and he was taken to a local hospital and was later released. They were from out of town and were in the area to attend a funeral. F67IW

ALASKA, Northern

AKZ005-024

Lower Kobuk Valley-Northern Seward Peninsula - St. Lawrence Island-Bering Strait Coast

22	2100AST			0	0				High Wind (G40)
23	1215AST								

A slow moving storm was just south of the Gulf of Anadyr and the associated weather front was moving north toward the Bering Strait. The combination created a strong southerly push of warm air, even though the weather front did not reach the Bering Strait until the next day, after it had greatly weakened.

Cape Prince of Wales PMEL Platform reported winds south 36 to 40 kts sustained.

PATC (Tin City) AWOS reported sustained south winds at 35 kts at 2300 AST, just before the wind instrument on the AWOS stopped reporting.

Zone 5 - PASH (Shishmaref) reported 35 kts for one hour on the 23rd beginning 1100 AST. PAPO (Point Hope) reported a max of 36 kts sustained during the period 0800-1200 AST on the 23rd. Other localities to the east (PAOT, PASK, PAWN) did not receive as high of winds - about 28-30kt sustained)

ALASKA, Southeast

NONE REPORTED.

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ALASKA, Southern									
AKZ021	Western Alaska Peninsula								
	02	1700AST			0	0			High Wind (G39)
	03	1800AST							
	A moderate low developed in the extreme northcentral Pacific...then curved steadily eastward just south of the eastern Aleutians and Alaska Peninsula Wednesday and Thursday. Wind gusts reached 45 mph at Cold Bay Tuesday evening and again Wednesday evening just before 6pm.								
AKZ021	Western Alaska Peninsula								
	06	0000AST			0	0			Temperature Record
		2359AST							
	High temperature record of 63 at Cold Bay.								
AKZ018-021	Cook Inlet-Susitna Valley - Western Alaska Peninsula								
	08	0000AST			0	0			High Wind (G44)
	10	2359AST							
	A deepening low moved east northeast into the southern Bering...about 240 miles north of Amchitka as a 980mb center at 10 pm Sunday. Unofficial wind gusts between 40 and 60 mph were reported by several ships along the Aleutian chain. The low then curved east southeast and began to weaken south of Dutch Harbor Tuesday...July 9th. The event lasted from July 7-9 and affected the Bristol Bay Coast, the Alaska Peninsula and Aleutian chain.								
AKZ021	Western Alaska Peninsula								
	15	0000AST			0	0			High Wind (G41)
	16	2359AST							
	A moderate low moved northeastward from the northwest Pacific Sunday, July 14...to 180 miles south of Shemya Monday morning. The low then began to weaken...moving into the western Bering Sea as a 1005mb center early Wednesday, July 17. The front associated with this low elongated both north and east...reaching the west coast of the state and western corner of the Alaska Peninsula early Wednesday. Wind gusts reached 47 mph at Cold Bay in advance of the front.								
AKZ010>011-021	Yukon-Kuskokwim Delta - Bristol Bay Coastal - Western Alaska Peninsula								
	25	0000AST			0	0			High Wind (G45)
	28	2359AST							
	A moderate coldfront moved southeast from Russia across the Bering Sea Thursday...reaching the Yukon-Kuskokwim Delta early Friday. At the same time...a small low developed along the front near Dutch Harbor early Friday...dissipating about 18 hours later. Another, more significant low developed along the front near Amchitka late Friday afternoon...moving into the Pribilof Islands as a 998mb center late Saturday. The moved into Kuskokwim Bay and weakened early Monday...July 29. Wind gusts reached 49 mph at Cold Bay on Friday...47 mph on Thursday, 48 mph on Saturday and 47 mph on Sunday ahead of these systems. Gusts of 51 mph were recorded at Bethel on Thursday and 41 mph on Friday. Gusts reached 52 mph at Cape Newenham on Friday.								
AKZ010-021	Yukon-Kuskokwim Delta - Western Alaska Peninsula								
	31	0000AST			0	0			High Wind (G47)
		2359AST							
	A moderate 985mb low developed near the Komandorskiye Islands of Russia early Tuesday, July 30...moving northeastward through the Bering Sea to just south of the Gulf of Anadyr late Wednesday as a 978mb center. The front associated with this low extended from the low into the extreme western Aleutians early Tuesday...making landfall near Nome, Bethel and Cold Bay late Wednesday, July 31. Unofficial ship reports indicated wind gusts in excess of 40 mph in advance of the front. On Wednesday, wind gusts reached 54 mph at Cold Bay and 41 mph at Bethel.								
ARIZONA, Central and Northeast									
Yavapai County									
Crown King	03	1600MST			0	0			Flash Flood
		1700MST							
	Flash flood of Poland Creek in Crown King and several roads in Crown King. No damage or injuries.								
Yavapai County									
Cottonwood	04	1630MST			0	0	0.50K	0	Thunderstorm Wind (G100)
		1700MST							
	Thunderstorm wind gusts ESTIMATED at 100 mph by a trained Skywarn weather spotter snapped off the top half of a large amateur radio antenna tower. Also, a 400 pound sun collector was moved 5 feet.								
Yavapai County									
10 N Camp Verde	14	1705MST			0	0			Hail (0.75)
		1710MST							
Yavapai County									
Prescott	16	1500MST			0	0			Flash Flood
		1530MST							
	Rapid flooding of the Williamson Valley and Chino Loop roads in Prescott was caused by 2.5 inches of rain in one hour. No damage or injuries.								
Coconino County									
40 SE Happy Jack	25	1500MST			0	0			Funnel Cloud
		1530MST							
	U.S.D.A. Forest Service reported sighting 7 funnel clouds near the Chevlon Ranger Station. None of the funnels touched down and there was no damage reported.								

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<u>ARIZONA, Central and Northeast</u>									
Coconino County 8 S Flagstaff	26	1225MST 1235MST			0	0			Hail (1.00)
1.00 inch diameter hail fell on the Kachina Village area. No damage or injuries reported.									
Coconino County 3 N Flagstaff	26	1240MST 1250MST			0	0			Hail (1.75)
Yavapai County 1 E Prescott	26	1500MST 1510MST			0	0			Hail (0.75)
Yavapai County Prescott	26	1520MST 1525MST			0	0			Hail (1.00)
Coconino County 10 NW Seligman	26	1635MST 1640MST			0	0			Hail (0.75)
Yavapai County 5 SE Prescott	26	1710MST 1720MST			0	0			Hail (1.00)
<u>ARIZONA, Northwest</u>									
Mohave County Bullhead City Arpt	10	1524PST			0	0			Thunderstorm Wind (G62)
Wind gusts to 71 mph were recorded at Bullhead City Airport from a nearby thunderstorm.									
<u>ARIZONA, South</u>									
Cochise County St David	03	0720MST 0730MST			0	0	1K		Thunderstorm Wind (G60)
Strong thunderstorm winds caused tree damage.									
Santa Cruz County Ne Santa Cruz County	04	1715MST 1730MST			0	0			Thunderstorm Wind (G64)
Santa Cruz County 5 S Sonoita	04	1725MST			0	0			Thunderstorm Wind (G52)
Santa Cruz County Elgin	04	1730MST			0	0			Thunderstorm Wind (G52)
Strong thunderstorm winds blow a 2 inch limb off a cottonwood tree in Elgin.									
Santa Cruz County Patagonia	05	1345MST			0	0			Hail (0.75)
Pima County Avra Valley	05	1400MST			0	0	350K		Thunderstorm Wind
Strong thunderstorm winds caused \$350,000 damage to gliders and structures at Avra Valley glider airport.									
Pima County Arivaca	05	1440MST 1500MST			0	0			Thunderstorm Wind (G50)
1.5 inches rain in 20 minutes accompanied the strong winds.									
Santa Cruz County Nogales Intl Arpt	06	1620MST 1625MST			0	0			Hail (0.75)
Cochise County Benson	06	1720MST			0	0			Tstm Wind/Hail
Strong thunderstorm winds knocked down a six inch diameter tree limb.									
Cochise County 10 S Sierra Vista	06	1815MST			0	0			Flash Flood
Thunderstorms with very heavy rainfall 5-10 s of Sierra Vista washed out numerous roads and water lines. Boulders as large as cars were deposited on Hereford Road.									
Cochise County 4 S Sierra Vista	06	1815MST			0	0			Thunderstorm Wind (G56)
Strong thunderstorm winds and local street flooding.									
Cochise County 10 S Sierra Vista	06	2020MST			0	0			Flash Flood
Thunderstorm flash flooding washed out Hereford Road.									
Pima County 5 N Arivaca Jct to 8 NW Arivaca Jct	07	1920MST 1925MST			0	0	200K		Thunderstorm Wind
A thunderstorm moving through a remote area knocked down 25 power poles cutting power to Amado. Power in Amado was out for 36 hours following the wind damage. A mobile home was also overturned and demolished near Sahuarita.									

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ARIZONA, South								
Pima County (Dma)Davis Monthan A to 1 W Tucson Intl Arpt	08	1550MST 1620MST			0	0	200K	Thunderstorm Wind (G82)
A strong thunderstorm moved through the Tucson area with wind related damage. A small shed was blown through a fence and destroyed. A roof was blown off a double wide mobile home and carried across neighboring homes. Roofs were blown off and windows blown out of trailers. At Tucson International Airport, 4 airplanes were damaged and the roof was blown off a hanger. One to two feet diameter trees were snapped. A spotter 6SE of Tucson measured a 57 Kt wind. The 82 Kt wind from this storm was recorded at Davis Monthon Air Base.								
Pima County Tucson	08	1600MST 1730MST			0	0		Flash Flood
A strong thunderstorm created street flooding in south and southeast Tucson. Cars were stranded with 6 inches to two feet of water over roadways.								
Cochise County Bowie	11	1800MST 1900MST			0	0		Flash Flood
Flash flooding caused some road closures near Bowie.								
Cochise County Bisbee	13	1600MST 1820MST			0	0		Flash Flood
1.6 inches of rain in 1.5 hours caused 4 inches to 1 foot of water over low lying areas between Bisbee and Palominas. Many roads in the area impassable due to water over the roadway.								
Cochise County 13 NW Willcox	14	1745MST			0	0		Flash Flood
Heavy rains from thunderstorms flooded fields. Spotter reports indicated in excess of 2 inches storm total with some areas receiving 1 inch in 15 minutes.								
Pima County Tucson	14	2030MST 2150MST			0	0		Urban/Sml Stream Fld
Thunderstorm rains caused minor street flooding in Tucson. Spotter near Vail reported just over 1 inch of rain in 25 minutes. Seven cars were stalled in high water on Grant road on the east side of Tucson.								
Cochise County Bisbee	22	1942MST			0	0		Tstm Wind/Hail
Thunderstorm winds caused a power outage in Bisbee.								
Cochise County 13 NW Willcox	24	1850MST 1900MST			0	0		Thunderstorm Wind (G52)
Cochise County Benson	25	1420MST			0	0		Hail (1.00)
Pima County 10 SW Tucson	25	1550MST			0	0		Thunderstorm Wind (G64)
Pima County 15 W Tucson	25	1550MST			0	0		Hail (1.75)
1.75 inch hail reported near Three Points, just west of Tucson.								
Pima County 8 SW Tucson	25	1600MST			0	0		Hail (1.75)
1.75 inch hail reported at Tucson Estates. Wind damage also reported by law enforcement.								
Pima County Tucson	25	1600MST			0	0		Lightning
Local Tucson media reported two houses struck by lightning, one house started on fire by lightning.								
Pima County 6 SW Tucson	25	1605MST			0	0		Hail (0.75)
Pima County 10 SW Tucson	25	1610MST 1715MST			0	0		Flash Flood
Flash flooding reported near Kinney Road, 1 mile north of Ajo Road.								
AZZ022	Southeast Pinal County	25	1730MST		0	0	30K	Dust Storm
Strong thunderstorm winds with visibilities reduced by dust toppled a double wide mobile home in transit on I-10 near Picacho.								
Graham County Winkelman	25	1750MST 1757MST			0	0	10K	Thunderstorm Wind (G50)
Strong thunderstorm winds caused roof damage south of Winkelman.								
Pima County 15 SW Tucson	27	1510MST 1550MST			0	0		Flash Flood
A strong thunderstorm produced flash flooding and wind damage near Taylor and Ajo Roads. The water was running one foot deep								

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ARIZONA, South									
and a Mobile home rolled over.									
Pima County 10 W Tucson	27	1515MST			0	0			Thunderstorm Wind (G63)
Pima County Ski Valley	27	1600MST			0	0			Hail (0.75)
A strong thunderstorm produced .75 diameter inch hail at Ski Valley on Mt Lemmon. The hail accumulated to a depth of 4 inches on the ground.									
Santa Cruz County 5 SE Sonoita	31	1230MST			0	0			Thunderstorm Wind (G66)
Pima County Arivaca Junction	31	1500MST 1550MST			0	0			Flash Flood
Heavy rain from a thunderstorm flooded roadway dips on Arivaca Road.									
ARIZONA, Southwest									
Maricopa County Phoenix	06	2230MST			0	0			Thunderstorm Wind (G50)
A few downed power poles at 32nd St. and Stanford Dr. Wind gust estimated from damage.									
Maricopa County Phoenix	06	2312MST			0	0			Thunderstorm Wind (G50)
Several downed power poles near 43rd Ave. and Interstate 10. Wind gust estimated from damage.									
Maricopa County Phoenix	09	0300MST			0	0			Thunderstorm Wind (G50)
Several power poles blown down. Wind gust estimated from damage.									
Maricopa County Mesa	11	2047MST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a couple of power poles at the intersection of Baseline and Recker. Wind gust estimated from damage.									
Gila County 4.5 SE Globe	14	1710MST	0	10	0	0			Tornado (F1)
A Gila County Deputy Sheriff witnessed a small tornado which remained on the ground for about 5 to 10 seconds before lifting back off the ground. The tornado moved across the ground about 100 feet. It went through the Alhambra Mobile Home Park and struck a mobile home, lifted it a couple feet off the ground, and then dropped it. The thunderstorm which produced the tornado caused straight-line wind damage, including damage to trees, power lines, and shingled roofs. Damage was confirmed by a NWS survey team.									
Gila County Roosevelt	14	1800MST			0	0			Thunderstorm Wind (G52)
Straight-line winds damaged a floating wet dock and sank several boats in the Roosevelt Lake area. Wind gust estimated from damage.									
Maricopa County 5 NW Sun City	14	2126MST			0	0			Funnel Cloud
Maricopa County Waddell	14	2149MST			0	0			Thunderstorm Wind (G51)
Maricopa County Surprise	14	2238MST			0	0			Funnel Cloud
Maricopa County Sun City	14	2241MST			0	0			Thunderstorm Wind (G50)
Storm blew down several large trees at 114th Avenue and Bell Road. Wind gust estimated from damage.									
Pinal County Stanfield	25	1800MST			0	0			Thunderstorm Wind (G50)
Storm toppled numerous power poles. Wind gust estimated from damage.									
Pinal County Maricopa	25	1810MST			0	0			Hail (0.75)
Maricopa County Queen Creek	25	1857MST			0	0			Thunderstorm Wind (G64)
Dozens of 60-foot power poles were knocked down and numerous reports of damage to mobile homes and rooftops.									
Pinal County Casa Grande	25	1900MST			0	0			Thunderstorm Wind (G60)
A roof was ripped off a home, a shed was overturned, and part of a fence was uprooted. Several utility poles along Pinal Road near Rodeo Road were downed by the high winds. Wind gust estimated from damage.									
Maricopa County Mesa	25	1910MST			0	0			Thunderstorm Wind (G59)
Maricopa County Chandler Arprt	25	1915MST			0	0	30K		Tstm Wind
An Aircoupe aircraft was damaged beyond repair when strong winds flipped the plane over. Minimal damage was sustained by two									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARIZONA, Southwest									
two other planes when one blew into the other. Out of a total of 116 hangars at the Chandler Airport, 24 were damaged. Two hangars had door sections torn loose. One hangar door was blown 200 feet.									
Maricopa County Chandler	25	1920MST			0	0			Thunderstorm Wind (G52)
Maricopa County Mesa	25	1925MST			0	0			Thunderstorm Wind (G50)
A few power lines were blown down near the intersection of Price Rd. and Dobson Rd. Wind gust estimated from damage.									
Maricopa County Ahwatukee	25	1940MST			0	0			Thunderstorm Wind (G50)
Large tree limbs were blown down by thunderstorm winds. Wind gust estimated from damage.									
Maricopa County Phoenix	25	2030MST			0	0			Thunderstorm Wind (G50)
Power lines were blown down at 52nd St. and Cactus Rd. Wind gust estimated from damage.									
ARKANSAS, Central and North Central									
Dallas County Princeton	02	1725CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed some trees.									
Faulkner County Conway	06	0322CST			0	0			Lightning
Lightning struck a home in Conway and caused little damage.									
Lonoke County Cabot	14	1115CST			0	0			Lightning
Lightning struck a home in Cabot which resulted in a fire that destroyed the structure.									
Pulaski County 3.5 N Walkers Corner	16	2130CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed many large pecan trees.									
Lonoke County Cabot	16	2200CST			0	0			Thunderstorm Wind (G50)
Some large tree limbs were knocked down.									
White County Antioch	16	2215CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down some large tree limbs.									
White County 1 S Romance	16	2242CST			0	1			Lightning
A man was standing in the doorway of a barn and was struck by lightning. He suffered only some minor injuries and was not hospitalized.									
Jackson County 2 NE Possum Grape	22	1535CST			0	0			Hail (0.75)
Searcy County 3 NE Oxley	22	1555CST 1603CST			0	0			Hail (1.75)
Stone County 2.5 W Alco	22	1555CST 1603CST			0	0			Hail (1.75)
Fulton County Camp	22	1615CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees.									
Independence County 1 E Newark	22	1615CST 1616CST	0.2	20	0	0			Tornado (F0)
A weak tornado touched down briefly in an open field and caused no damage.									
Jackson County Newport	22	1639CST			0	0			Hail (1.00)
Jackson County Auvergne	22	1645CST			0	0			Hail (0.75)
Sharp County Ash Flat	22	1650CST			0	0			Hail (1.75)
Sharp County Hardy	22	1650CST			0	0			Hail (1.75)
Sharp County 1 N Hardy	22	1650CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed some trees.									
Sharp County Cave City	22	1700CST			0	0			Thunderstorm Wind (G50)
Some large tree limbs were knocked down.									
Sharp County Cave City	22	1700CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Cleburne County									
Concord	22	1705CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some large tree limbs.						
Pulaski County									
2 NW Maumelle	22	1744CST			0	0			Hail (0.75)
Pulaski County									
2 N North Little Rock	22	1830CST			0	0			Hail (0.88)
Pulaski County									
No Little Rock Muni	22	1833CST			0	0			Hail (0.75)
Pulaski County									
No Little Rock Muni	22	1833CST			0	0			Thunderstorm Wind (G44)
			Thunderstorm winds gusted to 51 mph at the National Weather Service Office in North Little Rock.						
Pulaski County									
No Little Rock Muni	22	1838CST			0	0			Hail (0.88)
Pulaski County									
Sherwood	22	1845CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some large tree limbs.						
Woodruff County									
Gregory	22	1900CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some trees and damaged the roofs of several buildings.						
Lonoke County									
Kerr	22	1905CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some trees and power lines.						
Pulaski County									
8 E Little Rock	22	1905CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down trees and power lines.						
Pulaski County									
Little Rock	22	1920CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some trees in the western part of Little Rock.						
Pulaski County									
4 W Little Rock	22	1925CST			0	0			Hail (1.75)
Pulaski County									
Little Rock	22	1930CST			0	0			Hail (1.75)
			Golfball size hail fell in the western part of Little Rock.						
Prairie County									
De Valls Bluff	22	1945CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down some large tree limbs.						
Johnson County									
Clarksville	22	1950CST			0	0			Thunderstorm Wind (G50)
			Several trees were knocked down.						
Johnson County									
Clarksville	22	2000CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down numerous trees. Several buildings sustained major roof damage and some vehicles were also blown over. The walls of a building at the Johnson County fairgrounds were blown in.						
Yell County									
Dardanelle	22	2045CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some trees. One house sustained roof damage from a fallen tree. A small storage building also had some wind damage.						
Pulaski County									
Little Rock	22	2045CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down a large section of an outfield fence at a minor league baseball park in Little Rock. Several trees in the nearby city zoo were also blown down.						
Logan County									
Magazine	22	2050CST			0	0			Hail (0.75)
Jefferson County									
Whitehall	22	2130CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some trees and power lines.						
Grant County									
Sheridan	22	2135CST			0	0			Thunderstorm Wind (G50)
			Several trees and power lines were knocked down.						
Garland County									
7 N Hot Spgs	22	2210CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds blew down some trees.						
Garland County									
Hot Spgs	22	2230CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down numerous trees and power lines in and around Hot Springs.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Garland County Hot Spgs	22	2310CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some trees and power lines.
Sharp County Sitka	24	1400CST			0	0			Hail (1.00)
Sharp County Cave City	24	1440CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some power lines.
Arkansas County Ethel	25	1330CST 1345CST			0	0			Funnel Cloud
									Several funnel clouds were observed by the public in Ethel.
Jefferson County Pine Bluff	26	1852CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some trees and power lines.
Saline County Benton	27	0630CST 1300CST			0	0			Flash Flood
									Heavy rains resulted in flash flooding across parts of eastern Saline County. A number of county roads were flooded for a period of time. A portion of Interstate 30 was covered with up to 8 inches of water around Benton for several hours. Several businesses suffered flood damage. A number of mobile homes were damaged by flood waters in the Woodland Hills community.
Pulaski County Alexander	27	0630CST 1300CST			0	0			Flash Flood
									Heavy rains caused flash flooding over parts of southern Pulaski County. Most of the area that was flooded was confined to Interstate 30 in the southwest portion of Little Rock. Up to 8 inches of water covered the highway for a few hours. Rainfall amounts of up to 5 inches fell in that part of Pulaski County.
Saline County Benton	27	0630CST			0	0	50K		Lightning
									A building in Benton was struck by lightning. A fire resulted which caused heavy damage to the building and its contents.
Lonoke County England	27	0655CST 0900CST			0	0			Flash Flood
									Heavy rains caused flash flooding to occur across parts of southern Lonoke County. Several county roads were covered by high water for a few hours.
Fulton County 5 N Salem	28	1425CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed some trees.
Fulton County 7 NE Salem	28	1440CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down several trees.
Fulton County 7 NE Salem	28	1440CST			0	0			Hail (1.00)
Izard County Horseshoe Bend	28	1500CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed trees and power lines.
Sharp County 4 SW Ash Flat	28	1510CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down some trees.
Sharp County Ash Flat	28	1510CST			0	0			Hail (0.88)
Izard County Myron	28	1510CST			0	0			Thunderstorm Wind (G50)
									Some trees were blown down.
Izard County Zion	28	1525CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some large tree limbs.
Izard County Zion	28	1525CST			0	0			Hail (1.75)
Sharp County Evening Shade	28	1530CST			0	0			Hail (0.88)
Independence County Batesville	28	1628CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some trees.
Independence County Batesville	28	1628CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ARKANSAS, Central and North Central									
Cleburne County									
Ida	28	1800CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds downed some large tree limbs.						
White County									
Pangburn	28	1819CST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down some trees and power lines.						
White County									
Pangburn	28	1825CST			0	2			Lightning
			Lightning struck a garage and caused some minor structural damage. 2 people standing outside near the garage were also struck but were not injured seriously.						
Pope County									
Hector	28	2015CST			0	0			Hail (0.75)
Pope County									
Dover	28	2015CST			0	0			Hail (0.75)
Pope County									
.5 N Russellville	28	2055CST			0	0			Hail (1.00)
Fulton County									
Agnos	29	1345CST			0	0			Hail (1.75)
			Hail up to golfball size damaged several vehicles in Agnos.						
Izard County									
Horseshoe Bend	29	1345CST			0	0			Hail (1.75)
Sharp County									
Ash Flat	29	1358CST			0	0			Hail (1.75)
Sharp County									
Ash Flat	29	1430CST			0	0			Hail (1.75)
Baxter County									
Bigflat	29	1440CST			0	0			Hail (1.75)
Marion County									
Yellville	29	1440CST			0	0			Hail (0.75)
Searcy County									
3 SE Cozahome	29	1512CST			0	0			Hail (0.75)
Independence County									
Batesville	29	1605CST			0	0			Hail (0.75)
Jackson County									
Amagon	29	1621CST			0	0			Hail (0.75)
White County									
Pangburn	29	1645CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm winds downed a few trees.						
White County									
Kensett	29	1710CST			0	0			Thunderstorm Wind (G52)
			Several trees were blown down.						
Arkansas County									
Tichnor	29	1735CST			0	0			Thunderstorm Wind (G52)
			Several large tree limbs were blown down.						
Faulkner County									
Naylor	29	1740CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm winds knocked down some large tree limbs.						
Woodruff County									
Hilleman	29	1803CST			0	0			Hail (0.88)
Desha County									
Dumas	29	1833CST			0	0			Thunderstorm Wind (G56)
			Thunderstorm winds knocked down some large tree limbs.						
ARKANSAS, East									
Randolph County									
Ravenden Spgs	07	1510CST 1515CST			0	0	0.01K		Hail (0.75)
Greene County									
Finch to Paragould	07	1545CST 1615CST			0	0	5K		Thunderstorm Wind
			A roof was damaged in Paragould. Several trees and power lines were knocked down.						
Mississippi County									
Gosnell to Blytheville	07	1650CST 1655CST			0	0	15K		Thunderstorm Wind (G65)
			One mobile home had its entire side stripped off. Numerous houses suffered roof damage. Numerous wooden fences were damaged or blown apart. Many metal storage buildings were blown apart. At least three large trees were blown down. One tree fell on a mobile home and another tree fell on a truck. Numerous power lines were knocked down.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ARKANSAS, East</u>									
Cross County 10 E Fair Oaks	07	1730CST 1735CST			0	0	5K		Thunderstorm Wind
Several large grain bins were blown over.									
Lawrence County Imboden	22	1657CST 1702CST			0	0	0.01K		Hail (0.75)
Lawrence County Imboden	22	1657CST 1720CST			0	0	30K		Thunderstorm Wind
One house was demolished by a fallen tree. Three houses lost some of their shingles. Many trees and power lines were blown down.									
Craighead County Jonesboro	22	1735CST 1740CST			0	0	1K		Thunderstorm Wind
Several trees and power lines were blown down.									
Poinsett County Tyronza	22	1755CST 1800CST			0	0	1K		Hail (1.75)
Mississippi County Osceola	22	1820CST 1825CST			0	0	5K		Thunderstorm Wind
Numerous trees and power lines were blown down.									
Crittenden County Gilmore	22	1820CST 1825CST			0	0	1K		Thunderstorm Wind
Several large tree limbs and power lines were blown down.									
Clay County Piggott	24	1440CST 1445CST			0	0	10K		Lightning
A gas station was destroyed by a fire started by lightning.									
Mississippi County Dimple	29	1600CST 1605CST			0	0	1K		Thunderstorm Wind
A power pole was knocked down.									
Mississippi County Osceola	29	1625CST 1630CST			0	0	0.10K		Hail (0.75)
<u>ARKANSAS, Northwest</u>									
Benton County Cave Springs	04	0720CST			0	0	0.10K		Thunderstorm Wind
Washington County Nr Spring Valley	04	0735CST			0	0			Thunderstorm Wind (G52)
Madison County 3 N Huntsville	04	0805CST			0	0			Thunderstorm Wind (G52)
Washington County 6 SE Strickler	29	2130CST			0	0	0.10K		Thunderstorm Wind
Crawford County 6 SE Strickler	29	2130CST			0	0	0.10K		Thunderstorm Wind
Crawford County 5 NW Chester	29	2140CST			0	0	0.10K		Thunderstorm Wind
Washington County 6 ESE Winslow	29	2205CST			0	0	0.10K		Thunderstorm Wind
Crawford County Van Buren	30	0130CST			0	0			Hail (0.75)
<u>ARKANSAS, Southeast</u>									
NONE REPORTED.									
<u>ARKANSAS, Southwest</u>									
Lafayette County Bradley	08	2000CST			0	0			Thunderstorm Wind (G60)
Howard County Nashville	12	1015CST 1130CST			0	0			Flash Flood
Three to five inches of rainfall were recorded in town which resulted in road closings due to high water.									
Union County El Dorado	31	0822CST 1130CST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

July 1996

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

ARKANSAS, Southwest

Numerous streets were flooded inside the city. An elderly woman was trapped in her car as she drove into deep water. She was uninjured but had to be rescued by police.

CALIFORNIA, Extreme Southeast

NONE REPORTED.

CALIFORNIA, North Central

NONE REPORTED.

CALIFORNIA, Northeast

NONE REPORTED.

CALIFORNIA, Northwest

Trinity County

.1 N Junction City to
Junction City

14 1840PST
2130PST

0 0

Flash Flood

A stationary thunderstorm over the Trinity Alps produced heavy rain at the headwaters of Canyon Creek and the North Fork of the Trinity River. A Trinity County Sheriff's Department sergeant reported a six foot wall of water in Canyon Creek near Junction City. US Forest Service rangers reported water levels 10 feet above base flow at the head of Canyon Creek. Hikers in the Trinity Alps Wilderness Area reported 1/2 inch hail covering the ground to a depth of six inches. Quick action by the Trinity County Sheriff's Department cleared all people from the path of the flood which resulted in no injuries or loss of life.

CAZ001

Northwest California

24 0800PST
26 1300PST

0 0

50K

Heavy Surf

Large ocean swells generated by a South Pacific storm slammed into southwest facing coastlines. Numerous boats in Point Arena harbor were damaged or loosened from their moorings.

CALIFORNIA, South Central

CAZ005

San Joaquin Valley

16 1530PST

1 0 0 0

High Wind (G35)

Relatively high gradient wind for the middle of summer brought wind of 28 to 40 MPH to the west side of the San Joaquin Valley on this day. While not meeting high wind criteria, gusty wind did break a limb from an old oak tree in southeast Bakersfield, Kern County. The limb fell and killed a little girl as she stood beneath the tree. F8UT

CALIFORNIA, Southeast

San Bernardino County

Twenty Nine Palms

27 1600PST

0 0

5K

Lightning

Lightning damaged a water fountain and underground power cables leading to it.

San Bernardino County

(Dag)Barstow/Daggett

28 1423PST

0 0

Thunderstorm Wind (G50)

Nearby thunderstorms produced a gust to 58 mph at Barstow/Daggett Airport. No damage was reported.

San Bernardino County

Twenty Nine Palms Ar

28 1700PST

0 0

50K

Thunderstorm Wind

Strong thunderstorm winds at Twentynine Palms Airport broke a glider loose from its mooring. The runaway sailplane damaged a hanger, another glider and destroyed itself in the process.

San Bernardino County

Barnwell

28 1800PST
2100PST

0 0

Flash Flood

A three hour rain event, sustained by redeveloping thunderstorms over the New York Mountains, resulted in a three to four foot deep river that washed out a secondary road near Barnwell.

CALIFORNIA, Southwest

NONE REPORTED.

CALIFORNIA, Upper

NONE REPORTED.

CALIFORNIA, West South Central

Ventura County

Coastal Plain

11 0200PST
0700PST

0 0

Thunderstorms

A weak upper level low pressure system produced thunderstorms across the coastal plain of Ventura county. Over 45 electrical transformers were struck by lightning, leaving over 2,500 people in Nyland Acres and Camarillo without power for several hours. These thunderstorms were noteworthy because they were the first July thunderstorms over the coastal plain of Ventura county since 1978.

CAZ015>017-020

Santa Barbara-Ventura Coastal Area - Santa Monica Bay Area - Long Beach And Orange Co. Metropolitan Areas - Laguna Beach To Mexican Border Coastal Area

24 1400PST
26 1000PST

0 0

Heavy Surf

A strong South Pacific storm, south of Tahiti, produced heavy surf along the beaches of Southern California. Average surf conditions

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
CALIFORNIA, West South Central									
									of 7 to 10 feet with isolated sets to 12 feet were reported. The heavy surf broke a 40 foot high splash guard at the Point Mugu Naval Base, causing minor flooding in several buildings. Also, lifeguards reported over 500 rescues at Southern California beaches.
CALIFORNIA, Western									
									NONE REPORTED.
COLORADO, Central and Northeast									
Jefferson County 4 N Buffalo Creek	03	1430MST			0	0	0		Lightning Lightning sparked a small fire near Buffalo Creek. Only one acre was burned before the fire was contained.
Jefferson County Evergreen	05	1100MST			0	0	0		Lightning Lightning caused only minor damage when it struck a home in Evergreen. The time of the incident was approximated.
Jefferson County Lakewood	05	1140MST			0	0	0		Lightning Lightning from a fast moving thunderstorm blasted a large hole in the side of a house in Lakewood, southwest of Denver.
Jackson County Walden	05	1726MST 1731MST			0	0	0		Thunderstorm Wind Strong thunderstorm winds blew a hanger apart in Walden.
Boulder County Longmont	05	1900MST			0	0	0		Lightning
Boulder County Boulder	05	1925MST			0	0	0		Lightning Lightning triggered a minor power outage in the Longmont and Boulder areas. Approximately 200 homes were affected by the outage.
Adams County Bennett	06	1701MST 1704MST			0	0			Hail (0.75)
Boulder County Longmont	06	1849MST			0	0			Hail (1.25)
Weld County Dacono	06	1906MST			0	0			Hail (1.50) Large hail damage several vehicles in the parking lot of the Colorado Speedway Racetrack. Several trees were also damaged.
Weld County 21 S Greeley	06	1915MST 1930MST			0	0	500K		Hail Hail and high winds destroyed 1400 acres of barley in Weld County. Crop loss was estimated to be approximately \$500,000.
Weld County Greeley	06	1955MST 2000MST			0	0	0		Thunderstorm Wind Strong thunderstorm winds toppled a 40-ft poplar tree in Greeley. The tree fell onto the roof of a nearby home but caused only minor damage.
Washington County Anton	07	1425MST			0	0			Hail (1.00)
Elbert County 5 N Cedar Point	07	1425MST			0	0			Hail (1.75)
Lincoln County 10 N Limon	07	1445MST 1510MST			0	0			Hail (1.75)
Phillips County 8 N Clarksville	07	1515MST			0	0			Hail (0.75)
Weld County 5 S Hudson	09	1346MST 1355MST	0.2	50	0	0	0		Tornado (F0)
Adams County 7 NE Denver Intl Airport	09	1408MST 1413MST	0.1	50	0	0	0		Tornado (F0)
Adams County 7 NE Denver Intl Airport	09	1408MST 1413MST	0.1	50	0	0	0		Tornado (F0) Two weak (twin) tornadoes formed for a short time near the northeast runways of Denver International Airport (DIA).
Adams County 3 N Denver Intl Airport	09	1415MST 1420MST	0.1	50	0	0	0		Tornado (F0)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
Denver County									
Denver Intl Airport	09	1425MST 1430MST	0.1	50	0	0	0	0	Tornado (F0)
A weak tornado touched down in an employee parking lot at DIA. Several car windows were blown out and a few vehicles sustained minor body damage from flying debris. Several signs were also blown down.									
Adams County									
7 SE Denver Intl Airport	09	1435MST 1440MST	0.1	50	0	0	0	0	Tornado (F0)
Adams County									
7 SE Denver Intl Airport	09	1435MST 1440MST	0.1	50	0	0	0	0	Tornado (F0)
Two weak (twin) tornadoes touched down in open country between DIA and Watkins.									
Weld County									
7 NE Pawnee Buttes	10	1910MST			0	0			Hail (1.00)
Arapahoe County									
3 E Englewood	12	1317MST 1322MST	0.1	50	0	0	0	0	Tornado (F0)
Adams County									
2 E Denver Intl Airport	12	1446MST			0	0			Hail (1.50)
Morgan County									
15 S Ft Morgan	12	1642MST			0	0			Hail (1.75)
Weld County									
Carr	12	1649MST 1659MST			0	0			Hail (1.75)
Morgan County									
8 S Brush	12	1650MST			0	0			Hail (1.75)
Weld County									
Nunn	12	1710MST 1715MST			0	0			Thunderstorm Wind (G50)
Jefferson County									
Evergreen	12	1802MST			0	0			Hail (1.25)
Jefferson County									
3 S Morrison	12	1819MST			0	0			Hail (1.50)
Jefferson County									
Lakewood	12	1822MST			0	0			Hail (1.00)
Arapahoe County									
Englewood	12	1847MST			0	0			Hail (1.00)
Boulder County									
7 NE Boulder	12	1913MST			0	0			Hail (1.25)
Boulder County									
Louisville	12	1930MST 1935MST			0	0			Thunderstorm Wind (G52)
Strong thunderstorm winds estimated to 60 mph blew a fence down in Louisville.									
Boulder County									
Broomfield	12	1940MST 1944MST	0.1	50	0	0		0	Tornado (F0)
A weak tornado touched down briefly in Broomfield. A trampoline was blown into a window and several trees were downed.									
Boulder County									
Broomfield	12	1945MST			0	0			Hail (0.75)
Boulder County									
Broomfield	12	1945MST 1950MST			0	0		0	Thunderstorm Wind (G70)
Boulder County									
Broomfield	12	1946MST			0	0	1M		Hail (1.25)
Large hail, strong winds and heavy rain caused substantial damage to property in portions of Boulder and northern Jefferson Counties. Damage estimates in the Broomfield area alone were approximately \$1.0 million.									
Jefferson County									
Buffalo Creek	12	2000MST 2100MST			2	0	520K	0	Flash Flood
Very heavy rain from a fast moving thunderstorm dumped 2 to 3 inches of rain within an hour over southern Jefferson County. Two people were killed near the town of Buffalo Creek when a 20-ft wall of water blasted through the area. Utility poles and trees were uprooted, cars, propane tanks and bridges were destroyed in the flood's path. Entire buildings were moved off their foundations or heavily damaged in the floodwaters. The first fatality occurred along Highway 126, when the driver of a pickup was washed off the road by the deadly wall of water. The second death occurred further downstream when a man in a 5th wheel trailer was washed away.									
This was the second disaster to strike the area in the past few months. The community was already recovering from a wildfire									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
									which burned about 12,000 acres of forestland in May. With the forestland surrounding Buffalo Creek burned by fire; very little vegetation was available to slow the storm's runoff which resulted in the flash flood. Power, along with water and sewer service, were heavily damaged in the flood, and in some cases beyond repair. The cost of repairing the roads and water system in the area were estimated to be around \$521,000.
									M43VE, M73MH
Boulder County									
Louisville	12	2000MST 2005MST			0	0		0	Thunderstorm Wind
									Strong thunderstorm winds toppled a tree near a house in Louisville. The home sustained minor damage.
Weld County									
Dacono	12	2015MST 2020MST	0.1	50	0	0	0	0	Tornado (F0)
Larimer County									
7 NE Virginia Dale	13	1230MST 1300MST			0	0			Hail (0.75)
Larimer County									
Horsetooth Bay	13	1335MST			0	0			Hail (0.75)
Larimer County									
8 N Wellington	13	1340MST 1400MST			0	0			Hail (1.00)
Larimer County									
4 E Ft Collins	13	1435MST			0	0			Hail (1.25)
Weld County									
6 NW Greeley	13	1440MST 1445MST	0.1	50	0	0			Tornado (F0)
Larimer County									
5 SE Ft Collins	13	1442MST			0	0			Hail (1.00)
Weld County									
4 NW Greeley	13	1455MST 1456MST			0	0			Hail (0.75)
Lincoln County									
Hugo	13	1457MST			0	0			Hail (0.75)
Weld County									
5 E Rockport	13	1500MST 1505MST			0	0			Hail (1.00)
Weld County									
4 NW Greeley	13	1504MST 1505MST			0	0			Hail (1.00)
Lincoln County									
5 N Genoa	13	1504MST			0	0			Hail (1.75)
Weld County									
Lochbuie	13	1529MST			0	0			Hail (0.75)
Adams County									
8 E Brighton	13	1546MST			0	0			Hail (1.50)
Weld County									
2 NE Severance	13	1559MST 1610MST			0	0		380K	Hail (1.00)
									Large hail destroyed 1200 acres of barley in Weld County. Crop loss was estimated to be at least \$375,000.
Arapahoe County									
8 S Strasburg	13	1610MST 1615MST			0	0			Thunderstorm Wind
									Strong thunderstorms winds destroyed a barn south of Strasburg.
Logan County									
1 E Peetz	13	1740MST 1745MST	0.5	100	0	0			Tornado (F2)
									Large hail, heavy rain, strong thunderstorm winds and a tornado heavily damaged crops and some property near Peetz in northern Logan County. The tornado touched down 1 mile east of Peetz. Nineteen empty coal cars, still attached to the front and rear of a Burlington Northern train, were picked up and blown off the tracks. A large cottonwood tree was also uprooted near Peetz. The time of the tornado touchdown was approximated.
									In addition, hail several inches deep covered the ground in and around Peetz. Wheat crops were wiped out. Waist high corn was reduced to 2 inch stalks. Crop damage was estimated to be at least \$100,000. Strong thunderstorm winds gusting to 77 mph were measured in Peetz.
Logan County									
Peetz	13	1740MST 1745MST			0	0			Thunderstorm Wind (G67)
Logan County									
Peetz	13	1745MST			0	0	100K		Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
Weld County Nunn	13	2033MST 2038MST			0	0			Thunderstorm Wind (G52)
Weld County 10 E Nunn	13	2044MST 2049MST			0	0			Thunderstorm Wind (G61)
Weld County Keenesburg	13	2142MST			0	0			Hail (0.75)
Weld County Keenesburg	13	2142MST 2147MST			0	0			Thunderstorm Wind (G52)
Adams County 8 NW Strasburg to 6 SE Strasburg	13	2145MST 2215MST	12	440	0	0	220K	6.5M	Tornado (F2)
A fast moving tornado ripped a 12-mile path of destruction near Strasburg, in eastern Adams County. The tornado caused extensive structural damage to several galvanized metal grain silos, farm buildings and sheds in the area. The roof of a two-story log home was completely torn off. The home received substantial damage from the wind and heavy rain that followed the tornado. Several other homes in the area sustained roof damage and a number of power poles were downed along Highway 36.									
Adams County Strasburg	13	2155MST 2200MST	2	100	0	0			Tornado (F1)
The second tornado was much weaker and on the ground for a much shorter time. The twister did manage to topple a church steeple and down a number of power and light poles. In addition, several large trees were also damaged and a camper shell was picked up and knocked into a nearby tree.									
Adams County Bennett	13	2200MST 2205MST			0	0			Thunderstorm Wind (G52)
Adams County Strasburg	13	2206MST 2211MST			0	0			Thunderstorm Wind (G70)
Arapahoe County Byers	13	2212MST			0	0			Hail (1.00)
Arapahoe County Byers	13	2212MST 2217MST			0	0			Thunderstorm Wind (G52)
Adams County Bennett	13	2220MST 2225MST			0	0			Thunderstorm Wind (G61)
Adams County 3 E Bennett	13	2230MST 2235MST			0	0			Thunderstorm Wind
A line of thunderstorms moved through Larimer, Weld, Adams and Arapahoe Counties during the afternoon and evening hours. The storms produced several funnel clouds, at least two tornadoes that touched down near Strasburg, large hail, heavy rainfall and severe thunderstorm winds to 70 mph. These winds were responsible for flipping three semi-trucks on their sides along Interstate 70, east of Bennett. A few cars were also overturned.									
Damage to crops and property in the path of the storms was extensive. Hail and strong thunderstorm winds were largely responsible for the damage. In Weld County, no exact dollar estimates were available but damage to crops was expected to climb into the millions of dollars. In Adams County, damage to crops was estimated to be around \$6.5 million with property damage totalling \$220,000.									
Washington County 14 NW Otis	15	1545MST 1548MST			0	0			Hail (1.00)
Phillips County 4 E Haxtun	15	1700MST			0	0			Hail (0.75)
Phillips County 2 E Holyoke	18	2201MST			0	0			Hail (0.75)
Phillips County 2 NE Holyoke	18	2205MST			0	0			Hail (0.75)
Denver County Denver	20	1800MST 1805MST			0	0	0		Thunderstorm Wind
Strong thunderstorm winds damaged the building of a phone installation company. The time of the incident was approximated.									
Lincoln County Genoa	20	1900MST			0	0			Hail (1.75)
Weld County Greeley	22	1900MST 1905MST			0	0	0		Thunderstorm Wind
Strong thunderstorm winds in excess of 50 mph downed a 50-ft cottonwood tree in Greeley. The tree crashed onto a nearby home,									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
									damaging the upper walls and roof.
Larimer County									
Loveland	23	1300MST			0	2	0	0	Lightning
									Lightning struck three workers standing near a fence. Two of the workers received minor injuries.
Weld County									
Eaton	23	1300MST			0	0		0	Lightning
									Lightning caused a power outage for a short time at Eaton.
Weld County									
Eaton	23	1330MST			0	0		0	Lightning
									Lightning triggered another power outage at Eaton. The outage lasted for about an hour and also affected portions of Ault, Nunn, Pierce and Greeley.
Larimer County									
Laporte	23	1335MST			0	0			Hail (1.00)
Larimer County									
4 NW Ft Collins	23	1341MST			0	0			Hail (0.75)
Larimer County									
Ft Collins	23	1353MST			0	0			Hail (1.00)
									Large hail damaged several aircraft at the Fort Collins Airport.
Weld County									
3 N Platteville	23	1355MST			0	0			Hail (1.00)
									Large hail severely damaged approximately 1000 acres of farmland near Platteville which consisted of corn, beets, onions, potatoes, hay and wheat.
Weld County									
4 SW New Raymer	23	1520MST			0	0			Hail (0.75)
Elbert County									
12 NE Kiowa	23	1521MST			0	0			Hail (1.75)
Weld County									
1 NE New Raymer	23	1538MST 1543MST			0	0			Thunderstorm Wind (G56)
Elbert County									
Simla	23	1611MST 1613MST			0	0			Hail (4.50)
Lincoln County									
10 S Limon	23	1616MST 1621MST	0.1	50	0	0	0		Tornado (F0)
Lincoln County									
10 S Limon	23	1616MST 1621MST	0.1	50	0	0			Tornado (F0)
									Two small (twin) tornadoes touched down 10 miles south of Limon. One of the short lived twisters destroyed a small metal and wood shed before dissipating.
Elbert County									
2 S Matheson	23	1624MST 1629MST	0.1	50	0	0	0	0	Tornado (F0)
Lincoln County									
Karval	23	1630MST 1635MST	0.1	50	0	0	0		Tornado (F0)
Lincoln County									
Genoa	23	1630MST			0	0			Hail (0.75)
Lincoln County									
Genoa	23	1630MST 1635MST	0.1	50	0	0	0		Tornado (F0)
Lincoln County									
11 S Hugo	23	1638MST 1643MST	0.1	50	0	0	0		Tornado (F0)
Washington County									
4 NW Anton	23	1643MST 1648MST			0	0			Thunderstorm Wind (G61)
Lincoln County									
12 S Hugo	23	1648MST			0	0			Hail (0.75)
Lincoln County									
3 S Boyero	23	1650MST			0	0			Hail (0.75)
Elbert County									
5 S Elbert	23	1700MST			0	0			Hail (1.75)
Douglas County									
5 W Castle Rock	23	1720MST			0	0			Hail (1.00)
Douglas County									
Larkspur	23	1736MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
Elbert County 6 SW Elbert	23	1758MST			0	0			Hail (1.00)
Lincoln County Boyero	24	1620MST			0	0			Hail (1.00)
Weld County 3 NW Carr	24	1710MST			0	0			Hail (1.00)
Jefferson County Chatfield Reservoir	24	2040MST			0	0	0		Hail (1.75)
Arapahoe County 10 S Bennett	24	2255MST			0	0			Hail (0.75)
Sedgwick County 2 S Sedgwick	25	1705MST			0	0			Hail (1.50)
Boulder County Longmont	25	1709MST			0	0			Hail (0.75)
Phillips County Haxtun	25	1723MST 1728MST			0	0			Thunderstorm Wind (G50)
A combination of strong thunderstorm winds, hail and heavy rain caused extensive damage to the corn crops in the Haxtun area. Some power outages also occurred when the strong winds to 58 mph and hail snapped branches which downed some power lines.									
Washington County 5 N Akron	25	1818MST 1823MST	0.1	50	0	0	0		Tornado (F0)
Washington County 15 S Otis	25	1900MST 1905MST	0.1	50	0	0			Tornado (F0)
Elbert County 10 S Matheson	26	1545MST			0	0			Hail (1.75)
Larimer County Ft Collins	27	1629MST 1632MST			0	0			Hail (1.00)
Larimer County 1 SE Wellington	27	1730MST 1735MST			0	0			Thunderstorm Wind (G52)
Logan County 13 NW Sterling	27	2034MST			0	0			Hail (1.75)
Weld County 1 S Carr	28	1440MST 1450MST			0	0			Hail (1.00)
Weld County Galeton	28	1530MST 1550MST			0	0	100K		Hail (2.75)
Baseball size hail pounded property and crops in the Galeton area. The damage to a single farmstead in the area was estimated to be around \$100,000.									
Larimer County Ft Collins	28	1630MST 1700MST			0	0			Hail (1.00)
Larimer County Ft Collins	28	1637MST 1642MST			0	2			Thunderstorm Wind (G56)
Large hail, strong thunderstorm winds and heavy rain caused substantial damage to property and crops in and around the Fort Collins area. Roofs, automobiles and crops were damaged by the hail. Downed branches snapped power lines which led to scattered outages. Two people were injured when they lost control of their vehicle during the hailstorm. The hail covered the roadways several inches deep in some spots.									
Larimer County Horsetooth Reservoir	28	1647MST			0	0			Hail (0.75)
Adams County 2 W Byers	28	1700MST 1705MST	0.1	50	0	0			Tornado (F0)
Adams County 10 S Keenesburg	28	1708MST 1713MST	0.1	50	0	0			Tornado (F0)
Adams County 10 N Bennett to 5 N Bennett	28	1708MST 1732MST	5	440	0	0			Tornado (F0)
Adams County 12 N Bennett	28	1714MST 1719MST	0.1	50	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
Weld County Prospect	28	1715MST 1720MST	0.1	50	0	0			Tornado (F0)
Adams County 5 E Barr Lake	28	1722MST 1727MST	0.1	50	0	0			Tornado (F0)
Boulder County Allenspark	28	1730MST			0	0			Hail (1.00)
Jefferson County Arvada	28	1745MST 1750MST	0.1	50	0	0			Tornado (F0)
Several weak tornadoes developed along an outflow boundary that moved through southern Weld, northern Jefferson and Adams Counties. The tornadoes caused little damage. The outflow boundary was associated with a line of thunderstorms which moved through the Fort Collins and Galeton areas earlier in the afternoon.									
Boulder County Broomfield	28	1750MST 1755MST			0	0	0		Thunderstorm Wind (G50)
Jefferson County 7 W Arvada	28	1800MST 1805MST			0	0			Thunderstorm Wind
Strong thunderstorm winds toppled several trees. In addition, shingles were blown off several houses.									
Denver County Denver	28	1800MST 1805MST			0	0			Thunderstorm Wind
Strong thunderstorm winds downed several trees in the Denver area.									
Logan County 1 S Fleming	28	1838MST			0	0			Hail (1.75)
Lincoln County 10 N Limon	28	1900MST 1905MST			0	0			Thunderstorm Wind (G52)
Lincoln County 4 NE Boyero	28	2011MST 2016MST			0	0			Thunderstorm Wind (G52)
Severe thunderstorms producing damaging winds, large hail and heavy rain developed over northern Larimer and Weld Counties during the late afternoon. The storms spread southward affecting Adams, Arapahoe, Denver, Elbert, northern Jefferson and Lincoln Counties into the evening hours and spawned several weak tornadoes. The twisters did little damage. Most of the damage to property and crops occurred from the large hail and strong winds associated with the storms. Damage estimates to property and crops however, were not available.									
Washington County 10 SW Anton	30	1500MST			0	0			Hail (1.50)
Lincoln County 11 N Genoa to 11 NE Genoa	30	1517MST 1535MST	1	100	0	0			Tornado (F1)
A tornado briefly touched down and ripped the tin sheeting off a grain elevator.									
Lincoln County 4 S Boyero	30	1600MST			0	0			Hail (0.75)
Weld County 18 N New Raymer	30	1958MST 2105MST			0	0			Hail (1.00)
Weld County 1 N Keota	30	2017MST 2022MST			0	0			Thunderstorm Wind (G61)
Weld County 6 N Stoneham	30	2027MST			0	0			Hail (1.00)
Weld County New Raymer	30	2030MST 2035MST			0	0			Thunderstorm Wind (G61)
Damaging thunderstorm winds blew a trampoline over a distance of 200 yards. High winds also uprooted several trees and the announcer's booth at the fairgrounds was ripped off its foundation.									
Weld County New Raymer	30	2030MST			0	0			Hail (1.00)
Morgan County Ft Morgan	30	2040MST			0	0			Hail (1.75)
Weld County 6 SW New Raymer	30	2043MST 2048MST			0	0			Thunderstorm Wind (G61)
Weld County 7 SE New Raymer	30	2045MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
Weld County 10 W New Raymer	30	2047MST			0	0			Hail (1.50)
Weld County 6 S New Raymer	30	2055MST			0	0			Hail (1.00)
Morgan County 10 NE Weldon	30	2057MST			0	0			Hail (1.50)
Morgan County 9 N Weldon	30	2058MST			0	0			Hail (1.00)
Morgan County Weldon	30	2100MST 2105MST	0.5	100	0	0			Tornado (F2)
A tornado touched down briefly near Weldon. The twister caused substantial damage to a fertilizer truck when it was smashed into a utility pole. The time of the event was approximated.									
Morgan County Weldon	30	2116MST 2121MST			0	0			Thunderstorm Wind (G51)
Morgan County Weldon	30	2116MST			0	0			Hail (1.50)
Morgan County 2 N Ft Morgan	30	2118MST 2123MST	0.1	50	0	0			Tornado (F0)
Morgan County 2 N Ft Morgan	30	2123MST 2125MST			0	0			Hail (2.75)
Morgan County 5 W Ft Morgan	30	2126MST			0	0			Hail (1.75)
Morgan County 2 W Ft Morgan	30	2135MST 2140MST			0	0			Thunderstorm Wind (G61)
Morgan County 2 W Ft Morgan	30	2135MST			0	0			Hail (2.00)
Morgan County Orchard	30	2210MST 2215MST			0	0			Thunderstorm Wind (G51)
Morgan County 11 S Ft Morgan	30	2215MST			0	0	1M		Hail (1.50)
Large hail, damaging thunderstorm winds and heavy rain resulted in substantial crop loss in Morgan County. The Weldon area was hardest hit by the storms. Some of the crops in Weldon were completely destroyed. Damage estimates were expected to be anywhere from \$500,000 to \$1.0 million.									
Washington County 12 S Woodrow	30	2255MST 2300MST			0	0			Thunderstorm Wind (G61)
Washington County 12 S Woodrow	30	2255MST			0	0			Hail (0.75)
Washington County 2 NW Last Chance	30	2255MST 2300MST	0.1	50	0	0			Tornado (F0)
A tornado touched down briefly near Last Chance. The twister managed to pick up some irrigation equipment and toss it across Highway 71 before it dissipated.									
Lincoln County 10 N Genoa	31	0136MST			0	0			Hail (0.75)
Lincoln County Hugo	31	1415MST			0	0			Hail (1.75)
Lincoln County 4 NE Limon	31	1755MST			0	0			Hail (0.75)
Weld County 5 E Nunn	31	1825MST			0	0			Hail (1.50)
Weld County 5 E Nunn	31	1825MST 1830MST			0	0			Thunderstorm Wind (G51)
Weld County 7 E Ault	31	1840MST 1845MST			0	0			Hail (2.75)
The time of the event was approximated.									
Weld County 6 E Galeton	31	1852MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
Weld County									
8 NE Greeley	31	1857MST 1902MST	0.1	50	0	0			Tornado (F0)
Weld County									
Roggen	31	1920MST 1950MST			0	0			Hail (1.00)
Weld County									
Roggen	31	1920MST 1930MST			0	0			Thunderstorm Wind (G70)
Weld County									
Roggen	31	1921MST 1926MST	0.1	50	0	0			Tornado (F0)
Weld County									
6 SE Keenesburg	31	1940MST 1945MST	0.1	50	0	0			Tornado (F0)
Weld County									
Roggen	31	1952MST			0	0			Hail (1.75)
Weld County									
Gill to Kuner	31	2000MST 2015MST	5	100	0	0			Tornado (F2)
<p>A tornado touched down near Gill. It damaged a grain bin owned by the Northern Feed and Bean of Gill. Although not confirmed, it is believed the same twister was responsible for destroying a 60-ft by 250-ft storage building south of town. The tornado also uprooted a tree near Kuner, east of Kersey. The time of the tornado was approximated.</p> <p>In addition several twisters, strong thunderstorm winds and large hail the size of baseballs caused several power outages in central Weld County. Power was out from Kersey to Purcell, which covered a distance of 20 miles, for about 12 hours. An estimated 400 to 500 residents were without power throughout the night. Crops in the area also received substantial damage, but no dollar estimates were available.</p>									
Arapahoe County									
3 E Byers	31	2029MST 2034MST	0.1	50	0	0			Tornado (F0)
Adams County									
12 E Denver Intl Airport	31	2035MST 2045MST	1	440	0	0			Tornado (F0)
Adams County									
Strasburg	31	2045MST 2056MST	0.5	50	0	0			Tornado (F0)
Arapahoe County									
Byers	31	2105MST 2110MST	0.1	50	0	0			Tornado (F0)
Arapahoe County									
Deer Trail	31	2109MST 2114MST	0.1	50	0	0			Tornado (F0)
Elbert County									
12 SE Elbert	31	2130MST			0	0			Hail (0.75)
Lincoln County									
6 N Limon	31	2135MST			0	0			Hail (1.75)
<p>Large hail damaged a nursing home near Limon.</p>									
Lincoln County									
Limon	31	2137MST			0	0			Hail (0.75)
Lincoln County									
6 N Genoa	31	2140MST			0	0			Hail (2.75)
Lincoln County									
6 N Genoa	31	2140MST 2145MST			0	0			Thunderstorm Wind (G51)
Lincoln County									
6 E Limon	31	2148MST			0	0			Hail (1.00)
Weld County									
Keenesburg	31	2200MST 2220MST			0	0	200K		Hail (0.75)
<p>Hail punctured a plastic tarp which covered a hole for a new air conditioning system at Weld High School in Keenseburg. Nineteen new computers were damaged extensively as hail and heavy rain flooded the classrooms. The new air conditioning system was also damaged. Damage to the school was approximately \$200,000.</p>									
Lincoln County									
10 S Hugo	31	2223MST			0	0			Hail (1.00)
Washington County									
Last Chance	31	2340MST 2359MST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, Central and Northeast									
This event will continued into August 1st.									
COLORADO, East Central									
Kit Carson County 4 S Vona	06	2123MST			0	0			Thunderstorm Wind (G52)
Kit Carson County 12 SE Burlington	06	2240MST			0	0			Thunderstorm Wind (G57)
Kit Carson County 12 SE Burlington	06	2240MST			0	0			Hail (0.75)
Yuma County 19 N Eckley	07	1510MST			0	0			Hail (1.75)
Yuma County 14 N Yuma	07	1535MST			0	0			Hail (1.75)
Yuma County 10 NE Yuma	07	1600MST			0	0			Thunderstorm Wind (G52)
BRANCHES 2-3 INCHES IN DIAMETER DOWN.									
Yuma County 7 E Yuma	07	1607MST	0.1	30	0	0			Tornado (F0)
BRIEF TORNADO NEAR MONFORT FEEDLOT.									
Yuma County 11 N Eckley	07	1612MST	0.1	30	0	0			Tornado (F0)
BRIEF TORNADO OVER OPEN COUNTRY.									
Yuma County 10 NE Yuma	07	1700MST			0	0			Thunderstorm Wind (G52)
Yuma County 4 SE Eckley	07	1748MST			0	0			Hail (2.50)
Kit Carson County 6 S Stratton	12	1652MST			0	0			Hail (1.75)
Yuma County 10 S Yuma	13	1620MST			0	0			Hail (0.75)
Yuma County 19 N Eckley	15	1615MST			0	0			Hail (0.75)
Kit Carson County Vona	15	1655MST			0	0			Thunderstorm Wind (G52)
Cheyenne County Aroya	20	1710MST			0	0			Hail (0.75)
Kit Carson County 15 S Bethune	23	1815MST			0	0			Hail (0.75)
Cheyenne County 2 N Wild Horse	24	1645MST			0	0			Hail (1.50)
Cheyenne County Aroya	24	1645MST			0	0			Hail (1.75)
Cheyenne County Aroya	24	1710MST			0	0			Hail (1.75)
WIND BROKE SMALL BRANCHES. ALL GARDEN FLOWERS DESTROYED.									
Yuma County 8 N Yuma	25	1108MST			0	0			Hail (0.75)
Yuma County 2 N Yuma	25	1125MST			0	0			Hail (0.88)
Yuma County 2 N Yuma	25	1140MST			0	0			Hail (1.25)
3/4 INCH HAIL ALSO REPORTED 4 MILES SOUTHEAST OF YUMA AT 1150 MST.									
Yuma County 12 W Vernon	25	1227MST			0	0			Hail (0.88)
Yuma County 7 NE Hale	25	1323MST			0	0			Hail (0.88)
Yuma County Clarkville	25	1805MST			0	0			Thunderstorm Wind (G52)
Yuma County 2 E Wray	25	1829MST			0	0			Thunderstorm Wind (G52)
Yuma County 2 S Hale	31	2000MST			0	0			Hail (0.88)
Kit Carson County 6 E Burlington	31	2045MST			0	0			Thunderstorm Wind (G70)
STRONG WINDS OVERTURNED VEHICLES ON INTERSTATE 70.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, East Central</u>									
Kit Carson County									
Burlington	31	2048MST			0	0			Hail (0.75)
<u>COLORADO, South Central and Southeast</u>									
Otero County									
Rocky Ford	05	1559MST			0	0			Hail (0.75)
El Paso County									
1 W Peyton	07	1325MST 1327MST			0	0			Funnel Cloud
El Paso County									
2 W Peyton	07	1337MST 1339MST			0	0			Hail (0.75)
El Paso County									
Peyton	07	1337MST 1339MST			0	0			Thunderstorm Wind (G52)
El Paso County									
5 SW Peyton	07	1345MST 1347MST			0	0			Funnel Cloud
El Paso County									
5 S Peyton	07	1355MST			0	0			Hail (1.00)
El Paso County									
5 NW Ellicott	07	1410MST			0	0			Hail (1.00)
El Paso County									
5 NW Yoder	07	1422MST			0	0			Hail (1.00)
El Paso County									
1 E Ellicott	07	1440MST			0	0			Hail (0.75)
El Paso County									
8 S Fountain	07	1540MST			0	0			Hail (1.00)
Crowley County									
Crowley	07	1700MST			0	0			Hail (0.75)
Prowers County									
Lamar	07	1748MST			0	0			Hail (0.75)
Prowers County									
4 E Lamar	07	1802MST			0	0			Hail (0.75)
Prowers County									
4 W Bristol	07	1815MST			0	0			Hail (0.75)
El Paso County									
Colorado Spgs	09	1428MST			0	0			Hail (1.75)
El Paso County									
2 NE Fountain	09	1515MST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds uprooted several trees 3 to 6 inches in diameter.
El Paso County									
3 SE Fountain	09	1532MST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds uprooted several trees 3 inches in diameter.
Pueblo County									
10 N Pueblo	09	1637MST			0	0			Thunderstorm Wind (G52)
Pueblo County									
10 N Pueblo	09	1637MST			0	0			Hail (0.75)
Pueblo County									
2 E Pueblo	09	1705MST			0	0			Thunderstorm Wind (G61)
Pueblo County									
2 E Pueblo	09	1705MST			0	0			Hail (0.75)
Pueblo County									
2 N Pueblo	09	1730MST			0	0			Thunderstorm Wind (G60)
									Thunderstorm winds blew out windows of cars in a grocery store parking lot.
Pueblo County									
Pueblo	09	1730MST 1900MST			0	5	2M	250K	Flash Flood
									Severe storms brought flooding rain, damaging winds, and large hail the evening of the 9th. From 2 to 4.5 inches of rain fell in a short period of time on the east side of Pueblo, causing widespread flooding of low spots and roof collapses of three businesses. Forty to 50 power poles were blown down, affecting 15,000 homes in east and north Pueblo. 1,000 telephone customers were also affected. Numerous large trees in residential areas and at the Pueblo Country Club were uprooted, and the rain washed out several gravel roads in Pueblo West north of US 50. In south Pueblo between 1000 to 2000 acres of crops were destroyed, and an electrical fire attributed to the storm razed a greenhouse. Many underpasses and roadways were under water, and the rapid rises of water carried a few vehicles away. At the underpass/intersection of 29th Street and I-25, 2 cars were submerged under 12 to 14 feet of water.
El Paso County									
Monument	10	1620MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, South Central and Southeast									
El Paso County Colorado Spgs	10	1720MST			0	1			Lightning
									A Colorado Springs man was hospitalized after lightning hit near him as he was leaving work at a car dealership.
Pueblo County Pueblo West	11	1947MST 1958MST			0	0			Hail (0.75)
Pueblo County Pueblo	11	2200MST 2330MST			0	0			Flash Flood
									Slow-moving thunderstorms produced flooding rain of up to 3 inches, making Highway 96 impassable at Falco Rd. There was also widespread flooding of low areas on the west side of Pueblo.
Pueblo County Colorado City	11	2208MST 2225MST			0	0			Hail (1.00)
Teller County West Creek	12	1159MST			0	0			Hail (0.75)
Teller County 4 NNW Divide to 3.3 NW Divide	12	1215MST 1219MST	0.7	150	0	0			Tornado (F1)
									The tornado touched down just north of Cedar Mountain Road in the Pike National Forest, uprooting or snapping 80 to 100 acres of spruce, pine and aspen trees as it crossed Cedar Mountain Road moving south-southwest.
Teller County Woodland Park	12	1239MST			0	0			Hail (0.75)
									Hail accumulated on local roadways and surrounding land to a depth of 6 to 12 inches.
Teller County 1 S Divide	12	1247MST			0	0			Hail (1.00)
									Hail accumulations of 3 inches were on local roadways, creating slippery conditions and minor ponding of water due to accompanying heavy rain.
El Paso County Manitou Spgs	12	1255MST			0	0			Hail (0.75)
Teller County Woodland Park	12	1300MST			0	0			Hail (1.00)
Fremont County 5 S Canon City	12	1438MST			0	0			Thunderstorm Wind (G52)
Fremont County Florence	12	1530MST 1630MST			0	0			Flash Flood
									Flooding rain causes high, dangerous water conditions near Florence.
Otero County 3 S Cheraw	12	1550MST			0	0			Hail (1.75)
Otero County 4 NW La Junta to 3 NW La Junta	12	1600MST 1605MST			0	0			Funnel Cloud
Crowley County Olney Spgs	12	1615MST			0	0			Thunderstorm Wind (G52)
									Strong thunderstorm winds brought down tree limbs 4" in diameter.
Bent County 1.5 N Lubers	12	1645MST			0	0			Hail (0.75)
Las Animas County Kim	12	1825MST			0	0			Hail (0.75)
El Paso County Calhan	13	1404MST			0	0			Hail (0.75)
El Paso County Ramah	13	1430MST			0	0			Hail (0.75)
Prowers County 3 NE Holly	13	2040MST			0	0			Hail (0.88)
El Paso County Rush	13	2330MST			0	0			Thunderstorm Wind (G52)
Crowley County Ordway	14	0015MST			0	0			Thunderstorm Wind (G61)
Pueblo County Boone	14	0022MST			0	0			Thunderstorm Wind (G61)
Crowley County Ordway	14	0032MST			0	0			Funnel Cloud
Otero County (Lhx)La Junta Arprt	14	0050MST			0	0			Thunderstorm Wind (G55)
									Thunderstorm winds brought down numerous trees and power lines along Highway 71 west of La Junta.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, South Central and Southeast									
Bent County									
10 W Las Animas	14	0100MST			0	0			Hail (1.75)
Strong thunderstorm winds, in conjunction with the large hail, flattened numerous acres of corn and alfalfa crops.									
Prowers County									
8 E Lamar	14	0115MST			0	0			Thunderstorm Wind (G56)
Thunderstorm winds brought down trees on portions of Highway 50, temporarily blocking traffic.									
Baca County									
15 NW Springfield	14	0200MST			0	0			Thunderstorm Wind (G52)
El Paso County									
7 NW Colorado Spgs	15	1400MST 1402MST			0	0			Funnel Cloud
El Paso County									
9 S Ramah	15	1400MST 1415MST			0	0			Lightning
Lightning struck a storage shed which sparked a fire that destroyed a building. All that remained inside was the skeleton of a classic 1948 Harley Davidson motorcycle that was stored in the building. The estimated value of the motorcycle was \$15,000. The time of the incident was approximated.									
Saguache County									
Saguache	15	1420MST			0	0			Hail (1.00)
El Paso County									
Green Mtn Falls to Ellicott	18	1045MST 1600MST			0	0			Urban/Sml Stream Fld
Slow moving thunderstorms produced torrential rainfall across El Paso county, causing some mud and rock across Highway 24 in Ute Pass as well as on roadways through the mountains west of Colorado Springs. In the northern and eastern parts of the Colorado Springs metropolitan area, water was running curb high in some spots causing inconvenience. East of Colorado Springs near Ellicott on highway 94, one foot of water was reported on the road.									
Huerfano County									
Walsenburg	20	1345MST			0	0			Hail (0.75)
El Paso County									
17 SE Security	20	1730MST			0	0			Hail (0.75)
El Paso County									
Truckton	20	1820MST			0	0			Hail (1.00)
El Paso County									
Ellicott	20	1825MST 1838MST			0	0			Hail (1.50)
El Paso County									
(Cos)Peterson Field	20	1840MST			0	0			Hail (0.75)
El Paso County									
3 W Yoder	20	1857MST			0	0			Hail (1.00)
El Paso County									
8 E (Cos)Peterson Field	20	1900MST			0	0			Thunderstorm Wind (G50)
El Paso County									
10 S Colorado Spgs	20	1900MST			1	0			Lightning
A 27 year old man was struck and killer by lightning while he was walking back to his vehicle after archery practice in a Colorado Springs Wildlife Area. M27OU									
El Paso County									
3 SE (Cos)Peterson Field	20	2000MST			0	0			Hail (0.75)
El Paso County									
Fountain	20	2100MST 2118MST			0	0			Hail (0.75)
El Paso County									
Colorado Spgs	20	2250MST 2253MST			0	0			Hail (0.75)
El Paso County									
Manitou Spgs	20	2256MST			0	0			Hail (0.75)
El Paso County									
Colorado Spgs	20	2305MST 2330MST			0	0			Hail (1.00)
El Paso County									
(Cos)Peterson Field	20	2322MST			0	0			Hail (1.25)
Las Animas County									
12 NE Kim	21	1655MST			0	0			Hail (0.75)
Baca County									
30 SE Springfield	21	1735MST			0	0			Hail (1.75)
Baca County									
23 SE Springfield	21	1850MST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, South Central and Southeast									
Pueblo County Pueblo West	21	1955MST			0	0			Hail (0.75)
Pueblo County Colorado City	22	1930MST			0	0			Hail (0.88)
El Paso County Colorado Spgs	22	1952MST			0	0			Hail (0.75)
Pueblo County Pueblo West	22	2030MST			0	0			Hail (0.88)
Pueblo County Pueblo	22	2038MST			0	0	300K		Hail (1.00)
									Pueblo's south side was pounded by strong winds, torrential rainfall, and large hail, producing damage to nearly 200 homes.
Pueblo County Pueblo	22	2045MST 2230MST			0	0			Flash Flood
									Merging thunderstorms over central Pueblo county produced flooding rainfall at the rates of 1 1/2 to 2 inches per hour, causing widespread street and lowland flooding in the city of Pueblo.
El Paso County 18 SE Colorado Spgs	22	2050MST			0	0			Hail (0.75)
Pueblo County Pueblo	22	2100MST			0	0			Hail (0.75)
Las Animas County 2 W Model	23	1630MST			0	0			Hail (0.75)
Las Animas County 2 W Model	23	1630MST			0	0			Thunderstorm Wind (G52)
El Paso County Peyton	23	1715MST 1720MST			0	2	300K		Hail (2.75)
									Baseball-sized hail in Peyton, injured two people and caused widespread damage to 125 homes.
El Paso County 5 W Calhan	23	1716MST			0	0			Hail (1.50)
El Paso County Eastonville	23	1808MST			0	0			Hail (0.75)
Kiowa County 10 SSW Eads	23	1815MST			0	0			Thunderstorm Wind (G52)
Prowers County Lamar	23	1815MST			0	0			Funnel Cloud
Prowers County Wiley	23	1825MST			0	0			Thunderstorm Wind (G52)
Prowers County 7 NW Lamar	23	1830MST 1831MST	0.1	50	0	0			Tornado (F0)
									A brief tornado touchdown caused no known damage. The path length and path width were estimated.
Prowers County 1 NW Lamar	23	1837MST			0	0			Thunderstorm Wind (G54)
Prowers County .1 NW Granada to .1 SE Granada	23	1844MST 1847MST	0.3	75	0	0	50K		Tornado (F0)
									A weak tornado move southeast through Granada damaging around 30 street lights and numerous power poles. Minor damage was sustained by around 6 buildings.
Prowers County Holly	23	1900MST			0	0			Thunderstorm Wind (G70)
									Severe storms moved through Holly, producing 3/4 inch hail and 2 inches of rain in 30 minutes. Hail was reported to be nearly 2 inches deep on the ground, and minor street flooding was found throughout the town. The high winds brought many trees and power lines down. Hail destroyed a 4 mile strip of corn, alfalfa, and cantaloupe, while at Jensen Farms large hail caused a near-total crop loss.
Prowers County Holly	23	1900MST			0	0			Hail (0.75)
Baca County 12 NNW Springfield	23	1910MST			0	0			Hail (1.00)
Huerfano County Walsenburg	23	1927MST			0	0			Funnel Cloud
Huerfano County 3 W Walsenburg	24	1530MST			0	0			Hail (1.50)
Las Animas County Delhi	24	1620MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
COLORADO, South Central and Southeast									
Kiowa County 12 W Eads	24	1715MST 1720MST			0	0			Funnel Cloud
Kiowa County 15 NW Eads	24	1725MST			0	0			Hail (1.50)
Kiowa County 15 W Eads	24	1747MST			0	0			Hail (2.50)
Kiowa County 12 SW Eads	24	1800MST 1805MST			0	0			Funnel Cloud
Bent County Hasty	24	1844MST			0	0			Hail (1.25)
El Paso County 4 N Colorado Spgs	24	2012MST			0	0	8.7M		Hail (0.75)
Large hail produced damage to about 3,000 dwellings and 1,800 vehicles.									
El Paso County 2 N Colorado Spgs	24	2028MST			0	0			Hail (1.50)
El Paso County Fountain	24	2050MST			0	0			Hail (1.75)
El Paso County Security	24	2052MST			0	0			Hail (0.75)
El Paso County 2 S Fountain	24	2110MST			0	0			Hail (1.00)
Teller County 4 S Divide	25	1312MST			0	0			Hail (0.75)
Prowers County Lamar	25	1722MST			0	0			Hail (1.00)
Bent County 8 WSW Las Animas	25	1745MST			0	0			Hail (0.75)
Teller County Cripple Creek	26	1254MST			0	0			Hail (0.75)
El Paso County 7 N Colorado Spgs	26	1352MST			0	0			Hail (1.12)
Frequent lightning accompanied the hail, and a lightning strike caused a power outage for 4,000 residents that lasted 2 1/2 hours.									
El Paso County 3 SW Calhan	26	1445MST			0	0			Hail (0.75)
El Paso County 12 E Calhan	26	1520MST			0	0			Hail (2.00)
El Paso County Colorado Spgs	26	1745MST 1930MST			0	0			Flash Flood
Very heavy rain of 1 to 3 inches caused widespread flooding of roadways and underpasses. Rapid rises caused Fountain Creek to overflow its banks briefly just south of its confluence with Monument Creek, just south of downtown Colorado Springs. Vehicles were partially submerged at the intersection of Walnut Street and Colorado Avenue.									
Custer County 10 NW Westcliffe	29	1515MST			0	0			Hail (1.50)
Baca County Springfield	29	1742MST			0	0			Hail (1.00)
Baca County 3 S Pritchett	29	1821MST			0	0			Hail (0.88)
Prowers County Lamar	30	1300MST 1500MST			0	0			Flash Flood
Nearly 3 inches of rain fell on an already saturated ground, creating widespread flooding of small streams in the vicinity of Lamar. Williams and Clay creeks went out of their banks, and lowland flooding was reported in downtown Lamar.									
Baca County Pritchett	30	1445MST			0	0			Hail (1.00)
Kiowa County 12 NW Haswell	30	1711MST 1713MST	0.1	75	0	0			Tornado (F0)
A brief tornado touched down causing no known damage. The path length and path width were estimated.									
El Paso County Calhan	31	1412MST			0	0			Thunderstorm Wind (G52)
Baca County 15 SSE Walsh	31	1536MST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>COLORADO, South Central and Southeast</u>									
Baca County 2.5 SE Stonington	31	1553MST 1600MST			0	0			Hail (1.75)
			Broken windshields were reported because of the large hail.						
Baca County 4 E Campo	31	1630MST			0	0			Hail (1.75)
<u>COLORADO, West</u>									
La Plata County Durango	14 15	2300MST 0030MST			0	0	50K		Flash Flood
			Flash flooding and debris flows damaged about a dozen homes and mobile homes in the north and northwest portions of the town. Water 2-3 feet deep flooded a mobile home park in northwest Durango and resulted in the closure of highway 550 on the north edge of town for 3 hours. As much as 2.18 inches of rain fell within 90 minutes.						
Hinsdale County 7 SSW Lake City to Lake City	17	1445MST 1530MST			0	0	30K		Flash Flood
			Flash flooding occurred along an eight mile stretch from Lake City to about 2 miles southwest of Lake San Cristobal. Mud and rock slides covered roads and flowed onto residential properties. Several roads were washed out in places. It took over 3 weeks for road crews to repair roads and remove debris which included large boulders. 1.50 inches of rain was reported in a 45 minute period at Lake City. Heavier rainfall was estimated upstream around the Lake San Cristobal area.						
San Miguel County 5 W Telluride	17	1730MST 1800MST			0	0	4K		Flash Flood
			Flash flooding resulted in mud and rock slides along a 5 mile section of Colorado highway 145, 5-10 miles west of Telluride. 40 vehicles were impacted by the debris, though damage was minimal. It took road crews over two hours to open one lane of the highway.						
Gunnison County 20 SE Montrose	28	1900MST			0	0	35K		Lightning
			22 registered Simmental cattle were killed when the large tree they were huddled under was struck by lightning.						
Rio Blanco County 10 NW Meeker	29	1500MST 1530MST			0	0	2K		Flash Flood
			Flash flooding along Strawberry Creek resulted in water over County Road 7 as well as 3 feet of water in the basement of a house.						
Rio Blanco County 14 WNW Rio Blanco to 21 WNW Rio Blanco	29	1515MST 1545MST			0	0	12K		Flash Flood
			Flash flooding along the Piceance Creek road deposited rocks, logs, mud, and other debris along a seven mile stretch from Steward Gulch to Black Sulphur Creek. It took 5 days to remove the debris and repair road damage.						
<u>CONNECTICUT, Northeast</u>									
Hartford County Southington	03	0715EST			0	0			Thunderstorm Wind (G50)
			The remnants of a F1 tornado which moved through Waterbury produced thunderstorm wind gusts of 50 to 60 mph and pea sized hail in Southington. Trees and power lines were blown down. Heavy rainfall of 1.83 inches occurred in one hour in Wethersfield. In addition, a total of 2.77 inches of rain fell in Bristol during a 12-hour period ending late in the afternoon.						
Hartford County Burlington	09	1755EST			0	0			Thunderstorm Wind (G50)
Hartford County West Hartford	09	1800EST			0	0			Thunderstorm Wind (G50)
Hartford County Newington to New Britain	09	1812EST			0	0			Funnel Cloud
Hartford County East Hartford	09	1815EST			0	0			Thunderstorm Wind (G52)
Hartford County Burlington to Glastonbury	09	1822EST 1825EST			0	0			Thunderstorm Wind (G50)
Hartford County Wethersfield	09	1823EST 1825EST			0	0			Thunderstorm Wind (G56)
			Severe thunderstorms brought damaging winds to the central and southeast portion of Hartford County. Several funnel clouds were sighted...the public reported a funnel cloud in Newington, while a SKYWARN observer reported a funnel cloud in New Britain. Wind gusts to 60 mph were reported from East Hartford and Glastonbury and a gust to 65 mph from Wethersfield. A gust to 56 mph was reported from Burlington. A spotter reported that five trees, 12 to 18 inches in diameter, were blown down in Burlington. Numerous trees were downed in Farmington and Glastonbury. In West Hartford, a tree fell on a house, forcing four people out into heavy rain. In other communities, tree limbs fell onto houses, causing only minor damage. Trees also were reported blown down in West Hartford. Over one inch of rain fell in 15 minutes in Farmington.						

Storm Data and Unusual Weather Phenomena

July 1996

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

CONNECTICUT, Northeast

Hartford County									
Countywide	13	0600EST 1800EST			0	0			Heavy Rain
Tolland County									
Countywide	13	0600EST 1800EST			0	0			Heavy Rain
Windham County									
Countywide	13	0600EST 1800EST			0	0			Heavy Rain
CTZ002 Hartford									
	13	1720EST			0	0			Flood
	14	0100EST							

Tropical Storm Bertha brought heavy rainfall totals of three to five and one-half inches as the center of the storm passed over the southeast part of Connecticut, moving northeast. The maximum rainfall reported was 5.5 inches at Vernon. Urban street flooding occurred throughout the area and minor river flooding occurred along the North Branch of the Park River in Hartford. The river reached flood stage of 8 feet at 6:20 PM, crested at 9 feet at 10:30 PM, then dropped below flood stage at 2:00 AM on July 14th.

CONNECTICUT, Northwest

Litchfield County									
Watertown	03	1600EST 1900EST			0	0	10K		Flash Flood

Showers and thunderstorms with torrential downpours produced rainfall rates of 1 to 2 inches per hour across parts of Litchfield County during the evening hours of July 3. Flash flooding occurred in Watertown, when Turkey Brook flooded and washed out five roads.

Litchfield County									
Winsted	09	1738EST			0	0	2K		Hail (0.75)

A cold front crossed Connecticut during the afternoon of July 9. The front produced an isolated severe thunderstorm in Winsted, where three quarter inch hail was observed.

Litchfield County									
Countywide	13	1400EST 2300EST			0	0	5K		Flash Flood

The remnants of Hurricane Bertha tracked from the Mid-Atlantic region northeast to Quebec, Canada between Saturday morning July 13 to Sunday morning July 14. Three to five inches of rain was common across Litchfield County. Several roads and streams were flooded throughout the county. Scattered power outages also occurred across Litchfield County, when strong winds downed water-laden tree branches onto wires.

CTZ001 Litchfield									
	16	0100EST			0	0	2K		Flood
	17	0700EST							

Additional rain from a cold front which crossed New England on July 15, caused the Housatonic River in Litchfield County to go above flood stage. The rain fell upon saturated soil due to the passage of Tropical Storm Bertha on July 13. At Falls Village and Gaylordsville the river went slightly over flood stage causing minor flooding.

Litchfield County									
Kent	25	1630EST			0	0	1K		Thunderstorm Wind

An isolated severe thunderstorm downed a couple of trees at Kent in Litchfield County.

CONNECTICUT, Southern

New Haven County									
Waterbury to Wolcott	03	0540EST 0544EST	0.5	100	0	0	2M		Tornado (F1)

A team of National Weather Service Meteorologists confirmed that an F1 tornado occurred.

A small area of strong thunderstorms moved through the area and the first serious damage occurred north and west of Montoe Park, just to the north of downtown Waterbury. Indications of a weak F0 tornado were displayed in this area of about 0.1 miles long and 33 yards wide. Many trees in the area were also blown down by straight line winds, but again indications of some rotation in the tree tops were evident throughout this region.

The storm moved northeast, with tree damage in a several block-wide area. Touchdown occurred again at the Wilby High School, where an F1 tornado touched down with a path length of about 0.3 miles and a path width of about 100 yards. This tornado destroyed a tool shed then moved northeast across the High School's football field. It blew down the scoreboard and carried it over a half mile away. It also destroyed a set of bleachers and scattered the seats for a half mile area in the direction the storm moved. Next the storm did serious damage to the roof of the school building and blew out several windows. Early damage estimates for this school alone was nearly \$ 1 million dollars. The tornado lifted just northeast of the school.

About 1 mile to the north, the storm next hit the town of Wolcott. Again severe tree damage was observed along both sides of Beach Road from Longmeadow Road east to Route 69. This damage was predominantly straight line wind damage. However, there were indications in some locations that rotation occurred in the tops of trees. A porch roof was blown off and carried over the house in the opposite direction the storm moved near Alcott and Beach Roads. Most trees fell in the same direction and

Storm Data and Unusual Weather Phenomena

July 1996

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

CONNECTICUT, Southern

although there were indications of rotation at treetop level, there were no regions where a funnel had made contact with the ground.

Eyewitnesses stated that the wind damage occurred after heavy rains and hail nearly ended. Hail size was estimated up to 1 inch in diameter. Many witnesses said they heard a sound like a train and at this point sent everyone into the basement.

**Fairfield County
Stamford to
Norwalk**

08	0827EST			0	0			Thunderstorm Wind (G50)
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A cluster of severe thunderstorms moved east at about 35 MPH. High winds knocked down power lines on River Bank Road in Stamford. Additional power lines were downed in Norwalk.

**Fairfield County
Danbury**

09	1738EST			0	0			Hail (1.00)
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**Fairfield County
Bethel to
Redding**

09	1745EST 1800EST			0	0			Thunderstorm Wind (G50)
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**Fairfield County
Monroe**

09	1800EST	0.4	67	0	0			Tornado (F1)
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The NWS confirmed that a small F1 tornado touched down in Northwest Monroe.

The tornado originated near Bridal Path Trail and Quarter Horse Drive in Northwest Monroe and moved northeast across Hattertown Road. Damage was confined mostly to trees along the path. The determination was made primarily based on rotational tree damage patterns and eyewitness accounts.

Elsewhere in the Monroe area, straight line wind damage occurred. West winds estimated at 75 to 100 MPH knocked down numerous large trees, some of which fell on power lines and houses. Several of the large trees were weeping willows with shallow root systems. All trees were observed pointing east. Some areas affected included parts of Lovers Lane, Far Horizon Drive, Moss Road, Cross Hill Road and Elm Street.

**Middlesex County
Chester**

09	1812EST			0	0			Hail (0.75)
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**Fairfield County
Stratford**

09	1820EST			0	0			Thunderstorm Wind (G50)
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**Fairfield County
Trumbull**

09	1820EST			0	0			Hail (1.00)
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**New Haven County
Bethany**

09	1820EST			0	0			Thunderstorm Wind (G50)
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**Middlesex County
Chester**

09	1910EST			0	0			Hail (0.75)
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**New London County
Lyme**

09	1917EST			0	0			Hail (0.75)
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**Fairfield County
Ridgefield**

13	1025EST			0	0			Flood
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As Tropical Storm Bertha moved northeast, passing east of Atlantic City, NJ around 11 am and over Long Island and Southeast Connecticut during the late afternoon, it produced torrential rain and strong gusty winds.

Torrential rain caused flooding of low lying and poor drainage areas, streams, and rivers across the area. The heaviest rain fell in a band to the northwest of Bertha's track over Southwest Connecticut.

Serious widespread flooding was reported at Ridgefield in Fairfield County. Flooding was also reported along the Mill River in Southcentral New Haven County.

Here are selected rainfall amounts:

For Fairfield County: from 2.80 inches at Bethel to 4.06 inches at Shelton. Rainfall at Bridgeport Airport was measured at 4.00 inches.

For New Haven County: from 0.91 inches at Orange to 3.19 inches at Derby. Rainfall in New Haven was measured at 2.61 inches.

For Middlesex County: 2.49 inches was measured at Middletown.

For New London County: from 2.20 inches at Waterford to 3.55 inches at Griswold.

Wind gusts ranged from 40 MPH at Norwich to 55 MPH at Preston. Most wind gusts were reported from 40 to 50 MPH.

Storm Data and Unusual Weather Phenomena

July 1996

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

CONNECTICUT, Southern

DELAWARE

DEZ002>004

Kent - Inland Sussex - Delaware Beaches

13	0200EST 1200EST	0	0	Tropical Storm
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A weakening Tropical Storm Bertha passed across the state on July 13th. Hurricane Bertha made landfall near Wilmington North Carolina close to 5 p.m. EDT on the 12th and moved northnortheast overnight. At 11 p.m. EDT it was 100 miles southwest of Norfolk, at 3 a.m. EDT on the 13th it was 45 miles westsouthwest of Norfolk, at 8 a.m. EDT it was 45 miles south of Dover, at 930 a.m. EDT it was in extreme northeastern Sussex County and at 11 a.m. EDT it was near Atlantic City.

While the long trip over land did weakened Bertha, some wind related damage did occur in Sussex and Kent Counties. The only tidal flooding was minor and occurred on Delaware State Route 54 near Fenwick Island, one of the most flood roads in the state. Beach erosion was minor. The tropical storm did drop between 1.5 and 3.0 inches of rain across most of the state, with locally higher amounts of around 4 inches reported by SKYWARN Spotters in Sussex County. This caused some poor drainage flooding, but the only river to flood was the Christina in New Castle County. Wind gusts reached 58 mph in Dover and 55 mph in Lewes. The strongest winds occurred between 4 a.m. and 10 a.m. EDT. Power was lost for up to 8 hours by 3,200 homes in the state; most were restored by noon EDT.

Even two days before Bertha arrived rough surf resulted in 40 water rescues at Bethany Beach on the 11th. Seashore state campgrounds were closed and shelters were set up, but less than 100 persons used them. In Bethany Beach, a few poles were snapped and tree limbs came down. A Subway sign was blown away in Seaside Village.

Elsewhere, there was minor wind damage reported in Kent and Sussex Counties with storage sheds suffering the most harm. Many were thrown around. Some of the worst wind related damage occurred in northwestern parts of Kent County around Clayton and Blackiston. In Clayton, downed trees blocked three roads. The roof was blown off one house and the porch roof was blown off another. Several poles were also knocked down. Flying debris caused damage to several other garages, homes and porches. Near Blackiston a 40 foot by 80 foot storage shed was destroyed. No injuries were reported.

**New Castle County
Northern**

13	0635EST 1320EST	0	0	Flash Flood
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Heavy rain associated with Tropical Storm Bertha caused flooding along the Christina River in northern New Castle County. At Cooch's Bridge, the river reached its flood stage of 9 feet at 735 a.m. EDT, crested at 10.9 feet at 11 a.m. EDT and was back within bankfull at 220 p.m. EDT. No serious injuries or damage were reported. Storm totals included 2.69 inches in Wilmington, 1.81 inches in Odessa and 1.70 inches in Pennyhill.

DISTRICT OF COLUMBIA

DCZ001

District Of Columbia

13	0400EST 0900EST	0	0	Tidal Flooding
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Southeast flow in advance of the passage of Tropical Storm Bertha well south of the area increased tides to 2-3 feet above normal, causing some flooding at Haines Point and the waterfront.

FLORIDA, East Central

**Orange County
Windermere**

04	1740EST	0	0	Hail (0.75)
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Dime size hail fell in Windemere.

**Brevard County
Titusville**

04	1940EST	1	0	Lightning
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A 32 year old man was killed while watching July 4th fireworks along the river front in Titusville.
M32OU

**Volusia County
De Leon Spgs**

06	1530EST	0	0	Thunderstorm Wind
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Trees were blown down in De Leon Springs.

**Orange County
Orlando**

12	1830EST	0	2	Lightning
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Two women were injured by lightning at a water park in Orlando.

**Orange County
Apopka**

31	1545EST	0	0	Hail
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Dime size hail fell and a large billboard was blown down in Apopka.

FLORIDA, Northeastern

**Alachua County
Gainesville**

06	1400EST 1530EST	0	0	500K	Flash Flood
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Ten homes had flood damage with streets and roads closed in the Hogtown Creek area. At 1900 CR-239 more than 50 feet of

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, Northeastern									
									roadway was washed away.
Marion County 10 W Ocala Arpt to 9 W Ocala Arpt	06	1430EST 1440EST	1	50	0	0	50K		Tornado (F1)
									Tornado moved through a mobile home subdivision. Vortex was mostly at rooftop level, sufficient to destroy roofs, uproot trees and produced considerable twisting and snapping of large tree limbs. Tornado destroyed two, and damaged three mobile homes.
Suwannee County Live Oak	09	1550EST			0	0	5K		Thunderstorm Wind (G60)
									Several large trees and power lines were blown down.
Union County Lake Butler	09	1640EST			0	0	3.5K		Thunderstorm Wind (G60)
									Large trees were blown down along SR-231.
Baker County Macclenny	09	1640EST			0	0	0.50K		Thunderstorm Wind (G60)
									Large trees and power lines were blown down.
Duval County Jacksonville Beach	10	1030EST			1	0			Rip Currents
									Man was swimming off Jacksonville Beach and was caught in a strong rip current. Rips were associated with Hurricane Bertha. M28IW
Alachua County Alachua	16	1356EST			0	0	6.5K		Thunderstorm Wind (G60)
									Large trees were blown down at 17128 78th Av. One vehicle was damaged.
Alachua County 1 NW Newberry	16	1430EST			0	0	5.5K		Thunderstorm Wind (G60)
									Wind damaged two sheds.
Columbia County 6 E Ft White to Ft White	17	1500EST			1	0			Lightning
									A 7 year old boy was struck by lightning while playing at O'Leno State Park. M7OU
Putnam County Florahome	31	1730EST			0	0	1K		Thunderstorm Wind (G60)
									Large tree limbs were blown down.
Putnam County Lake Como	31	1730EST			0	0			Thunderstorm Wind (G60)
									Power lines were blown down and large tree limbs.
Baker County Macclenny	31	1845EST			0	0	2K		Thunderstorm Wind (G60)
									Large trees and power lines were blown down.
Baker County Macclenny	31	1845EST 2000EST			0	0	5K		Flash Flood
									5.5 inches of rain closed 7 roads through out the county.
FLORIDA, Northwest									
Liberty County Bristol	05	1100EST			0	0			Lightning
									Lightning started a fire in a storage building.
Walton County Seagrove Beach	07	1400CST			1	0			Rip Currents
									A man was caught in severe rip currents and drowned while swimming in the Gulf of Mexico at Seagrove Beach. M43IW
Walton County Inlet Beach	07	1500CST			1	0			Rip Currents
									A man drowned when he got caught in severe rip currents in the Gulf of Mexico. His body washed ashore the next day at Panama City Beach, east of where he drowned. M32IW
Walton County Seagrove Beach	19	1400CST			1	0			Rip Currents
									A man drowned after being caught in a severe rip current in the Gulf of Mexico. M?IW
Walton County Inlet Beach	26	1500CST			1	0			Rip Currents
									A man was caught in a severe rip current and drowned in the Gulf of Mexico, while trying to retrieve 2 children who had floated out in the gulf on a raft. M50IW

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, Northwest									
Leon County									
5 S (Tlh)Tallahassee Arp	26	1650EST 1720EST			0	0			Funnel Cloud
A funnel cloud was observed by NWS personnel 5 miles south of the Tallahassee Airport.									
Walton County									
Sandestin	27	1830CST			1	0			Rip Currents
A teenager drowned after being caught in a rip current while swimming in the Gulf of Mexico. M14IW									
Walton County									
Sandestin	30	1435CST			1	0			Rip Currents
A 48 year old Louisiana man man was drowned after apparently being caught in a rip current. M48IW									
FLORIDA, Southern									
Palm Beach County									
Pahokee	04	1253EST			0	9			Lightning
In a park in Pahokee, nine youths, ages 9 to 18, were injured by lightning when they huddled beneath an australian pine tree. They had just come from swimming in Lake Okeechobee. One of the injuries was serious. The lightning strike was the only one observed during the thunderstorm.									
FLZ068									
Coastal Palm Beach									
	10	0900EST			0	0			Hurricane
	13	1600EST							
Hurricane Bertha, after reaching category three intensity north of Puerto Rico, weakened slightly then turned northward on July 10 about 300 miles offshore the southeast Florida coast. The direct effects of Bertha remained well offshore in the Atlantic, but a few swells moved into Palm Beach County coastal waters on July 10, and more frequent swells moved into Palm Beach, Broward, and Dade coastal sections July 11 through July 13, when Bertha was far to the northeast. In separate incidents, two persons drowned in rip currents generated by Bertha's swells along unguarded sections of Miami Beach on Saturday, July 13. The beach patrols in all three counties made dozens of rescues from rip currents during the period.									
FLZ072									
Coastal Broward									
	10	0900EST			0	0			Hurricane
	13	1600EST							
FLZ074									
Coastal Dade									
	10	0900EST			2	0			Hurricane
	13	1600EST							
M55IW, M23IW									
Dade County									
Miami Beach	13	1300EST			1	0			Rip Currents
M55IW									
Dade County									
Miami Beach	13	1500EST			1	0			Rip Currents
M23IW									
Broward County									
2 E Ft Lauderdale	17	1730EST			1	1			Rip Currents
A 41-year-old man drowned in a rip current while trying to rescue his 11-year-old son on an unguarded section of Fort Lauderdale beach. The man was a good swimmer but swam directly against the current. His son survived. Two other children were rescued from a nearby rip current with an 11-year-old female requiring hospitalization. M41IW									
Palm Beach County									
2 N South Bay	19	1640EST 1650EST			0	0			Waterspout
Two waterspouts were observed in Lake Okeechobee a few miles north of South Bay.									
Broward County									
2 E Ft Lauderdale	20	1800EST			1	0			Rip Currents
A 20-year-old male tourist drowned in a rip current along Flort Lauderdale beach. M20IW									
Dade County									
2 E Miami Beach	23	0845EST 0855EST			0	0			Waterspout
The beach patrol observed a waterspout in the Atlantic two miles offshore Miami Beach.									
Dade County									
Miami Beach	28	1430EST			2	0			Rip Currents
Two men drowned in separate rip currents along unguarded sections of Miami Beach. Dozens of other people were rescued by the beach patrol after being caught in rip currents throughout the afternoon. M66IW, M44IW									
Collier County									
10 SE (Apf)Naples Muni Arp to 10.1 SE (Apf)Naples Muni Arp	30	1545EST 1547EST	0.1	5	0	0			Tornado (F0)
A brief tornado touched down in a pasture four miles east of CR 951 near Rock Road.									
FLORIDA, West Central									
Hillsborough County									
6.4 SSW Plant City	04	1240EST			0	4			Lightning

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, West Central									
Lightning struck 14 people standing under a large tree at Medard Park along State Road 60 and South Turkey Creek Road. Four of those struck were hospitalized for minor injuries.									
Pinellas County 7 WSW St. Petersburg	04	1538EST			0	1			Lightning
Lightning struck and injured a 26 year old female while she stood on a dock at South Pasadena Beach.									
Sarasota County 11 W Sarasota	06	1445EST			0	0			Waterspout
A short-lived waterspout was reported by a citizen eight miles west of New Pass.									
Levy County Bronson	06	1730EST			0	0			Heavy Rain
Four inches of rain fell in 24 hours in the city of Bronson.									
Manatee County 1 N Bradenton	06	1755EST 1900EST			0	0	3K		Urban/Sml Stream Fld
Very heavy rainfall caused localized street flooding in Palmetto. Most of the local flooding was concentrated along 10th Street between 8th and 10th Avenues. A few autos stalled and received minor water damage in Palmetto.									
Lee County 7 SW Ft Myers	10	1622EST 1630EST	0.4	5	0	0			Tornado (F0)
A short-lived and weak tornado touched down a few times along a narrow path in Ft. Myers. Damage was minimal and confined to broken tree branches and a few small trees downed along the tornado path.									
Hernando County 10 SW Brooksville	10	1645EST			0	0	5K		Thunderstorm Wind
Thunderstorm winds downed a large tree and several power lines in Masaryktown along U.S. Highway 41 near the Hernando/Pasco county line.									
Pinellas County 7 NW St. Petersburg	13	0950EST			0	4			Lightning
Lightning struck and injured four males ages 9, 33, 38, and 45 while outdoors on 94th Avenue in Pinellas Park.									
Hernando County 6 NW Brooksville	14	1548EST			0	0	25K		Lightning
Lightning struck a power pole outside of a mobile home. The charge traveled into the mobile home and ignited a fire which completely destroyed the structure. A dog and cat inside the mobile home were consumed by the fire.									
Hillsborough County 12 S Tampa	14	1825EST			0	0			Waterspout
A short-lived waterspout was observed over Tampa Bay near the shores of Apollo Beach and Ruskin.									
Lee County Cape Coral	15	1519EST 1534EST	3	5	0	2	250K		Tornado (F0)
A tornado touched down in extreme south Cape Coral and caused minor roof damage to 92 homes, uprooted a few large trees and damaged a few screened porches. The initial touchdown occurred in the vicinity of Pelican Blvd. and 53rd Terrace then traveled west, slightly north of the El Dorado Parkway, in a heavily populated area of Cape Coral. The tornado lifted and dissipated near 27th Place and 52nd Lane. Residents affected by the tornado stated that it sounded like a jet aircraft revving its engines.									
Charlotte County 11 SW Port Charlotte	15	1630EST			0	0	4K		Thunderstorm Wind
Two large pool lanai's were severely damaged by thunderstorm winds in the Rotunda West subdivision.									
Pinellas County 10 NW St Petersburg	16	1645EST			0	0			Hail (0.75)
Sarasota County 3 N Venice	29	1600EST			0	0			Hail (0.75)
Sarasota County 3 N Venice	29	1600EST			0	0	10K		Thunderstorm Wind
Thunderstorm wind ripped off the roofs of three homes in Nokomis near U.S. Highway 41. Carports and sheds were blown down in a mobile home park by thunderstorm winds in Nokomis along with several large trees and numerous power lines.									
Sarasota County Venice	29	1600EST			0	0	20K		Thunderstorm Wind (G66)
Thunderstorm winds downed numerous trees and power lines around the city of Venice. Thunderstorm winds also blew off the gates to the Venice Avenue Bridge.									
Charlotte County 14 SW Port Charlotte	30	1530EST 1600EST			0	0			Heavy Rain
Heavy rain of 2.9 inches fell in a 30 minute period in Grove City.									
Lee County 4 S Ft Myers	30	1539EST			0	0			Hail (0.75)
Dime sized hail was observed by FAA observers at Page Field.									
Lee County Ft Myers	30	1540EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
FLORIDA, West Central									
Pinellas County 8 W St. Petersburg	30	1542EST			0	2			Lightning Lightning struck and severely injured a 65 year old female and a 16 year old male while walking on the beach along the waters edge at Treasure Island.
Lee County 4 S Ft Myers	30	1543EST			0	0			Thunderstorm Wind (G50) A thunderstorm wind gust of 58 mph was recorded by FAA personnel at Page Field.
Lee County 6 S Ft Myers	30	1550EST			0	0			Thunderstorm Wind (G52) A thunderstorm wind gust of 60 mph was recorded and reported by a public spotter.
Lee County 6 S Ft Myers	30	1551EST			0	0			Hail (0.75) Dime sized hail was reported along Metro Parkway.
Lee County 6 S Ft Myers	30	1600EST			0	0	10K		Thunderstorm Wind Thunderstorm winds damaged the roofs of a couple of homes and a few sheds in the Pine Manors area. Several trees and power lines were also downed by thunderstorm winds.
Lee County Ft. Myers	30	1600EST 1800EST			0	0			Heavy Rain Between four and five inches of rain fell over parts of the Ft. Myers metro area in two hours. An official report of 4.00 inches of rain fell in a one hour period at Page Field.
Hillsborough County 6 WNW Tampa	30	1913EST			0	0	4K		Lightning Lightning struck and damaged the roof of the Airside D building at Tampa's International Airport.
Levy County 5 N Chiefland	30	2020EST			0	0			Tstm Wind/Hail Thunderstorm winds, estimated at 40 to 50 mph, downed a few powerlines on County Road 346A between U.S. Highways 19 and 129.
Pinellas County 3 S Clearwater	31	1310EST			0	1			Lightning Lightning struck and slightly injured a 48 year female in Largo.
FLORIDA, West Panhandle									
Santa Rosa County Navarre Beach	04 08	0800CST 0800CST			0	35			Rip Currents In addition to two drownings along Navarre Beach during the long fourth of July weekend, rescuers also reported six near drownings and twenty-nine other swimmers had to be resuced when they were overtaken by the strong rip currents and rough surf. At locations where life guards are stationed people were warned about going into the water and flags warning of rough surf were also displayed. All the injured swimmers were treated and released at the scene.
Escambia County Pensacola Beach	04 08	0800CST 0800CST			0	23			Rip Currents During the long fourth of July weekend, Life Guards at Pensacola Beach reported they had to rescue twenty-three swimmers from the strong rip currents and rough surf. All of the people rescued were treated and released at the scene.
Santa Rosa County Navarre Beach	06	1200CST			1	0			Rip Currents A 27 year old male was swimming near Navarre Beach when he was pulled under the water by a strong rip current. He drowned in the rough surf before he could be rescued. M27IW
Santa Rosa County Navarre Beach	07	1200CST			1	0			Rip Currents A 35 year old male was scuba diving in the gulf just offshore of Navarre Beach. A strong rip current ripped his mask off and he was overcome by the water. He was brought to shore and taken to a local hospital but died later that day. M35IW
Escambia County Ensley	13	1200CST			0	0	3K		Lightning Lightning struck a garage in Ensley and caused it to catch on fire and burn down.
Escambia County Pensacola	13	1210CST			0	0	3.5K		Thunderstorm Wind (G55) Several trees and power lines were blown down near Molino. Power lines were also blown down in Pensacola.
Okaloosa County Eglin Afb	24	2030CST			0	1			Lightning Lightning struck near a mobile home and a resident standing in the doorway was indirectly hit by the bolt. He was taken to the hospital for observation and released.
Santa Rosa County Navarre Beach	28	1200CST			1	0			Rip Currents A vistor to Navarre Beach drowned in a strong rip current while swimming in the gulf on Navarre Beach. M?IW

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>FLORIDA, West Panhandle</u>									
Escambia County									
Pensacola Beach	29	1045CST			1	0			Rip Currents
A 15 year old male was swimming near Casino Beach on Pensacola Beach when he was pulled under the water by a strong rip current and drowned in the rough surf. M15IW									
Okaloosa County									
Ft Walton Beach	31	1030CST	0.1	20	0	0			Tornado (F0)
Several waterspouts were reported in Santa Rosa Sound. The waterspouts quickly dissipated as they moved ashore. No damage was found.									
<u>GEORGIA, East Central</u>									
Columbia County									
3 NW Martinez	17	1625EST			0	0			Thunderstorm Wind (G50)
A severe storm took down a couple of trees and powerlines northwest of Martinez.									
Mdcaffie County									
Thomson	21	1900EST			0	0			Thunderstorm Wind (G50)
A severe thunderstorm blew down power lines in Thomson.									
<u>GEORGIA, Lower</u>									
Wayne County									
Odum	07	1500EST			0	0	2.5K		Thunderstorm Wind
Large trees and power lines were blown down.									
Wayne County									
Jesup	07	1520EST			0	0	1.5K		Thunderstorm Wind (G60)
Large trees and power lines were blown down.									
Brantley County									
Hoboken	15	1730EST			0	0	1K		Thunderstorm Wind (G60)
Several large trees were blown down.									
Appling County									
Surrency	16	1319EST			0	0	2.5K		Thunderstorm Wind (G60)
Large trees and power lines were blown down over Lake Chappel Road south of Surrency.									
Wayne County									
6 SW Jesup	23	1600EST			0	0	2K		Thunderstorm Wind (G60)
Numerous reports of large trees and power lines blown down along CR-84.									
Bacon County									
Alma	24	1513EST			0	0	20K		Lightning
Lighting struck to connecting apartments. The building suffered moderate damage to the roof, attic and ceiling.									
Coffee County									
Ambrose	31	1815EST			0	0	0.50K		Thunderstorm Wind (G60)
Large trees were blown down.									
<u>GEORGIA, North and Central</u>									
Laurens County									
10 W Dublin to Dublin	02	1830EST			0	0	4K		Thunderstorm Wind
Thunderstorm winds knocked numerous trees and power lines down in Dublin and western Laurens county.									
Houston County									
2 W Perry	03	1500EST			0	0	0		Thunderstorm Wind
Thunderstorms winds knocked down a couple of trees on highway 127.									
Houston County									
Perry to 3 N Hayneville	08	1125EST 1145EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds knocked several trees and power lines down causing power outages.									
Dooly County									
Vienna	13	1845EST			0	0	40K		Thunderstorm Wind
Thunderstorm winds blew the roof off of a local company building and broke a window of the Dooly County Library on Highway 215. Several businesses reported minor roof damage as well. Brief power outages were also reported.									
Crisp County									
Cordele	13	1930EST			0	0	0.60K		Thunderstorm Wind
Thunderstorm winds knocked three trees down in town.									
Dodge County									
Rhine to Eastman	16	1715EST			0	0	5K	0	Thunderstorm Wind
Trees were reported down on lines in many locations along State Road 117 Between Rhine and Eastman.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>GEORGIA, Northeast</u>									
			NONE REPORTED.						
<u>GEORGIA, Southeast</u>									
Chatham County									
Savannah	05	1355EST 1410EST			0	0			Thunderstorm Wind (G50)
			Several trees down.						
Bryan County									
3 SE Richmond Hill	05	1410EST 1415EST			0	0			Thunderstorm Wind (G50)
			Large limbs down.						
Chatham County									
Savannah	05	1445EST 1700EST			0	2	1M		Flash Flood
			Eight to ten (8-10) inches of rain fell in 3-4 hours in and around Savannah. As a result, 50 streets and 100 homes were flooded to various degrees. Numerous businesses had water several inches deep.						
			There were 31,000 residents without power for several hours. This event also occurred close to high tide. Some streets had water up to headlights on cars while some homes had water almost knee deep.						
			Several car dealerships had significant damage to some cars. Two elderly men barely escaped with their lives when their car stalled.						
			By the time they were rescued, water was within six (6) inches of filling the inside of the car.						
GAZI16>119-138>141			Inland Bryan - Coastal Bryan - Inland Chatham - Coastal Chatham - Inland Liberty - Coastal Liberty - Inland McIntosh - Coastal McIntosh						
					0	0			Hurricane
			Hurricane Watch for Bertha and later a Warning for the Georgia Coast caused about 20,000 people to evacuate, primarily Chatham County. Bertha was far enough offshore so that it did not caused any significant damage. Estimated loss revenue and down time for local plants and factories was \$2,000,000.						
Effingham County									
5 SW Springfield	31	1845EST 1850EST			0	0			Hail (0.88)
<u>GEORGIA, Southwest</u>									
			NONE REPORTED.						
<u>GEORGIA, West Central</u>									
Quitman County									
South Brook	31	1600CST			0	0	75K	0	Lightning
			Lightning struck a house causing a fire that totally destroyed the structure.						
<u>HAWAII</u>									
HIZ001>003			Kauai - Oahu - Maui						
					0	1			High Surf
			A storm low in the southern hemisphere, centered south of Tahiti on the 16th and 17th, produced large swell that arrived along the south shores of the Hawaiian Islands late in the day on the 22nd. Surf of 6 to 8 feet was reported along south shores of Oahu, and 8 to 12 feet along south shores of Kauai from the 22nd through the 24th. At 0930 HST on the 23rd, an 18 ft boat capsized at the entrance to Waianae Boat Harbor. Two people were rescued. One man was treated for a knee injury. A total of 95 people were rescued from the high surf along the south shore of Oahu by water safety personnel during the 22nd and 23rd. On Maui, Kamaole Beach Park in Kihei was closed.						
<u>IDAHO, Extreme Southeast</u>									
			NONE REPORTED.						
<u>IDAHO, North</u>									
			NONE REPORTED.						
<u>IDAHO, Northwest</u>									
			NONE REPORTED.						
<u>IDAHO, Southeast</u>									
Bingham County									
1.5 S Springfield	03	1200MST 1230MST			0	0			Dry Microburst
			High winds blow down a dozen trees.						
Lincoln County									
Dietrich	03	1900MST			0	0			Wild/Forest Fire

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IDAHO, Southeast									
Lightning ignited a rangeland fire near Dietrich in Lincoln County.									
Bannock County Pocatello	04	1800MST 1830MST			0	0			Dry Microburst
A microburst originating from a strong thunderstorm immediately south of Pocatello disrupted festivities at Pioneer Park and Harding Field. Strong wind gusts toppled a 40-foot pine tree and blew out windows.									
Butte County Arco	09	1244MST			0	0			Tstm Wind/Hail
Thunderstorm produced 40 mph winds causing small branches to break off trees.									
Butte County 10 N Arco	09	1445MST 1449MST	0.1	50	0	0			Tornado (F0)
Sheriff in Butte County received a public report of a tornado that briefly touched down 10 miles north of Arco and then dissipated.									
Bonneville County Idaho Falls	09	1650MST 1700MST			0	0	2K		Dry Microburst
A microburst blew down trees limbs forced power lines down in eight separate places in northern Idaho Falls. Residents were without power for up to 5 hours.									
Custer County Challis	09	2100MST 2300MST			0	0			Dry Microburst
Strong winds forced a shed off the ground and on top of a fence. Winds also lifted the roof off a barn along the Challis Hot Springs Road.									
Cassia County Almo	15	1700MST 1730MST			0	0			Heavy Rain
0.75 inches of rain in past 30 minutes. Some minor runoff was observed.									
Custer County Antelope Creek	16	1115MST			0	0			Tstm Wind/Hail
Fremont County St. Anthony	16	1428MST			0	0			Heavy Rain
0.53 inch of rain in past 30 minutes.									
Cassia County 16 ESE Burley	16	1445MST			0	0			Heavy Rain
Very heavy rain with considerable ponding along Interstate 84 near the intersection of Yale Road.									
Fremont County Parker	16	1500MST 1700MST			0	0			Hail (0.75)
Farmers in Egin and Parker area reported a two-mile wide swath of hail as a thunderstorm rumbled through the area. Barley and wheat crops were knocked down by the hail.									
Madison County Rexburg	16	1500MST 1700MST			0	0			Tstm Wind/Hail
In Rexburg, marble-size hail fell Tuesday afternoon.									
Bingham County 1 E Blackfoot	16	1522MST 1525MST			0	0			Funnel Cloud
Small funnel cloud briefly observed.									
Bonneville County Grant	16	1530MST 1630MST			0	0			Heavy Rain
A second weather spotter reported 1.4 inches of rain from storm.									
Bonneville County Grant	16	1530MST 1630MST			0	0			Heavy Rain
A weather spotter in Grant reported 1.5 inches of rain.									
Bonneville County Grant	16	1530MST 1630MST			0	0			Heavy Rain
A third weather spotter in Grant observed 1.7 inches of rain.									
Bonneville County 22 W Idaho Falls	16	1545MST			0	0			Heavy Rain
Channel 8 news crew reported torrential rains along Highway 20 west of Idaho Falls.									
Bonneville County 22 W Idaho Falls	16	1600MST			0	0			Heavy Rain
An INEL worker traveling along Highway 20 west of Idaho Falls had to pull off road due to extremely heavy rain and a visibility of a few feet.									
Madison County Rexburg	16	1600MST			0	0			Lightning

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IDAHO, Southeast									
Lightning struck the scoreboard and nearby flagpole at Madison High School in Rexburg.									
Bingham County 45 W Idaho Falls	16	1640MST			0	0			Heavy Rain
Very heavy rain near EBR-2 on the INEL with firefighter trucks stuck in mud.									
Fremont County Island Park	16	2000MST 2300MST			0	0			Heavy Rain
1.5 inches of rain occurred during a several hour period.									
Madison County Rexburg	16	2105MST			0	0			Lightning
Lightning hit a sprinkler system shortly after 10 p.m. MDT.									
Cassia County 6 SW Burley	17	1430MST			1	1			Lightning
At approximately 3:30 pm MDT, a farm worker was struck and killed by lightning while hoeing beets. His wife was approximately 3 feet from him at the time and was shocked but not seriously injured. M28OU									
Lincoln County 6 E Gooding	25	1600MST			0	0			Wild/Forest Fire
Lightning caused an 8 acre fire about 6 miles east of Gooding.									
Blaine County 3 SW Bellevue	25	1600MST			0	0			Wild/Forest Fire
Lightning caused a 150 acre fire (Glendale Fire) southwest of Bellevue.									
Blaine County Picabo	25	1600MST			0	0			Wild/Forest Fire
The Picabo and Queen's Crown Fires north of Picabo were caused by lightning.									
Bannock County Pocatello	29	0035MST			0	0			Heavy Rain
Garrett Way underpass in Pocatello was partially flooded due to heavy rain.									
Bannock County Pocatello	29	0100MST			0	0			Heavy Rain
Heavy rain caused water to leak through the roof of the ISU student union building. Water dripping from the ceiling forced six people out of their rooms and into a nearby motel. Newly painted walls were water-streaked and ceiling tiles were warped and bulging. Fire alarms were corroded beyond use.									
Bannock County Pocatello	29	0300MST			0	0			Lightning
Lightning struck a powerline causing a 10 to 15 minute power outage.									
Power County 1 N Rockland	29	1125MST 1130MST			0	0			Flash Flood
Hail up to 2 inches deep along roads with water flooding across Highway 37 immediately north of Rockland in 4 places. Travel through flooded area very difficult due to rapid flowing water.									
Bannock County 11 E Pocatello	29	1158MST 1208MST			0	0			Heavy Rain
0.70 inches of rain in past 10 minutes.									
Power County 15 SW Pocatello	29	1205MST 1245MST			0	0			Heavy Rain
1.27 inches of rain in past 40 minutes.									
Cassia County 22 SE Malta	29	1330MST 1400MST			1	1			Flash Flood
Heavy rain produced flash flooding with water 3 to 4 feet deep across the east bound lanes of Interstate 84 near mile marker 261. A driver rounded a corner and drove into the flooded area. The vehicle was forced off the right side of the highway into deeper water in the roadside ditch. The vehicle rolled and was washed 1100 feet, coming to rest on it's top. Although most of the flood water was channeled primarily into the median, 6 to 12 inches also flooded the west bound lanes. Interstate 84 was closed for at least 30 minutes due to flooding and debris on the highway. M82VE									
Caribou County 18 W Soda Spgs	29	1340MST			0	0			Hail (0.75)
Caribou County 18 W Soda Spgs	29	1345MST			0	0			Hail (1.00)
Nickel to quarter-size hail reported in Lund.									
Caribou County 9 SW Soda Springs	29	1355MST 1425MST			0	0			Heavy Rain
1.00 inch of rain in past 30 minutes.									
Caribou County 5 E Lava Hot Springs	29	1450MST			0	0			Tstm Wind/Hail

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IDAHO, Southeast									
Highway workers reported hail 2 inches deep on Fish Creek Summit.									
Power County 7 WNW Pocatello	29	1600MST 1630MST			0	0			Heavy Rain
Farmer located northwest of the Pocatello airport reported 0.76 rain in 30 minutes.									
Bingham County Blackfoot	29	1729MST			0	0			Tstm Wind/Hail
Bingham County Moreland	29	1735MST			0	0			Hail (1.00)
Bingham County 6 NW Blackfoot	29	1737MST			0	0			Hail (0.75)
Clark County Kilgore	29	1830MST 2012MST			0	0			Heavy Rain
1.50 inches of rains during past 2 hours. Pea-size hail covered the ground.									
IDAHO, Southwest									
Elmore County 12Se Glens Ferry to Glens Ferry	03	1400MST 2000MST			0	0			Wild/Forest Fire
Eight wildfires were started due to lightning. The largest fire was 30,000 acres 12 miles southeast of Glenn's Ferry. Damage estimates were not yet available.									
Twin Falls County Rogerson	16	1345MST 1700MST			0	0			Heavy Rain
Twin Falls County Twin Falls	16	1400MST 1700MST			0	0			Heavy Rain
Twin Falls County Filer	16	1420MST 1700MST			0	0	15K		Thunderstorm Wind (G60)
Twin Falls County Twin Falls	16	1500MST 1700MST			0	0	50K		Thunderstorm Wind (G60)
Severe thunderstorms produced heavy rain with some flooding, wind gusting to 60 mph and small hail. In Rogerson, heavy rain caused minor roadway flooding. In the city of Twin Falls, several houses sustained basement flooding and wind gusting to 60 miles per hour. Wind gusts reduced visibilities to 1/2 mile. In Filer, 0.61" fell in ten minutes causing some flooding. Winds also gusted to 60 miles an hour. Several trees were damaged due to lightning and power lines were downed in Filer.									
Owyhee County Bruneau	30	1400MST 1600MST			0	0			Thunderstorm Wind
Owyhee County Twin Buttes	30	1400MST 1500MST			0	0			Thunderstorm Wind (G64)
Boise County Idaho City	30	1600MST 1700MST			0	0			Heavy Rain
Valley County Mccall	30	1630MST 1730MST			0	0			Heavy Rain
Owyhee County Givens Hot Springs	30	1630MST 1730MST			0	0	10K		Heavy Rain
ILLINOIS, Central									
Clark County Dennison	02	1335CST			0	0			Hail (1.75)
Hail up to golfball size fell in Dennison causing some corn and soybean damage. Also, the hail damaged the siding and windows on one home and the roof of a tool shed. No injuries were reported and no damage estimate was available.									
Crawford County 1 N Robinson	02	1440CST			0	0			Hail (1.75)
Richland County Noble	02	1624CST			0	0			Hail (1.75)
Effingham County Effingham	19	1525CST			0	0	0		Thunderstorm Wind
Thunderstorm wind blew down 3 large trees in Effingham. One tree was 3.5 feet in diameter and 120 feet tall. No injuries or damage were reported.									
Marshall County 5 S Lacon	24	1045CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down several trees and tree limbs in the Marshall State Fish and Wildlife Area. No injuries or damage									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Central									
were reported.									
Tazewell County Morton	24	1145CST			0	0	0		Thunderstorm Wind
Several large trees were blown down in the Pine Lake Area. No injuries or damage were reported.									
Peoria County Chillicothe/Peoria	24	1145CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down numerous large trees, tree limbs, and power lines in Chillicothe and Peoria. One tree fell onto the historic Scottish Rite Cathedral in Peoria. However, it only caused minor damage. No injuries were reported and no damage estimate was available.									
Woodford County Metamora	24	1151CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down several trees in Metamora and Washburn. No injuries or damage were reported.									
Mason County Snicarte	24	1155CST			0	0			Thunderstorm Wind (G52)
McLean County Hudson	24	1214CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down a large tree in Hudson which pulled down a powerline. No injuries were reported and no damage estimate was available.									
Menard County Athens	24	1220CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down several large tree limbs, some of which knocked out a couple of powerlines in Athens. No injuries were reported and no damage estimate was available.									
De Witt County De Witt	24	1300CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down several trees in DeWitt. No injuries or damage have been reported.									
Logan County Lincoln	24	1307CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down several large tree limbs in the Lincoln Lakes area. No injuries or damage have been reported.									
Macon County Decatur	24	1335CST			0	0			Thunderstorm Wind
Thunderstorm winds caused some roof damage to the Wal-Mart in Decatur and knocked down several powerlines in Maroa and Argenta. No injuries were reported and no damage estimate was available.									
Vermilion County Fithian	24	1415CST			0	0			Thunderstorm Wind
Thunderstorm winds blew down a power pole in Fithian. No injuries were reported and no damage estimate was available.									
Logan County Lawndale	28	1658CST			0	0			Hail (1.00)
Menard County Greenview	28	1825CST			0	0			Hail (2.00)
Menard County 2 S Athens	28	1825CST	0.1	50	0	0			Tornado (F0)
A tornado briefly touched down in a field 2 miles south of Athens. No injuries or damage were reported.									
Woodford County 2 E Benson	28	1830CST			0	0			Thunderstorm Wind
Thunderstorm winds uprooted several large trees and knocked down numerous tree limbs in an area extending from 1 mile south of Benson to 2 miles east of Benson. Also, the winds blew the roof off of a shed and golfball sized hail fell in the area. No injuries were reported and no damage estimate was available.									
Sangamon County Sherman	28	1840CST			0	0			Hail (1.75)
Clark County Clark Center	29	0100CST			0	0			Hail (1.75)
Knox County Galesburg	29	2133CST			0	0	2K		Thunderstorm Wind
Thunderstorm winds blew over a greenhouse in a store parking lot, as well as several swing sets in Galesburg. Also, several trees and tree limbs were blown down and one sign sustained minor damage. No injuries were reported and damage to the greenhouse was estimated around \$2,000.									
Fulton County Canton	30	0151CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds uprooted several trees in Canton and knocked down numerous tree limbs in the area. No injuries were reported and no damage estimate was available.									
ILLINOIS, Northeast									
Will County Bolingbrook	15	1930CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

July 1996

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

Cook County

Orland Park

15	1955CST 2010CST				0	0			Tstm Wind/Hail
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A strong thunderstorm containing large hail and strong winds moved through southern Cook County. This storm caused some tree and power line damage.

Kane County

Aurora

17	0930CST				0	0	0		Thunderstorm Wind
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Strong winds associated with a thunderstorm that moved through Aurora, downed tree limbs in about a one block area.

Lake County

Lake In The Hills

17	1330CST				0	0	0		Lightning
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Lightning struck a roof of a house, starting the house on fire. The living areas were completely damaged by fire, smoke and water.

Will County

Shorewood

17	1640CST				0	0			Thunderstorm Wind
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A strong thunderstorm that moved through Will County downed 8" tree branches near Shorewood. A funnel cloud was spotted near I-80 and I-55.

The same storm produced a funnel cloud near Manteno, no damages reported.

La Salle County

La Salle

17	1645CST				0	0			Thunderstorm Wind
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A strong thunderstorm moving through LaSalle County uprooted large trees, tore garage doors from businesses and knocked a mobil home off its base.

The same storm downed numerous trees at a residence across from the Oak Ridge Golf Club and snapped a 30-foot flag pole in half.

Winnebago County

South And West

17 18	1800CST 0700CST				0	0			Flash Flood
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Record breaking rainfall fell over parts of north central and northeast Illinois on the 17th and 18th of July which resulted in unprecedented flash flooding. The heaviest rain, in excess of 5 inches, fell in a cordidor from near Rockford through Aurora and Joliet to the south suburbs of Chicago. The 16.91 inches that fell at Aurora set a 24 hour record for the state of Illinois. Other rainfall amounts included in 8.08 inches at Midway Airport in Chicago, 10.09 inches at Willow Springs, 8.25 inches at Park Forest (all in Cook County), 8.12 inches at DeKalb (DeKalb County), 9.27 inches at Wheaton (DuPage County), 5.65 at Momence (Kankakee County), 6.07 at Dayton (LaSalle County), 4.99 at Paw Paw (Lee County), 5.20 at Rochelle (Ogle County), 10.36 at the NWS office in Romeoville (Will County), and 7.43 at Rockford (Winnebago County). Eleven northeast Illinois counties were declared a federal disaster. Some 14 USGS gaging sites recorded all-time record streamflows. The recurrence interval for a rainfall of this magnitude has been extrapolated to exceed the 1,000 year threshold.

According to Illinois Emergency Management Agency and FEMA, there were over 70,000 disaster assistance applications received. A total of \$103,500,000 in disaster housing grants were issued, \$49,300,000 in home/personal property small business loans were approved and \$6,400,000 in small business loans were approved. There was also over 2 million dollars in state grants approved.

Crop damages were likely in the tens of millions.

Heavy rain began in the far west and southwest suburbs during the late morning of the 17th and continued through the day. During the evening heavy rains developed in the Rockford and Dekalb areas. Then more thunderstorms with torrential rain pounded the west and southwest suburbs of Chicago again overnight and into the morning of the 18th.

Numerous creeks and streams reached record levels late on the 17th and on the 18th. Numerous major roads and highways were impassible.

Interstate 55 was closed in two places and a section of I-88 was closed due to flood waters. The Burlington Northern Railroad was shut down when a section of the railroad bed was washed out by flood waters. Tens of thousands of homes and businesses were flooded. Numerous cars were swept off roads into raging creeks and drainage ditches. Many people had to be evacuated from their homes, some by boat or helicopter.

There were two deaths directly attributed to the flood. A 20 year old man and his cousin went swimming in Hickory Creek in Joliet and were swept away by the current. One man was able to climb out, the other drowned. A 61 year old man drowned in Channahon when he tried to check on neighbors at riverfront property. There were 3 indirect deaths. A 39 year old man was electrocuted while trying to restore electrical power to a home in Montgomery. Two men died of heart attacks during clean up efforts.

All of the major streams in northern Illinois were affected. Here is some specific information for each watershed. Along the DuPage River, flooding inundated homes and downtown businesses in Naperville, Warrenville and Bolingbrook. Extensive flooding of businesses and residences was experienced along the DuPage River from Bolingbrook to Channahon. Some Plainfield residents were rescued by boat. For a time the entire village of Plainfield was isolated due to floodwaters. Some vehicles were swept into ditches. In Shorewood, firefighters attempted to rescue flood victims by boat. When their boat tipped over, they had to

Storm Data and Unusual Weather Phenomena

July 1996

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

be rescued by helicopter. The DuPage River at Shorewood crested at nearly 5 feet higher than the previous record crest. A section of I-55 was closed between Joliet and Plainfield due to flood waters from the DuPage River. Channahon was completely isolated for a time due to flood waters. Flooding washed out sections of a spillway on a dam that supplies water to the I&M canal. A walkbridge at a state park over the river in Channahon was washed out. The I&M canal covered I-55 north of Route 6 for a time.

There was also extensive flooding of homes and businesses from Rock Run Creek and Hickory Creek in Will County. Flooding of Aux Sable Creek in Grundy County inundated the Shady Oaks Trailer Court in Minooka. Many residents had to be evacuated. The Little Calumet river flooded roads and homes in southern Cook County around South Holland.

The heaviest rain fell over the lower Fox River watershed. Unprecedented flooding occurred in southern Kane, Kendall and northern LaSalle Counties. In Yorkville, flash flooding along Blackberry Creek washed out a section of River Road. In Aurora, an estimated 60% of homes were affected by flooding. Interstate 88 was closed due to high water. In Sheridan, a home was washed away by the swift current of the Fox River. In Dayton, floodwaters breached a section of the levee at the hydro electric plant dam. The raging waters scoured out some secondary roads near the dam and left gravel and sand deposits 10 to 20 feet deep in the wake of the flood. Major damage occurred to the powerhouse at the dam.

Flash flooding also occurred in the Rock River Basin. Many bridges over secondary roads were washed out or damaged in north central Illinois. Many state roads were under water. In Sycamore, the Kishwaukee River inundated the Evergreen Village Mobile Park and residents had to be evacuated by boat. Downstream in Kirkland, residents were evacuated from Congress Lake Estates Mobile Home Park. Flash Flooding of Bull Run Creek washed out 300 feet of railroad track in Kirkland.

This was the worst flood disaster ever for northeast Illinois.

Boone County Southern	17 18	1800CST 0700CST			0 0				Flash Flood
Cook County Southern	17 18	1800CST 0700CST			0 0	44.7M			Flash Flood
De Kalb County Countywide	17 18	1800CST 0700CST			0 0				Flash Flood
Du Page County South And Central	17 18	1800CST 0700CST			0 0	4.4M			Flash Flood
Kane County South And Central	17 18	1800CST 0700CST			0 0	14.5M			Flash Flood
Grundy County Northern	17 18	1800CST 0700CST			0 0	1M	16M		Flash Flood
Kankakee County North And Central	17 18	1800CST 0700CST			0 0				Flash Flood
Kendall County Countywide	17 18	1800CST 0700CST			0 0	1.5M			Flash Flood
La Salle County Northeast	17 18	1800CST 0700CST			0 0				Flash Flood
Lee County Eastern	17 18	1800CST 0700CST			0 0				Flash Flood
Ogle County East And Central	17 18	1800CST 0700CST			0 0				Flash Flood
Will County Countywide	17 18	1800CST 0700CST			2 0				Flash Flood
M20IW, M61IW									
La Salle County Leland	17	2305CST			0 0				Tstm Wind/Hail
A strong thunderstorm containing strong winds and hail, downed many trees and caused power outages.									
La Salle County Kernan	17	2330CST			0 0				Thunderstorm Wind
A thunderstorm containing strong winds resulted in two parked freight cars blown off their tracks. The same storm destroyed a machine shed near Streator.									
Kendall County Oswego	24	1115CST			0 0		0		Thunderstorm Wind
A severe thunderstorm over northern Kendall county downed trees in Oswego.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ILLINOIS, Northeast</u>									
Kankakee County									
Bourbonnais	24	1159CST			0	0			Tstm Wind/Hail
									A severe thunderstorm containing wind speeds of 60 mph and 1/2 inch diameter hail moved through Kankakee county. No damage was reported.
Kankakee County									
Kankakee	24	1435CST			0	0	0		Thunderstorm Wind
									Damaging winds and small hail associated with a strong thunderstorm in Kankakee county, downed trees in Kankakee.
Lee County									
West Brooklyn	28	1745CST			0	0			Hail (0.75)
									Doppler radar indicated a possible tornado in northwest LaSalle County. A trained spotter reported a rotating wall cloud and three-quarter inch hail.
Lee County									
County Line	28	1829CST			0	0			Funnel Cloud
									A trained spotter reported a funnel cloud at the border of Lee County and LaSalle County.
La Salle County									
Mendota	28	1900CST			0	0			Funnel Cloud
									A funnel cloud was spotted near Mendota.
La Salle County									
Leland	28	1907CST			0	0			Thunderstorm Wind
									A funnel cloud was reported by State Police near Leland in Northern LaSalle County. Strong winds associated with the thunderstorm downed trees.
La Salle County									
Earlville	28	1925CST			0	0			Thunderstorm Wind
									A strong thunderstorm producing high winds and heavy rain, downed a large tree in LaSalle County.
Winnebago County									
West Of Rockford	28	2044CST			0	0			Tstm Wind/Hail
									A strong thunderstorm moved through Winnebago County. Three quarter inch hail and wind speeds of 60 mph were associated with this storm.
Winnebago County									
Rockford	28	2100CST			0	0			Hail (0.75)
Livingston County									
Odell	30	0220CST			0	0	0		Thunderstorm Wind
									Tree branches and power lines wer blown onto a roadway near Emington. Also, two storage sheds were damaged.
<u>ILLINOIS, Northwest</u>									
Bureau County									
5 NE La Moille	17	1715CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds downed numerous large trees.
Carroll County									
1 S Fairhaven	17	1950CST			0	0			Thunderstorm Wind (G52)
									Trees and power lines were downed near the Carroll-Whiteside county line.
Whiteside County									
4 W Coleta	17	1959CST			0	0			Hail (0.75)
Whiteside County									
1.5 W Coleta	17	2000CST	0.3	20	0	0			Tornado (F0)
									A tornado struck just west of Coleta, Illinois, snapping several one foot diameter trees in half.
Henry County									
Galva	22	1630CST			0	0			Hail (0.88)
Henderson County									
Oquawka	29	2050CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds downed numerous trees and power lines.
Henry County									
Galva	29	2220CST			0	0	10K		Thunderstorm Wind (G52)
									One home was struck by a tree and sustained \$5,000 in damage to the roof and one wall. A 100 foot grain bin was damaged and several hog sheds were blown away. Thunderstorm winds also downed many trees across the southwest side of Galva and one large tree fell on a parked truck.
<u>ILLINOIS, South</u>									
Williamson County									
Marion	01	1750CST			0	0	2K		Thunderstorm Wind
									Several trees and power lines were blown down.
Wabash County									
Mt Carmel	02	1711CST			0	0	20K		Thunderstorm Wind
									Trees and power lines were blown down. A roof was blown off a house, and a construction trailer was overturned. At least two vehicles and a house were damaged by falling trees.
Wayne County									
Mt Erie	02	1815CST			0	0	5K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, South									
Dozens of large trees were blown down, and roofing was blown off a pole barn.									
Gallatin County 2 W Junction to Ridgway	02	1835CST			0	0	20K		Thunderstorm Wind
Trees were blown down. A roof was blown off a restaurant near the intersection of Highways 1 and 13.									
White County Carmi	07	1315CST			0	0	20K		Lightning
A lightning-induced fire destroyed two barns.									
Edwards County Albion	07	1535CST			0	0	15K		Thunderstorm Wind
Roofs were off buildings, and tree limbs were down.									
Alexander County Cairo	08	1015CST			0	0			Thunderstorm Wind (G52)
Large tree limbs were blown down.									
Hardin County Elizabethtown	19	1815CST			0	0			Thunderstorm Wind (G52)
Trees were blown down.									
Perry County Pinckneyville	19	1945CST			0	0	10K		Thunderstorm Wind
Trees and power lines were down. One tree fell on a house, and another tree fell on a vehicle.									
Perry County Pinckneyville	19	1945CST			0	0	50K		Lightning
The sheriff's office received extensive damage. All radio and telephone communications were knocked out for up to 30 minutes. Some electrical appliances were damaged.									
Jefferson County Mt Vernon to Scheller	19	2045CST			0	0			Thunderstorm Wind (G52)
Trees were down near Mt. Vernon and Scheller.									
Saline County Eldorado	19	2045CST			0	0			Thunderstorm Wind (G52)
Trees and power lines were blown down.									
Franklin County West Frankfort	19	2130CST 2330CST			0	0			Urban/Sml Stream Fld
Persistent thunderstorms dumped up to 3 inches of rain within a few hours. A nursing home in West Frankfort called for civil defense sandbagging. Water was over some roads.									
Massac County Metropolis	21	1645CST			0	0	5K		Thunderstorm Wind
Power lines were down throughout the city.									
Massac County Metropolis to Brookport	30	1715CST 1830CST			0	0			Urban/Sml Stream Fld
A slow-moving thunderstorm dumped 2.95 inches of rain in Metropolis. 2.2 inches fell in one hour and 15 minutes. Some street flooding occurred, and creeks were over their banks in both Brookport and Metropolis.									
ILLINOIS, Southwest									
Pike County Pleasant Hill	19	1720CST			0	0			Thunderstorm Wind (G52)
Thunderstorm wind gusts downed trees.									
Calhoun County Beechville	19	1830CST			0	0			Thunderstorm Wind (G55)
Thunderstorm wind gusts downed trees and power lines.									
Madison County Pontoon Beach	19	1845CST			0	0			Thunderstorm Wind (G55)
Amateur radio spotters reported trees and power lines down.									
Madison County Granite City	19	1845CST			0	0			Thunderstorm Wind (G55)
Power lines were downed along Route 3.									
St. Clair County Smithton	19	1900CST			0	0			Hail (1.75)
Golfball size hail was reported in Smithton.									
St. Clair County New Athens	19	1910CST			0	0	2K		Thunderstorm Wind (G55)
Wind gusts downed trees and power lines. One home suffered roof damage from a downed tree.									
St. Clair County Belleville	19	1915CST			0	0			Thunderstorm Wind (G55)
Amateur radio spotters reported trees and power lines down mainly across the south part of Belleville.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Southwest									
St. Clair County New Athens	19	1915CST			0	0			Hail (1.00)
Madison County Livingston	19	1925CST			0	0			Thunderstorm Wind (G55)
Amateur radio spotters reported highway signs blown over along I-55.									
Monroe County Columbia	19	1925CST			0	0			Thunderstorm Wind (G55)
The county sheriff reported power lines down.									
Monroe County Waterloo	19	1935CST			0	0			Thunderstorm Wind (G55)
The county sheriff reported trees and power lines down in and around Waterloo.									
Macoupin County Virden	19	1937CST			0	0			Hail (2.75)
Skywarn spotters reported 2 3/4 inch hail in Virden.									
St. Clair County Marissa	19	1940CST			0	0			Thunderstorm Wind (G55)
Power lines were downed in Marissa.									
Washington County Lively Grove	19	1950CST			0	0			Thunderstorm Wind (G55)
The county sheriff reported trees and power lines down along Route 153.									
Washington County Nashville	19	2005CST			0	0			Thunderstorm Wind (G55)
The county sheriff reported numerous trees and power lines down.									
Randolph County Sparta	19	2005CST			0	0			Thunderstorm Wind (G55)
Skywarn spotters reported trees and power lines down.									
Randolph County Tilden	19	2005CST			0	0			Thunderstorm Wind (G55)
Skywarn spotters reported trees and power lines down in Tilden.									
Randolph County 2 N Baldwin	28	1510CST			0	0			Hail (1.75)
Skywarn spotters reported golfball size hail north of Baldwin.									
St. Clair County Cahokia	28	2057CST			0	0			Hail (0.75)
St. Clair County Belleville	28	2140CST			0	0	20K		Lightning
Lightning struck a business starting a fire resulting in an estimated \$20,000 damage.									
INDIANA, Central									
Fountain County Veedersburg	02	1402EST 1407EST			0	0			Hail (1.75)
Tippecanoe County Lafayette	02	1430EST 1435EST			0	0			Hail (1.00)
Montgomery County Waveland	02	1435EST 1445EST			0	0	100K		Thunderstorm Wind
Thunderstorm winds knocked numerous trees down and overturned a mobile home. Several homes were damaged by falling trees and high winds. A few county roads were closed due to downed trees.									
Vigo County West Terre Haute	02	1446EST 1455EST			0	0			Hail (0.75)
Vigo County West Terre Haute	02	1450EST 1456EST			0	0			Hail (1.00)
Vigo County West Terre Haute	02	1450EST 1456EST			0	0			Thunderstorm Wind
Five trees were reported down due to strong thunderstorm winds.									
Parke County Marshall	02	1456EST 1501EST			0	0			Thunderstorm Wind
Several trees reported blown down in Marshall.									
Parke County Marshall	02	1456EST 1501EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Central									
Vigo County									
State Road 63	02	1457EST 1505EST			0	0			Hail (1.75)
Montgomery County									
Crawfordsville	02	1500EST 1505EST			0	0			Hail (1.00)
Montgomery County									
Crawfordsville	02	1500EST 1505EST			0	0			Thunderstorm Wind
Multiple trees knocked down by strong thunderstorm winds.									
Putnam County									
Fillmore	02	1505EST 1510EST			0	0			Hail (1.00)
Putnam County									
Greencastle	02	1525EST 1535EST			0	0			Thunderstorm Wind
Thunderstorm winds knocked numerous trees down across the county and closed a majority of the east-west county roads. Several homes were damaged by falling trees and strong straight-line winds.									
Morgan County									
Martinsville	02	1545EST 1550EST			0	0			Hail (0.75)
Parke County									
Rockville	02	1625EST 1630EST			0	0			Thunderstorm Wind
Three trees were reported blown down by strong thunderstorm winds.									
Putnam County									
Mount Meridian	02	1630EST 1635EST			0	0			Thunderstorm Wind
Thunderstorm winds blew large tree limbs down and flattened some corn crops.									
Miami County									
3 E Peru	02	1640EST 1645EST			0	0			Hail (1.25)
Hail was reported to have damaged some crops.									
Brown County									
Yellowood Forest	02	1645EST 1650EST			0	0			Hail (0.75)
Bartholomew County									
Edinburgh	02	1733EST 1740EST			0	0			Hail (1.50)
Jennings County									
Hayden	02	1745EST 1750EST			0	0			Hail (1.25)
Jennings County									
Lovett	02	1800EST 1805EST			0	0			Hail (1.50)
Martin County									
2 N Loogootee	07	1730EST 1735EST			0	0	1K		Thunderstorm Wind
Thunderstorm winds knocked several trees down just north of Loogootee.									
Martin County									
Loogootee	07	1730EST 1731EST			0	0	70K		Lightning
Lightning strike caused extensive damage to a home near Loogootee.									
Marion County									
Speedway	07	2100EST 2105EST			0	0			Thunderstorm Wind
Single cell thunderstorm knocked a few trees and large limbs down near 34th and Moller. Power lines were also downed.									
Clinton County									
Frankfort	17	1630EST 1640EST			0	6	2M		Thunderstorm Wind
Very strong thunderstorm winds associated with a rapidly developing thunderstorm complex caused extensive damage in the Frankfort area. Heavy damage occurred at the Clinton county fairgrounds where a large tree fell on a tent. Six injuries were reported...mainly cuts and abrasions. Several rides and buildings at the fairgrounds received heavy damage. Park officials estimated 100 mph winds. Numerous trees were also reported down in Frankfort and over 50 homes were damaged by wind or falling trees.									
Decatur County									
Greensburg	17	1645EST 1646EST			0	0	10K		Lightning

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Central									
Lightning destroyed a barn.									
Decatur County Greensburg	17	1645EST 1650EST			0	0			Thunderstorm Wind
A few trees were reported down near Greensburg from thunderstorms.									
Howard County 6 SW Kokomo to 4 SW Kokomo	17	1702EST 1705EST	2.1	440	0	0	65K	2K	Tornado (F1)
Tornado blew down dozens of trees and destroyed one barn. Trees damaged several homes. A semi-tractor trailer was blown off highway 26 on west side of Russiaville by tornado. Two high power transmission towers were twisted and felled. Tornado tracked from just west of Russiaville to between Russiaville and New London.									
Howard County West Middleton	17	1707EST 1715EST			0	0			Thunderstorm Wind
Straight-line wind damage reported at West Middleton. Numerous trees down.									
Howard County Kokomo	17	1710EST 1720EST			0	6	60K		Thunderstorm Wind
Thunderstorm winds knocked several trees down. Two homes were damaged by high winds and falling trees. Winds were estimated between 80 and 90 mph.									
Howard County Greentown	17	1717EST 1720EST			0	0			Thunderstorm Wind (G69)
Wind gust of 80 mph estimated by law enforcement.									
Miami County Amboy	17	1745EST 1750EST			0	0	25K		Thunderstorm Wind
Thunderstorm winds destroyed a mobile home in Amboy. Several trees reported down. A roof was also blown off of a barn.									
Carroll County 5 N Delphi	17	2028EST 2035EST			0	0			Thunderstorm Wind
Thunderstorm winds knocked trees down and blew shingles off of homes.									
Miami County 3 S Peru	17	2028EST 2035EST			0	0			Thunderstorm Wind
Thunderstorm winds knocked several trees down. Some damage was reported to a few homes.									
Howard County Greentown	17	2040EST 2050EST			0	0			Thunderstorm Wind
Wind damage reported in Greentown. Winds were estimated at 70 mph. Few trees down and minor damage to few homes.									
Howard County Kokomo	17	2230EST 2330EST			0	0			Flash Flood
County roads reported flooded. Area received nearly 4 inches of rainfall from thunderstorms.									
Clinton County Rossville	17	2240EST 2245EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds knocked down several trees along Highway 421 near Rossville.									
Howard County Russiaville	17 18	2330EST 0230EST			0	0			Flash Flood
Many roads reported flooded and closed in Russiaville.									
Howard County Kokomo	24	1615EST 1620EST			0	0			Hail (0.88)
Knox County Bruceville	24	1900EST 1905EST			0	0			Thunderstorm Wind (G53)
Ham radio operator recorded 61 mph wind gust in Bruceville.									
Knox County 10 S Vincennes	24	2255EST 2305EST			0	0	5K		Thunderstorm Wind
Strong thunderstorms knocked trees and power lines down south of Vincennes.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Central									
Sullivan County Graysville	29	0330EST 0331EST			0	0			Lightning
									Lightning struck house causing fire which destroyed home.
Sullivan County Sullivan	29	0340EST 0345EST			0	0			Thunderstorm Wind
									Single tree fell on house then onto car.
Decatur County Greensburg	29	0800EST 0801EST			0	0	4K		Lightning
									Lightning struck a church in Greensburg.
Miami County Mexico	29	1708EST 1715EST			0	0			Hail (1.25)
Miami County 6 NW Peru	29	1715EST 1720EST			0	0			Hail (1.75)
Miami County Mexico	29	1720EST 1725EST			0	0			Thunderstorm Wind
									Single tree down near town of Mexico.
INDIANA, Northeast									
Whitley County South Whitley to 2 E South Whitley	07	1600EST 1610EST			0	0	150K	50K	Thunderstorm Wind (G80)
									STRONG THUNDERSTORM WINDS DESTROYED A GARAGE AND BARN JUST EAST OF SOUTH WHITLEY ALONG SR 205. ALSO, TREES WERE BLOWN DOWN, A ROOF WAS BLOWN OFF A GARAGE AND HOUSE AND A HOUSE WAS DAMAGED WHEN A TREE WAS BLOWN ON IT. A MOBILE HOME WAS OVERTURNED ON THE NORTHSIDE OF SOUTH WHITLEY. CROP DAMAGE WAS ESTIMATED AT \$50,000 DUE TO THE WINDS.
Huntington County North Huntington Co	07	1655EST 1710EST			0	0	45K	10K	Thunderstorm Wind (G65)
									STRONG THUNDERSTORM WINDS BLEW DOWN TREES AND POWER LINES ACROSS NORTHERN HUNTINGTON COUNTY. ONE HOME WAS DAMAGED WHEN A TREE FELL ON THE HOME IN JACKSON TOWNSHIP.
Wells County North Wells County	07	1705EST 1720EST			0	0	10K		Thunderstorm Wind (G65)
									STRONG THUNDERSTORM WINDS BLEW DOWN TREES AND POWERLINES ACROSS THE NORTHERN 1/2 OF THE COUNTY. A SHED WAS ALSO DESTROYED NEAR OSSIAN.
Grant County West Grant County	17	2100EST 2115EST			0	0			Thunderstorm Wind (G65)
									STRONG THUNDERSTORM WINDS BLEW DOWN TREES AND POWERLINES ACROSS WESTERN GRANT COUNTY.
Huntington County Huntington County	18	0800EST 1200EST			0	0	7M	100K	Flash Flood
									SEVEN INCHES OF RAIN FELL IN A 12 HOUR PERIOD IN HUNTINGTON, INDIANA PRODUCING DEVASTATING FLASH FLOODING IN THE COMMUNITY. OVERFLOWING SEWERS AND CREEKS PRODUCED SEVERE FLOODING WITH 370 HOMES DAMAGED WITH 60 RECEIVING SEVERE FLOOD DAMAGE. THE FLOODING, ALSO, CAUSED SEVERE DAMAGE TO THE MAJESTIC PRODUCTS COMPANY. DAMAGE IN THE CITY OF HUNTINGTON ALONE WAS ESTIMATED AT 6 MILLION DOLLARS.
									ELSEWHERE IN HUNTINGTON COUNTY A TOTAL OF 2200 ACRES OF CROP LAND WAS INUNDATED BY FLOOD WATERS. IN THE TOWNS OF ANDREWS AND ROANOKE APPROXIMATELY 35 HOMES WERE DAMAGED.
									THE FLOODING ACROSS HUNTINGTON COUNTY WAS DESCRIBED AS THE WORST SINCE 1913.
Whitley County 10 NW Columbia City to 7 NW Columbia City	24	1525EST 1530EST			0	0	3K		Thunderstorm Wind (G70)
									CANOEES WERE BLOWN OUT OF A LAKE AND DAMAGED IN NORTHWEST WHITLEY COUNTY. ALSO, TREES WERE BLOWN DOWN IN THE SAME AREA.

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>INDIANA, Northeast</u>									
Whitley County									
Columbia City	24	1536EST 1541EST			0	0			Thunderstorm Wind (G60)
TREES AND POWERLINES WERE BLOWN DOWN NEAR COLUMBIA CITY.									
Allen County									
2 W Ft Wayne to Ft Wayne	24	1555EST 1610EST			0	0			Thunderstorm Wind (G65)
TREES AND POWERLINES WERE REPORTED DOWN IN THE ABOITE AREA OF FORT WAYNE AND ON THE NORTHEAST SIDE OF FORT WAYNE.									
Huntington County									
Roanoke	30	0620EST 0625EST			0	0			Thunderstorm Wind (G60)
TREES AND POWER LINES WERE BLOWN DOWN IN ROANOKE, INDIANA BY STRONG THUNDERSTORM WINDS.									
Adams County									
North Adams County	30	0630EST 0645EST			0	0			Thunderstorm Wind (G60)
THUNDERSTORM WINDS BLEW THE ROOF OFF A SHED AND DOWNED LARGE TREE LIMBS IN NORTHERN ADAMS COUNTY.									
Wells County									
Kingsland	30	0635EST 0640EST			0	0	10K		Thunderstorm Wind (G60)
THUNDERSTORM WINDS DAMAGED A HOUSE AND DOWNED TREES AND POWERLINES NEAR KINGSLAND.									
<u>INDIANA, Northwest</u>									
St. Joseph County									
New Carlisle	15	1540CST 1555CST			0	0			Hail (1.75)
St. Joseph County									
South Bend	15	1558CST 1615CST			0	0			Hail (1.00)
St. Joseph County									
Mishawaka	15	1615CST 1630CST			0	0			Hail (1.00)
St. Joseph County									
Lakeville	15	1655CST 1705CST			0	0			Hail (1.50)
Jasper County									
Countywide	17 18	2100EST 0900EST			0	0			Flash Flood
La Porte County									
Countywide	17 18	2100EST 0900EST			0	0			Flash Flood
Lake County									
Countywide	17 18	2100EST 0900EST			0	0			Flash Flood
Marshall County									
Countywide	17 18	2100EST 0900EST			0	0			Flash Flood
Newton County									
Northern	17 18	2100EST 0900EST			0	0			Flash Flood
Porter County									
Countywide	17 18	2100EST 0900EST			0	0			Flash Flood
St. Joseph County									
Countywide	17 18	2100EST 0900EST			0	0			Flash Flood
Starke County									
Countywide	17 18	2100EST 0900EST			0	0			Flash Flood

Heavy rainfall in excess of 5 inches fell in northwest and north central Indiana on the night of July 17th through the morning of the 18th. The rainfall caused flooding of homes and businesses, flooding of creeks and small streams and flooding of many roads. Some rainfall reports included 7.44 inches at Hobart (Lake County), 6.36 inches at Hebron (Porter County), 6.00 inches at LaPorte (LaPorte County), 5.50 inches at Walkerton (St. Joseph County), 5.80 inches at Wheatfield (Jasper County), 4.30 inches at North Judson (Starke County), and 5.45 inches and Lake of the Woods (Marshall County).

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
INDIANA, Northwest									
		Flooding of the Little Calumet River occurred in Lake County. On the Kankakee River at Davis at the Route 30 bridge recorded an all-time record crest. Widespread lowland agricultural flooding occurred along the Kankakee River. As many as 35 homes were affected by high water in Winimac from the Tippecanoe River.							
INDIANA, South Central									
Washington County Salem	01	1319EST			0	0			Thunderstorm Wind (G50)
		Several trees down including one on a mobile home.							
Harrison County Southern Part	02	1910EST			0	0			Thunderstorm Wind (G50)
		Several trees down. Report from Emergency Management coordinator.							
INZ079 Jefferson	07	0700EST			0	0			Flood
	08	1900EST							
		The Muscatatuck River reached 24.6 feet (flood stage is 15 feet) on July 8 at 1200 am est.							
Jefferson County Countywide	07	1830EST 2100EST			0	0			Flash Flood
		Several roads were impassable across the county but especially in the Hanover and Deputy areas. Some areas recieved in excess of 5 inches of rain in 3 hours.							
Scott County Lexington	07	1900EST			0	0	2K		Thunderstorm Wind (G52)
		State EOC reported numerous trees and power lines down, 3 houses and 1 mobile home received minor roof damage.							
Clark County New Washington	07	1955EST			0	0			Thunderstorm Wind (G50)
		Several trees down.							
Harrison County East Central Part	21	1500EST			0	0			Thunderstorm Wind (G50)
		Trees down in the east central part of the county due to thunderstorm winds.							
Harrison County 4 S Corydon to 5 S Corydon	21	1505EST 1507EST	1	50	0	0	10K		Tornado (F1)
		An F1 tornado touched down 4 miles south of Corydon. The tornado moved southeast about a mile before lifting. Several trees were down, and a mobile home was destroyed.							
INDIANA, Southeast									
Franklin County Brookville	17	1735EST 1740EST			0	0	4K		Thunderstorm Wind (G50)
		Numerous trees and power lines downed.							
Union County Billingsville	17	1800EST 1805EST			0	0	5K		Thunderstorm Wind (G50)
		Numerous large trees downed.							
Wayne County Chester	18	0030EST 0035EST			0	0	3K		Thunderstorm Wind (G50)
		Numerous trees downed.							
Wayne County Milton	29	0910EST 0915EST			0	0	3K		Thunderstorm Wind (G50)
		Numerous trees downed.							
INDIANA, Southwest									
Warrick County Boonville	02	1810CST			0	0			Thunderstorm Wind (G52)
		Large tree limbs up to 24 inches in diameter were blown down.							
Gibson County 2 W Princeton to 1.5 S Princeton	19	1700CST 1703CST			0	0	8K		Thunderstorm Wind (G52)
		A tin roof was peeled off. Large tree limbs were blown down.							
Pike County Petersburg	19	1730CST			0	0	3K		Thunderstorm Wind
		Several trees were blown down in Petersburg. A large limb fell on a motor home.							
Spencer County New Boston	19	1750CST			0	0			Thunderstorm Wind (G52)
		Several trees were blown down.							

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Central									
Crawford County									
Dow City	16	2140CST			0	0	10K	50K	Hail (1.75)
	A warm front was located to the south and southwest of Iowa during the late afternoon hours of the 16th. A strong low level jet formed during the evening hours and brought very warm, moist, and unstable air north into Iowa. Dew point values at the 850 mb level were in the 16 to 18 degree C. range. Precipitable water values were in excess of 2 inches. A large mesoscale convective system developed and tracked southeast across Iowa. Severe weather occurred during the early stages of the storms development. Hail up to golf ball size was reported over west central Iowa. Crop damage as reported, as well as roof damage in Crawford and Greene Counties. There were also several reports of gusty winds. Large trees were downed at Gray in Audubon County. Shingles were removed from the roofs of houses north of Viola, also in Audubon County. One tornado was reported as well. A brief touchdown occurred northwest of Coon Rapids in Carroll County. The touchdown occurred in an open area, thus no damage was reported. Copious amounts of rain occurred during the night with the storms. A broad swath of 3 to 6 inch rainfalls extended from west central into south central Iowa. The heaviest rainfall occurred in west central Iowa with unofficial amounts near 12 inches reported in Monona and Crawford Counties. Flash flooding was widespread in Carroll and Crawford Counties where the heaviest rainfall occurred. Most of the rest of the heavy rainfall only produced urban and small stream flooding. The soil was very dry before the rain fell, thus much of what did fall soaked into the ground. Though there was some damage, it was relatively minor since much of the first several inches of rain was quickly absorbed. Some agricultural flooding was reported. Crop damage was minor as the fields were not under water for an extended period of time.								
Carroll County									
.8 NW Coon Rapids	16	2358CST	0.2	25	0	0			Tornado (F0)
Crawford County									
Denison	17	0000CST 0900CST			0	0	300K	200K	Flash Flood
Greene County									
2 SW Scranton	17	0007CST			0	0	5K	50K	Hail (1.75)
Greene County									
1 W Scranton	17	0012CST			0	0	1K	30K	Hail (0.75)
Audubon County									
3 N Viola Center	17	0015CST			0	0	25K	1K	Thunderstorm Wind (G56)
Audubon County									
Gray	17	0055CST			0	0	5K		Thunderstorm Wind (G50)
Cass County									
Atlantic Arpt	17	0124CST			0	0	10K		Thunderstorm Wind (G51)
Carroll County									
Carroll	17	0155CST 0900CST			0	0	300K	200K	Flash Flood
IAZ033>034-045>046-057>059	Sac - Calhoun - Carroll - Greene - Audubon - Guthrie - Dallas								
	17 19	0300CST 1800CST			0	0	25K	100K	Flood
	Dry weather prevailed across Iowa until the 16th and 17th when a strong thunderstorm complex moved through the state. Heavy rainfall was observed over much of the northwest half of the state, and was particularly heavy over west central Iowa with some locations reporting in excess of 10 inches of rain from the event. While the average rainfall over the Raccoon River Basin was comparatively light (2 to 3 inches), it did produce minor flooding along most of the rivers reach. Flooding was primarily limited to agricultural lands with crops being flooded out. Only very minor property damage was reported. All of the forecast points along the river receded below flood stage within 72 hours of the onset of the heavy rain.								
Crawford County									
Denison	17	0900CST 1100CST			0	0	15K		Urban/Sml Stream Fld
Carroll County									
Carroll	17	0900CST 1100CST			0	0	15K		Urban/Sml Stream Fld
Polk County									
Des Moines	17	0900CST 1100CST			0	0	30K		Urban/Sml Stream Fld
Warren County									
Indianola	17	0900CST 1100CST			0	0	15K		Urban/Sml Stream Fld
Guthrie County									
Guthrie Center	27	2355CST			0	0		5K	Hail (0.75)
	A weak cold front dropped southeast across Iowa during the evening and early morning hours. An east to west line of thunderstorms dropped south across a large part of the state. It took on a bow configuration, however most of the storms were not severe. The produced gusty winds and small hail as they passed. One storm dropped three quarter inch diameter hail in Guthrie Center.								
Adair County									
1 S Stuart	29	1408CST			0	0	10K	25K	Hail (1.75)
	Low pressure developed along a cold front as it dropped southeast across the state. The air mass became unstable during the afternoon with lifted indices in the -6 to -9 degree C range. Cold air filtered in aloft, resulting in steep lapse rates. Surface dew point temperatures pooled into the middle 60s ahead of the front. Freezing levels were around 11,000 feet, resulting in hail								

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, Central</u>									
production from many of the storms. The largest reported hail was around golf ball in size. High winds occurred in Union County, south of Lorimor. Several trees up to 14 inches in diameter were toppled, blocking roads in the area. High winds caused farm damage in Clarke County south of Murray. Large tree limbs were downed and several hog lots were blown over. The last high wind report came from north of Van Wert in Decatur County, where winds downed numerous trees and some power lines. There was one tornado reported. It was in Greene County, west of Cooper. It was a small tornado, rope like in structure. It touched down in an open field and caused little damage.									
Madison County 5 SW Winterset	29	1450CST			0	0	5K	25K	Hail (1.75)
Madison County 10 S Winterset	29	1514CST			0	0	5K	25K	Hail (1.75)
Greene County 1.5 NW Cooper	29	1530CST			0	0	1K	10K	Hail (0.75)
Greene County 1 W Cooper to .8 W Cooper	29	1537CST 1541CST	0.3	25	0	0		0.50K	Tornado (F0)
Small rope tornado									
Clarke County Osceola	29	1540CST			0	0	2K	1K	Hail (0.75)
Clarke County Weldon	29	1605CST			0	0	3K	5K	Hail (1.00)
Clarke County 4 E Weldon	29	1610CST			0	0	1K	5K	Hail (0.75)
Clarke County 6 S Woodburn	29	1620CST			0	0	1K	5K	Hail (1.00)
Union County 4 S Lorimor	29	1700CST			0	0	2K		Thunderstorm Wind (G52)
Clarke County 1 NE Murray	29	1710CST			0	0	1K	5K	Hail (0.75)
Clarke County 1.5 NE Murray	29	1711CST			0	0	1K	5K	Hail (0.75)
Clarke County Murray	29	1718CST			0	0	3K	2K	Hail (0.75)
Clarke County 1 S Murray	29	1724CST			0	0	30K	1K	Thunderstorm Wind (G52)
Clarke County 1 S Murray	29	1732CST			0	0	5K	40K	Hail (1.75)
Thunderstorms produced extensive crop damage near Murray as golf ball size hail destroyed 50% to 70% of the crops in the area.									
Decatur County 1 N Van Wert	29	1740CST			0	0	1K	5K	Hail (0.75)
Decatur County 1 N Van Wert	29	1740CST			0	0	5K	1K	Thunderstorm Wind (G56)
<u>IOWA, East Central and Southeast</u>									
Scott County Davenport	22	1515CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed numerous tree limbs and powerlines.									
<u>IOWA, Northeast</u>									
NONE REPORTED.									
<u>IOWA, Northwest</u>									
Plymouth County Akron	01	1515CST			0	0			Hail (1.75)
Sioux County 4 SE Rock Vly	01	1545CST			0	0			Hail (1.75)
Plymouth County Akron	01	1600CST			0	0			Hail (1.75)
Plymouth County Westfield	01	1640CST 1642CST	0.1	50	0	0			Tornado (F0)
Emergency management officials reported a brief tornado touchdown with no damage.									
Woodbury County 2 N Sioux City	01	1743CST			0	0			Hail (0.75)
Woodbury County Sioux City to Sioux City Arpt	06	1844CST 1900CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
IOWA, Northwest									
Woodbury County									
Salix	16	1820CST 1835CST			0	1	200K		Thunderstorm Wind (G70)
									Thunderstorm winds caused widespread tree damage. The winds also caused some building and vehicle damage, much of which was due to falling trees, although one camper was overturned. One minor injury resulted from a person being hit by an object while trying to seek shelter.
Woodbury County									
Sergeant Bluff	16	2122CST			0	0			Hail (0.75)
									Hail covered the ground.
Woodbury County									
Sioux City to Sloan	16 17	2130CST 0300CST			0	0	1M		Flash Flood
									Heavy rainfall of 6 to 11.5 inches caused flash flooding of roads including urban areas, as well as creeks and lowlands. Several levee failures were reported along Wolf Creek. Basement flooding and some flooding of ground level floors occurred.
Woodbury County									
Climbing Hill	16	2141CST			0	0			Hail (1.75)
Clay County									
Everly	29	1235CST			0	0			Hail (1.00)
Clay County									
3 E Everly	29	1245CST			0	0			Hail (1.75)
Clay County									
Greenville to 5 NW Webb	29	1314CST 1335CST			0	0			Hail (0.75)
Clay County									
Greenville	29	1315CST 1335CST			0	0	5K		Thunderstorm Wind (G50)
									Thunderstorm winds caused damage to tree branches and roof shingles.
Buena Vista County									
1.5 NE Sioux Rapids	29	1330CST			0	0	10K		Thunderstorm Wind (G50)
									Thunderstorm winds caused tree damage.
Buena Vista County									
1.5 NE Sioux Rapids	29	1330CST			0	0			Hail (1.75)
IOWA, Southwest									
Harrison County									
Mondamin	03	2135CST			0	0			Hail (0.75)
IAZ055									
Harrison	16 18	2000CST 1200CST			0	0	1.5M	8M	Flood
									Heavy rains upstream in Monona and Crawford Counties of 5 to nearly 13 inches brought flooding along the entire Boyer River and the Soldier River. Urban flooding affected Pisgah and Missouri Valley. Up to 6 inches of rain fell in Harrison County itself. Damage was substantial to cropland, bridges, county roads, farm fences, and culverts.
IAZ043									
Monona	16 18	2200CST 1200CST			0	0	1.5M	27M	Flood
									The evening of July 16th thunderstorms produced a large area of 10 plus inches of rain from Monona County into Crawford County. Over half of Monona County averaged between 8 and 10 inches of rain. 12.75 inches of rain was reported at the Castana Experimental Farm. Extensive crop damage resulted across the county. Damage was also done to roads and bridges.
Monona County									
Onawa	16	2302CST			0	0			Thunderstorm Wind (G52)
Mills County									
Glenwood	22	1140CST			0	0			Thunderstorm Wind (G52)
Fremont County									
Tabor	22	1200CST			0	0			Thunderstorm Wind (G52)
Montgomery County									
Red Oak	22	1215CST			0	0			Thunderstorm Wind (G52)
Page County									
Shambaugh	22	1320CST			0	0			Thunderstorm Wind (G56)
Pottawattamie County									
1 S Shelby to 4.5 W Avoca	24	1421CST 1428CST	1	30	0	0	100K		Tornado (F1)
									A tornado formed from a non-supercell thunderstorm and touched down south of Shelby in Pottawattamie County. Destroyed were a machine shed, granary, hog barn, and some equipment. The tornado skipped a mile and touched down a second time and destroyed a home and its contents.
Mills County									
9 S Pacific Jct	28	0025CST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, East									
Brown County 5 N Hiawatha	04	0653CST			0	0			Hail (0.75)
Douglas County Lawrence	04	1030CST			0	0	1K		Lightning
									Lightning struck a house on the west side of town, damaging a television set and knocking out the telephone service.
Republic County 1 W Belleville	07	2257CST			0	0			Thunderstorm Wind (G52)
Washington County 5 NE Clifton	07	2301CST			0	0			Hail (1.00)
Cloud County Jamestown	08	0000CST			0	0			Thunderstorm Wind (G52)
Republic County Belleville	08	0000CST 0130CST			0	0			Flash Flood
									Three to five inches of rain caused flooding of many streets in the town of Belleville and on U.S. Highway 36 four miles east of Belleville. The engines of two farm combines also stalled after water from lowland flooding reached the engines.
Riley County Randolph	08	0010CST			0	0			Hail (1.75)
Riley County Randolph	08	0010CST			0	0			Thunderstorm Wind (G56)
									Strong winds knocked down power lines.
Republic County Norway	08	0011CST			0	0		2K	Thunderstorm Wind (G52)
									Strong winds broke off large tree limbs and produced scattered areas of crop damage.
Ottawa County Minneapolis	08	0030CST			0	0			Thunderstorm Wind
									Strong winds shattered the windows at several businesses and downed a few large trees.
Riley County Leonardville	08	0035CST			0	0			Hail (1.75)
Riley County Leonardville	08	0035CST			0	0	1K		Thunderstorm Wind (G52)
									Strong winds broke several large tree limbs and downed powerlines.
Riley County 3 S Leonardville	08	0035CST			0	0	2K		Thunderstorm Wind
									Strong winds damaged a metal shed and scattered some of the debris onto a nearby road.
Riley County Riley	08	0040CST			0	0	1K		Thunderstorm Wind (G52)
									Strong winds broke large tree limbs and knocked down several power lines.
Dickinson County Abilene	08	0100CST			0	0	1K		Thunderstorm Wind
									Strong winds knocked down large tree limbs which damaged the roof of a storage and produced minor damage to one car.
Dickinson County Solomon	08	0100CST			0	0	1K		Thunderstorm Wind
									Strong winds broke several power line poles.
Pottawatomie County Louisville	08	0105CST			0	0			Thunderstorm Wind (G50)
Riley County Manhattan	08	0110CST			0	0			Hail (1.75)
Riley County Manhattan	08	0110CST			0	0	6K		Thunderstorm Wind (G72)
									Strong winds knocked down numerous large trees and tree limbs. The winds also damaged power lines and several transformers, resulting in loss of power to 5000 customers.
Dickinson County Herington	08	0120CST			0	0	1K		Thunderstorm Wind
									Strong winds broke several power line poles.
Geary County Junction City	08	0127CST			0	0			Hail (0.75)
Geary County Junction City	08	0127CST			0	0	1K		Thunderstorm Wind
									Large tree limbs broke off in the strong winds and pulled down several power lines.
Lyon County Emporia	08	0236CST			0	0	2K		Thunderstorm Wind
									Strong winds produced minor damage to several mobile homes and tore the porch awnings off two houses.
Lyon County Emporia	08	0236CST			0	0	0.10K		Lightning

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, East									
One lightning strike set a bail of hay on fire. Another lightning strike severed a powerline.									
Ottawa County Niles	13	1548CST			0	0			Hail (1.75)
Ottawa County Niles	13	1550CST			0	0			Thunderstorm Wind (G61)
Dickinson County 1 S Talmage	13	1617CST			0	0			Thunderstorm Wind (G61)
Dickinson County 2 S Moonlight	13	1635CST			0	0			Thunderstorm Wind (G52)
Geary County Milford Res	13	1700CST			0	0	0.50K		Lightning
Lightning hit the mast of a sailboat. Part of the mast was burnt but the boat did not catch fire.									
Lyon County Emporia	13	1900CST			0	0	10K		Thunderstorm Wind
Strong winds broke several power line poles. The winds also downed a few large trees and limbs which damaged the gutters and siding of one house, nearly destroyed one car and broke the window of another vehicle.									
Lyon County Emporia	13	1900CST			0	0	0.50K		Lightning
Lightning struck several electrical transformers.									
KSZ039 Shawnee	18	1100CST 1700CST			0	0			Excessive Heat
An afternoon high temperature of 100 degrees and a dew point of 71 resulted in a record level of electricity consumption on the 18th.									
Nemaha County 8 S Centralia	20	1603CST	0.1	50	0	0			Tornado (F0)
A Pottawatomie County sheriff, a weather spotter and two other eye witnesses reported a brief tornado touchdown in southern Nemaha County.									
Coffey County Halls Summit	22	0240CST			0	0	80K		Lightning
Lightning hit the northeast corner of a two story house. The resulting fire destroyed most of the house.									
Republic County 3 N Courtland	22	1125CST			0	0			Thunderstorm Wind (G61)
Republic County Courtland	22	1128CST			0	0			Thunderstorm Wind (G54)
Republic County 4 NW Scandia	22	1132CST			0	0			Hail (0.75)
Cloud County 3 W Jamestown	22	1133CST			0	0			Thunderstorm Wind (G61)
Republic County 2 SE Scandia	22	1134CST			0	0			Thunderstorm Wind (G52)
Cloud County Concordia	22	1140CST 1200CST			0	0	30K		Thunderstorm Wind (G52)
An extended period of strong thunderstorm winds downed numerous large trees, tree limbs and power lines. Strong winds also snapped several power poles and knocked down several road signs. Strong winds tore the roof off one building and layed it onto an adjacent street. A window was shattered in another building. At the fair grounds a trailer was flipped over.									
Cloud County (Cnk)Blosser Apt Con	22	1153CST			0	0			Thunderstorm Wind (G58)
Clay County Clay Center	22	1225CST			0	0			Thunderstorm Wind
Strong winds downed several large trees.									
Dickinson County Manchester	22	1230CST			0	0	10K		Thunderstorm Wind
Strong winds downed power lines and large trees and damaged several farm buildings.									
Clay County 3 S Longford	22	1230CST			0	0			Hail (1.00)
Clay County 3 S Longford	22	1230CST			0	0			Thunderstorm Wind (G61)
Dickinson County Abilene	22	1245CST			0	0		6K	Hail (1.75)
Dickinson County Abilene	22	1245CST			0	0	40K		Thunderstorm Wind (G52)
Strong winds damage several farm buildings, broke 13 power line poles and knocked down numerous large trees. A large truck filled with rocks was pushed off the road into a ditch.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, East									
Dickinson County 3 W Talmage	22	1245CST			0	0		3K	Hail (0.88)
Dickinson County Talmage	22	1245CST			0	0			Hail (0.75)
Clay County Wakefield	22	1245CST			0	0			Thunderstorm Wind
			Strong winds down several large trees and tree limbs which pulled down power lines.						
Riley County Randolph	22	1245CST			0	0			Thunderstorm Wind (G52)
Riley County Leonardville	22	1245CST			0	0			Thunderstorm Wind (G61)
Dickinson County 3 N Abilene	22	1248CST			0	0	20K	200K	Hail (4.00)
			Golfball to softball size hail produced widespread crop damage and damaged several farm buildings. Damages were estimated based on preliminary information						
Dickinson County 3 N Abilene	22	1248CST			0	0	40K	50K	Thunderstorm Wind (G52)
			Strong winds damaged crops and several farm buildings.						
Geary County Junction City	22	1300CST			0	0	0.50K		Thunderstorm Wind
			Strong winds downed several large trees which pulled down power lines. A sign was also blown down onto Interstate 70.						
Morris County 1 E Delavan	22	1305CST			0	0			Thunderstorm Wind (G61)
Riley County Leonardville	22	1310CST			0	0			Thunderstorm Wind (G61)
Riley County Ogden	22	1310CST			0	0			Thunderstorm Wind
			Strong winds knocked down several large trees and limbs.						
Geary County Ft Riley	22	1312CST			0	0	3K		Thunderstorm Wind (G75)
			Winds gusting to 86 miles per hour tore shingles off the roofs of several buildings and pushed over road signs. Several vehicles were damaged by large trees.						
Geary County Ft Riley	22	1312CST			0	0			Hail (1.75)
Dickinson County Enterprise	22	1315CST			0	0		10K	Hail (1.25)
Dickinson County Enterprise	22	1315CST			0	0			Thunderstorm Wind
			Strong winds broke off large tree limbs.						
Riley County Manhattan	22	1315CST			0	0	1K		Thunderstorm Wind
			Strong winds knocked down several large trees and limbs onto powerlines, causing loss of electrical power to 2000 homes and businesses. One large tree also fell onto a car but only produced minor damage.						
Morris County Delavan	22	1320CST			0	0	10K		Thunderstorm Wind (G61)
			Strong winds damaged a building and an airplane at the Delavan Air Base.						
Dickinson County Herrington Arpt	22	1325CST			0	0	40K		Thunderstorm Wind
			Strong winds destroyed a hangar and flipped over a small airplane.						
Dickinson County 1.8 N Herrington	22	1325CST			0	0	1K		Hail (1.75)
			Large hail was reported by a Herrington Fire Department employee at the U.S. Highway 77 railroad overpass. The hail severely dented his vehicle and cracked the windshield.						
Wabaunsee County Alta Vista	22	1335CST			0	0			Thunderstorm Wind (G52)
Morris County 2 E Council Grove	22	1345CST			0	0	1K		Thunderstorm Wind (G52)
			Strong winds snapped off large tree limbs, one of which damaged a car.						
Morris County Council Grove	22	1345CST			0	0	0.50K		Lightning
			Lightning hit an electrical transformer.						
Morris County Council Grove	22	1345CST			0	0			Urban/Sml Stream Fld
			Heavy rain of 1.36 inches fell mainly inside of thirty minutes and caused rapid flooding of low lying streets.						
Shawnee County 8 NE Topeka	22	1405CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, East									
Shawnee County Topeka	22	1405CST			0	0	0.50K		Lightning
									Lightning hit an electric power substation and knocked out power to 7000 people.
Lyon County Bushong	22	1405CST			0	0	2K		Thunderstorm Wind
									Strong winds tore the northwest portion of a roof off a house and damaged the chimney.
Coffey County 1.5 N Lebo	22	1415CST			0	0	10K		Thunderstorm Wind
									The Kansas Highway Patrol reported that strong winds overturned a tractor-trailer truck onto the southbound lane of Interstate 35 at milepost 145.9.
Lyon County 6 NE Emporia	22	1425CST			0	0			Thunderstorm Wind
									Stong winds broke off several large tree limbs.
Lyon County Emporia	22	1425CST			0	0	1K		Thunderstorm Wind
									Strong winds downed several large trees and three utility poles.
Coffey County 3 W Lebo	22	1433CST			0	0	0.20K		Thunderstorm Wind
									Several road signs were blown down by strong winds.
Coffey County 1.5 N Lebo	22	1438CST			0	0			Thunderstorm Wind (G61)
									The Kansas Highway Patrol reported that strong winds caused a tractor-trailer truck to jackknife as it was blown across the southbound lane of Interstate 35 at mile post 143.5. An earlier accident involving another large truck occurred near the same location just twenty-three minutes earlier.
Osage County 4 SW Olivet	22	1440CST			0	0	60K		Thunderstorm Wind (G70)
									Powerful wind gusts pushed 17 freight cars of a train off the tracks.
Coffey County 5 W Waverly	22	1445CST			0	0	0.20K		Thunderstorm Wind (G54)
									Strong winds blew a car off the road and into a ditch at the junction of Interstate 35 and U.S. Highway 75.
Coffey County Waverly	22	1445CST			0	0	8K		Thunderstorm Wind
									Strong winds knocked a large tree onto a church building, producing a large hole in the roof and damage to the bell tower. Other fallen trees and large limbs produced minor damage to two house and a shed. Strong winds also tore shingles off one house.
Osage County 3 S Olivet	22	1450CST			0	0			Thunderstorm Wind (G54)
Franklin County Wellsville	22	1450CST			0	0			Thunderstorm Wind
									Strong winds downed several large trees.
Franklin County Pomona	22	1452CST			0	0			Thunderstorm Wind
									Strong winds downed several large trees.
Franklin County Ottawa	22	1455CST			0	0	8K		Thunderstorm Wind
									Strong winds destroyed a storage shed, knocked down power lines and knocked down several large trees.
Coffey County Waverly	22	1500CST			0	0			Thunderstorm Wind (G52)
Franklin County Williamsburg	22	1505CST			0	0			Thunderstorm Wind (G61)
Coffey County Burlington	22	1515CST			0	0	0.50K		Thunderstorm Wind
									Strong winds knocked down two utility poles.
Anderson County Garnett	22	1530CST			0	0			Thunderstorm Wind
									Strong winds downed several large trees.
Dickinson County Abilene	23	1525CST			0	0	50K		Hail (2.75)
									Wind blown large hail cracked or shattered the north-facing windows of 35 homes.
Cloud County 6 S Jamestown	28	0158CST			0	0			Hail (1.75)
Lyon County Emporia	29	0530CST			0	0	3K		Thunderstorm Wind
									Strong winds knocked down the canopy from over the gas pumps at a former convenience store. The time the damage occurred was estimated due to lack of additional information.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, East</u>									
Dickinson County Herington	29	0600CST			0	0	1K		Thunderstorm Wind
									Strong winds damaged a three story barn. The time of occurrence was estimated due to lack of additional information.
Douglas County Lawrence	29	0645CST			0	0	0.50K		Lightning
									Lightning struck several electric power transformers.
<u>KANSAS, Extreme Southeast</u>									
Cherokee County Columbus	04	0520CST			0	0	25K	0	Thunderstorm Wind (G70)
									Thunderstorm winds blew a metal roof off of a store in downtown Columbus and blew down numerous trees damaging the roofs of some homes.
Crawford County Pittsburg	08	0315CST			0	0	100K	0	Thunderstorm Wind (G70)
									A microburst downed trees and power lines, and tore off a section of the high school gym roof.
Bourbon County 3 SE Devon	08	0607CST			0	0	0	0	Flash Flood
									2-4 inches of rain fell in a two-hour period resulting in flash flooding. Portions of Highways 7 and 54 were underwater.
Bourbon County Uniontown	22	1610CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed power lines and trees.
Crawford County Frontenac	22	1705CST			0	0	0	0	Thunderstorm Wind
									Thunderstorm winds uprooted trees.
<u>KANSAS, North Central</u>									
Smith County 6 E Harlan	03	1830CST			0	0	10K	100K	Hail (1.75)
Smith County 7 S Lebanon	03	1832CST			0	0		25K	Hail (0.75)
Smith County 3 SE Dispatch	03	1910CST			0	0	20K	35K	Hail (2.50)
Osborne County Downs	03	1910CST			0	0	100K	50K	Hail (3.00)
Osborne County Osborne	03	1930CST 1935CST			0	0	30K	15K	Thunderstorm Wind (G70)
									Isolated severe thunderstorms moved slowly south across Smith and Osborne counties. Many cars and some windows were damaged. Hail to the size of baseballs damaged thirty cars at a car lot in Downs.
Phillips County 4 SW Logan	05	2000CST			0	0	75K		Lightning
									Lightning struck a home southwest of Logan. The resulting fire completely destroyed the home.
Smith County 8 N Smith Center	07	2100CST			0	0	5K	100K	Hail (2.25)
Smith County Lebanon	07	2300CST			0	0	50K	100K	Thunderstorm Wind (G80)
Jewell County Mankato	07	2315CST			0	0	5K	10K	Thunderstorm Wind (G70)
Mitchell County Cawker City	07	2344CST			0	0	5K	30K	Thunderstorm Wind (G73)
Jewell County Esbon	07	2345CST			0	0	2K	15K	Thunderstorm Wind (G60)
									Thunderstorms rolled south from Nebraska bringing winds of 60 to 80 mph. A grain bin and barn were destroyed near Lebanon.
Smith County 4 S Lebanon	10	2100CST			0	0	10K	50K	Hail (2.00)
Phillips County Stuttgart	18	2011CST			0	0	20K	50K	Hail (1.00)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, North Central</u>									
Phillips County Speed	18	2032CST			0	0	5K		Urban/Sml Stream Fld
Osborne County 6 S Alton	23	1719CST			0	0	10K		Hail (0.75)
Jewell County 14 SSW Mankato	27	1715CST			0	0	15K	50K	Hail (1.50)
Mitchell County 7 S Beloit	27	1810CST			0	0	5K	50K	Hail (1.50)
Smith County Lebanon	27	2325CST			0	0	20K		Hail (1.00)
Jewell County 2 E Ionia	27	2345CST			0	0	2K	50K	Hail (1.75)
Phillips County 2 W Phillipsburg	27	2350CST			0	0	10K		Hail (0.75)
Phillips County 4 W Prairie View	28	0240CST 0250CST			0	0	5K	50K	Thunderstorm Wind (G55)

Thunderstorms early in the evening dropped large hail southwest of Mankato resulting in broken windows. Later that night, a line of severe thunderstorms moved south into Kansas depositing hail up to 1.75 inches in diameter and 60 mph winds.

Phillips County 4 W Stuttgart	28	2300CST			0	0	5K		Thunderstorm Wind (G60)
Phillips County Phillipsburg	28	2345CST			0	0	5K		Hail (0.75)
Rooks County Webster Res	31	1805CST			0	0	3K	5K	Hail (1.00)
Rooks County 3 W Stockton	31	1811CST			0	0	10K		Hail (1.25)
Rooks County Stockton	31	1821CST			0	0	5K		Hail (0.75)
Rooks County 5 SSE Plainville	31	1907CST			0	0	15K		Hail (1.25)
Rooks County Codell	31	1917CST			0	0	10K		Hail (1.00)

Thunderstorms developed along a warm front in Phillips county and moved south across Rooks county. Torrential rainfall and hail to the size of walnuts were reported.

KANSAS, Northeast

KSZ025	Atchison								
	20	0000CST			0	0			Flood
	23	2359CST							
	Missouri River Atchison, KS								
	Flood Stage 22 ft								
	Above Flood Stage 7/20 to 7/22								
	Crest 25.0 ft on 7/21								

KSZ103	Leavenworth								
	20	0000CST			0	0			Flood
	22	2359CST							
	Missouri River Leavenworth, KS								
	Flood Stage 20 ft								
	Above Flood Stage 7/20 to 7/22								
	Crest 22.0 ft on 7/21								

Leavenworth County Leavenworth	20	1713CST			0	0	5K		Thunderstorm Wind
Severe thunderstorm winds knocked down several large trees in Leavenworth.									

Miami County Paola	20	2010CST			0	1			Lightning
A Paola woman from the 400 block of West Miami Street was struck by lightning and injured. Thunderstorms produced lightning									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KANSAS, Northeast</u>									
									that reportedly went through the furnace of her home and exited the home through the front door, striking her while sit on her porch.
Miami County Paola	20	2015CST			0	0	7K		Thunderstorm Wind
									A window on Town Square was blown out in Paola by thunderstorm winds.
Miami County Paola	22	1530CST			0	0			Thunderstorm Wind (G56)
									County sheriff's office reported wind gusts up to 65 MPH in a severe thunderstorm in Paola.
Linn County Mound City to Centerville	22	1554CST 1610CST			0	0			Thunderstorm Wind (G60)
									County sheriff's office reported 70 MPH wind gusts in Centerville and Mound City during a severe thunderstorm. Large tree limbs were blown down by severe thunderstorm winds in Mound City, Pleasanton and Blue Mound.
Leavenworth County 3 W Lansing	28	1727CST			0	0			Hail (1.50)
									A severe thunderstorm dropped hail up to an inch and a half in diameter 3 miles west of Lansing.
Leavenworth County 4 W Springdale	28	1818CST			0	0			Hail (0.75)
									A severe thunderstorm dropped dime-size hail 4 miles west of Springdale along County Line and 92 Highway.
Johnson County Overland Park	29 30	2300CST 0000CST			0	0			Urban/Sml Stream Fld
									Johnson County sheriff's office reported flooding conditions along Shawnee Mission Parkway and at the intersection of 80th St. and Metcalf. The sheriff's office reported several other small roads closed due to flooding.
<u>KANSAS, Northwest</u>									
Sherman County Kanorado	06	2240MST			0	0			Thunderstorm Wind (G52)
									THREE TO FOUR INCH DIAMETER TREE BRANCHES DOWN.
Gove County 17 SSW Gove	07	1600CST			0	0			Hail (1.75)
Sherman County 14 SSE Edson	07	1615MST			0	0			Hail (1.00)
Sherman County 14 SSE Edson	07	1630MST			0	0			Hail (1.75)
Gove County 18 SSW Gove	07	1632CST			0	0			Hail (1.75)
									HAIL BROKE WINDOWS. TWO HOLES THROUGH SATELLITE DISH, WINDSHIELD BROKEN ON PICKUP, TREE BRANCHES DOWN.
Wallace County 9 NNE Wallace	07	1710MST			0	0			Hail (1.75)
Logan County 8 NNE Mc Allaster	07	1720CST			0	0			Hail (1.00)
Thomas County 3 W Levant	07	1746CST			0	0			Hail (2.25)
Wallace County 10 N Wallace	07	1800MST			0	0			Thunderstorm Wind (G61)
									BRANCHES 12 INCHES IN DIAMETER BROKEN.
Logan County 5 NW Mc Allaster	07	1810CST			0	0			Hail (2.50)
Logan County 5 NW Mc Allaster	07	1810CST			0	0			Thunderstorm Wind (G52)
									TREE BRANCHES 12-18 INCHES IN DIAMETER DOWN.
Logan County 11 S Oakley	07	1830CST			0	0			Hail (0.88)
Gove County 11 S Campus	07	1830CST			0	0			Thunderstorm Wind (G52)
									BRANCHES 3 INCHES IN DIAMETER DOWN.
Gove County 18 SW Gove	07	1910CST			0	0			Thunderstorm Wind (G65)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Northwest									
BRANCHES 3 INCHES IN DIAMETER BROKEN									
Gove County 18 SW Gove	07	1910CST			0	0			Hail (0.75)
Cheyenne County 3 W Bird City	07	1920CST			0	0			Hail (1.50)
WINDOWS BROKEN AND VINYL SIDING DAMAGED.									
Cheyenne County 5 S Bird City	07	1935CST			0	0			Thunderstorm Wind (G52)
BRANCHES 4 TO 5 INCHES IN DIAMETER BROKEN.									
Wichita County 6 N Marienthal	07	2005CST			0	0			Thunderstorm Wind (G60)
Wichita County 6 N Marienthal	07	2005CST			0	0			Hail (1.50)
Wichita County 1 E Marienthal	07	2015CST			0	0			Thunderstorm Wind (G61)
BARN DESTROYED. ALSO ELEVATOR BIN DESTROYED 4 N OF MARIENTHAL AT 2010 CST									
Wichita County 6 N Lydia	07	2030CST			0	0			Thunderstorm Wind (G52)
STOCKWATER METAL TANK BLOWN ONE HALF MILE.									
KSZ029	Gove	07 08	2035CST 0600CST		0	0			Flood
ESTIMATES OF 4 TO 5 INCHES OF RAINFALL IN LESS THAN THREE HOURS PUSHED SMALL STREAMS OUT OF BANKS.									
Cheyenne County 5 N Bird City	13	1855CST			0	0			Hail (0.75)
Norton County 17 S Norton	13	1920CST			0	0			Thunderstorm Wind (G52)
Graham County 14 N Hill City	13	1920CST			0	0			Thunderstorm Wind (G52)
Graham County 9 NNE Hill City	13	1950CST			0	0			Hail (0.75)
Graham County Bogue	13	2000CST			0	0			Thunderstorm Wind (G52)
Graham County (Hlc)Hill City Muni	13	2009CST			0	0			Thunderstorm Wind (G56)
Cheyenne County 10 N Bird City	15	2000CST			0	0			Thunderstorm Wind (G52)
Rawlins County 2 SW Atwood	15	2010CST			0	0			Thunderstorm Wind (G52)
Rawlins County 7 E Atwood	15	2040CST			0	0			Thunderstorm Wind (G52)
TREE BRANCHES 5 TO 6 INCHES IN DIAMETER DOWN.									
Rawlins County 3 SE Achilles	15	2110CST			0	0			Thunderstorm Wind (G52)
Decatur County 9 S Oberlin	15	2120CST	0.2	20	0	0			Tornado (F0)
BRIEF TORNADO.									
Decatur County .5 S Jennings to .7 S Jennings	15	2140CST 2145CST	0.2	30	0	0			Tornado (F0)
TORNADO OBSERVED BY SPOTTER									
Graham County 4 NW Morland	15	2215CST	0.2	30	0	0			Tornado (F0)
BRIEF TORNADO 2 MILES NORTH OF ANTELOPE LAKE.									
Sherman County 13 NE Goodland	19	1404MST	0.2	10	0	0			Tornado (F0)
BRIEF LANDSPOUT TYPE TORNADO ON GROUND 30 SECONDS.									
Thomas County 5 NNE Colby to 4 N Colby	21	1623CST 1650CST	3	100	0	0	37K	10K	Tornado (F1)
WELL PHOTOGRAPHED AND VIDEOGRAPHED TORNADO PICKED UP LARGE AMOUNTS OF DIRT FROM FIELD WHERE FARMER HAD BEEN PLOWING. TORNADO FIRST MOVED EAST FOR ABOUT 1/2 MILE AND THEN TURNED TO MOVE SLOWLY WEST SOUTHWEST FOR 2.5 MILES. TORNADO DISSIPATED JUST AFTER CROSSING									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Northwest									
STATE HIGHWAY 25. TORNADO DAMAGED CORN FIELD, IRRIGATION SPRINKLER SYSTEM, AND THREE WHEEL ALL TERRAIN CYCLE. TORNADO COULD BE SEEN FROM 20-30 MILES AWAY.									
Thomas County 15 S Colby	21	1725CST			0	0			Hail (0.75)
Logan County 4 S Monument	21	1746CST			0	0			Hail (1.50)
1.25 INCH HAIL ALSO REPORTED 2 MILES WEST OF MONUMENT AT 1745 CST. 1.00 INCH HAIL ALSO REPORTED 5 MILES SOUTHWEST OF MONUMENT AT 1758 CST.									
Logan County 1 S Monument	21	1807CST			0	0			Hail (1.00)
2.00 INCH HAIL ALSO REPORTED 9 MILES SOUTH OF MONUMENT AT 1809 CST. 2.00 INCH HAIL ALSO REPORTED 6 MILES SOUTH OF MONUMENT AT 1816 CST.									
Logan County 8 ESE Russell Spgs to 8 E Russell Spgs	21	1826CST 1830CST			0	0			Thunderstorm Wind (G52)
Logan County 6 SW Elkader	21	1830CST			0	0			Hail (2.00)
Wichita County 5 SSE Marienthal	21	1930CST			0	0			Hail (1.00)
Greeley County 1 SW Whitelaw	22	1515MST			0	0			Hail (1.00)
Wichita County 9 S Leoti	22	1522CST			0	0			Hail (1.00)
Wichita County 10 SE Leoti	22	1545CST			0	0			Hail (1.75)
Sherman County 13 NNE Edson	23	1307MST			0	0			Thunderstorm Wind (G52)
GUSTNADO OBSERVED BY SHERIFF OVER OPEN COUNTRY.									
Cheyenne County 6 NW Bird City	23	1314CST			0	0			Hail (1.00)
Cheyenne County 1 E Wheeler	23	1330CST	0.1	20	0	0			Tornado (F0)
BRIEF TORNADO OVER OPEN AREA.									
Cheyenne County Bird City	23	1349CST			0	0			Hail (1.75)
1.00 INCH HAIL ALSO REPORTED AT BIRD CITY AT 1339 CST.									
Rawlins County 15 S Mc Donald	23	1357CST	0.2	20	0	0			Tornado (F0)
BRIEF TORNADO OVER OPEN COUNTRY.									
Thomas County 2 NE Brewster	23	1429CST	0.1	20	0	0			Tornado (F0)
BRIEF TORNADO OVER OPEN COUNTRY.									
Thomas County Colby	23	1435CST			0	0			Hail (1.00)
TWO INCH HAIL ALSO REPORTED 4 MILES WEST OF COLBY AT 1435 CST.									
Thomas County 4 W Colby	23	1435CST	0.2	30	0	0			Tornado (F0)
BRIEF TORNADO OVER OPEN COUNTRY BETWEEN HIGHWAY 24 AND INTERSTATE 70 MOVING SOUTH.									
Thomas County 5 N Levant	23	1440CST			0	0			Hail (2.75)
Thomas County 11 S Colby	23	1505CST			0	0			Hail (2.00)
Thomas County 11 S Colby	23	1508CST 1510CST	1	20	0	0			Tornado (F0)
TORNADO ON GROUND FOR TWO MINUTES OVER OPEN COUNTRY MOVING SOUTH.									
Logan County 1 N Page City	23	1508CST	0.1	20	0	0			Tornado (F0)
BRIEF TORNADO OBSERVED OVER OPEN COUNTRY.									
Thomas County 14 S Colby	23	1520CST			0	0			Hail (4.00)
ONE INCH HAIL ALSO REPORTED 8 MILES SOUTH OF MINGO AT 1515 CST.									
Logan County 1 NE Monument	23	1525CST			0	0	150K	1M	Hail (1.75)
GOLFBALL TO BASEBALL HAIL AND STRONG NORTH WINDS BROKE OUT NEARLY EVERY NORTH FACING WINDOW IN MONUMENT. CARS WERE DAMAGED AND CROPS DESTROYED. ABOUT 260 PANES OF GLASS AT									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KANSAS, Northwest									
									THE MONUMENT SCHOOL WERE BROKEN.
Thomas County 10 S Brewster	23	1525CST	0.1	20	0	0			Tornado (F0) BRIEF TORNADO OVER OPEN COUNTRY
Logan County 13 SW Oakley	23	1550CST			0	0			Hail (1.50)
Logan County 13 SW Oakley	23	1550CST			0	0	1K		Thunderstorm Wind (G70) WINDOWS BROKEN ON EAST SIDE OF HOUSE.
Decatur County Lyle	23	1550CST			0	0			Hail (0.75)
Decatur County Norcatour	23	1558CST			0	0			Hail (2.50) GOLFBALL HAIL ALSO REPORTED 1 MILE NORTHWEST OF NORCATUR AT 1553 CST.
Norton County 1 E Clayton	23	1610CST			0	0			Hail (2.75)
Logan County 14 S Oakley	23	1615CST			0	0			Hail (0.75)
Gove County 25 S Campus	23	1635CST			0	0			Hail (0.75)
Gove County 25 S Campus	23	1635CST			0	0			Thunderstorm Wind (G65)
Logan County 3 S Elkader	23	1638CST			0	0			Hail (1.00)
Graham County 4 N Hill City	23	1700CST			0	0			Hail (1.00)
Sherman County 5 S Goodland to 5.2 S Goodland	25	1424MST 1425MST	0.2	50	0	0			Tornado (F0) TORNADO ON GROUND FOR 30 SECONDS.
Sherman County 2 NE Ruleton	25	1426MST			0	0			Hail (0.75)
Sherman County 2 NE Ruleton	25	1426MST			0	0			Thunderstorm Wind (G52)
Cheyenne County 12 SW St Francis	25	1433CST			0	0			Hail (0.75)
Sherman County 10 S Goodland to 10.3 S Goodland	25	1500MST	0.3	30	0	0			Tornado (F1)
Sherman County 9 S Goodland	25	1505MST			0	0			Hail (0.88)
Sherman County 8 SSW Goodland	25	1520MST			0	0			Hail (0.75)
Wallace County 9 N Wallace	25	1535MST			0	0			Hail (1.00)
Logan County 7 WNW Russell Spgs	25	1715CST			0	0			Hail (1.75)
Logan County 10 SW Russell Spgs	25	1747CST			0	0			Hail (0.88)
Wichita County 10 NNE Leoti	25	1835CST			0	0			Thunderstorm Wind (G50) WIND BROKES TREE BRANCHES.
Decatur County 9 NNE Oberlin	25	1850CST			0	0			Hail (1.75)
Rawlins County 7 SW Atwood	25	1930CST			0	0			Thunderstorm Wind (G57)
Norton County Lenora	25	1930CST			0	0			Hail (1.00)
Rawlins County 2 SW Atwood	25	1945CST			0	0			Thunderstorm Wind (G52)
Sherman County 3 W Ruleton	25	1945MST			0	0			Thunderstorm Wind (G69)
Decatur County Norcatour	25	1950CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Northwest</u>									
Sheridan County Tasco	25	1950CST			0	0			Thunderstorm Wind (G57)
Sherman County 3 W Ruleton	25	2000MST			0	0			Thunderstorm Wind (G52)
Graham County 12 N Hill City	25	2008CST			0	0			Hail (1.00)
Sherman County 3 W Goodland	25	2010MST 2100MST			0	0			Flash Flood
RADIO STATION REPORTED 3 FEET OF WATER OVER THE ROAD.									
Graham County 2 W Hill City	25	2017CST			0	0			Hail (1.50)
Graham County 1 N Hill City	25	2025CST			0	0			Thunderstorm Wind (G52)
Graham County 1 N Hill City	25	2025CST			0	0			Hail (0.75)
Thomas County 5 N Levant	25	2100CST			0	0			Thunderstorm Wind (G52)
Norton County 2 NE Almena	28	0215CST			0	0			Hail (1.75)
Cheyenne County 15 N Bird City	28	1955CST			0	0			Hail (1.00)
Cheyenne County 14 N Bird City	28	2025CST			0	0			Hail (1.75)
Cheyenne County Bird City	28	2048CST			0	0			Hail (0.75)
Cheyenne County 2 W Wheeler	28	2146CST			0	0			Hail (0.75)
Thomas County 5 N Levant	28	2210CST			0	0			Thunderstorm Wind (G52)
Wallace County 11 S Wallace	31	1756MST			0	0			Hail (1.75)
Gove County 4 N Quinter	31	1820CST			0	0			Hail (0.75)
Sheridan County 14 SSE Tasco	31	1825CST			0	0			Hail (1.00)
Graham County 3.5 SW St Peter	31	1835CST			0	0			Hail (1.75)
Wallace County 12 S Wallace	31	1845MST 1850MST			0	0			Funnel Cloud
Logan County 19 S Mc Allaster	31	1901CST			0	0			Hail (1.75)
Gove County 10 SE Gove	31	1915CST			0	0			Hail (0.75)
ONE INCH HAIL ALSO 17 SE OF GOVE AT 1925 CST.									
Wichita County 12 NW Leoti	31	1954CST			0	0			Hail (2.00)
Wichita County 7 N Selkirk	31	2010CST			0	0			Hail (0.75)
Logan County 2 S Monument	31	2209CST			0	0			Hail (0.75)
Wallace County 11 S Wallace	31	2220MST			0	0			Thunderstorm Wind (G50)
TWO INCH DIAMETER BRANCHES BROKENN									
Greeley County 14 N Whitelaw	31	2230MST			0	0			Thunderstorm Wind (G52)
Thomas County Colby Muni Arpt	31	2241CST			0	0			Hail (0.56)
Logan County 4 W Oakley	31	2300CST			0	0			Flash Flood
HIGHWAY 40 COVERED BY WATER. ALSO WATER COVERED STREETS AND ROADS AROUND MONUMENT.									
Logan County 19 S Mc Allaster	31	2330CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Northwest</u>									
Wichita County 13 N Selkirk	31	2330CST			0	0			Thunderstorm Wind (G61)
<u>KANSAS, Southeast</u>									
Allen County Iola	04	0400CST			0	0			Thunderstorm Wind (G55)
			Several large tree limbs were downed.						
Labette County Parsons	04	0600CST			0	0			Thunderstorm Wind (G55)
			Several large tree limbs were downed.						
Cowley County 8 SSE Arkansas City to Arkansas City	06	1606CST			0	0			Thunderstorm Wind (G52)
			Numerous power lines were downed.						
Sedgwick County (Ict)Wichita Arpt	08	0105CST			0	0			Thunderstorm Wind (G66)
Sedgwick County (Iab)McConnell Afb W	08	0119CST			0	0			Thunderstorm Wind (G68)
Sumner County Conway Spgs	08	0140CST			0	0			Thunderstorm Wind (G52)
			Several tree limbs were downed.						
Butler County Latham	08	0208CST			0	0			Thunderstorm Wind (G61)
Cowley County Cambridge	08	0222CST			0	0			Thunderstorm Wind (G53)
			Numerous limbs and branches were downed.						
Elk County Howard	08	0227CST			0	0			Thunderstorm Wind (G54)
			Numerous trees were downed.						
Elk County Moline	08	0227CST			0	0	3K		Thunderstorm Wind
			The windows were blown out of a house.						
Elk County Howard	08	0228CST			0	0	12K		Thunderstorm Wind
			The roof of a house was blown off.						
Chautauqua County Hale	08	0235CST			0	0			Thunderstorm Wind
			A branch 6 to 8 inches in diameter was blown down.						
KSZ099	Montgomery				0	0			High Wind
	08	0317CST 0330CST							
			In Montgomery county a few telephone poles were downed after thunderstorm passage in both Independence and Coffeyville. The damage was caused by post-thunderstorm outflow winds.						
KSZ100	Labette				0	2	17K		High Wind
	08	0336CST 0340CST							
			Two people were injured when their mobile home was blown over after thunderstorm passage. The damage was caused by post-thunderstorm outflow winds.						
Neosho County Erie	08	0337CST			0	0			Thunderstorm Wind
			Many large tree limbs were blown onto power lines causing for widespread power outages.						
Labette County Parsons	08	0337CST			0	0			Thunderstorm Wind
			Numerous tree limbs were downed.						
Saline County 3 N Salina	13	1530CST			0	0			Hail (0.88)
Saline County 12 SW Salina	13	1610CST			0	0			Thunderstorm Wind (G53)
			Seven power poles were downed.						
Mepherson County Roxbury	13	1808CST			0	0			Thunderstorm Wind (G61)
Mepherson County Lindsborg	13	1820CST			0	0			Thunderstorm Wind (G53)
			Extensive damage to trees, many limbs were blown down.						
Rice County Sterling	19	1700CST			0	0			Thunderstorm Wind (G52)
Reno County Sylvia	21	2244CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southeast</u>									
Reno County									
Arlington	21	2247CST			0	0			Thunderstorm Wind (G62)
Reno County									
Hutchinson	21	2326CST			0	0			Thunderstorm Wind (G56)
Allen County									
6 NW Iola	22	1540CST			0	0			Hail (0.75)
Allen County									
5 NW Iola	22	1541CST			0	0			Hail (0.75)
Allen County									
5 NE Iola	22	1544CST			0	0			Thunderstorm Wind (G52)
Allen County									
Moran	22	1610CST			0	0			Thunderstorm Wind (G52)
		Numerous trees were blown down.							
Allen County									
Elsmore	22	1620CST			0	0			Thunderstorm Wind (G52)
Sumner County									
Ashton	22	1640CST			0	0			Thunderstorm Wind (G52)
Harper County									
Bluff City	22	1743CST			0	0			Thunderstorm Wind (G56)
Harper County									
4 N Bluff City	22	1749CST			0	0			Hail (0.75)
Harper County									
3 N Bluff City	22	1805CST			0	0			Thunderstorm Wind (G61)
Sumner County									
Milan	22	1805CST			0	0			Thunderstorm Wind (G52)
Sumner County									
2 N Caldwell	22	1808CST			0	0	22K		Thunderstorm Wind (G70)
		Numerous telephone poles were downed. Extensive damage was also caused by the thunderstorm winds.							
Russell County									
Luray	23	1755CST			0	0			Hail (1.75)
Lincoln County									
8 W Barnard	27	1829CST			0	0			Hail (0.88)
Lincoln County									
10 N Lincoln	27	1830CST			0	0			Hail (1.75)
Lincoln County									
Lincoln	27	1855CST			0	0			Hail (1.75)
Lincoln County									
11 S Lincoln	27	1917CST			0	0			Hail (1.75)
Ellsworth County									
11 NE Ellsworth	27	1935CST			0	0			Hail (0.75)
Russell County									
3 S Lucas to Lucas	28	0536CST			0	0			Hail (0.75)
<u>KANSAS, Southwest</u>									
Ford County									
6 SW Windthorst	06	1610CST			0	0			Hail (1.00)
Ford County									
4 N Bucklin	06	1620CST			0	0			Hail (0.75)
Pawnee County									
1 N Larned	06	1730CST			0	0			Hail (1.25)
Pawnee County									
5 WNW Larned	06	1730CST			0	0			Hail (1.75)
Pawnee County									
6 NE Larned	06	1815CST			0	0			Hail (0.75)
Ellis County									
1 N Hays	06	1900CST			0	0			Hail (0.88)
Ellis County									
1 W Hays	06	1905CST			0	0			Hail (1.75)
Pawnee County									
11 N Burdett	06	1920CST			0	0			Hail (1.75)
Ellis County									
11 SW Hays	06	1925CST			0	0			Hail (0.88)
Rush County									
Liebenthal	06	1950CST			0	0			Hail (1.00)
Rush County									
7 W Rush Center	06	2008CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Rush County 2 E Alexander	06	2025CST			0	0			Hail (0.75)
Pawnee County 11 NNW Burdett	06	2035CST			0	0			Hail (0.75)
Lane County Healy	07	1656CST			0	0			Hail (1.00)
Lane County 2 E Healy	07	1705CST			0	0			Hail (1.75)
Lane County Dighton	07	1715CST			0	0			Hail (2.50)
Lane County 10 N Dighton	07	1720CST			0	0			Hail (0.75)
Lane County 2 E Dighton	07	1726CST			0	0			Hail (1.75)
Lane County 4 NW Dighton	07	1728CST			0	0			Hail (4.00)
Lane County 3 WNW Dighton	07	1741CST			0	0			Hail (4.00)
Lane County Dighton	07	1748CST			0	0			Hail (2.75)
Lane County 4 S Dighton	07	1806CST			0	0			Hail (1.00)
Meade County 16 S Meade	07	1838CST			0	0			Thunderstorm Wind (G52)
Meade County 9 NW Englewood	07	1854CST			0	0			Hail (2.00)
Meade County 9 NW Englewood	07	1854CST			0	0			Thunderstorm Wind (G68)
Clark County 3 N Ashland	07	1922CST			0	0			Hail (0.88)
Lane County Healy	07	1930CST			0	0			Hail (0.75)
Scott County 3 N Manning	07	1941CST			0	0			Hail (1.75)
Lane County Healy	07	1945CST			0	0			Hail (2.75)
Lane County Healy	07	1945CST			0	0	300K		Thunderstorm Wind (G61)
									1 large tree uprooted...roof partially blown off of Senior Center...13 power poles down between Healy and Amy.
Lane County Healy	07	1950CST			0	0			Hail (1.00)
Scott County 2 S Modoc	07	2020CST			0	0			Thunderstorm Wind (G52)
Scott County 8 N Scott City	07	2020CST			0	0	0.60K		Thunderstorm Wind (G52)
Finney County 20 NW Garden City	07	2032CST			0	0			Thunderstorm Wind (G61)
Scott County Scott State Park	07	2035CST			0	0			Hail (1.75)
Kearny County Lakin	07	2050CST			0	0			Thunderstorm Wind (G57)
Finney County Garden City	07	2102CST			0	0			Thunderstorm Wind (G66)
Finney County Garden City Airport	07	2105CST			0	0			Thunderstorm Wind (G55)
Gray County Cimarron	07	2130CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Hodgeman County 14 W Jetmore	07	2156CST			0	0			Thunderstorm Wind (G61)
Pawnee County Burdett	07	2226CST			0	0			Thunderstorm Wind (G52)
Pawnee County Rozel	07	2239CST			0	0			Thunderstorm Wind (G52)
Hamilton County 12 N Syracuse	13	2010MST			0	0			Thunderstorm Wind (G52)
Trego County 5 NE Wakeeney	13	2038CST garage door blown off			0	0	3K		Thunderstorm Wind (G70)
Ellis County Ellis	13	2059CST roof blown off building...fence blown down...tree down...6 inch limbs down.			0	0	15K		Thunderstorm Wind (G52)
Trego County 5 E Trego Center	13	2115CST windows blown out of a house...corrals and outbuildings damaged north of Ogallah.			0	0	8K		Thunderstorm Wind
Ellis County 8 S Ellis	13	2125CST			0	0			Thunderstorm Wind (G61)
Ellis County 8 S Ellis	13	2125CST			0	0			Hail (1.00)
Kearny County 7 N Lakin	13	2130CST			0	0			Hail (1.00)
Ellis County 8 S Ellis	13	2137CST			0	0			Hail (1.00)
Finney County 10 NW Garden City	13	2141CST			0	0			Hail (1.00)
Lane County Shields	13	2145CST 2 inch to 4 inch tree limbs down			0	0			Thunderstorm Wind
Ness County 10 W Ness City	13	2153CST power lines down			0	0	7K		Thunderstorm Wind
Rush County Mc Cracken	13	2220CST			0	0			Hail (0.75)
Ness County 11 WSW Ness City	13	2225CST tree limbs down			0	0			Thunderstorm Wind
Finney County Kalvesta	13	2229CST			0	0			Thunderstorm Wind (G78)
Haskell County 10 N Sublette	13	2246CST			0	0			Thunderstorm Wind (G65)
Ford County Dodge City	13	2305CST			0	0			Thunderstorm Wind (G65)
Ford County Dodge City Airport	13	2308CST			0	0			Thunderstorm Wind (G56)
Comanche County 1 N Protection	14	0020CST			0	0			Hail (0.75)
Trego County Collyer	15	2330CST 3 inch tree limbs down			0	0			Thunderstorm Wind
Pawnee County Larned	19	2025CST			0	0			Thunderstorm Wind (G52)
Pawnee County 3 SE Larned	19	2100CST doors blown off of shed			0	0			Thunderstorm Wind
Stanton County 19 SW Johnson	21	1630CST			0	0			Hail (0.88)
Morton County 28 NNW Elkhart	21	1640CST			0	0			Hail (1.25)
Stanton County 5 SSW Saunders	21	1647CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Stanton County 1 NE Manter	21	1650CST			0	0			Hail (1.00)
Stanton County 4 S Saunders	21	1656CST			0	0			Hail (1.75)
Morton County 18 NNW Elkhart	21	1735CST			0	0			Hail (0.88)
Stanton County 13 NE Johnson	21	1800CST			0	0			Hail (1.00)
Ford County 1 E Dodge City	21	1830CST			0	0			Hail (0.75)
Scott County 12 N Scott City	21	1833CST			0	0			Thunderstorm Wind (G61)
Scott County Scott State Park	21	1845CST			0	0			Hail (1.75)
Scott County 7 W Scott City to 6.5 W Scott City	21	1848CST 1849CST	0.5	20	0	0			Tornado (F0)
Scott County 5 NW Scott City	21	1900CST			0	0		100K	Hail (1.75)
									10 percent of milo and corn crop lost
Scott County Scott City	21	1910CST			0	0			Hail (1.75)
Ford County 6 S Spearville	21	1910CST			0	0			Thunderstorm Wind
									4 inch tree limbs down
Scott County Scott City	21	1912CST			0	0			Hail (1.75)
Scott County Scott City	21	1920CST			0	0			Hail (1.00)
Finney County 15 N Garden City	21	1937CST			0	0			Hail (1.00)
Finney County 15 N Garden City	21	1937CST			0	0			Thunderstorm Wind (G61)
Finney County 14 N Garden City	21	1945CST			0	0		100K	Thunderstorm Wind (G70)
									2 irrigation systems destroyed
Finney County 14 N Garden City	21	1945CST			0	0			Hail (1.75)
Scott County 11 S Scott City	21	1950CST			0	0		5K	Hail (3.00)
									car windows broken
Finney County Garden City	21	1957CST			0	0			Thunderstorm Wind (G57)
Kearny County 11 N Deerfield	21	2010CST			0	0			Thunderstorm Wind (G61)
Finney County 1 N Garden City	21	2026CST			0	0			Thunderstorm Wind (G70)
Finney County 6 N Garden City	21	2028CST			0	0			Hail (1.00)
Kearny County 21 NNW Deerfield	21	2030CST			0	0			Hail (1.00)
Finney County 7 ESE Garden City	21	2048CST			0	0			Thunderstorm Wind (G65)
Gray County 3 W Howell	21	2110CST			0	0			Hail (0.75)
Barber County 6 N Sun City	21	2140CST			0	0			Hail (4.00)
Ness County Utica	23	1625CST			0	0			Hail (0.75)
Scott County 13 NE Scott City	23	1630CST			0	0			Hail (1.25)
Scott County 13 NE Scott City	23	1630CST			0	0			Thunderstorm Wind (G61)
Trego County 22 S Collyer	23	1630CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Ness County 1 N Ransom	23	1652CST			0	0			Hail (1.75)
Lane County Healy	23	1655CST			0	0			Hail (1.00)
		windows broken							
Ness County 3 NW Ness City	23	1705CST			0	0	10K		Hail (2.50)
		car windows broke							
Ness County 3 N Ness City	23	1706CST			0	0			Hail (1.75)
Lane County Dighton	23	1713CST			0	0			Thunderstorm Wind (G69)
		power lines down							
Ness County Ness City	23	1715CST			0	0			Hail (1.75)
Scott County Manning	23	1720CST			0	0			Thunderstorm Wind (G52)
Lane County 11 SE Alamota	23	1745CST			0	0			Hail (1.00)
		some crop damage...amount unknown							
Lane County 11 SE Alamota	23	1745CST			0	0			Thunderstorm Wind (G61)
Ness County 11 S Beeler	23	1755CST			0	0			Hail (1.00)
Hodgeman County 12 WNW Jetmore	23	1809CST			0	0			Hail (0.75)
Hodgeman County 12 WNW Jetmore	23	1818CST			0	0			Hail (1.75)
Finney County 3 E Kalvesta	23	1820CST			0	0			Thunderstorm Wind (G52)
Hodgeman County 9 W Jetmore	23	1825CST			0	0			Hail (0.75)
Hodgeman County 5 S Jetmore	23	1830CST			0	0			Thunderstorm Wind (G61)
Hodgeman County 7 S Jetmore	23	1840CST			0	0			Hail (1.00)
Hodgeman County 7 S Jetmore	23	1840CST			0	0			Thunderstorm Wind (G57)
Ford County 5 N Wright	23	1840CST			0	0			Thunderstorm Wind (G78)
Ford County Spearville	23	1858CST			0	0			Hail (0.88)
Scott County 6 NW Scott City	23	1900CST			0	0			Hail (1.75)
Ford County Spearville	23	1903CST			0	0			Hail (1.75)
Scott County 1 W Scott City	23	1907CST			0	0			Hail (1.75)
Scott County Scott City	23	1910CST			0	0			Hail (1.00)
Scott County Scott City	23	1913CST			0	0			Hail (1.75)
Hamilton County 20 S Coolidge	23	1916MST 1917MST	0.5	20	0	0			Tornado (F0)
Hamilton County 20 S Coolidge	23	1916MST			0	0			Thunderstorm Wind (G61)
Hamilton County 21 SSE Coolidge	23	1920MST 1921MST	0.5	20	0	0			Tornado (F0)
Kiowa County 2 W Mullinville	23	1930CST			0	0			Hail (2.00)
Hamilton County 2 W Kendall	23	1935MST			0	0			Hail (0.75)
Ford County 1 E Bucklin	23	1941CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Ford County									
1 E Bucklin	23	1941CST			0	0			Thunderstorm Wind (G61)
Ford County									
2 N Bucklin	23	1946CST			0	0			Hail (1.75)
									windows broken and crops shredded...damage amounts unknown
Scott County									
9 WSW Scott City	23	1950CST			0	0			Hail (1.00)
Ford County									
3 S Bucklin	23	1951CST			0	0			Hail (1.75)
Finney County									
7 NE Garden City	23	1958CST			0	0			Hail (1.75)
Kiowa County									
6 SE Bucklin	23	2001CST			0	0			Hail (5.00)
Finney County									
5 SE Friend to 6 SE Friend	23	2010CST 2013CST	1	50	0	0	150K		Tornado (F1)
									irrigation systems and crops damaged.
Comanche County									
4 NW Protection	23	2035CST			0	0			Hail (1.75)
Stanton County									
1 W Johnson	23	2037CST			0	0			Thunderstorm Wind (G70)
Stanton County									
Manter	23	2037CST			0	0	40K		Thunderstorm Wind (G70)
									trailer blown over and 55,000 bushel grain bin destroyed
Stanton County									
2 S Johnson	23	2047CST			0	0			Hail (0.75)
Stanton County									
7 N Big Bow	23	2048CST			0	0			Hail (0.75)
Grant County									
11 NW Ulysses	23	2049CST			0	0			Hail (0.75)
Comanche County									
Protection	23	2055CST			0	0	1.5M	1M	Hail (4.00)
									damage to almost every roof in town...windows broken...30 to 50 percent of the crops lost
Stanton County									
2 S Johnson	23	2057CST			0	0			Hail (0.75)
Stanton County									
12 S Johnson	23	2104CST			0	0			Thunderstorm Wind (G61)
Morton County									
Elkhart	23	2119CST			0	0	50K		Thunderstorm Wind (G61)
									tree fell on car...garage blown over...tree limbs down...fences blown down
Morton County									
3 E Richfield	23	2119CST			0	0			Thunderstorm Wind (G70)
Comanche County									
9 SE Protection	23	2120CST			0	0			Hail (1.50)
Morton County									
Elkhart	23	2120CST			0	0			Thunderstorm Wind (G60)
Ford County									
Dodge City	23	2150CST			0	0			Thunderstorm Wind (G52)
Meade County									
Meade	23	2223CST			0	0			Thunderstorm Wind (G57)
Meade County									
8 S Meade	23	2223CST			0	0			Thunderstorm Wind (G57)
Seward County									
Liberal	23	2225CST			0	0			Thunderstorm Wind (G61)
									windows broken and an awning blown off a building
Seward County									
5 W Liberal	23	2230CST			0	0			Thunderstorm Wind (G70)
									4 foot tree and numerous tree limbs down
Meade County									
Meade	23	2230CST			0	0			Thunderstorm Wind (G57)
Clark County									
Ashland	23	2250CST			0	0			Thunderstorm Wind
									2 inch tree limbs blown down...chain link fence blown down
Stevens County									
Moscow	23	2255CST			0	0			Thunderstorm Wind (G61)
									several trees and large tree limbs down

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Meade County 9 SE Meade	25	1620CST			0	0			Hail (0.88)
Meade County 2 N Meade	25	1700CST			0	0			Hail (1.00)
Meade County 3 W Fowler	25	1736CST			0	0			Hail (0.75)
Ellis County 8 WSW Hays	25	1843CST			0	0			Hail (0.75)
Ellis County 2 W Antonino	25	1906CST			0	0			Hail (0.88)
Hodgeman County Hanston	25	2030CST			0	0			Hail (0.75)
Trego County Wakeeney	25	2045CST			0	0			Hail (0.75)
Stafford County 8 SSW Macksville	25	2045CST			0	0			Hail (0.75)
Hodgeman County Hanston	25	2048CST			0	0			Hail (0.75)
Trego County 1 N Wakeeney	25	2108CST			0	0			Hail (0.75)
Stafford County 8 SSE Macksville	25	2114CST			0	0			Hail (0.75)
Ellis County 4 E Antonino	25	2140CST			0	0			Hail (0.75)
Pratt County Pratt	25	2215CST			0	0			Lightning
		corner of building damaged by lightning strike							
Pratt County 5 W Cullison	25	2229CST			0	0			Hail (0.88)
Hodgeman County Jetmore	26	0000CST			0	0			Thunderstorm Wind (G52)
		tree limbs blown down							
Barber County 7 SW Medicine Lodge	26	0039CST			0	0			Hail (0.75)
Barber County 2 W Medicine Lodge	26	0130CST 0500CST			0	0			Flash Flood
		Highway 160 west of Medicine Lodge was flooded. There were numerous reports of debris washed onto the road from adjacent fields.							
Barber County Kiowa	26	0530CST 0725CST			0	0			Flash Flood
		All roads leaving out of Kiowa were flooded.							
Finney County Kalvesta	29	0130CST			0	0			Thunderstorm Wind (G52)
Hodgeman County 19 WSW Jetmore	29	0135CST			0	0			Thunderstorm Wind (G52)
Hodgeman County 10 SSW Jetmore	29	0145CST			0	0			Thunderstorm Wind (G52)
Clark County 8 E Minneola	29	0145CST			0	0			Thunderstorm Wind (G52)
Ford County 3 WNW Dodge City Airport	29	0215CST			0	0			Thunderstorm Wind (G65)
Ford County Dodge City Airport	29	0222CST			0	0			Thunderstorm Wind (G71)
Ford County 12 SSW Dodge City	29	0230CST			0	0	100K		Thunderstorm Wind (G87)
		2 grain bins and 2 bulk bins destroyed...pivot overturned							
Gray County Cimarron	29	0245CST			0	0			Thunderstorm Wind (G52)
Gray County 5 SW Cimarron	29	0250CST			0	0	100K		Thunderstorm Wind (G87)
		pivot sprinkler destroyed...1200 pound hay bales tossed							
Clark County 5 NW Protection	29	0325CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Hamilton County 20 SSE Coolidge	29	1655MST			0	0			Hail (0.75)
Morton County 19 NNW Elkhart	31	1710CST			0	0			Hail (0.88)
Morton County 14 W Richfield	31	1717CST			0	0			Hail (1.75)
Trego County 4 N Voda	31	1855CST			0	0			Hail (0.88)
Ellis County 10 W Hays	31	1908CST			0	0			Thunderstorm Wind (G61)
Ellis County Ellis	31	1915CST			0	0			Hail (1.75)
Ellis County Ellis	31	1915CST			0	0			Thunderstorm Wind (G70)
									trees and tree limbs down...street lights knocked out...windows broken...1 utility pole down
Ellis County 4 NW Antonino	31	1924CST 1925CST	0.5	20	0	0			Tornado (F0)
Ellis County Ellis	31	1924CST			0	0			Hail (1.75)
Ellis County 9 WSW Hays	31	1935CST			0	0			Hail (1.00)
Ellis County Schoenchen	31	1952CST			0	0			Hail (1.00)
Ellis County 11 SW Hays	31	1955CST			0	0			Hail (0.88)
Rush County 5 NE Mc Cracken	31	2009CST			0	0			Hail (1.75)
Rush County 10 WNW La Crosse	31	2015CST			0	0			Hail (1.75)
Lane County Shields	31	2023CST			0	0			Thunderstorm Wind (G61)
Lane County Shields	31	2030CST			0	0			Hail (1.00)
Rush County 9 SSE Nekoma	31	2057CST			0	0			Hail (0.75)
Lane County 4 N Dighton	31	2100CST			0	0			Hail (0.88)
Pawnee County 1 N Sanford	31	2130CST			0	0			Hail (0.75)
Pawnee County 9 NNE Rozel	31	2135CST			0	0			Hail (1.25)
Pawnee County Sanford	31	2140CST			0	0			Hail (0.75)
Pawnee County 6 NNE Rozel	31	2145CST			0	0			Hail (0.75)
Pawnee County Garfield	31	2150CST			0	0			Hail (0.75)
Lane County Shields	31	2358CST			0	0			Thunderstorm Wind (G52)
<u>KENTUCKY, Central</u>									
Shelby County Finchville	01	1515EST			0	0	10K		Thunderstorm Wind (G52)
									5 barns were blown down, and numerous trees and power lines were also down. Report from DES.
Estill County Irvine	01	1535EST			0	0			Thunderstorm Wind (G50)
									Trees and power lines down. One tree landed on a mobile home.
Wayne County Murl	02	1506EST			0	0			Thunderstorm Wind (G50)
									Several trees blown down.
Shelby County Mt Eden	02	1715EST 1725EST			0	0			Thunderstorm Wind (G50)
									DES reports trees down.
Anderson County Lawrenceburg	02	1745EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Central									
			Fire department reports large trees down.						
Anderson County Alton	02	1845EST			0	0			Hail (1.75)
			Hail covering the ground to 1 inch.						
Jefferson County Middletown	02	1915EST			0	0			Thunderstorm Wind (G50)
			Trees and power lines down. Report from DES.						
Meade County Garrett	02	1915EST			0	0			Thunderstorm Wind (G50)
			DES reports a few trees and numerous power lines down.						
Meade County Flaherty	02	1915EST			0	0			Thunderstorm Wind (G50)
			DES reports a few trees and numerous power lines down.						
Jefferson County Fern Creek	02	1920EST			0	0			Thunderstorm Wind (G50)
			DES reported trees down at Hikes Point and Fern Creek.						
Henry County Pendleton	02	1924EST			0	0			Hail (2.75)
			State police reported baseball size hail.						
Hardin County Elizabeth Town	02	1925EST			0	0			Hail (1.75)
			Golfball size hail shattered a police car's windshield.						
Anderson County Lawrenceburg	02	2000EST			0	0			Thunderstorm Wind (G50)
			DES reports trees down.						
Ohio County 2 N Beda	02	2008EST			0	0			Thunderstorm Wind (G50)
			Large trees down along Hwy. 1414. Report from DES.						
Scott County 1 N Oxford	02	2015EST			0	0			Thunderstorm Wind (G50)
			Large trees down along Hwy. 62.						
Woodford County Versailles	02	2020EST			0	0			Thunderstorm Wind (G50)
			Large trees down.						
Hardin County Elizabeth Town	02	2030EST			0	0			Thunderstorm Wind (G50)
			Radio tower blown over near Hwy. 62 and 65.						
Grayson County Leitchfield	02	2040EST			0	0			Thunderstorm Wind (G50)
			60 mph winds reported.						
Jessamine County Countywide	02	2040EST			0	0			Thunderstorm Wind (G50)
			Large trees down along Hwys 29, 68 and 27.						
Garrard County Lancaster	02	2100EST			0	0			Thunderstorm Wind (G50)
			Trees down.						
Russell County Russell Spgs	02	2130EST			0	0			Thunderstorm Wind (G52)
			Several trees and power lines down.						
Estill County Thomas	02	2135EST			0	0			Thunderstorm Wind (G50)
			Large trees down in Thomas area near Lee county line.						
Oldham County La Grange	07	2000EST			0	0			Thunderstorm Wind (G52)
			DES reported 60 mph winds.						
Oldham County Pewee Vly	07	2000EST 2130EST			0	0			Flash Flood
			Spotter reported a car was stranded in water over a roadway. The man was rescued. Also, high water from swollen creeks was approaching homes.						
Oldham County Pewee Vly	07	2005EST			0	0			Thunderstorm Wind (G50)
			Several trees down.						
Jefferson County Louisville	07	2010EST			0	0			Thunderstorm Wind (G50)
			Power lines down along Taylor Blvd., 7th street and Berry street.						

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
KENTUCKY, Central									
Jefferson County Middletown	07	2030EST			0	0	10K		Lightning
	Lightning hit a condominium complex and damaged three units.								
Bullitt County Hillview	07	2045EST			0	0	5K		Thunderstorm Wind (G60)
	Trees and power lines down as well as a frame from a new building.								
Spencer County Taylorsville	07	2100EST			0	0			Thunderstorm Wind (G50)
	Local law enforcement reports trees down along Hwy.55.								
Mercer County Harrodsburg	14	1640EST			0	0			Thunderstorm Wind (G50)
	Local law enforcement report trees down in Harrodsburg and across other parts of the county.								
Rowan County Morehead	19	1030EST 1130EST			0	0			Urban/Sml Stream Fld
	Minor street flooding occurred in Morehead and in other parts of the county.								
Bath County Owingsville	19	1030EST 1130EST			0	0			Urban/Sml Stream Fld
	Minor street flooding occurred in Owingsville and across other parts of the county.								
Mercer County Southern Part	19	1700EST 2300EST			0	0			Flash Flood
	Several roads were closed due to high waters as as much as 5.5 inches of rain fell over a 5 hour period.								
Garrard County Western Half	19	1910EST 2300EST			0	0	1.1M	1.2M	Flash Flood
	7 to 9 inches of rain fell over about a 6 hour period across mainly the western half of the county through the late afternoon and evening. 8.5% of the total tobacco crop or 300 acres was destroyed. Also, many cars were swept away, and many homes were severely damaged. County officials estimated 1.07 million dollars of property damage, 420 thousand dollars of road damage and 1.2 million dollars of crop damage. The county judge executive declared a disaster emergency for Garrard county.								
Lincoln County Countywide	19 20	1910EST 0000EST			0	0	500K	500K	Flash Flood
	Up to 9 inches of rain from the late afternoon through the evening over about a 6 hour period. The flood waters displaced an estimated 40 families, washed out roads and inflicted more than 1 million dollars worth of damage across the county. St. Asaph Creek, which runs through Stanford, overran its banks and inundated many homes and businesses in town with water. Many homes and businesses on main street were filled with at least 5 feet of water. Seven bridges were washed out across the county. Also, several mobile homes were washed from their foundations. The county judge executive declared a disaster emergency for Lincoln county.								
Boyle County Countywide	19 20	1910EST 0000EST			0	0	500K	400K	Flash Flood
	Several roads were washed out, a roof collapsed from a bank and several homes were flooded across the county as up to 7 inches of rain fell from the late afternoon into the evening over about a 5 hour period. Also, 2 people were rescued from high waters, several cars were swept away and 2 people were rescued from a truck by emergency personel. The county judge declared a disaster emergency for Boyle county.								
Pulaski County Northeastern Part	19	2005EST 2300EST			0	0			Flash Flood
	6.5 inches of rain caused about 400 thousand dollars worth of road damage across mainly the northeastern part of the county as heavy rain fell over about a 3 hour period in the evening.								
Rockcastle County Countywide	19	2030EST 2300EST			0	0			Flash Flood
	Several roads under water across the county as heavy rain fell over about a 3 hour period during the evening.								
Taylor County Countywide	19 20	2115EST 0000EST			0	0	200K	500K	Flash Flood
	Around 6 inches of rain fell over about a 6 hour period from late afternoon into the evening. Flash flooding damaged around 500 thousand dollars in crop damage across the county. A church was lifted off its foundation and carried 3/4 of a mile into a field. One man was trapped in his home as it was filled with 7 feet of water. He was subsequently rescued. Several homes received major damage.								
Casey County Northern Part	19 20	2115EST 0000EST			0	0	20K	3M	Flash Flood
	More than 6 inches of rain across parts of northern of the county in about a 5 hour period resulting in around 3 million dollars of crop damage. An estimated 17% of the tobacco crop was lost. Several roads were washed out, and many homes and businesses								

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Central</u>									
									were flooded.
Marion County									
Countywide	19	2115EST			0	0			Flash Flood
	20	0000EST							
									Up to 6 inches of rain in a 6 hour period caused several roads to be under water.
Hardin County									
Elizabeth Town	21	1500EST			0	0			Thunderstorm Wind (G50)
									Power lines down.
Jefferson County									
Fairdale	21	1545EST			0	0			Thunderstorm Wind (G50)
		1550EST							Police reports trees and power lines down.
Hart County									
Countywide	21	1615EST			0	0			Thunderstorm Wind (G50)
									Several trees down across the county.
Barren County									
Northeast Part	21	1615EST			0	0			Thunderstorm Wind (G50)
									Trees down across the northeastern part of the county.
Spencer County									
Elk Creek	21	1630EST			0	0			Thunderstorm Wind (G50)
									Trees down in Elk Creek.
Adair County									
Columbia	21	1700EST			0	0			Thunderstorm Wind (G50)
									Several trees down.
Laurel County									
Lily	21	1810EST			0	0			Hail (0.75)
									Dime size hail reported.
<u>KENTUCKY, Eastern</u>									
Jackson County									
Sandgap	02	2130EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Lee County									
8 NW Beattyville	02	2152EST			0	0	0	0	Thunderstorm Wind
									Large trees were downed.
Breathitt County									
Lost Creek	02	2212EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Lee County									
Old Lndg	02	2250EST			0	0	0	0	Thunderstorm Wind
									Trees were downed.
Leslie County									
Cutshin	07	1600EST			0	0	0	0	Hail (1.75)
Clay County									
Burning Spgs	17	1735EST			0	0	0	0	Hail (0.75)
Breathitt County									
Dalesburg	17	1830EST			0	0	0	0	Hail (0.75)
<u>KENTUCKY, Northeast</u>									
Carter County									
Hitchins to Willard	19	2000EST			0	0	150K		Flash Flood
		2300EST							Three mobile homes were moderately damaged along Lost Creek. Three vehicles also received flood damage.
Lawrence County									
Webbville to Cherokee	19	2015EST			0	0	400K	100K	Flash Flood
		2300EST							Creeks in the Webbville, Needmore, Cherokee region flooded. Some of the creeks left high water marks 8 to 12 feet above their banks. Local residents said it was the worst flash flood there since the early 1950s. Caney Creek, Dry Fork, and Brushy Branch damaged 5 single family homes. About 15 families were evacuated. Cherokee Creek knocked a small wooded church off its foundation. Tobacco crops were damaged. Small bridges across the creeks were damaged or

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>KENTUCKY, Northeast</u>									
									destroyed.
Carter County Northern Portion	31	0145EST 0500EST			0	0	300K		Flash Flood
Greenup County Countywide	31	0200EST 0600EST			0	0	2.5M		Flash Flood
Boyd County Countywide	31	0215EST 0630EST			0	0	3M		Flash Flood
			<p>Rainfall of 2 to 4 inches fell in less than 6 hours during the late night and predawn hours across northern Carter, Greenup, and Boyd Counties. Greenup Lock and Dam measured 3 inches, while Ashland had 3.9 inches. An unofficial report of 6 inches was received from Argillite. The worst flooding was in the populated area from Westwood of Boyd County on west, to the Bellefonte, Russell, Flatwoods region of Greenup County. Hood, Little Hood, and Culp Creeks were some of the streams involved. In Boyd County, 19 single family homes had major damage, while 13 homes were destroyed. Three mobile homes were destroyed. In Greenup County, 21 businesses were damaged, 3 homes destroyed, and 3 homes with major damage. Contents of a least 2 churches were damaged. Some people had to be evacuated by boat, as water surrounded their homes. One family awoke to the sound of one of their vehicles bumping up against their mobile home. A few feet of water had already surrounded their home. Luckily, no one was killed or injured. The Small Business Administration did provide some federal relief money.</p>						
<u>KENTUCKY, Northern</u>									
Boone County Union	01	0000EST 0200EST			0	0	1M		Flash Flood
			<p>Persistent heavy rainfall that began on the evening of June 30th, continued causing Gunpowder, Fowlers, and Longbranch creeks to rise rapidly out of their banks. Numerous roads were under water and some people were rescued from the tops of cars that became submerged in the water. Over 30 homes were damaged.</p>						
Kenton County Independence	01	0000EST 0200EST			0	0	1M		Flash Flood
			<p>Persistent heavy rainfall that began in the evening of June 30th, continued causing flooding of roads and evacuation of homes. Several bridges were destroyed by high water. Around 30 homes were damaged.</p>						
Owen County Gratz	02	1930EST 1935EST			0	0			Hail (1.00)
<u>KENTUCKY, Southwest</u>									
Daviess County West Louisville to 2 E (Owb)Owensboro Arpt	02	1843CST 1848CST			0	0	20K		Thunderstorm Wind
			<p>A microburst near West Louisville blew down one or two tobacco barns and carpports. Trees were snapped off, including one that landed on a house. Fence posts that were set in concrete were ripped up. Bleachers and a scoreboard at a school were damaged. A damage survey conducted by the NWS determined a microburst about 1/4 mile wide and 1/2 mile long caused the damage.</p>						
Union County 2 W Morganfield	02	1858CST			0	0			Thunderstorm Wind (G52)
			<p>A couple large trees were down.</p>						
Webster County 3 S Dixon	02	1925CST			0	0			Thunderstorm Wind (G52)
			<p>Scattered trees were blown down, and a medium size pickup truck was blown off the road.</p>						
Mclean County Calhoun	02	1930CST			0	0	10K		Thunderstorm Wind
			<p>Several trees were down, including one that fell on a trailer. The roof was blown off a service station pump shelter.</p>						
Fulton County Hickman to Fulton	07	1700CST 1758CST			0	0			Urban/Sml Stream Fld
			<p>A thunderstorm produced very heavy rain, possibly around 2 inches per hour. Two state roads were closed due to flooding near Cayce and Hickman. Major street flooding occurred in Fulton.</p>						

Storm Data and Unusual Weather Phenomena

July 1996

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					Killed	Injured	Property	Crops	
<u>KENTUCKY, Southwest</u>									
Fulton County Cayce to Fulton	07	1740CST 1758CST			0	0	5K		Thunderstorm Wind
									A large tree was blown across a roadway. The roof of a toolshed was blown into a pond.
Ballard County 3 NW Wickliffe	08	1025CST			0	0			Thunderstorm Wind (G50)
									Scattered trees were down along the Ohio River.
Trigg County Canton to Linton	21	1455CST			0	0			Thunderstorm Wind (G52)
									Numerous trees were blown down in Canton and Linton.
Ballard County 1 S Bandana	21	1626CST			0	0	25K		Thunderstorm Wind
									Two barns and a house were damaged. A car inside one of the barns was also damaged.
Mccracken County 2 SW Paducah to Paducah	21	1640CST			0	0	2K		Thunderstorm Wind (G52)
									A wind gust to 60 MPH was reported along Interstate 24 near Paducah. Blocks were blown from the top part of the wall of an apartment building in Paducah. Some cars below were damaged by the falling blocks.
Marshall County Calvert City	21	1717CST			0	0			Thunderstorm Wind (G50)
									Several large tree limbs were down.
Hickman County Columbus	29	0735CST			0	0			Thunderstorm Wind (G52)
									A couple trees were down.
Graves County Mayfield	29	0830CST			0	0	5K		Thunderstorm Wind
									Several downed trees and limbs blocked city streets and interrupted power.
Todd County Fairview to Elkton	29	0930CST 1100CST			0	0			Urban/Sml Stream Fld
									1.63 inches of rain fell in an hour at Elkton. Water was over several roads around Fairview. Creeks were swollen.
Daviess County Owensboro	29	1200CST 1500CST			0	0			Urban/Sml Stream Fld
									Thunderstorms dumped 2.23 inches of rain on Owensboro during the afternoon. Water remained pooled at some intersections late into the evening. At least one motorist was stranded in water.
Ballard County La Center to Kevil	30	1600CST 1730CST			0	0	20K		Flash Flood
									A slow-moving thunderstorm dumped up to 2.5 inches of rain per hour along U.S. 60 from La Center to Kevil. Creek floodwaters were 2 feet deep in a machine shop in La Center, and a house was evacuated. A furniture store and tanning salon in Kevil were flooded. Two secondary roads were closed due to flooding.
Mccracken County Ragland to West Paducah	30	1620CST 1745CST			0	0			Flash Flood
									Around 2.5 inches of rain per hour fell in parts of northwest McCracken County as a thunderstorm passed. Two secondary roads were closed due to flooding, and two others were barely passable.
<u>LOUISIANA, Northeast</u>									
Madison Parish Tallulah	08	1615CST			0	0	2K		Thunderstorm Wind
									Numerous large limbs and several trees were blown down.
Richland Parish 4 NE Holly Ridge	08	1730CST			0	0	10K		Thunderstorm Wind
									Several roofs were blown off of houses. Two sheds were destroyed. Numerous trees were blown down.
Madison Parish Tallulah	09	1500CST			0	0	2K		Thunderstorm Wind
									Numerous large limbs and several trees were blown down.
Richland Parish Delhi	09	1630CST 1645CST			0	0			Flash Flood
									Numerous streets and small streams were flooded.
<u>LOUISIANA, Northwest</u>									
LAZ001	Caddo								
	01	1400CST			1	0			Excessive Heat
									Excessive heat contributed to the death of a 92 year old woman in her home. F92PH

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
LOUISIANA, Northwest									
Bossier Parish 3 N Plain Dealing to Plain Dealing	08	2012CST			0	0			Thunderstorm Wind (G65)
			Several trees were blown down across power lines causing power outages.						
Webster Parish 1 S Leton to Leton	08	2040CST			0	0			Thunderstorm Wind (G65)
			Trees blown down along Hwy 159.						
Webster Parish Springhill	08	2043CST			0	0			Thunderstorm Wind (G60)
			Trees blown down across power lines causing numerous power outages inside the city.						
Webster Parish Minden	08	2045CST			0	0			Thunderstorm Wind (G60)
			Trees blown down across power lines causing power outages in the city.						
Claiborne Parish Haynesville	08	2110CST			0	0			Thunderstorm Wind (G60)
			Trees down across the city.						
Claiborne Parish 2 SW Homer to Homer	08	2120CST			0	0			Thunderstorm Wind (G60)
			Trees down across the city.						
Bossier Parish 2 S Koran to Koran	16	1645CST			0	0	50K		Thunderstorm Wind (G60)
Caddo Parish Shreveport	16	1700CST			0	0			Lightning
			Lightning hit a tree next to a Telemessaging Service destroying an automated answering system.						
Caddo Parish Shreveport	16	1705CST			0	0			Thunderstorm Wind (G60)
Caddo Parish 3 S Dixie to Dixie	23	1602CST			0	0			Thunderstorm Wind (G60)
			Power lines were blown down across US Hwy 71, 2 miles south of Hwy 73.						
Caddo Parish Hosston	23	1605CST			0	0			Thunderstorm Wind (G65)
			Trees down across Hwy 71.						
Caddo Parish North Shreveport	23	1610CST			0	0	15K		Thunderstorm Wind (G65)
			Numerous trees were blown down including one that fell into a house near Cross Lake in North Shreveport.						
Caldwell Parish 2 E Grayson to Grayson	23	1630CST			0	0			Thunderstorm Wind (G60)
Bossier Parish Benton	23	1635CST			0	0			Thunderstorm Wind (G60)
Bossier Parish 2 NE Plain Dealing to Plain Dealing	23	1640CST			0	0			Thunderstorm Wind (G65)
Bossier Parish 2 S Haughton to Haughton	23	1642CST			0	0			Thunderstorm Wind (G60)
Webster Parish Springhill	23	1710CST			0	0	2K		Thunderstorm Wind (G60)
			Warehouse sustained wind damage.						
Caddo Parish Shreveport	23	1720CST			0	0	25K		Thunderstorm Wind (G60)
			Tree fell across a home. Numerous power lines blown down.						
Webster Parish Couchwood	23	1725CST			0	0			Thunderstorm Wind (G60)
Winn Parish 4 E Dodson to Dodson	23	1748CST			0	0			Thunderstorm Wind (G60)
			Several trees blown down at the intersection of Hwy 34 and Hwy 126.						
Natchitoches Parish Flora	23	1821CST			0	0			Thunderstorm Wind (G60)
			Numerous power outages from downed power lines.						
Sabine Parish Converse	23	1825CST			0	0			Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>LOUISIANA, Northwest</u>									
Bienville Parish Gibsland	23	1855CST			0	0			Thunderstorm Wind (G65)
Bienville Parish Arcadia	23	1855CST			0	0			Thunderstorm Wind (G65)
			Numerous power outages in the city.						
Bienville Parish Taylor	23	1855CST			0	0			Thunderstorm Wind (G60)
Natchitoches Parish Allen	23	1856CST			0	0			Thunderstorm Wind (G60)
Sabine Parish Ft Jessup	23	1900CST			0	0			Thunderstorm Wind (G60)
Natchitoches Parish Campiti	23	1905CST			0	0			Thunderstorm Wind (G60)
Natchitoches Parish Natchitoches	23	1910CST			0	0			Thunderstorm Wind (G60)
			Numerous power outages inside the city caused by downed power lines.						
Caddo Parish Vivian	24	1730CST			0	0	7K		Lightning
			Lightning struck an animal hospital which resulted in a fire killing two cats and a dog.						
Caddo Parish Shreveport	24	1734CST			0	0	10K		Thunderstorm Wind (G60)
			Tree fell across an automobile.						
Bossier Parish Bossier City	24	1825CST			0	0			Hail (1.00)
Caddo Parish Mira	24	1825CST			0	0			Thunderstorm Wind (G60)
Bossier Parish Bossier City	24	1828CST			0	0			Thunderstorm Wind (G60)
			Downed power lines.						
Bossier Parish Bossier City	24	1828CST			0	0			Lightning
			Lightning caused a tree fire.						
Caddo Parish Dixie	24	1850CST			0	0			Thunderstorm Wind (G60)
<u>LOUISIANA, Southeast</u>									
Livingston Parish Watson	10	1700CST			0	0	0.10K	0	Thunderstorm Wind
			Thunderstorm wind gust knocked a tree down which fell onto a house.						
Iberville Parish Grosse Tete	13	1330CST			0	0	0.30K	0	Thunderstorm Wind
			A National Weather Service cooperative weather observer reported thunderstorm wind gusts blew down several trees, and a plate glass window was blown out.						
Washington Parish 2 NW Angie to Angie	23	1453CST			0	0	0.10K	0	Thunderstorm Wind
			Several trees were blown down along Louisiana Highway 438 by thunderstorm wind gusts.						
Terrebonne Parish Houma	25	1400CST			0	0	0.10K	0	Thunderstorm Wind
			Thunderstorm wind gusts blew down a substantial number of large tree limbs.						
Orleans Parish 1.5 S (New)Lkfrnt Arpt New	28	1200CST			0	0	0	0	Hail (0.75)
			A National Weather Service employee reported dime size hail.						
<u>LOUISIANA, Southwest</u>									
St. Mary Parish Morgan City	09	1400CST 1430CST			0	0	10K		Urban/Sml Stream Fld
			Several roads were flooded due to pumping stations not able to keep up with the rain. Over four inches of rain fell in less than one hour. Several businesses on Railroad and Front Street had less than two inches of water in them.						
Acadia Parish Duson	20	1400CST			0	1			Lightning
			A man was struck by lightning for the second time in his life, when a lightning bolt struck a utility pole and a side charge travelled 40 yards through the air to the man. He was treated and released from the hospital.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
LOUISIANA, Southwest									
Beauregard Parish Merryville	24	1440CST			0	0	5K		Thunderstorm Wind
									Several trees were blown down across Bryan Street.
MAINE									
Somerset County Anson	03 04	2100EST 0200EST			0	0	200K		Flash Flood
									Five inches of rain washed out a bridge in Anson.
Franklin County Farmington	04	1100EST 2000EST			0	0	5K		Heavy Rain
									Heavy rains (more than 3 inches) dislodged and uncompleted roof repair project and sent torrents of water cascading through a high school building, causing thousands of dollars in damages.
MEZ014 Southern Somerset	05 06	0700EST 1700EST			0	0			Flood
									Up to 5 inches of rain fell in Androscoggin, Franklin, and Somerset Counties causing the Kennebec River to rise above flood stage. The event resulted after a series of thunderstorms passed through the same areas.
York County Shapleigh	08	1325EST			0	0			Hail (1.75)
									Thunderstorms moving eastward from southern New Hampshire produced large hail in parts of York County.
York County Waterboro	08	1335EST			0	0			Hail (1.75)
									Thunderstorms moving eastward from southern New Hampshire brought large hail to parts of York County.
Oxford County East Sumner to Hartford	08	1340EST 1345EST			0	0			Hail (1.00)
									Thunderstorms moving eastward from New Hampshire produced large hail in parts of Oxford County.
York County Saco	08	1350EST			0	0			Hail (0.75)
									Thunderstorms moving eastward from southern New Hampshire produced large hail in parts of York County.
York County Old Orchard Beach	08	1355EST			0	0			Hail (1.50)
									Thunderstorms moving eastward from southern New Hampshire produced large hail in parts of York County.
Androscoggin County Livermore Falls	08	1405EST			0	0			Hail (1.00)
									A severe thunderstorm moving through northern Androscoggin County produced large hail in the Livermore Falls area.
Androscoggin County Livermore Falls	08	1405EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm moving through northern Androscoggin County blew over trees in the Livermore Falls area.
Kennebec County Wintrop	08	1445EST			0	0			Hail (0.75)
									A severe thunderstorm moving through the Wintrop area of Kennebec County produced large hail.
Kennebec County Augusta	08	1500EST			0	0			Thunderstorm Wind (G53)
									A severe thunderstorm moving through Augusta produced wind gusts estimated to be more than 60 mph.
Lincoln County Somerville	08	1530EST			0	0			Hail (0.75)
									A severe thunderstorm produced damaging hail in a corridor from Augusta in Kennebec County to Hope in Knox County. Dime-sized hail was reported in the Somerville area.
Knox County Washington to Hope	08	1535EST 1555EST			0	0	130K		Hail (0.75)
									A severe thunderstorm produced damaging hail in a corridor from Augusta in Kennebec County to Washington, Appleton, and Hope in Knox County. The hail damaged apple and blueberry crops in the area.
Kennebec County 5 NE Monmouth to West Gardiner	08	1700EST 1703EST	1.5	200	0	0	15K		Tornado (F2)
									Strong thunderstorms produced an F-2 tornado with winds estimated to be 130 mph that touched down near the west shore of Cobbosseecontee Lake. The tornado cut a path about 200 yards wide and about 1.5 miles long as it moved across the lake, hitting

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MAINE									
									<p>a point of land and a small island. Numerous tall pines 2 feet in diameter were snapped off by the tornado with damage to a vehicle, a cabin, and a summer home from falling trees. The tornado also overturned a boat and flipped a floating dock out of the water.</p>
Kennebec County Belgrade	08	1700EST			0	0	20K		Lightning
									Lightning struck a shelter covering wood shavings at a local lumber business in Belgrade causing a fire that did an estimated \$20,000 in damages to the structure.
Kennebec County Augusta	08	1715EST			0	0			Hail (1.00)
									A severe thunderstorm moving through Kennebec County (that had produced a tornado over Cobbosseecontee Lake) produced 1 inch hail in the Augusta area.
Knox County Rockland	09	0731EST			0	0	5K		Lightning
									Lightning struck a home in Rockland causing an estimated \$5000. in damages.
Oxford County Otisfield	09	1910EST			0	0	25K		Lightning
									Lightning struck a home in Otisfield causing it to catch fire. The home suffered extensive fire and water damage.
Cumberland County Scarborough	09	1945EST			0	0	60K		Lightning
									A lightning strike at or near the Scarborough Pulic Safety Building caused at least \$60,000. in damages to communications equipment.
Androscoggin County Minot	09	2000EST			0	0	5K		Lightning
									Lightning struck the steeple of a church causing damage estimated in excess of \$5000.
Somerset County Anson	13	1500EST 2100EST			0	0	330K		Flash Flood
									The remnants of Hurricane Bertha damaged two bridges in Anson.
Knox County Camden	13	1500EST 2200EST			0	2	5K		Flash Flood
									The remnants of Hurricane Bertha caused many roads to wash out in the Camden area. Two people were injured when the car they were riding in hit a 600 lb. boulder that had fallen onto the roadway because of the heavy rains.
Piscataquis County Abbot Vlg	13	1500EST 2200EST			0	0			Flash Flood
									The remnants of Hurricane Bertha caused streams to flood several roads in Abbot area.
Hancock County Castine	13	1600EST 2200EST			0	0			Flash Flood
									The remnants of Hurricane Bertha caused streams to flood roadways in the Castine area.
MEZ014-021 Southern Somerset - Kennebec	14 16	0400EST 1700EST			0	0			Flood
									Heavy rainfall from the remnants of Hurricane Bertha caused minor flooding along the Kennebec River.
Oxford County Fryeburg	14	2200EST			0	0	3K		Lightning
									Lightning struck the town office in Fryeburg causing \$3000. in damages to town office equipment.
Somerset County Rockwood	16	1500EST			0	0			Thunderstorm Wind
									A severe thunderstorm blew over about a dozen trees in the town of Rockwood.
Oxford County Peru	16	1652EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Peru area.
Oxford County Bryant Pond	16	1655EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Bryant Pond area.
Oxford County Woodstock	16	1657EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Woodstock area.
Oxford County Canton	16	1700EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Canton area.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MAINE									
Androscoggin County Livermore Falls	16	1705EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Livermore Falls area.
Penobscot County Corinna	16	1710EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Corinna area.
Somerset County Hartland	16	1715EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Hartland area.
Somerset County St Albans	16	1715EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the St. Albans area.
Somerset County Palmyra	16	1715EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Palmyra area.
Penobscot County Newport	16	1715EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Newport area.
Penobscot County Stetson	16	1715EST			0	0			Thunderstorm Wind
									Wind from a severe thunderstorm knocked over trees in the Stetson area.
Penobscot County East Corinth	16	1715EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the East Corinth area.
Kennebec County Fayette	16	1715EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm knocked over trees in the Fayette area.
York County Parsonsfield	16	1730EST			0	0			Thunderstorm Wind
									A severe thunderstorm blew over trees in the Parsonsfield area.
York County Limerick	16	1730EST			0	0			Thunderstorm Wind
									A severe thunderstorm blew over trees in the Limerick area.
York County Newfield	16	1730EST			0	0			Thunderstorm Wind
									A severe thunderstorm knocked over trees in the Newfield area.
Penobscot County Greenbush	16	1730EST			0	0			Thunderstorm Wind
									Winds from a severe thunderstorm blew over trees in the Greenbush area.
Franklin County Jay	16	1800EST			0	0	5K		Lightning
									Lightning struck a barn in Jay, causing the barn to catch fire and burn to the ground.
Waldo County Belfast	19	1130EST			0	0	50K		Lightning
									Lightning struck a log home in Belfast causing a fire that burned the structure to the ground.
MEZ019-022-027>028			Interior Cumberland - Interior Waldo - Knox - Coastal Waldo						
	19	2100EST			0	0			High Wind
	20	1400EST							
									High winds behind a strong cold front knocked down numerous trees causing about 15,000 customers to lose electricity.
Aroostook County (Hul)Houlton Intl Ar	27	1419EST			0	0			Hail (0.75)
									A severe thunderstorm moving through southern Aroostook County produced 3/4 inch hail in Houlton.
Penobscot County Clifton	27	1430EST			0	0	15K		Lightning
									Lightning struck a two-story two-car garage causing a fire which destroyed the structure and a pickup truck that was inside.
Washington County Jonesboro	27	1545EST			0	0			Hail (0.75)
									A severe thunderstorm moving through Washington County produced dime-sized hail in Jonesboro.
Washington County Milbridge	27	1555EST			0	0			Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MAINE									
Winds from a severe thunderstorm moving through Washington County blew down trees in the Milbridge area.									
MARYLAND, Central									
Frederick County Walkersville	01	1630EST 1715EST			0	0			Flash Flood
High standing water briefly closed state route 26, and flooded a portion of the Walkersville carnival grounds, when stationary thunderstorms dumped between 2 and 2.7 inches of rain in northern Frederick Co. Two other local roads were temporarily close due to high water.									
Washington County Funkstown	02	1738EST			0	0	20K		Thunderstorm Wind
Washington Co emergency operation officials reported a 2-foot diameter tree was blown onto a house. Several other trees/large limbs were also blown down.									
Baltimore County Baltimore Metro	02	1930EST 2000EST			0	0	10K		Lightning
Approximately 9,000 customers were without power in the immediate Baltimore metropolitan area after strong thunderstorms swept through.									
Charles County Cobb Island	03	1401EST			0	0	1K		Hail (1.75)
Golfball-sized hail was reported by NWS Skywarn spotters.									
St. Mary'S County Leonardtown	03	1409EST 1411EST			0	0	2K		Hail (1.75)
Golfball-sized hail covered the ground.									
Howard County Columbia	08	1805EST			0	0	75K		Lightning
Lightning struck an apartment complex in the Oakland Mills subdivision, destroying two units and causing water damage at ten others. Twenty residents were displaced by the combination of fire and water damage.									
Baltimore City (C) Baltimore City	08	1805EST 1815EST			0	0	30K		Lightning
Several trees were struck by lightning, and a home on Allendale Road which was also struck had its ceiling collapse. Numerous traffic lights were temporarily knocked out as a result of the storm. Baltimore Gas and Electric reported 23,000 customers without power in the metropolitan area.									
Baltimore County N Portion	08	1900EST 2030EST			0	0	10K		Flash Flood
Carroll County Taneytown	08	1900EST 2030EST			0	0	40K		Flash Flood
Frederick County Frederick	08	1900EST 2000EST			0	0	10K		Flash Flood
A slow-moving thunderstorm dumped between 2.5 and 3.5 inches of rain, with up to 5 inches at some locations, across the northern Maryland piedmont. Taneytown (Carroll Co) experienced the most acute flooding from 4 inches of rain. At least 30 basements flooded, and fire fighters needed 18 pumps to bail water out. One resident reported water flowing through his backyard. Four apartments had damaged furnaces; other appliances (washer/dryer) were also damaged. One vehicle was swept away. In addition, state route 194 had high standing water.									
Elsewhere, small creeks were out of their banks around the city of Frederick. Roads flooded in Towson (central Baltimore Co).									
St. Mary'S County California	13	0045EST 0047EST	1.2	100	0	0	100K		Tornado (F1)
Tropical storm Bertha spawned three tornadoes along the western shore of the Chesapeake Bay during the early morning hours of the 13th. The tornadoes were associated with the strongest feeder bands due north or northeast of the center of circulation, which was located in southeast Virginia at the time.									
The first event occurred in subdivisions behind the Sans Souci shopping center in California, where 30 homes sustained minor to									

Storm Data and Unusual Weather Phenomena

July 1996

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

MARYLAND, Central

moderate damage - mainly siding, shutters, and shingles. A few cyclone fences were blown down, with a portion of one residence's fence blown through another home's bedroom window. A roof was partially torn from a home, with some ceiling and deck damage. A shed reportedly was flipped onto an unoccupied automobile. Other cars were slightly damaged by fallen limbs. Approximately 20 trees were snapped, with at least one large tree uprooted.

Charles County 2 SW Hughesville

13	0105EST	0.3	35	0	0	150K	Tornado (F1)
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Tropical storm Bertha spawned three tornadoes along the western shore of the Chesapeake Bay during the early morning hours of the 13th. The tornadoes were associated with the strongest feeder bands due north or northeast of the center of circulation, which was located in southeast Virginia at the time.

The second twister touched down briefly in the Charlotte Hall community of Charles Co, stripping off a large portion of a barn's sheet metal roof. A garage containing auto repair machinery collapsed, and an adjacent home's brick chimney was also toppled. Several trees were felled in the vicinity. The tornado may have spun out of a nearby microburst, which snapped or uprooted over a dozen trees immediately southeast of the tornado track. In all, eight homes sustained minor damage; three others had moderate to major damage.

MDZ018

Calvert

13	0130EST 0300EST			0	0	60K	High Wind
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High winds associated with the remnants of Tropical Storm Bertha caused scattered (but widespread) damage along the western shore of the Chesapeake Bay in Calvert Co. A total of 5 homes sustained damage from fallen trees/large limbs: two in Drum Point, and three more in Chesapeake Beach. Most of the fallen trees were in the eastern half of the county.

The combination of rain, gusty winds, and isolated severe weather left approximately 45,000 Baltimore Gas and Electric customers without electricity on the western shore (including the Baltimore metropolitan area and Anne Arundel Co) during the height of the storm.

St. Mary'S County Patuxent River Nas

13	0203EST			0	0	25K	Thunderstorm Wind
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A microburst, associated with a feeder band from Tropical Storm Bertha, caused substantial damage to the front of a home on Patuxent River NAS. The home was located on the shoreline.

Calvert County 2 NW Dunkirk to 3.2 NW Dunkirk

13	0235EST 0237EST	1.2	50	0	0	120K	Tornado (F1)
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Tropical storm Bertha spawned three tornadoes along the western shore of the Chesapeake Bay during the early morning hours of the 13th. The tornadoes were associated with the strongest feeder bands due north or northeast of the center of circulation, which was located in southeast Virginia at the time.

The third tornado struck extreme northwest Calvert Co, causing the roof and a chimney of a predominantly wood-constructed farm house to collapse. The home was temporarily uninhabitable. At least one wall was near failure. A second chimney collapsed at a nearby home, just missing a resident. Numerous trees were snapped or uprooted along the path, and one home in the Calvert Estates subdivision sustained minor damage to its gutters.

Charles County Bel Alton

15	1430EST	0.3	25	0	0	4K	10K	Tornado (F0)
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Several trees were knocked down, and two cornfields partially damaged, when a pulse-severe thunderstorm struck Bel Alton in south central Charles Co. A 50 x 70 foot cornfield was flattened, with downed stalks in a cyclical pattern. A few shingles were lifted from a home on Mud Road; no other damage was reported.

Charles County 1 NW Benedict to Benedict

15	1458EST 1500EST			0	0	20K	Thunderstorm Wind
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A right-moving pulse severe thunderstorm produced a downburst which knocked down approximately 30 trees along Teagues Point Road to Maxwell Drive just west of Benedict. The damage area varied from 100 to 300 yards wide and lasted approximately 1.25 miles.

Calvert County Prince Frederick

15	1507EST			0	0	2K	Hail (2.00)
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Two reports of large hail were received by local television stations: one report noted 1 inch hail (WUSA-TV 9); another 2-inch diameter hail (WRC-TV 4).

Calvert County Prince Frederick

15	1507EST			0	0	3K	Thunderstorm Wind
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The same storm that dumped 2 inch hail also produced damaging winds which knocked down several power lines.

Washington County South Portion

19	1140EST			0	0	8K	5K	Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

July 1996

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

MARYLAND, Central

An isolated thunderstorm developed in the early afternoon and moved east across southern Washington Co. Thunderstorm winds caused scattered tree damage among Antietam, Sharpsburg, Trego, and Boonsboro. In Keedysville, residents reported a large amount of 3/4 inch diameter hail.

Washington County 1 N Ringgold to 2 E Ringgold

19	1402EST 1406EST	2	75	0	0	15K			Tornado (F0)
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A small tornado, crossing into Maryland from Pennsylvania, knocked down dozens of trees, many of them large, in the vicinity of Ringgold.

Frederick County S Portion

19	1410EST 1420EST			0	0	20K			Lightning
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Lightning struck two homes, causing small fires at each one.

Washington County Yarrowsburg to 2 S Yarrowsburg

19	1412EST 1415EST	2	125	0	0	400K	75K		Tornado (F2)
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A moderate tornado (F2) tracked between two mountain ridges in extreme southern Washington Co, knocking down hundreds of trees, including several onto homes which caused substantial damage. At least one barn was completely destroyed in Yarrowsburg. The storm attained maximum strength just south of town (where the trees, including numerous hardwoods, were flattened). The tornado weakened considerably before dissipating along the eastern ridge.

Structural and vehicle damage, though not as prevalent as the tree damage, included the following: Portions of roofs from two barns were blown off; minor residential damage, including shattered windows, unhinged shingles, and torn off trim/gutters. Some gravestones were overturned by the winds, and several power lines were knocked down. Several vehicles and vehicle windows were damaged.

Frederick County Rosemont to Brunswick

19	1420EST 1424EST	2.2	200	0	0	80K	50K		Tornado (F1)
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The same supercell thunderstorm which produced the F2 tornado in Yarrowsburg (Washington Co) dropped a second tornado in Rosemont. This tornado would track through Brunswick, cross the Potomac River, then continue an additional 4 miles through extreme northern Loudoun Co before dissipating.

The tornado first touched down in Rosemont, damaging numerous trees as it crossed state route 17 and moved into Brunswick. A service station's roof was partially damaged by a fallen tree. Many of the homes in Brunswick were protected by the trees and the steep sloping terrain towards the Potomac. At the bottom of this hill, just east of the Maryland state route 17/Virginia route 287 bridge, is a train station, the C&O Canal, and a campground. The tornado maximized at this location, flattening numerous large hardwood trees. Considering the number of trees that fell in this area it was amazing that none of the campers or C&O Canal visitors were injured or killed. The tornado was witnessed crossing the Potomac into northern Loudoun Co.

The twister tracked over mainly rural property in Loudoun Co, maintaining F1 strength while crossing Quarter Branch Road. Most of the damage was to trees which were snapped, uprooted, or had large branches blown off. Siding, shingles, and some insulation were blown off a home in its path. A resident's automobile window was shattered. The tornado weakened at this point, producing F0 damage (mostly large limbs/small trees) for the next 2 miles before dissipating in Taylorstown.

Frederick County 1 W Rosemont to 1 W Brunswick

19	1420EST 1430EST			0	0	25K	50K		Thunderstorm Wind
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The supercell which was producing weak to moderate tornadoes across southern Washington and Frederick Counties had an associated rear-flank downburst which struck immediately west of the tornado track. Numerous trees were uprooted or snapped over a wide area from just west of Rosemont to the banks of the Potomac River. Wind speeds maximized along the shoreline, likely a result of a channeling effect through the mountain gap just east of Harpers Ferry, WV. Power outages were substantial in these areas; 10,000 customers in Loudoun Co Virginia and Frederick Co Maryland were briefly without electricity.

Montgomery County 2 N Whites Ferry

19	1436EST	0.5	150	0	0	30K			Tornado (F1)
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A short-lived weak tornado briefly touched down approximately 2 miles north of Whites Ferry. Numerous trees were knocked down on a small island (in the Maryland portion) of the Potomac River. More trees were knocked down along the C&O Canal and along Whites Ferry Road. This tornado was associated with the parent thunderstorm that produced earlier damage in southern Washington and Frederick Counties.

Montgomery County Poolesville to Dickerson

19	1440EST 1450EST			0	0	25K	10K		Thunderstorm Wind
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Storm Data and Unusual Weather Phenomena

July 1996

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

MARYLAND, Central

Downburst winds associated with a tornadic thunderstorm knocked down scattered trees and wires across extreme western Montgomery Co, mainly from Poolesville to Dickerson.

Carroll County 3 NW Gamber to 1.5 N Gamber

19	1442EST 1445EST	2.2	350	0	3	5M	20K	Tornado (F3)
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One of the most potent tornadoes in recorded history in the state of Maryland tracked for 2 and 1/4 miles through the Mystic Kane and Four Seasons subdivisions just off state route 32 northwest of Gamber. The tornado was a strong F3 (180 mph estimated winds) with multiple vortices. Homes and trees struck by individual vortices sustained the worst damage. There were several eyewitness accounts of the tornado/funnel cloud shortly before touchdown.

In all, 66 structures sustained damage. Twelve single-family homes were destroyed, five which lost most of the second story and garages. Three persons were injured. Two children were injured when the tornado blew them out of the second level of one of the homes. Their father suffered cuts and bruises when a wall partially collapsed on him while he was trying to rescue the children. Another dozen homes were deemed temporarily uninhabitable with substantial roof and siding damage. An additional 37 homes, a couple of apartments, and another barn received some damage. Many material items were sucked out of the homes, from bicycles to jewelry. Several automobiles were damaged by fallen and/or flying debris. Debris littered the ground for miles. A barn along route 32 was completely destroyed, and pieces of it were found as far away as 3.5 miles to the southeast of the barn's original location.

Dozens of trees were snapped, shredded, debarked, and uprooted. Corn stalks were sucked up leaving six inch stubs as the tornado crossed a field west of route 32. A corn stalk was embedded into the wall of a house 1/2 mile away from the stalk's original location. Numerous airborne missiles (large and small) were generated, puncturing holes into homes and becoming embedded into the ground. A refrigerator was found wrapped around a mailbox. A van was dragged 50 feet, then flipped over two times. Other vehicles were also damaged.

Montgomery County 4 S Dawsonville to 5 S Dawsonville

19	1448EST 1450EST	1	30	0	0		5K	Tornado (F0)
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A weak tornado, captured on videotape along the Potomac River, and assumed to originate in Seneca Creek State Park (Montgomery Co MD) 4 miles south of Dawsonville, crossed the Potomac River into extreme eastern Loudoun Co before dissipating just southeast of the Lowes Island Golf Club. One tree was uprooted, and several others damaged, along the short track.

Baltimore County Tyler

19	1455EST 1456EST	1.2	50	0	0	75K	5K	Tornado (F1)
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The rapidly moving supercell which spawned the earlier F3 tornado in southeastern Carroll Co dropped a short-track twister 3 miles southwest of Reisterstown at the intersection of Deer Park road and Berrymans Lane. Six homes had minor exterior damage. Most of the damage was to trees.

Baltimore City (C) Ne Portion

19	1530EST 1535EST	0.1	25	0	0			Tornado (F0)
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The parent thunderstorm that dropped tornadoes northwest of the Baltimore metropolitan region put down brief twisters in the north and east portions of the city of Baltimore. People watched as a funnel snaked to the ground for no more than 10 seconds over the north central portion of town. A few minutes later, a second funnel touched down over the eastern portion of town. Some debris was seen being sucked up into the funnel, which also lasted 10 seconds, before it retreated into the wall cloud.

Both funnels were captured on film.

Prince George'S County 2 S Suitland

19	1545EST 1555EST			0	0			Flash Flood
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Torrential rains estimated at 2 inches per hour caused the rapid onset of flash flooding along the Capital Beltway near Camp Springs. Two lanes were closed due to high standing water which was up to guardrail height in some spots.

Charles County Charles Co Gardens

19	1610EST			0	0	30K		Thunderstorm Wind
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Continuation of severe thunderstorms through the Washington DC suburbs produced more isolated wind damage in Charles Co, where a large tree caused substantial damage to a home in the Charles County Gardens subdivision.

Washington County Se Portion

30	1615EST			0	0	15K		Flash Flood
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Slow-moving thunderstorms flooded numerous basements in the southeastern portion of the county.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MARYLAND, Central									
Frederick County Middletown to Frederick	30	1630EST			0	0			Flash Flood
A slow-moving thunderstorm, containing tropical downpours, dumped an estimated 2 to 3 inches of rain in an hour, causing localized street flooding in Middletown. Street flooding was reported around the same time in Frederick.									
Frederick County 5 SW Frederick	30	1820EST			0	0			Hail (0.88)
Nickel-sized hail was reported by an NWS Skywarn spotter at the intersection of Mount Zion Road and federal highway 340 just southwest of Frederick.									
Howard County Lisbon	30	2010EST			0	0	10K		Thunderstorm Wind
Merging thunderstorms in western Howard Co produced severe wind gusts which knocked down numerous trees in Lisbon.									
Montgomery County Germantown	30	2045EST 2100EST			0	0			Flash Flood
State route 118 was covered by high standing water in Germantown.									
Howard County Countywide	30	2115EST 2120EST			0	0	15K	2K	Thunderstorm Wind
A severe thunderstorm moved through central and eastern Howard Co about one hour after another storm knocked down trees in Lisbon. This storm damaged trees, and some power lines fell.									
Howard County Elkridge	30	2200EST			0	0	10K		Flash Flood
Torrential rains flooded highway 1 near Elkridge. The flooding was intense enough to wash away portions of the shoulders.									
MARYLAND, Northeast									
MDZ008-012-015-019>020	Cecil - Kent - Queen Annes - Talbot - Caroline								
	12	1200EST			0	0			Heavy Rain/Wind
	13	1100EST							
Tropical Storm Bertha passed through Delaware and Southeast Maryland the morning of the 13th. The strongest winds remained near the shore, but wind gusts did become strong enough during the predawn and morning hours of the 13th to take down tree branches across the Eastern Shore. Storm totals averaged between 3 and 5 inches. But since most of the rain fell during a twelve to eighteen hour period and not a shorter duration, there was some urban and poor drainage flooding, but no major problems. No serious injuries, water rescues or damage was reported. Rainfall at Federalsburg was 4.9 inches.									
MARYLAND, South									
Wicomico County Salisbury	03	1554EST			0	0			Hail (1.75)
Worcester County Berlin	03	1620EST			0	0	3K		Thunderstorm Wind
Several trees downed.									
Worcester County Ocean City	03	1625EST			0	0			Thunderstorm Wind (G50)
Coast Guard Station measured a wind gust of 58 mph.									
Dorchester County Madison	13	0145EST	0.5	50	0	0	40K		Tornado (F0)
Small tornado damaged a home and numerous trees were damaged or destroyed in the area of Indian Trail Acres near Madison.									
MDZ021>025	Dorchester - Wicomico - Somerset - Inland Worcester - Maryland Beaches								
	13	0200EST 0900EST			0	0	100K	15K	Hurricane
Hurricane Bertha moved across the Lower Maryland Eastern Shore on July 13th. Spiral bands around the northern and eastern side of the storm affected the Lower Maryland Eastern Shore during Saturday morning. The highest sustained wind speed recorded was 23 mph at Salisbury, but the Fenwick Island Buoy, which is just offshore along the Delaware-Maryland border, recorded a sustained wind speed of 47 mph. The highest gusts recorded were 63 mph at Ocean City, and 55 mph at the Fenwick Island Buoy. One confirmed tornado was spawned by the hurricane near Madison in Dorchester county. Numerous trees and power lines blown down resulted in scattered property damage and power outages. Rainfall amounts generally ranged from 3.0 to 5.0 inches and caused some street flooding. The lowest sea level pressure recorded was 995 mb at Salisbury.									
MARYLAND, West									
Garrett County 3 S Oakland	19 20	1400EST 0200EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MARYLAND, West									
Roads were flooded south of Oakland and remained closed for several hours.									
Garrett County Oakland	30	1900EST 1930EST			0	0			Flash Flood
Extensive flooding was reported along Route 219 in Oakland.									
MASSACHUSETTS, Central and East									
Essex County Salem	04	1600EST 1605EST			0	0			Hail (0.75)
Dime size hail was reported to be covering the ground at 5:05 PM.									
Franklin County Colrain	08	1508EST			0	0			Hail (0.75)
Franklin County Orange	08	1513EST			0	0			Hail (1.00)
Worcester County Athol	08	1515EST			0	0			Hail (0.75)
Franklin County Orange	08	1525EST			0	0			Thunderstorm Wind (G48)
Worcester County Athol	08	1529EST 1534EST			0	0			Hail (1.00)
Franklin County Northfield	08	1555EST			0	0			Thunderstorm Wind (G50)
Severe thunderstorms produced large hail, up to an inch in diameter, in parts of Franklin and Worcester Counties. Wind damage was reported in Northfield in Franklin County, where there were reports of trees and wires down. The automated weather station at the Orange Airport reported a gust to 48 knots at 4:25 PM.									
Hampshire County Belchertown	08	1710EST			0	0			Thunderstorm Wind (G50)
Worcester County Harvard	08	1710EST			0	0			Hail (1.00)
Middlesex County Ayer	08	1717EST			0	0			Thunderstorm Wind (G50)
Middlesex County Littleton	08	1720EST			0	0			Thunderstorm Wind (G50)
Middlesex County Littleton	08	1720EST			0	2			Lightning
Middlesex County Littleton	08	1730EST			0	0			Funnel Cloud
Hampden County Westfield	08	1811EST			0	0			Hail (0.75)
Hampden County West Springfield	08	1814EST			0	0			Hail (0.75)
A TV meteorologist reported trees blown down in Belchertown. Power lines were reported knocked down in Ayer as per the local fire department. Police in Ayer reported seven utility poles either split or broken off at the top. Several thousand electric customers lost power in the Shirley, Littleton, and Harvard areas. Large hail occurred in Harvard and wind damage to trees and power lines was reported by a storm spotter in Littleton, who also reported two people being treated at a local hospital emergency room after being struck by lightning. Several members of the fire department sighted a funnel cloud. Numerous fire alarm calls and power failures resulted in chaos for a time in town, according to the Littleton fire and police Departments. Dime size hail was reported in Westfield and West Springfield.									
Dukes County Martha's Vineyard	09	0110EST			0	0			Thunderstorm Wind (G50)
Barnstable County Orleans	09	0137EST			0	0			Thunderstorm Wind (G50)
Barnstable County Orleans to Eastham	09	0213EST			0	0			Thunderstorm Wind (G50)
Early morning thunderstorms brought several lightning strikes and damaging winds to Martha's Vineyard and the outer portion of Cape Cod. A weather spotter reported numerous tree limbs blown down on Martha's Vineyard. On outer Cape Cod, numerous tree limbs were blown down in Orleans. Power lines were down across Route 6 in Eastham. Hail was reported in Harwich and power outages occurred in Brewster. A house was hit by lightning in Dennis.									
Franklin County Northfield	09	1730EST			0	0			Thunderstorm Wind (G50)
Trees were reported blown down, as per the local county emergency dispatch.									
Bristol County Northern Half	13	0200EST 1700EST			0	0			Heavy Rain

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MASSACHUSETTS, Central and East									
Essex County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Franklin County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Hampden County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Hampden County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Hampshire County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Middlesex County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Norfolk County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Plymouth County									
Northern Portions	13	0200EST 1700EST			0	0			Heavy Rain
Suffolk County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Worcester County									
Countywide	13	0200EST 1700EST			0	0			Heavy Rain
MAZ013-016>024		Western Norfolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable - Dukes - Nantucket							
	13	1400EST 2000EST			0	0			High Wind (G76)
Worcester County									
Southern Portions	13	1400EST 2300EST			0	0			Flash Flood
Hampshire County									
Huntington	13	1515EST 2100EST			0	0			Flash Flood
Hampden County									
Countywide	13	1515EST 2030EST			0	0			Flash Flood
Dukes County									
Gay Head	13	1523EST			0	0			Waterspout
Franklin County									
Spaulding Brook	13	1540EST 2000EST			0	0			Flash Flood

Tropical Storm Bertha brought a period of heavy rain, high winds, and minor coastal flooding to Massachusetts. The center of the tropical storm moved northeast from near Providence, Rhode Island at 8 PM with a forward speed of about 25 mph, passing north of Boston. It was located 60 miles northeast of Boston by 11 PM. Heavy rainfall totalling 3 to 5 inches occurred along and northwest of the storm track. A maximum storm total of 7.20 inches was reported in Billerica and a minimum total of 0.43 inches was recorded at Chatham on Cape Cod. Some other storm rainfall totals included: Taunton, 4.10 inches; Blue Hill, Milton, 3.54 inches; Worcester, 3.26 inches; and Boston, 3.12 inches. Flooding of small streams occurred in Franklin, Hampshire, Hampden, and southern Worcester Counties. Street washouts were reported in southern Worcester County.

Tropical storm force winds with some gusts to minimal hurricane force occurred along the south coast from Cape Cod and the Islands to Westport (and in Rhode Island). Tropical storm force winds also occurred inland in neighboring counties. There were numerous reports of downed tree limbs and power lines, with power outages in these areas. Power was restored in most localities within 6 hours. Sustained winds of 52 mph with a gust to 88 mph from the SSE was recorded at the New Bedford Hurricane Barrier at 430 PM EDT. Westport Harbor reported a sustained one-minute wind speed of 62 mph with a gust to 74 mph from the SSW at 333 PM EDT. The Blue Hill Observatory in Milton, MA recorded a peak gust of 62 mph at 345 PM EDT.

Tides along the south coast ran 2 to 4 feet above normal. Numerous immediate coastal roads were flooded for a 1 to 3 hour period around the time of high tide. Swells of 12 to 18 feet were reported along the south coast and several marinas experienced flooding, with some minor damage to boats moored outside protected areas.

A waterspout was observed near Gay Head on Martha's Vineyard.

A lowest pressure of 995.6 millibars...or 29.40 inches...was recorded by the National Weather Service in Taunton at 8:41 PM.

Storm Data and Unusual Weather Phenomena

July 1996

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

Tropical Storm Bertha became only the 6th tropical cyclone this century to impact the state prior to August 1st.

MAZ006	Western Essex	20 1300EST			1	0			Strong Winds
Somewhat strong winds, gusting over 40 mph at times, blew down a large tree, which fell directly on a 4-year-old girl, killing her. The girl was playing outside her home in Haverhill. The falling tree also damaged the house and smashed a truck parked in the driveway. Investigators found the tree to be partially rotted. F4OU									

MASSACHUSETTS, West

Berkshire County	Town Of Pittsfield	13 1130EST	2100EST		0	0	10K		Flash Flood
The remnants of Hurricane Bertha tracked from the Mid-Atlantic region northeast to Quebec, Canada between Saturday morning July 13 to Sunday morning July 14. Three to five inches of rain was common across Berkshire County. Roads and streams were flooded throughout the county, especially in the Towns of Lenox, Pittsfield and Great Barrington. Scattered power outages also occurred across Berkshire County, when strong winds downed water-laden tree branches onto wires.									

Berkshire County	Lee	14 1845EST			0	0	2K		Thunderstorm Wind
Berkshire County	Stockbridge	14 1845EST			0	0	2K		Thunderstorm Wind
Berkshire County	Lee	14 1910EST			0	0	2K		Thunderstorm Wind
An unstable atmosphere over New England produced widely scattered severe thunderstorms in Berkshire County, during the afternoon of July 14. Damaging winds downed trees and wires at Lee and Stockbridge.									

MICHIGAN, East

Shiawassee County	Owosso	02 1740EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew over a large tree in downtown Owosso.									
Genesee County	Linden	07 1444EST			0	0			Hail (0.75)
Oakland County	3 NW Rose Center	07 1503EST			0	0			Hail (0.75)
Oakland County	Oakland Co A.P.	07 1530EST			0	0			Tstm Wind/Hail
Oakland County	3 S Rochester Hills	07 1555EST			0	0			Hail (1.00)
Oakland County	Troy	07 1559EST			0	0			Hail (0.75)
Macomb County	Sterling Heights	07 1600EST			0	0			Hail (0.75)
Macomb County	Sterling Heights to Saint Clair Shores	07 1610EST	1620EST		0	1	3M		Thunderstorm Wind (G95)

A cold front passed through southeast Michigan late in the afternoon on the 7th. Severe thunderstorms developed along the front, producing 3/4 inch diameter hail in a few places from southern Genesee county into northern Oakland county. The heaviest damage began as the storms reached central Oakland county. Wind gusts to 55 knots flipped airplanes at the Oakland county airport west of Pontiac, and blew down several trees in a path from Waterford southeast across Pontiac. The damage increased as the storm continued to the southeast across Macomb county, where over 500 home owners filed insurance claims with AAA Michigan, and at least 900 claimers were received by State Farm Insurance. The core of strongest winds tracked from northwest to southeast across the towns of Sterling Heights, Fraser, Roseville and Saint Clair Shores. Roofs were torn off of several buildings, and many large trees were blown down. The roof was torn off of an elementary school in Roseville, and a parked tractor trailer was overturned at the Macomb Mall. One woman was injured when she was hit by a falling tree. Approximately 62,000 people in Oakland and Macomb counties were left without power.

Genesee County	5 W Flint	08 1420EST			0	0			Thunderstorm Wind (G50)
Genesee County	Burton	08 1434EST			0	0			Thunderstorm Wind (G50)
Oakland County	Waterford	08 1950EST			0	0			Hail (0.75)
Oakland County	Keego Harbor	08 1958EST			0	0	2K		Thunderstorm Wind (G50)
A large tree was blown down along the shore of Cass Lake in Keego Harbor, damaging a house.									
Macomb County	Washington	08 2004EST			0	0			Hail (0.75)
Huron County	Kinde	08 2020EST			0	0			Hail (0.75)
Macomb County	Ray Center	08 2025EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, East</u>									
St. Clair County 5 W St Clair	08	2035EST			0	0			Hail (0.75)
Shiawassee County Morrice	18	2222EST			0	0			Thunderstorm Wind (G60)
Lapeer County Almont	18	2245EST			0	0	10K		Thunderstorm Wind (G60)
Oakland County Ortonville	18	2320EST			0	0			Thunderstorm Wind (G50)
St. Clair County Marine City	18	2355EST			0	0			Thunderstorm Wind (G50)
Genesee County 5 SW Flint	19	0008EST			0	0			Thunderstorm Wind (G50)
Lapeer County 5 W Lapeer	19	0015EST			0	0			Thunderstorm Wind (G55)
Oakland County 5 E Ortonville	19	0020EST			0	0			Thunderstorm Wind (G55)
Lapeer County 3 N Metamora	19	0030EST			0	0			Thunderstorm Wind (G50)
Lapeer County 3 W Inlay City	19	0050EST			0	0			Thunderstorm Wind (G50)
An area of low pressure tracked across northern lower Michigan during the evening of the 18th and the early morning hours of the 19th. Severe thunderstorms developed ahead of the cold front associated with that system, and tracked east from Shiawassee county through Genesee, Lapeer, northern Oakland, and Saint Clair counties. Several spotters reported downed trees. The roof was blown off of a barn in Morrice, in Shiawassee county, and a barn collapsed in Almont, in Lapeer county, killing 2 cows.									
Livingston County Howell	24	1145EST			0	0			Thunderstorm Wind (G55)
Livingston County Pinckney	24	1147EST			0	0			Thunderstorm Wind (G50)
Washtenaw County 10 NW Ann Arbor	24	1200EST			0	0			Thunderstorm Wind (G55)
Oakland County Oak Park	24	1230EST			0	0			Thunderstorm Wind (G50)
Wayne County Livonia	24	1230EST			0	0			Thunderstorm Wind (G55)
Oakland County Southfield	24	1245EST			0	0			Thunderstorm Wind (G55)
Lenawee County Blissfield	24	1625EST			0	0			Hail (1.00)
Monroe County Petersburg	24	1642EST			0	0			Hail (0.75)
Monroe County Petersburg	24	1705EST			0	0			Thunderstorm Wind (G55)
Two rounds of severe thunderstorms occurred ahead of a cold front on the 24th. The first round produced scattered instances of downed trees and powerlines from Livingston county southeast to northern Wayne county early in the afternoon. Late in the afternoon, a second round of storms affected Lenawee and Monroe counties, producing nickle sized hail at Blissfield, and uprooting trees in Petersburg. No property damage was reported.									
Oakland County Milford Twp	29	1800EST			1	0			Lightning
A 38-year-old women was struck by lightning and killed in Milford township while standing near a tree on the patio of her parents house. F38UT									
Monroe County Monroe	30	1608EST			0	0			Thunderstorm Wind (G50)
Lapeer County Lapeer	30	1915EST			0	0			Thunderstorm Wind (G50)
<u>MICHIGAN, Extreme Southwest</u>									
NONE REPORTED.									
<u>MICHIGAN, North</u>									
Iosco County Oscoda	07	1450EST			0	0			Hail (0.88)
Cheboygan County Cheboygan	08	1322EST			0	0			Hail (0.75)
Presque Isle County 5 W Rogers City	08	1335EST			0	0			Hail (0.75)
Mackinac County Engadine	08	1528EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, North</u>									
Antrim County Eastport	08	1549EST			0	0			Hail (1.50)
Charlevoix County East Jordan	08	1558EST			0	0			Hail (0.75)
			Hail accumulated to a depth of 2 inches on the ground.						
Otsego County 2 N Vanderbilt	08	1606EST			0	0			Hail (0.75)
Kalkaska County South Boardman	08	1615EST			0	0			Hail (1.75)
Otsego County Gaylord	08	1620EST			0	0			Hail (1.00)
Otsego County 5 NW Gaylord	08	1620EST			0	0			Hail (1.00)
Otsego County 5 W Gaylord	08	1620EST			0	0			Hail (0.75)
Otsego County 2 E Gaylord	08	1622EST			0	0			Hail (0.88)
Montmorency County Atlanta	08	1655EST			0	0			Hail (0.75)
Montmorency County Atlanta	08	1655EST			0	0			Thunderstorm Wind (G53)
Otsego County Gaylord	08	1655EST			0	0			Hail (0.75)
Alpena County 5 S Alpena	08	1735EST			0	0			Thunderstorm Wind (G51)
Alpena County 7 N Alpena	08	1739EST			0	0			Hail (1.00)
Alcona County 2 S Glennie	24	1235EST			0	0			Hail (0.75)
<u>MICHIGAN, Upper</u>									
Delta County 3 SE Rapid River	08	1230EST 1233EST			0	0			Hail (1.50)
Delta County Gladstone	08	1230EST 1300EST			0	0			Urban/Sml Stream Fld
			Hail and heavy rain combined to overwhelm storm sewers in the city of Gladstone. Most of the street flooding resulted from storm drains that were clogged with hail.						
Delta County 5 W Gladstone	08	1237EST 1238EST			0	0			Hail (0.75)
Delta County Gladstone	08	1244EST 1246EST			0	0	1K		Hail (0.75)
			Hail damaged one patio table where a glass table top broke, and produced dents and scratches on 4 vehicles in the city of Gladstone.						
Delta County Cornell to Gladstone	08	1308EST 1330EST			0	0	2K		Thunderstorm Wind (G55)
			A thunderstorm induced windstorm began around Cornell and moved east to Gladstone. The wind damaged 3 utility poles in Cornell, and trees up to one foot in diameter were downed in Gladstone. Damage included one vehicle with a cracked windshield, one vehicle with a dented hood and broken grill, and 3 trailers with minor damage.						
Delta County Escanaba	08	1320EST 1322EST			0	0			Hail (1.00)
Alger County 13 S Wetmore to 11.8 S Wetmore	08	1327EST 1333EST			0	0			Hail (0.75)
Delta County 1 W Escanaba	08	1335EST 1336EST			0	0			Hail (0.75)
Delta County Fairport	08	1400EST 1401EST			0	0			Hail (0.75)
Dickinson County 3 W Iron Mtn to Iron Mtn	15	1845EST 1847EST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, Upper</u>									
Dickinson County 4 SE Iron Mtn to Quinnesec	15	1905EST 1906EST			0	0			Hail (1.00)
Marquette County 5 NW Gwinn	18	1515EST 1520EST			0	0			Hail (0.75)
<u>MICHIGAN, West</u>									
Gratiot County Bannister	02	1703EST			0	0			Hail (0.75)
Clinton County Elsie	02	1710EST 1715EST			0	0			Hail (1.00)
One inch diameter hail occurred during a downpour that produced one inch of rain in fifteen minutes. The storm was accompanied by wind gusts estimated at 55 mph, knocking down 3 inch diameter tree limbs.									
Isabella County Shepherd	08	1245EST 1250EST			0	0	2K		Thunderstorm Wind (G50)
Thunderstorm winds knocked tree limbs onto power lines, causing power outages lasting up to two hours. One section of a large tree split away from the main trunk and fell onto a house, causing a large hole in the roof and damage to a bedroom ceiling.									
Berrien County Southern	18	0100EST 0400EST			0	0			Flash Flood
Rains in excess of two inches between 12AM and 1AM EST resulted in water over roads in southwest Berrien County. Additional rains of over an inch between 1AM and 3AM caused washouts that forced the closure of US-12 at Cleveland Ave. Water covered roads in the New Buffalo and Three Oaks areas.									
Calhoun County Albion	23	1900EST 1905EST			0	0	1K		Tstm Wind/Hail
Thunderstorm winds combined with half-inch diameter hail broke some large tree branches that in turn knocked down power lines. A car was damaged by a fallen power line.									
Jackson County Jackson	23	1930EST 1935EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down trees in the northern part of the city of Jackson.									
Jackson County 8 N Jackson	24	1125EST 1127EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew trees down onto M-106 north of Jackson.									
Jackson County Concord	24	1140EST 1145EST			0	0			Tstm Wind/Hail
Thunderstorm winds combined with half-inch hail knocked down numerous tree limbs.									
Jackson County Clark Lake	24	1155EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down tree limbs.									
Ingham County Leslie	24	1201EST 1203EST			0	0			Thunderstorm Wind (G50)
A cherry tree was reported uprooted by thunderstorm winds.									
Osceola County Ewart	28	1700EST 1701EST	0.1	10	0	0	2K		Tornado (F0)
Residents of a youth care facility witnessed the tornado touch down and damage a nearby pole barn, picking up the roof of the barn and twisting it. Remains of the roof then fell into the building. The tornado then moved north of the barn toward a field and lifted.									
Clare County Lake George	29	1945EST			0	0			Hail (1.00)
Clare County 4 NE Harrison to Harrison	29	2000EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down trees in northeast Clare County.									
Clare County Harrison	29	2000EST			0	0			Hail (1.75)
Clare County Temple	30	2200EST			0	0	5K		Lightning
Lightning ignited a fire at a scrapyards for used tires. The burning pile contained nearly 200,000 tires, and the resulting fire produced noxious smoke as it continued to burn through the following day. A pole barn near the scrap heap also burned.									
<u>MINNESOTA, Central and South Central</u>									
Todd County Clarissa	01	1810CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Douglas County 5 E Carlos	01	1810CST			0	0			Funnel Cloud
Todd County 2 E Long Prairie	01	1830CST			0	0			Funnel Cloud
Todd County 4 N Long Prairie	01	1835CST			0	0			Thunderstorm Wind (G50)
			Siding torn off house. Three inch diameter branches down. Estimated windspeed.						
Todd County 5 NE Long Prairie	01	1845CST			0	0			Hail (0.88)
Morrison County 3 SE Swanville	01	1905CST			0	0			Hail (1.50)
			Hail covered ground.						
Stearns County 3 N St Cloud	01	2000CST			0	0			Hail (0.75)
Lac Qui Parle County Bellingham	06	1020CST			0	0			Hail (1.00)
Brown County 2 NW Essig to 1 NW Essig	06	1305CST 1310CST	0.5	50	0	0			Tornado (F0)
Nicollet County 2 E Klossner	06	1330CST			0	0			Hail (0.75)
Nicollet County 2 E Klossner	06	1330CST			0	0			Thunderstorm Wind (G55)
			Trees down. Large cottonwood tree snapped in half. Estimated windspeed.						
Nicollet County 5 SW New Sweden	06	1350CST			0	0			Hail (1.00)
Dakota County 5 SE Hastings	06	1545CST	0.1	50	0	0			Tornado (F0)
Stevens County 1 S Morris	11	1715CST			0	0			Hail (0.75)
Pope County Glenwood	11	1737CST			0	0			Hail (1.00)
			Hail covered the ground.						
Todd County 5 S Philbrook	11	1820CST			0	0			Hail (1.00)
Morrison County Lincoln	11	1820CST			0	0			Hail (1.00)
Washington County 2 W Marine On St. Croix	14	1645CST			0	2			Lightning
			Two men struck by lightning while taking shelter under a tree next to Big Marine Lake. Estimated time of occurrence.						
Stevens County 11 S Chokio	17	2145CST			0	0			Thunderstorm Wind (G55)
			Eight inch tree limbs down. One tree broken in half. Estimated windspeed.						
Swift County Danvers	17	2150CST			0	0			Thunderstorm Wind (G55)
			3 mile long and 1.5 mile wide path of large tree limbs down. Estimated windspeed.						
Stevens County 11 S Alberta	17	2155CST			0	0			Thunderstorm Wind (G55)
			Ten inch tree limbs down.						
Stevens County Hancock	17	2200CST			0	0			Thunderstorm Wind (G55)
			Large tree limbs and powerlines down. Estimated windspeed.						
Stevens County 5 S Hancock	17	2215CST			0	0			Thunderstorm Wind (G55)
			Trees down. Estimated windspeed.						
Swift County 4 N Danvers	17	2220CST	0.1	50	0	0			Tornado (F0)
Pope County 5 S Cyrus	17	2225CST			0	0			Thunderstorm Wind (G55)
			Trees down. 90 foot radio antenna damaged. Crop damage. Estimated windspeed.						
Swift County Clontarf	17	2240CST			0	0			Hail (0.75)
Pope County 6 SW Glenwood	17	2245CST			0	0			Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Trees and powerlines down. Estimated windspeed.									
Pope County 6 SW Glenwood	17	2245CST			0	0			Hail (0.75)
Pope County Glenwood	17	2300CST			0	0			Thunderstorm Wind (G52)
Chippewa County 5 S Kerkhoven	17	2315CST			0	0			Hail (1.00)
Kandiyohi County 3 SW Pennock	17	2330CST			0	0			Hail (0.88)
Pope County Glenwood	17	2330CST			0	0			Thunderstorm Wind (G55)
Trees and powerlines down. Estimated windspeed.									
Stearns County 3 E Paynesville	17	2345CST			0	0			Thunderstorm Wind (G55)
Large branches down. Shingles off house. Estimated windspeed.									
Kandiyohi County Willmar	17	2350CST			0	0			Hail (0.75)
Stevens County 2 NW Big Bend City	18	0000CST			0	0			Thunderstorm Wind (G60)
12 inch tree branches down. Shingles off roof. Corn flattened. Estimated windspeed.									
Chippewa County 1 W Big Bend City	18	0000CST			0	0			Thunderstorm Wind (G60)
Trees down. Estimated windspeed.									
Stearns County 4 SW Richmond	18	0000CST			0	0			Thunderstorm Wind (G55)
Trees down. Estimated windspeed.									
Benton County St. Cloud	18	0050CST			0	0			Funnel Cloud
Morrison County 2 NW Buckman	18	0055CST			0	0			Thunderstorm Wind (G55)
Barn leveled. Estimated windspeed and time of occurrence.									
Renville County Danube	18	0100CST			0	0			Thunderstorm Wind (G52)
Large branches down. Estimated windspeed.									
Renville County Danube	18	0100CST			0	0			Hail (0.88)
Hail swath was 3 miles long and 1/2 mile wide.									
Chippewa County 2 SW Clara City	18	0115CST 0130CST			0	0			Hail (1.00)
Significant crop damage.									
Isanti County 15 SE Cambridge	18	0158CST			0	0			Lightning
Lightning caused a fire that destroyed a house in Stanford township.									
Wright County 5 N Rockford	18	0215CST			0	0			Thunderstorm Wind (G60)
Scattered trees down across a mile-wide swath. Docks overturned on Charlotte Lake. Patio roof lifted and thrown 100 feet. Estimated windspeed.									
Hennepin County Rogers	18	0230CST			0	0			Thunderstorm Wind (G60)
Two foot diameter trees snapped in half. Minor garage damage. Estimated windspeed.									
Anoka County Coon Rapids	18	0300CST			0	0			Thunderstorm Wind (G52)
4 inch diameter tree branches down. Estimated windspeed.									
Todd County Staples	21	1851CST			0	0			Hail (1.00)
Todd County Staples	21	1851CST			0	0			Thunderstorm Wind (G52)
Morrison County 3 SW Pillager	21	1915CST			0	0			Hail (1.00)
Morrison County 3 E Motley	21	1915CST			0	0			Hail (0.75)
Pope County Starbuck	21	1935CST			0	0			Funnel Cloud
Pope County 7 SW Glenwood	21	1945CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Central and South Central									
Crop damage.									
Pope County 10 W Brooten	21	1950CST			0	0			Thunderstorm Wind (G52)
Morrison County 4 N Lastrup	21	1958CST			0	0			Hail (0.75)
Morrison County 5 S Freedhem	21	2000CST			0	0			Hail (1.00)
Stearns County 5 S Brooten	21	2005CST			0	0			Thunderstorm Wind (G52)
Todd County 2 W Swanville	21	2020CST			0	0			Funnel Cloud
Kandiyohi County 5 NW New London	21	2030CST			0	0			Funnel Cloud
Morrison County Sobieski	21	2030CST			0	0			Funnel Cloud
Morrison County Flensburg	21	2052CST			0	0			Hail (1.75)
Benton County Gilman	21	2128CST			0	0			Thunderstorm Wind (G50)
Winds rocked police car. Estimated windspeed.									
Benton County 3 N Foley	21	2130CST			0	0			Hail (1.00)
Mille Lacs County 5 NW Milaca	21	2140CST			0	0			Funnel Cloud
Mille Lacs County 3 N Estes Brook	21	2148CST			0	0			Hail (0.75)
Mille Lacs County 2 NE Long Siding	21	2157CST			0	0			Hail (0.75)
Isanti County Cambridge	21	2240CST			0	0			Thunderstorm Wind (G50)
Trees down on house on powerlines. Estimated windspeed.									
Brown County 8 N Sleepy Eye	27	1545CST			0	0			Hail (1.25)
Severe crop damage from 20 minute hail storm.									
Redwood County 2 N Sanborn	27	1600CST			0	0			Hail (1.50)
Crop damage.									
Watonwan County Darfur	27	1718CST			0	0			Hail (1.00)
Watonwan County Ormsby	27	1755CST			0	0			Hail (1.00)
Martin County Truman	27	1812CST			0	0			Hail (1.75)
Martin County Fairmont	27	1854CST	0.2	50	0	0			Tornado (F0)
Brief touchdown on south end of city near County Road 39.									
MINNESOTA, Northeast									
Crow Wing County Pequot Lakes	01	1515CST			0	0			Hail (0.75)
Crow Wing County Cross Lake	01	1530CST			0	0			Hail (1.00)
Crow Wing County Cross Lake	01	1555CST			0	0			Hail (0.75)
Itasca County 1 E Ball Club	01	1635CST			0	0			Thunderstorm Wind (G52)
A business sign and 5-inch diameter trees were blown down.									
Cass County Whipholt	01	1705CST			0	0			Hail (1.00)
Itasca County Pokegama Lake	01	1707CST			0	0			Thunderstorm Wind (G52)
Crow Wing County Pequot Lakes	06	1100CST 1700CST			0	0			Flash Flood

The basement wall of a Pequot Lakes restaurant collapsed after the area received 5 inches of rain in just over an hour. Four days later, the weakened basement wall of another restaurant collapsed. Some streets in Pequot Lakes had up to a foot of standing

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northeast									
									water.
St. Louis County Duluth	06	1100CST 1700CST			0	0	300K		Flash Flood
									Heavy thunderstorm rains caused the closure of several highways in the Duluth area, including State Highway 61, 11 miles northeast of Duluth, which was covered with 8 inches of water. The Northshore Scenic Railroad tracks just northeast of Duluth were washed out. Other city streets, county roads, and rural driveways suffered washouts, and the city of Duluth experienced sewer overflows. A total of 2.33 inches of rain fell at Duluth International Airport, setting a new record for the date.
Cass County Pillager	11	1725CST			0	0			Hail (0.75)
Crow Wing County Brainerd	11	1740CST			0	0			Hail (1.75)
Itasca County Grand Rapids	11	1805CST			0	0			Hail (0.75)
Crow Wing County Crosby	11	1810CST			0	0			Hail (0.75)
St. Louis County Hibbing	11	1815CST			0	0			Hail (2.50)
Itasca County Grand Rapids	11	1820CST			0	0			Thunderstorm Wind (G52)
									Tree branches up to 2 inches in diameter were broken off.
St. Louis County Cherry	11	1830CST			0	0			Hail (1.75)
Crow Wing County Swanburg	11	1838CST			0	0			Hail (1.75)
Crow Wing County Cross Lake	11	1943CST			0	0			Thunderstorm Wind (G50)
									Trees and power lines were blown down. Wind speed is estimated.
Pine County Pine City	11	2315CST			0	0			Hail (0.75)
Itasca County Squaw Lake	14	1255CST			0	0			Hail (1.25)
Cass County Leech Lake	14	1403CST			0	0			Hail (1.75)
Crow Wing County Cross Lake	21	1540CST			0	0			Hail (0.75)
Itasca County Grand Rapids	21	1610CST			0	0			Hail (0.88)
Carlton County Cromwell	21	1745CST			0	0			Hail (1.00)
St. Louis County Side Lake	21	1800CST			0	0			Thunderstorm Wind (G52)
									Strong thunderstorm winds blew down a 100 year old tree, a local landmark. The uprooted tree landed on top of a nearby restaurant, causing considerable damage to the roof and south wall. No one inside the building was injured.
Cass County 3 E Motley to Motley	21	1915CST			0	0			Hail (0.75)
Crow Wing County Brainerd	21	1930CST			0	0			Thunderstorm Wind (G78)
Crow Wing County Brainerd	21	1946CST			0	0			Thunderstorm Wind (G50)
									Several trees were blown down. Wind speed is estimated.
St. Louis County Saginaw	21	2013CST			0	0			Thunderstorm Wind (G50)
St. Louis County Duluth	21	2048CST			0	0			Thunderstorm Wind (G52)
St. Louis County Duluth	21	2230CST			0	1			Lightning
									A lightning bolt entered a woman's bedroom, traveled through the mattress and spring she was sleeping on, then leaped into an electrical outlet. The 19 year old woman was not seriously injured, but she was left temporarily deaf in one ear and with a slightly irregular heartbeat. The lightning bolt also started a fire in the bed and ignited insulation in the attic of the home. The fires were quickly extinguished.
MINNESOTA, Northwest									
Marshall County Argyle	05	1745CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northwest									
Polk County Climax	05	1805CST			0	0	0.50K		Thunderstorm Wind
		Trees blown down.							
Polk County 6 SW Alverado	05	1805CST			0	0			Hail (0.75)
Marshall County Alverado	05	1805CST			0	0	0.50K		Thunderstorm Wind
		Large tree limbs down.							
Hubbard County Park Rapids	06	1215CST 1225CST			0	0	80K		Thunderstorm Wind (G60)
		Building in industrial park demolished.							
Otter Tail County Ottertail	11	1810CST			0	0	0.50K		Thunderstorm Wind
		Large tree limbs down.							
Wadena County 2 SW Oylen	11	1830CST			0	0	5K		Hail (1.75)
Wadena County 2 S Oylen	11	1842CST			0	0	5K		Hail (2.50)
Otter Tail County 8 NW Parkers Prairie	11	1907CST			0	0			Hail (0.75)
Polk County 3 E Climax	14	1539CST 1559CST	7	30	0	0	0	0	Tornado (F0)
Norman County Anthony	17	2055CST			0	0			Hail (0.75)
Norman County 4 SW Lockhart	17	2114CST			0	0			Hail (0.75)
Norman County 2 S Lockhart	17	2140CST			0	0			Hail (0.75)
Norman County 2 S Fertile	17	2215CST			0	0			Hail (1.00)
Polk County 2 S Fertile	17	2215CST			0	0			Hail (1.00)
Norman County Flaming	17	2224CST			0	0			Hail (0.75)
Polk County Mc Intosh	17	2327CST			0	0			Hail (0.75)
Roseau County Roseau	18	0400CST 0800CST			0	0	10K		Flash Flood
		Up to 8 inches of rain fell.							
Kittson County .5 S Halma	21	1235CST			0	0			Hail (0.75)
Kittson County Lake Bronson	21	1245CST			0	0			Hail (0.75)
Roseau County 15 W Roseau	21	1305CST			0	0			Hail (1.75)
Kittson County 3 E Karlstad	21	1313CST			0	0			Hail (1.75)
Marshall County Newfolden	21	1337CST 1341CST	3	50	0	0			Tornado (F0)
Clay County 25 NE Fargo	21	1405CST			0	0			Hail (1.00)
Polk County East Grand Forks	21	1410CST			0	0			Hail (0.75)
Otter Tail County Ottertail	21	1445CST			0	0			Hail (0.75)
Becker County 20 N Detroit Lakes	21	1445CST			0	0			Hail (0.75)
Roseau County 25 SW Roseau	21	1447CST			0	0			Hail (1.00)

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MINNESOTA, Northwest									
Mahnomen County									
1 E Waubun	21	1500CST			0	0			Hail (1.75)
Polk County									
20 S Red Lake Falls	21	1513CST			0	0			Hail (0.75)
Clearwater County									
7 SW Bagley	21	1513CST			0	0			Hail (1.75)
Red Lake County									
25 SE Thief River Falls	21	1515CST			0	0			Hail (0.75)
Clearwater County									
5 SE Bagley	21	1522CST			0	0			Hail (0.75)
Polk County									
35 S Thief River Falls	21	1524CST			0	0			Hail (0.75)
Polk County									
30 SE Thief River Falls	21	1531CST			0	0			Hail (0.75)
Clearwater County									
5 SE Bagley	21	1534CST			0	0			Hail (0.75)
Clearwater County									
15 W Bemidji	21	1538CST			0	0			Hail (1.75)
Beltrami County									
10 W Bemidji	21	1540CST			0	0			Hail (1.00)
Beltrami County									
10 NW Bemidji	21	1548CST			0	0			Hail (1.75)
Polk County									
35 SE Thief River Falls	21	1555CST 1600CST			0	0			Hail (0.75)
Polk County									
40 W Bemidji	21	1600CST			0	0			Hail (1.00)
Beltrami County									
20 N Bemidji	21	1605CST			0	0	100K	500K	Hail (1.75)
Polk County									
35 W Bemidji	21	1635CST			0	0			Hail (0.75)
Clay County									
20 SE Fargo	21	1643CST			0	0			Hail (1.00)
Clearwater County									
25 W Bemidji	21	1700CST			0	0			Hail (1.00)
Beltrami County									
1 S Bemidji	21	1700CST			0	0			Hail (0.75)
Becker County									
10 W Detroit Lakes	21	1700CST			0	0			Hail (0.75)
Otter Tail County									
25 NE Fergus Falls	21	1715CST			0	0			Hail (0.75)
Beltrami County									
Bemidji	21	1725CST			0	0	100K		Hail (1.75)
Beltrami County									
5 SE Bemidji	21	1730CST			0	0			Hail (0.75)
Otter Tail County									
20 SE Detroit Lakes	21	1739CST			0	0			Hail (0.75)
Otter Tail County									
25 SE Detroit Lakes	21	1753CST			0	0			Hail (0.75)
Otter Tail County									
25 SE Detroit Lakes	21	1759CST			0	0			Hail (1.00)
Otter Tail County									
35 SE Detroit Lakes	21	1802CST			0	0			Hail (1.50)
Wadena County									
Wadena	21	1816CST			0	0			Hail (1.00)
Wadena County									
5 SE Wadena	21	1832CST			0	0			Hail (1.25)
Otter Tail County									
20 E Fergus Falls	21	1834CST			0	0			Hail (1.00)
Otter Tail County									
20 E Fergus Falls	21	1840CST			0	0			Hail (0.75)
Otter Tail County									
20 SE Fergus Falls	21	1846CST			0	0			Hail (0.75)
Otter Tail County									
20 E Fergus Falls	21	1849CST			0	0			Hail (0.75)

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July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Southeast</u>									
NONE REPORTED.									
<u>MINNESOTA, Southwest</u>									
Rock County Hills	01	1455CST			0	0			Hail (1.00)
Hail covered the ground.									
Rock County Beaver Creek	01	1510CST			0	0			Hail (1.75)
Rock County Luverne	01	1520CST			0	0			Hail (0.75)
Murray County Dovray	01	1615CST			0	0			Hail (0.75)
Nobles County 5 SE Lismore	01	1615CST			0	0			Hail (1.75)
Nobles County Dundee	29	1804CST			0	0			Hail (1.00)
<u>MINNESOTA, West</u>									
NONE REPORTED.									
<u>MINNESOTA, West Central</u>									
Traverse County Browns Vly	17	2030CST			0	0			Thunderstorm Wind (G52)
Big Stone County Beardsley	17	2045CST			0	0			Thunderstorm Wind (G52)
Big Stone County 2 W Clinton	17	2110CST			0	0			Hail (0.75)
<u>MISSISSIPPI, Central</u>									
Jasper County Rose Hill	07	1515CST			0	0	1K		Thunderstorm Wind
Several trees were blown down across roadways.									
Noxubee County Macon	07	1710CST			0	0	5K		Thunderstorm Wind
Several large limbs were blown out of trees. One large limb fell on a house.									
Scott County 5 N Morton	07	1735CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
Scott County Homewood	08	1605CST			0	0			Hail (0.75)
Kemper County 7 SW De Kalb	08	1615CST			0	0			Hail (0.75)
Sharkey County Onward	08	1715CST			0	0			Hail (0.75)
Warren County 4 N Redwood	08	1820CST			0	0	2K		Thunderstorm Wind
Several trees and power lines were blown down.									
Hinds County Raymond to Jackson	08	1905CST 1915CST			0	0	3K		Thunderstorm Wind
Several trees and power lines were blown down in central Hinds county.									
Warren County 6 S Vicksburg	08	1915CST			0	0	2K		Thunderstorm Wind
Several trees and power lines were blown.									
Warren County 3 NW Vicksburg	09	1508CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
Warren County Redwood	09	1525CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
Hinds County Clinton	09	1630CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
Madison County Ridgeland	09	1655CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
Clarke County Quitman	09	1700CST			0	0	3K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSISSIPPI, Central									
			Trees were blown down at several locations throughout Clarke county.						
Jasper County Bay Spgs	09	1715CST			0	0	1K		Thunderstorm Wind
			Several trees and large limbs were blown down.						
Madison County Ridgeland	09	1730CST 1800CST			0	0			Flash Flood
			Numerous streets were flooded.						
Jones County 4 E Laurel	13	1330CST			0	0	2K		Thunderstorm Wind
			Several trees were blown down and shingles were blown off of several roofs.						
Lamar County Purvis	13	1345CST			0	0	1K		Thunderstorm Wind
			Several trees were blown down.						
Jasper County Heidelberg	13	1450CST			0	0	1K		Thunderstorm Wind
			Several trees and power lines were blown down.						
Covington County Sanford	13	1515CST			0	0	1K		Thunderstorm Wind
			Several trees and large limbs were blown down.						
Jasper County Rose Hill	13	1628CST			0	0	1K		Thunderstorm Wind
			Several trees were blown down.						
Rankin County Brandon	14	1520CST			0	0	1K		Thunderstorm Wind
			Trees and power lines were blown down.						
Hinds County Terry	14	1530CST			0	0	1K		Thunderstorm Wind
			Several trees were blown down.						
Oktibbeha County Starkville	14	1530CST			0	0	1K		Thunderstorm Wind
			Several trees were blown down.						
Madison County Madison	14	1540CST			0	0	1K		Thunderstorm Wind
			Several trees and large limbs were blown down.						
Kemper County 2 N De Kalb	16	1400CST			0	0	1K		Thunderstorm Wind
			Several trees were blown down.						
Lauderdale County 1 S Martin	16	1547CST			0	0			Hail (0.75)
Hinds County Terry	30	1540CST			0	0	1K		Thunderstorm Wind
			Several trees and power lines were blown down.						
Scott County Forest	30	1615CST			0	0	1K		Thunderstorm Wind
			Several trees were blown down.						
Rankin County Brandon	30	1620CST			0	0	3K		Thunderstorm Wind
			Several power lines and traffic signals were blown down.						
MISSISSIPPI, North									
Pontotoc County Pontotoc to Thaxton	08	0025CST 0030CST			0	0	2K		Thunderstorm Wind
			Large trees and tree limbs were knocked down.						
Panola County Sardis	08	1610CST 1615CST			0	0	0.01K		Hail (0.75)
Panola County Batesville	08	1745CST 1750CST			0	0	0.10K		Hail (1.00)
Panola County Batesville	08	1754CST 1758CST			0	0	0.10K		Hail (1.00)
Marshall County Byhalia	22	1930CST 1935CST			0	0	1K		Thunderstorm Wind
			Several power lines were blown down.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSISSIPPI, South									
Harrison County South Portion	08	0700CST 1100CST			0	0	100K	0	Urban/Sml Stream Fld
									Heavy rainfall of 5 to 8 inches fell across southern Harrison County during the morning causing widespread flooding of streets. Some streets and roads were closed because of high water, and some cars were stalled in flood water. Drainage of runoff from the heavy rain was slowed by high tides along the coast. Minor flooding was reported to 15 houses at Keesler Air Force Base.
Jackson County South Portion	08	0700CST 1100CST			0	0	100K	0	Urban/Sml Stream Fld
									Heavy rainfall of 4 to 7 inches during the morning hours caused extensive flooding of streets and roads in several communities of southern Jackson County. Drainage of rainfall runoff was slowed by high tides along the coast. Several houses were flooded in Pascagoula.
MISSISSIPPI, Southeast									
George County Lucedale	03	1825CST			0	0	2K		Thunderstorm Wind (G55)
									Several trees were blown down along State Hwy 63 just northeast of Lucedale.
George County Lucedale	03	1830CST			0	0	50K		Lightning
									Lightning struck the Crossroads United Methodist Church. The church was the oldest in George county. The lightning strike caused a fire to start and the church burned. The church is located on State Hwy 26 about 10 miles west of Lucedale.
MISSOURI, East									
Montgomery County South County	01	0500CST 0700CST			0	0			Flash Flood
									Heavy rain flooded numerous roads primarily across the southern part of the county.
Moniteau County Countywide	01	1630CST 2000CST			0	0			Flash Flood
									Heavy rain caused flash flooding across the county. Highway PP and other county roads went under water.
Franklin County Countywide	01	1700CST 2000CST			0	0			Flash Flood
									Heavy rain brought most creeks out of their banks across Franklin County. Numerous county roads were impassable.
MOZ064	St. Louis (C)	07 1200CST 08 1800CST			0	8			Excessive Heat
									Eight heat related injuries were reported at local St. Louis hospitals.
Reynolds County Centerville	08	0815CST			0	0			Thunderstorm Wind (G55)
									A cooperative observer reported a couple of trees down in Centerville.
Iron County Ironton	08	0820CST			0	0			Thunderstorm Wind (G55)
									The county sheriff reported large tree limbs down in Ironton.
MOZ064	St. Louis (C)	18 1200CST 20 1200CST			0	11			Excessive Heat
									Eleven heat related illnesses were reported from July 18th through the 20th.
Lincoln County 4 S Troy	19	1815CST			0	0			Thunderstorm Wind (G55)
									Amateur radio spotters reported trees and power lines down south of Troy.
St. Charles County St Charles	19	1830CST			0	0			Thunderstorm Wind (G55)
									Wind gusts downed trees and power lines knocking out power to much of the north part of the city.
St. Charles County O Fallon	19	1830CST			0	0			Thunderstorm Wind (G55)
									Wind gusts downed trees and power lines.
St. Louis County Florissant	19	1835CST			0	0			Thunderstorm Wind (G55)
									Amateur radio spotters reported trees and power lines down.
Franklin County Catawissa	19	1840CST 1841CST	0.1	50	0	0			Tornado (F0)
									The public reported a small tornado touched down briefly. There was no damage.
St. Louis (C) Citywide	19	1850CST			0	0			Thunderstorm Wind (G55)
									Power lines were reported down across many parts of the city.
Lincoln County Troy	19	1855CST			0	0			Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MISSOURI, East</u>									
The county sheriff reported power lines down across town.									
St. Louis County Crestwood	19	1900CST			0	0			Thunderstorm Wind (G55)
Amateur radio spotters reported trees and power lines down along Route 30 in southwest St. Louis County.									
Jefferson County Arnold	19	1900CST			0	0			Thunderstorm Wind (G55)
Amateur radio spotters reported trees and power lines down.									
St. Louis (C) South City	19	1910CST			0	0			Thunderstorm Wind (G55)
Wind gusts downed trees and power lines across the south part of the city.									
St. Louis County Lemay	19	1910CST			0	0			Thunderstorm Wind (G55)
Amateur radio spotters reported numerous areas with trees and power lines down across south St. Louis County.									
Jefferson County Pevely	19	1920CST			0	0			Thunderstorm Wind (G55)
Skywarn spotters reported trees and power lines down.									
Crawford County Bourbon	28	1305CST			0	0			Hail (1.75)
Golfball size hail fell in Bourbon.									
St. Louis County St Ann	28	1950CST			0	0			Hail (1.75)
Skywarn spotters reported golfball size hail.									
St. Louis (C) South City	28	2031CST			0	0			Hail (1.00)
St. Louis County South County	28	2040CST			0	0			Hail (0.75)
Skywarn spotters reported 3/4 inch hail at the intersection of I-44 and I-55 in south St. Louis County.									
St. Louis County (St)Lambert Fld St	29	0040CST			0	0			Thunderstorm Wind (G63)
A 72 mph wind gust was recorded at Lambert-St. Louis International Airport.									
Warren County Marthasville	29	0217CST			0	0			Hail (0.88)
Skywarn spotters reported nickel size hail.									
<u>MISSOURI, Lower</u>									
Dunklin County Hornersville	07	1640CST 1645CST			0	0	2K		Thunderstorm Wind
Several trees and power lines were blown down.									
Pemiscot County Hayti to Wardell	07	1700CST 1705CST			0	0	7K		Thunderstorm Wind
Several shingles were blown off a few roofs. Some trees and power lines were also blown down.									
Dunklin County Campbell	24	1445CST 1450CST			0	0	1K		Thunderstorm Wind
Several trees and large tree limbs were blown down.									
<u>MISSOURI, Northwest</u>									
MOZ020			Buchanan						
	01	0000CST 2359CST			0	0			Flood
Missouri River St. Joseph, MO									
Flood Stage 17 ft Above Flood Stage 7/1 Crest 23.32 ft on 6/24									
MOZ039			Saline						
	01 02	0000CST 2359CST			0	0			Flood
Missouri River Miami, MO									
Flood Stage 18 ft Above Flood Stage 7/1 to 7/2 Crest Estimated 24.4 ft on 6/26									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Northwest									
MOZ020	Buchanan	04 0000CST			0	0			Flood
		06 2359CST							
	Missouri River St. Joseph, MO								
	Flood Stage 17 ft Above Flood Stage 7/4 to 7/6 Crest 23.32 ft on 7/5								
MOZ038	Lafayette	05 0000CST			0	0			Flood
		07 2359CST							
	Missouri River Napoleon, MO								
	Flood Stage 17 ft Above Flood Stage 7/5 to 7/7 Crest 17.18 ft on 7/6								
MOZ038	Lafayette	06 0000CST			0	0			Flood
		07 2359CST							
	Missouri River Waverly, MO								
	Flood Stage 20 ft Above Flood Stage 7/6 to 7/7 Crest 20.18 ft on 7/6								
MOZ039	Saline	06 0000CST			0	0			Flood
		08 2359CST							
	Missouri River Miami, MO								
	Flood Stage 18 ft Above Flood Stage 7/6 to 7/8 Crest Estimated 18.3 ft on 7/7								
MOZ020	Buchanan	18 0000CST			0	0			Flood
		23 2359CST							
	Missouri River St. Joseph, MO								
	Flood Stage 17 ft Above Flood Stage 7/18 to 7/23 Crest 21.8 ft on 7/21								
Holt County									
Fortescue to Oregon	19	1640CST			0	0			Thunderstorm Wind (G52)
		1700CST							
	Severe thunderstorm winds gusted to 60 MPH knocking down trees in Oregon and Fortescue.								
Andrew County									
Avenue City	19	1735CST			0	0			Thunderstorm Wind (G56)
	Thunderstorm winds gusted to 65 MPH at Avenue City.								
Jackson County									
Blue Springs	19	1945CST			0	0	10K		Thunderstorm Wind
	There were several reports of downed trees and power lines in Blue Springs from severe thunderstorm winds.								

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Northwest									
MOZ029	Clay								
	20	0000CST			0	0			Flood
	21	2359CST							
	Fishing River Mosby, MO								
	Flood Stage 18 ft Above Flood Stage 7/20 to 7/21 Crest 27.2 ft on 7/21								
MOZ038	Lafayette								
	20	0000CST			0	0			Flood
	23	2359CST							
	Missouri River Napoleon, MO								
	Flood Stage 17 ft Above Flood Stage 7/20 to 7/23 Crest 20.51 ft on 7/22								
MOZ038	Lafayette								
	20	0000CST			0	0			Flood
	24	2359CST							
	Missouri River Waverly, MO								
	Flood Stage 20 ft Above Flood Stage 7/20 to 7/24 Crest 23.99 ft on 7/22								
MOZ039	Saline								
	20	0000CST			0	0			Flood
	25	2359CST							
	Missouri River Miami, MO								
	Flood Stage 18 ft Above Flood Stage 7/20 to 7/25 Crest Estimated 23.6 ft on 7/22								
Platte County									
1 S Platte City	20	1735CST			0	0	7K		Thunderstorm Wind
	Severe thunderstorm winds blew down large trees and power lines one mile south of Platte City.								
Clay County									
Smithville to 8 E Kci Airport	20	1745CST 1805CST			0	0	7K		Thunderstorm Wind
	Severe thunderstorm winds blew down trees in Smithville and knocked down signs and power lines at the intersection of Route 169 and Interstate 435, 8 miles east of KCI airport.								
Jackson County									
Kansas City	20	1840CST 2230CST			0	0			Urban/Sml Stream Fld
	Heavy rains during thunderstorms produced urban flooding throughout Kansas City. One to two inches of rain fell over parts of the city in less than two hours resulting in up to a foot of water building up on some roadways. Stateline road at 95th St. was flooded.								
Clay County									
Gladstone	20	1842CST			0	0			Urban/Sml Stream Fld
	21	0100CST							
	Thunderstorms dumped up to one to two inches of rain in an hour resulting in urban flooding. Up to a foot of water built up on the roadway at the intersection of 106th St. and Walnut St. in Gladstone. A second round of thunderstorms resulted in more flooding throughout portions of Clay County.								

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Northwest									
Jackson County Independence	20	1915CST			0	0	20K		Thunderstorm Wind
									Thunderstorm winds downed power lines and broke numerous windows in Independence at the intersection of 23rd St. and Lee's Summit Road.
Daviess County Jameson	20	1915CST 2100CST			0	0			Urban/Sml Stream Fld
									Heavy rains from thunderstorms resulted in numerous reports of flooded roads in Jameson. Water covered Highway 13 resulting in a temporary halt in traffic.
Ray County Richmond	20 21	2300CST 0100CST			0	0			Flash Flood
									Heavy rains from thunderstorms caused flash flooding in the Richmond area. There were several road closures due to high water and reports of sewer backups into houses.
Lafayette County Concordia to Lexington/Wellington	20 21	2300CST 0200CST			0	0			Flash Flood
									Heavy rains from thunderstorms produced flash flooding throughout sections of Lafayette County. One to three feet of water covered 23 Highway from Interstate 70 southward to the Johnson County border. Route 24 along the Missouri River from Lexington to Wellington was also under water.
Johnson County Knob Nobster	20 21	2330CST 0130CST			0	0			Flash Flood
									Thunderstorms dumped up to 3 inches of rain throughout Johnson County with as much as 5 to 7 inches of rain over the eastern half of the county. Flash flooding resulted in the closing of Routes E and 23. Several roads were also reported flooded in the Knob Nobster area.
Pettis County Lamont to Sedalia	20 21	2330CST 0300CST			0	0			Flash Flood
									Slow moving thunderstorms produced up to 7 to 8 inches of rain across sections of Pettis County resulting in extensive flash flooding. Route 65 north of Sedalia was under a foot of water and 50 Highway west of Lamont was closed due to high water.
MOZ020	Buchanan 21	0000CST 2359CST			0	0			Flood
									Platte River Agency, MO
									Flood Stage 20 ft Above Flood Stage 7/21 Crest 20.74 ft
MOZ028	Platte 21 22	0000CST 2359CST			0	0			Flood
									Platte River Sharps Station, MO
									Flood Stage 26 ft Above Flood Stage 7/21 to 7/22 Crest 27.03 ft on 7/22
MOZ028	Platte 21 22	0000CST 2359CST			0	0			Flood
									Platte River Platte City, MO
									Flood Stage 20 ft Above Flood Stage 7/21 to 7/22 Crest 20.3 ft on 7/21

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Northwest									
MOZ029	Clay	21	0000CST			0	0		Flood
			2359CST						
	Little Platte River Smithville, MO								
	Flood Stage 24 ft Above Flood Stage 7/21 Crest 27.34 ft								
MOZ023	Livingston	21	0000CST			0	0		Flood
			2359CST						
	Grand River Chillicothe, MO								
	Flood Stage 24 ft Above Flood Stage 7/21 Crest 25.3								
MOZ032	Chariton	21	0000CST			0	0		Flood
		23	2359CST						
	Grand River Sumner, MO								
	Flood Stage 26 ft Above Flood Stage 7/21 to 7/23 Crest 31.2 ft								
MOZ032	Chariton	21	0000CST			0	0		Flood
		24	2359CST						
	Grand River Brunswick, MO								
	Flood Stage 19 ft Above Flood Stage 7/21 to 7/24 Crest 21.7 ft								
MOZ044	Johnson	21	0000CST			0	0		Flood
		22	2359CST						
	Blackwater River Valley City, MO								
	Flood Stage 22 ft Above Flood Stage 7/21 to 7/22 Crest 26.4 ft								
MOZ039	Saline	21	0000CST			0	0		Flood
		26	2359CST						
	Blackwater River Blue Lick, MO								
	Flood Stage 24 ft Above Flood Stage 7/21 to 7/26 Crest 32.8 ft on 7/23								
MOZ046	Cooper	21	0000CST			0	0		Flood
		23	2359CST						
	Lamine River Otterville, MO								
	Flood Stage 15 ft Above Flood Stage 7/21 to 7/23								

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Northwest									
	Crest		22.72 ft on 7/21						
MOZ040	Howard								
	21	0000CST			0	0			Flood
	24	2359CST							
	Missouri River Glasgow, MO								
	Flood Stage	25 ft							
	Above Flood Stage	7/21 to 7/24							
	Crest	27.2 ft on 7/22							
MOZ046	Cooper								
	21	0000CST			0	0			Flood
	24	2359CST							
	Missouri River Boonville, MO								
	Flood Stage	21 ft							
	Above Flood Stage	7/21 to 7/24							
	Crest	25.77 ft on 7/23							
Bates County									
Foster to Butler	22	1610CST 1625CST			0	0			Thunderstorm Wind (G69)
	County sheriff's office reported a wind gust of 80 MPH in Foster during a severe thunderstorm. The Butler police department reported numerous trees and power lines down in Butler.								
Carroll County									
Wakenda	28	1820CST			0	0			Thunderstorm Wind (G52)
	Tree limbs, 3 inches in diameter, were blown down by severe thunderstorm winds in Wakenda.								
Saline County									
Malta Bend	28	1840CST			0	0	5K		Thunderstorm Wind
	Severe thunderstorm winds blew over trees and a television antenna in Malta Bend.								
Jackson County									
Grandview	29	2330CST			0	0			Thunderstorm Wind (G60)
	Thunderstorm winds gusted to 70 MPH at Richards-Gebaur Airport. Two Cessna 150 aircraft were damaged and another older model Cessna was almost completely destroyed.								
MISSOURI, Southeast									
New Madrid County									
Gideon	07	1630CST			0	0	5K		Thunderstorm Wind (G52)
	Trees and power lines were down.								
Cape Girardeau County									
Millersville	08	0918CST			0	0			Thunderstorm Wind (G50)
	Large tree limbs were blown down.								
Bollinger County									
Marble Hill to Scopus	08	0944CST			0	0			Thunderstorm Wind (G52)
	Trees were blown down.								
Scott County									
1 S Blodgett	08	1000CST			0	0			Thunderstorm Wind (G50)
	A couple of trees were down.								
Mississippi County									
3 NE Wyatt	08	1015CST			0	0			Thunderstorm Wind (G50)
	Scattered tree limbs were down.								
Cape Girardeau County									
Cape Girardeau	19	2120CST			0	0			Thunderstorm Wind (G52)
	Trees were blown down.								
Carter County									
Fremont	22	1615CST			0	0			Hail (0.75)
Butler County									
10 NW Poplar Bluff to Poplar Bluff	24	1330CST 1348CST			0	0	10K		Thunderstorm Wind
	Strong winds blew down trees. Several trees fell across Highway PP near Poplar Bluff, including one tree that hit a moving UPS truck. The truck's cab roof caved in, and the front window was broken, but the driver was uninjured. The highway was closed for 2 hours.								

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southeast									
Bollinger County									
Grassy to 7 S Marble Hill	24	1400CST 1410CST			0	0	10K		Thunderstorm Wind (G52)
									Trees were blown down, including one that fell through the roof of a mobile home. The roof was torn off a shed.
Stoddard County									
Bloomfield	24	1430CST			0	0			Thunderstorm Wind (G50)
									A tree was blown down.
Perry County									
Crosstown	24	1630CST			0	0			Thunderstorm Wind (G50)
									Scattered trees were blown down across the county.
MISSOURI, Southwest									
Barry County									
Monett	05	0448CST			0	0			Hail (0.88)
Jasper County									
Carthage	08	0415CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds downed large trees.
Newton County									
Redings Mills	08	0420CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed trees and power lines.
Lawrence County									
5 N Monett	08	0445CST			0	0	0	0	Thunderstorm Wind
									Thunderstorm winds downed large trees.
Cedar County									
Stockton	08	0459CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed trees and power lines.
Dade County									
Arcola	08	0512CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed trees and power lines.
Greene County									
Walnut Grove	08	0530CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed trees and power lines.
Cedar County									
2 S Stockton	08	0533CST 0535CST	0.2	50	0	0	50K	0	Tornado (F0)
									Brief tornado touchdown occurred in the south part of the city of Stockton tearing a roof of a hardware store off.
Vernon County									
Nevada	08	0545CST			0	0	0	0	Flash Flood
									2-4 inches of rain fell in a two-hour period resulting in flash flooding. Highway 71 just north of Nevada and Highway 54 between Nevada and Dederick were underwater.
Polk County									
Humansville	08	0550CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed trees and power lines throughout the city.
Dallas County									
6 E Buffalo	08	0608CST			0	0	15K	0	Thunderstorm Wind
									One house trailer was turned over by thunderstorm winds along Highway 32.
Laclede County									
Lebanon	08	0615CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed trees and power lines.
Hickory County									
3 N Flemington	08	0615CST			0	0	5K	0	Thunderstorm Wind
									Thunderstorm winds downed trees. One tree slightly damaged a house trailer.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Camden County Camdenton	08	0630CST			0	0	5K	0	Thunderstorm Wind
			Thunderstorm winds downed trees and power lines.						
Pulaski County Waynesville	08	0655CST			0	0	5K	0	Thunderstorm Wind
			Thunderstorm winds downed trees and power lines.						
Camden County Camdenton	08	0658CST			0	0	5K	0	Thunderstorm Wind
			Thunderstorm winds downed trees and power lines.						
Phelps County Edgar Springs	08	0700CST			0	0			Thunderstorm Wind
			Thunderstorm winds downed tree limbs.						
Texas County Licking	08	0710CST			0	0			Thunderstorm Wind
			Thunderstorm winds downed trees.						
Polk County 1 NE Humansville	08	0725CST			0	0			Thunderstorm Wind
			Thunderstorm winds downed large trees.						
Dent County Salem	08	0725CST			0	0	5K	0	Thunderstorm Wind
			Thunderstorm winds downed trees and power lines.						
Dent County Salem	08	0728CST			0	0	5K	0	Thunderstorm Wind
			Thunderstorm winds downed trees and power lines.						
Benton County Warsaw	21	0120CST			2	0	10K	0	Flash Flood
			Two young women drowned when their car was swept off a flooded low water bridge. The bridge was covered by 2 feet of water. The current took the car about a half-mile downstream. F17VE, F18VE						
Vernon County Walker	22	1630CST			0	0			Thunderstorm Wind (G52)
Cedar County El Dorado Springs	22	1700CST			0	0	20K	0	Thunderstorm Wind (G65)
			Thunderstorm winds blew part of the roof of Tri-County Bank off, and also blew many trees and power lines down.						
Barton County Lamar	22	1700CST			0	0			Thunderstorm Wind (G60)
			Dime size hail was also reported.						
St. Clair County Tiffin	22	1720CST			0	0			Thunderstorm Wind
			Thunderstorm winds blew trees down.						
Polk County Fair Play	22	1729CST			0	0			Thunderstorm Wind (G60)
Hickory County Weaubleau	22	1730CST			0	0			Thunderstorm Wind (G60)
			Thunderstorm winds blew large limbs down.						
Dade County Arcola	22	1743CST			0	0			Thunderstorm Wind
			Thunderstorm winds blew large limbs down.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Greene County Springfield	22	1750CST			0	0	10K	0	Thunderstorm Wind (G60) Thunderstorm winds downed trees and power lines throughout the city. About 10,000 people lost power for a short time.
Christian County Billings	22	1805CST			0	0	5K	0	Thunderstorm Wind Thunderstorm winds downed trees and power lines.
Webster County Marshfield	22	1806CST			0	0	5K	0	Thunderstorm Wind (G65) Thunderstorm winds downed trees and power lines throughout the county.
Dallas County Buffalo	22	1807CST			0	0			Thunderstorm Wind (G70) Thunderstorm winds downed trees along Highway 32 and FF.
Stone County Reeds Springs	22	1840CST			0	0	5K	0	Thunderstorm Wind Thunderstorm winds downed trees and power lines.
Taney County 5 W Branson	22	1840CST			0	0	5K	0	Thunderstorm Wind Thunderstorm winds downed power lines.
Wright County Hartville	22	1858CST			0	0			Thunderstorm Wind Thunderstorm winds downed trees in the south part of town.
Oregon County Greer	28	1427CST			0	0			Hail (0.88)
Vernon County Dederick	28	2305CST			0	0			Hail (0.75)
Dade County Arcola	28	2350CST			0	0			Thunderstorm Wind (G60)
Polk County 2 W Aldrich	29	0000CST			0	0	0	0	Thunderstorm Wind Thunderstorm winds downed large tree limbs.
Hickory County Weaubleau	29	0015CST			0	0	0	0	Thunderstorm Wind Thunderstorm winds downed trees.
Hickory County Weaubleau	29	0020CST			0	0			Hail (0.75)
Pulaski County Ft Leonard Wood	29	0200CST			0	0	5K	0	Hail (1.75) Large hail broke a car window.
Polk County Brighton	29	0200CST			0	0			Hail (0.75)
Phelps County 6 W Edgar Springs	29	0220CST			0	0			Hail (0.75)
Laclede County Falcon	29	0415CST			0	0			Hail (0.75)
Benton County Warsaw	29	0848CST			0	0	5K	0	Thunderstorm Wind Thunderstorm winds downed power lines.
Miller County Osage Beach	29	0915CST			0	0			Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSOURI, Southwest									
Hickory County Preston	29	0930CST			0	0			Thunderstorm Wind
			Thunderstorm winds downed trees.						
Camden County Sunrise Beach	29	0932CST			0	0			Thunderstorm Wind
			Thunderstorm winds uprooted trees.						
Morgan County Florence	29	1100CST			1	0	5K	0	Flash Flood
			A woman was killed while attempting to cross a low water water bridge over Haw Creek in her vehicle.						
			F4IVE						
McDonald County Lanagan	29	2130CST			0	0			Hail (0.75)
McDonald County 5 W Pineville	29	2158CST			0	0	5K	0	Thunderstorm Wind
			Thunderstorm winds downed power lines.						
Barry County Ridgley	29	2245CST			0	0			Hail (0.75)
Stone County Hurley	29	2345CST			0	0	5K	0	Thunderstorm Wind
			Thunderstorm winds downed power lines.						
MONTANA, Central									
Liberty County Tiber	02	1825MST			0	0			Hail (0.75)
Blaine County Chinook	02	2201MST			0	0			Thunderstorm Wind (G69)
Cascade County Cascade	04	1800MST			0	0			Hail (0.75)
Cascade County 8 W Great Falls	04	1830MST			0	0			Hail (0.75)
Hill County Havre	04	1850MST			0	0			Thunderstorm Wind (G52)
			Some small hail was also reported with this thunderstorm.						
Blaine County Harlem	17	1700MST			0	0			Thunderstorm Wind (G50)
			Strong winds from a thunderstorm completely destroyed an airport hanger at Harlem.						
Chouteau County Ft Benton	18	1500MST			0	0			Thunderstorm Wind (G50)
			Strong thunderstorm winds blew a large tree onto a parked car. There were no injuries or damage reported.						
Hill County Fresno	18	1550MST			0	0			Thunderstorm Wind (G61)
			A sailboat on Fresno reservoir was flipped over by sudden thunderstorm winds gusting to 70 mph. There were no injuries or damage reported. The time is estimated.						
Glacier County 6 N Cut Bank	26	2048MST			0	0			Hail (1.00)
			Widespread crop damage from large hail was reported north and northwest of Cut Bank. Some windows on building were also broken.						
Glacier County Santa Rita	26	2145MST			0	0			Hail (1.75)
Toole County 5 N Ethridge	26	2205MST			0	0			Hail (1.75)
MONTANA, East									
Richland County Savage	19	2202MST 2206MST			0	0			Thunderstorm Wind (G65)
			75 MPH THUNDERSTORM GUST KNOCKED DOWN SEVERAL LARGE, OLD, ELM AND COTTONWOOD TREES.						
Richland County Sidney	19	2215MST			0	0			Thunderstorm Wind (G60)
McCone County 15 W Brockway	19	2304MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, East</u>									
Mecone County Circle	19	2330MST 2335MST			0	0			Thunderstorm Wind (G70)
Mecone County 2 SE Circle	19	2345MST 2355MST			0	2	30K	100K	Hail (1.00)
STRONG THUNDERSTORM WINDS AND ONE INCH HAIL BATTERED A FARM SOUTHEAST OF CIRCLE. A LARGE PICTURE WINDOW WAS SHATTERED AND WHEAT WAS FLATTENED, 100% WHEAT LOSS WAS REPORTED IN SOME AREAS AROUND BROCKWAY AND CIRCLE.									
Sheridan County 10 SE Plentywood	27	1507MST			0	0			Thunderstorm Wind (G56)
Sheridan County 10 SE Plentywood	27	1514MST			0	0			Hail (1.75)
Sheridan County 10 SE Plentywood	27	1514MST			0	0			Thunderstorm Wind (G52)
Valley County 5 N Glasgow	27	1525MST			0	0			Thunderstorm Wind (G52)
Sheridan County 1 S Antelope	27	1545MST			0	0			Hail (1.00)
Sheridan County 13 S Plentywood	27	1550MST			0	0			Hail (0.75)
Roosevelt County 6 NW Bainville	27	1638MST			0	0			Thunderstorm Wind (G52)
Richland County 1 S Fairview	27	1720MST 1730MST			0	0			Thunderstorm Wind (G65)
SEVERE THUNDERSTORM WINDS IN COMBINATION WITH 3/4 TO ONE INCH HAIL PRODUCED DAMAGE JUST OUTSIDE FAIRVIEW, ND IN MONTANA. A TRAILER HOUSE WAS OVERTURNED AND TOSSED INTO THE SIDE OF A BUILDING ROLLING OVER A CHEVY BLAZER IN THE PROCESS. POWER LINES AND TREES WERE KNOCKED DOWN.									
<u>MONTANA, South</u>									
Stillwater County 8 W Absarokee	02	1600MST 1602MST			0	0			Hail (0.75)
Stillwater County Park City	02	1645MST 1646MST			0	0			Hail (0.75)
Yellowstone County 5 S Laurel	02	1725MST 1726MST			0	0			Hail (0.75)
Yellowstone County Worden	02	1815MST 1816MST			0	0			Thunderstorm Wind (G52)
Rosebud County Forsyth	02	2115MST 2116MST			0	0			Thunderstorm Wind (G55)
A wind gust in excess of 58 mph (estimated 55 kts) caused damage to a house and an airplane hangar. Damage costs unknown.									
Yellowstone County 11 W Billings	05	1553MST 1554MST			0	0			Hail (0.75)
Yellowstone County Billings	05	1608MST 1609MST			0	0			Hail (0.75)
Yellowstone County Shepherd	05	1610MST 1611MST			0	0			Hail (3.00)
Three inch diameter hail fell on Shepherd, a community about 10 miles northeast of Billings, causing damages to homes and businesses. Damage costs unknown.									
Yellowstone County Billings	05	1614MST 1615MST			0	0			Hail (0.75)
Yellowstone County Billings	05	1614MST 1615MST			0	0			Thunderstorm Wind (G52)
Carbon County Rockvale	05	1615MST 1616MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MONTANA, South									
Yellowstone County									
Lockwood	05	1618MST 1619MST			0	0			Hail (0.75)
Big Horn County									
St Xavier	05	1730MST 1731MST			0	0			Hail (0.75)
Big Horn County									
St Xavier	05	1730MST 1731MST			0	0			Thunderstorm Wind (G57)
Rosebud County									
Colstrip	05	1808MST 1809MST			0	0			Hail (1.75)
Rosebud County									
Colstrip	05	1814MST 1815MST			0	0			Hail (1.75)
Rosebud County									
Forsyth	05	1815MST 1816MST			0	0			Hail (1.00)
Big Horn County									
Busby	05	1830MST 1831MST			0	0			Hail (1.00)
One inch hail fell at Busby in Big Horn County causing damage to a home and school windows. Damage costs unknown.									
Rosebud County									
10 N Birney	05	1845MST 1846MST			0	0			Hail (1.75)
Powder River County									
2 NNW Sonnette	05	1924MST 1925MST			0	0			Hail (0.75)
Custer County									
Volberg	05	1930MST 1931MST			0	0			Hail (0.75)
Powder River County									
14 SE Broadus	05	1950MST 1951MST			0	0			Hail (1.75)
Carter County									
Alzada	05	2105MST 2106MST			0	0			Hail (0.75)
Carter County									
Alzada	05	2105MST 2106MST			0	0			Thunderstorm Wind (G52)
Rosebud County									
8 S Hathaway	20	2030MST 2031MST			0	0			Hail (0.75)
Musselshell County									
3 W Roundup	20	2050MST 2051MST			0	0			Hail (0.75)
Musselshell County									
10 S Roundup	20	2100MST 2101MST			0	0			Hail (1.00)
Dawson County									
Glendive	20	2130MST 2131MST			0	0			Thunderstorm Wind (G52)
Dawson County									
13 NW Glendive	20	2135MST 2136MST			0	0			Thunderstorm Wind (G52)
Prairie County									
11 S Mildred	20	2137MST 2138MST			0	0			Thunderstorm Wind (G52)
Wibaux County									
Wibaux	20	2230MST 2231MST			0	0			Thunderstorm Wind (G57)
Dawson County									
Richey	21	0025MST 0026MST			0	0			Thunderstorm Wind (G61)
Dawson County									
Bloomfield	21	0030MST 0032MST			0	0			Hail (1.00)
One inch sized hail fell at Bloomfield in Dawson County and caused heavy crop damage. Costs unknown.									
Prairie County									
11 S Mildred	21	0030MST 0031MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MONTANA, South</u>									
Wheatland County 8 S Harlowton	25	1550MST 1551MST			0	0			Hail (0.75)
Stillwater County 15 SW Ryegate	25	1610MST 1611MST			0	0			Hail (1.00)
One inch size hail fell about 15 miles southwest of Ryegate. Note: the event took place in Stillwater County, but Ryegate is the county seat of Golden Valley County.									
Treasure County 5 S Bighorn	25	1725MST 1726MST			0	0			Thunderstorm Wind (G52)
Yellowstone County Billings	25	1800MST 1801MST			0	0			Hail (0.75)
Big Horn County Lodge Grass	25	1900MST 1901MST			0	0			Thunderstorm Wind (G70)
A wind gust estimated at 80 miles an hour (70 kts) caused damage to a shed roof and two grain bins. Damage costs unknown.									
Wibaux County 5 W Wibaux	31	1500MST 1800MST			0	0			Flash Flood
Wibaux County 2 SW Wibaux	31	1520MST 1521MST			0	0			Thunderstorm Wind (G57)
A wind gust around 65 miles an hour (57kt) caused damage to a house 2 miles southwest of Wibaux. Damage costs unknown.									
Wibaux County 5 W Wibaux	31	1530MST 1531MST			0	0			Hail (0.75)
Wibaux County Carlyle	31	1655MST	0.1	4	0	0			Tornado (F0)
An (F0) tornado briefly touched down near Carlyle in Wibaux County briefly. It caused no damages.									
<u>MONTANA, West</u>									
Powell County Garrison	02	1445MST 1510MST			0	0			Heavy Rain
Dept. of State Lands reported to Powell County Sheriff that Garrison received between 1.00 and 1.50 inches of rain in one half hour.									
Lake County Finley Point	02	1820MST			0	0			Hail (1.00)
quarter sized hail									
Flathead County Whitefish	02	1845MST			0	0			Hail (1.00)
3/4 to 1 inch sized hail									
Flathead County 6 S Polebridge	02	1915MST			0	0			Hail (2.75)
baseball sized hail									
Flathead County Glacier Park	02	2110MST			0	0			Hail (1.75)
golf ball sized hail on camas road									
Flathead County Columbia Falls	02	2120MST			0	0			Hail (1.00)
one inch hail									
Beaverhead County Wisdom	29	1145MST 1205MST			0	0			Hail (1.00)
One inch diameter hail, and .50 inches of rain in a twenty minute period reported from the USFS at Wisdom.									
Silver Bow County 8 S Butte	29	1620MST 1633MST			0	0			Flash Flood
8 miles south of Butte, Little Basin Creek ran over its banks from heavy rainfall. Runoff from thunderstorm caused some county roads near the creek to wash out.									
<u>NEBRASKA, Central</u>									
Lincoln County 18 W North Platte	01	1724CST			0	0			Hail (1.75)
Lincoln County 27 W North Platte	01	1840CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Lincoln County 9 S Sutherland	01	1900CST			0	0			Hail (0.75)
Thomas County Thedford	02	1732CST			0	0	50K		Hail (1.75)
Thomas County 10 S Thedford	02	1745CST			0	0			Hail (0.88)
Thomas County Thedford	02	1750CST			0	0			Hail (1.00)
Mepherson County 4 SE Ringgold	03	1720CST			0	0			Hail (0.75)
Logan County 5 W Stapleton	03	1725CST			0	0			Hail (0.75)
Lincoln County 9 NE North Platte	03	1757CST			0	0			Hail (0.88)
Lincoln County (Lbf)Bird Fld North	03	1802CST			0	0			Thunderstorm Wind (G57)
Lincoln County 6 SE Maxwell	03	1830CST			0	0			Hail (1.00)
Frontier County 10 SW Eustis	03	1955CST			0	0			Hail (0.75)
Keith County 7 W Brule	05	1515MST			0	0			Hail (0.88)
Deuel County 5 N Big Springs	05	1518MST			0	0			Hail (1.00)
Perkins County 11 N Brandon	05	1610MST			0	0			Hail (0.88)
Cherry County 6 N Valentine	05	1914CST			0	0			Hail (0.75)
Cherry County 3 N Valentine	05	1925CST			0	0			Hail (1.75)
Cherry County 7 ESE Valentine	05	2030CST			0	0			Hail (1.75)
			LARGE TREE LIMBS BLOWN DOWN.						
Brown County 20 SW Ainsworth	05	2300CST			0	0			Hail (0.75)
Keya Paha County 5 NW Norden	06	0530CST			0	0			Hail (1.75)
Rock County 10 E Rose	06	1220CST			0	0			Hail (0.75)
Wheeler County Bartlett	06	1224CST			0	0			Hail (0.75)
Wheeler County 10 NW Bartlett	06	1225CST			0	0	30K		Thunderstorm Wind
			CENTER PIVOT IRRIGATION SYSTEM BLOWN OVER.						
Wheeler County 3 S Bartlett	06	1225CST			0	0			Hail (1.75)
Holt County 30 SSW Atkinson	06	1235CST			0	0			Hail (0.75)
Cherry County Merriman	07	1501MST			0	0			Hail (0.75)
Cherry County Merriman	07	1505MST 1506MST	0.1	20	0	0			Tornado (F0)
			SPOTTER REPORTED BRIEF TORNADO TOUCHDOWN NEAR MERRIMAN						
Cherry County 24 SW Valentine	07	1530MST 1532MST	0.1	20	0	0			Tornado (F0)
			TWO PUBLIC REPORTS OF BRIEF TORNADO TOUCHDOWN NEAR NORTH SHORE OF MERRITT RESERVOIR.						
Hooker County 15 S Mullen	07	1605MST			0	0			Hail (0.88)
Cherry County 25 SW Valentine	07	1610MST			0	0			Hail (1.00)
Hooker County Mullen	07	1630MST			0	0			Hail (0.88)

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July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Grant County Whitman	07	1700MST			0	0			Hail (0.75)
Cherry County 17 SW Wood Lake	07	1730CST			0	0			Hail (0.75)
Thomas County Seneca	07	1730CST			0	0			Hail (1.00)
Hooker County 12 S Mullen	07	1730MST			0	0			Hail (1.75)
Keith County Ogallala	07	1750MST			0	0			Hail (1.75)
Keith County 3 N Ogallala	07	1756MST			0	0			Hail (1.75)
Brown County 3 ENE Elsmere	07	1815CST			0	0			Hail (0.88)
Mcperson County Tryon	07	1830CST			0	0			Hail (1.75)
Arthur County 21 NE Arthur	07	1830MST			0	0			Hail (0.75)
Logan County 5 W Stapleton	07	1833CST			0	0			Hail (1.75)
Keith County 3 NE Paxton	07	1845MST			0	0			Hail (1.50)
Logan County 7 W Stapleton	07	1900CST			0	0			Hail (3.00)
Mcperson County 15 SE Tryon	07	1910CST			0	0			Hail (2.00)
Lincoln County 17 NW North Platte	07	1912CST 1913CST	0.1	20	0	0			Tornado (F0)
PUBLIC REPORTED BRIEF TORNADO TOUCHDOWN 17 NW NORTH PLATTE.									
Lincoln County Sutherland	07	1918CST			0	0			Hail (0.75)
Lincoln County 15 NNW North Platte	07	1925CST			0	0	15K		Hail (1.75)
WINDOWS ON NORTH SIDE OF HOUSE BLOWN OUT. MANY TREE LIMBS DOWN.									
Lincoln County 5 N North Platte	07	1933CST			0	0			Hail (1.00)
Lincoln County North Platte	07	1933CST			0	0			Thunderstorm Wind (G52)
EXTENSIVE TREE DAMAGE ACROSS THE CITY.									
Lincoln County North Platte	07	1948CST			0	0			Hail (1.00)
Lincoln County 10 SE Hershey	07	1950CST 1951CST	0.1	20	0	0			Tornado (F0)
SHERIFF REPORTED BRIEF TORNADO TOUCHDOWN.									
Lincoln County 4 W North Platte	07	1950CST			0	0			Thunderstorm Wind
EXTENSIVE TREE DAMAGE.									
Mcperson County 5 W Tryon	07	2000CST			0	0			Hail (1.75)
Custer County 4 N Comstock	07	2005CST			0	0			Hail (0.88)
Keith County 3 NE Paxton	07	2005MST			0	0			Hail (0.75)
Lincoln County 19 S North Platte	07	2014CST 2015CST	0	20	0	0			Tornado (F0)
PUBLIC REPORTED BRIEF TORNADO TOUCHDOWN.									
Lincoln County 12 N Curtis	07	2040CST			0	0	50K		Hail (2.00)
TREES BLOWN DOWN. WINDOWS IN HOUSE AND PICKUP BROKEN. ROOF AND SIDING DAMAGE.									
Frontier County Moorefield	07	2049CST			0	0			Hail (0.88)
Frontier County 4 E Moorefield	07	2100CST			0	0	0.10K	2M	Thunderstorm Wind (G90)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
A supercell thunderstorm moved southeast across northern frontier county causing extensive crop damage. The storm blew over grain bins, destroyed a greenhouse, blew down trees and destroyed crops.									
Frontier County Stockville	07	2105CST			0	0			Hail (0.75)
Hayes County 12 NE Hayes Center	07	2130CST			0	0			Hail (1.50)
Chase County 3 SW Wauneta	13	1725MST			0	0			Hail (1.00)
Garden County 15 NNE Oshkosh	15	1440MST			0	0			Hail (1.75)
Garden County Lewellen	15	1528MST			0	0			Thunderstorm Wind (G52)
Keith County 20 NW Ogallala	15	1545MST			0	0			Hail (0.75)
Keith County 6 NW Ogallala	15	1601MST			0	0			Thunderstorm Wind (G52)
Keith County 15 NW Ogallala	15	1610MST			0	0			Hail (0.88)
Perkins County 4 S Madrid	15	1715MST			0	0	100K	1.5M	Thunderstorm Wind (G76)
CENTER PIVOT IRRIGATION SYSTEM AND TWO GRAIN BINS DESTROYED. APPROXIMATELY 30,000 ACRES OF CORN DAMAGED.									
Lincoln County 8 S North Platte	15	1850CST			0	0			Thunderstorm Wind (G56)
Deuel County 3 NW Chappell	18	1945MST			0	0			Hail (0.75)
SEVERAL LARGE TREE LIMBS DOWN									
Perkins County 1 N Grant	18	2300MST			0	0		1M	Hail (0.75)
EXTENSIVE CROP DAMAGE FROM WIND DRIVEN HAIL.									
Sheridan County 11 S Hay Spgs	20	2110MST			0	0			Hail (1.75)
Sheridan County 25 SE Rushville	20	2205MST			0	0			Hail (0.88)
Logan County 15 N Stapleton	21	1855CST			0	0			Hail (1.00)
Logan County 9 N Stapleton	21	1905CST			0	0			Hail (2.50)
Logan County 4 S Stapleton	21	1920CST			0	0			Hail (0.75)
Logan County 3 S Gandy	21	1935CST			0	0			Hail (0.75)
Lincoln County 15 NE North Platte	21	2000CST			0	0			Hail (1.75)
Grant County 15 SE Hyannis	22	0445MST			0	0			Hail (0.88)
Mcperson County 17 W Tryon	22	0615CST			0	0			Hail (1.00)
Mcperson County 10 S Tryon	22	0715CST			0	0			Hail (0.75)
Lincoln County North Platte	22	0719CST			0	0			Hail (1.00)
Brown County 26 S Long Pine	22	0735CST			0	0			Hail (0.88)
Lincoln County North Platte	22	0740CST			0	0			Hail (1.75)
Rock County 30 SSW Bassett	22	0752CST			0	0			Hail (1.00)
Keith County 10 NW Brule	22	0815MST			0	0			Hail (1.00)
Deuel County 7 N Big Springs	22	0817MST			0	0			Hail (0.88)
Frontier County 4 E Moorefield	22	0830CST			0	0			Hail (1.75)
Frontier County 5 E Stockville	22	0844CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Perkins County Grant	22	0900MST			0	0			Hail (1.00)
Perkins County 4 NE Elsie	23	0750MST			0	0			Hail (0.88)
Lincoln County 3 W Wallace	23	0858CST			0	0			Hail (0.75)
Hayes County 13 NE Hayes Center	23	0925CST			0	0			Hail (0.75)
Keith County 1 N Ogallala	23	2350MST			0	0			Hail (0.88)
Lincoln County (Lbf)Bird Fld North	24	0026CST			0	0			Hail (1.00)
Keith County 4 NW Ogallala	24	0030MST			0	0			Hail (0.88)
Lincoln County 1 SW North Platte	24	0052CST			0	0			Hail (1.00)
Hooker County 18 SW Mullen	25	1330MST			0	0			Hail (2.75)
Hooker County 23 SW Mullen	25	1400MST			0	0			Hail (1.75)
Sheridan County 3 E Antioch	25	1404MST			0	0			Hail (1.75)
Grant County 18 S Whitman	25	1410MST			0	0			Hail (1.75)
Sheridan County 3 E Antioch	25	1410MST			0	0			Hail (0.75)
Lincoln County 11 NE North Platte	25	1425CST			0	0			Hail (0.75)
Garden County 7 S Antioch	25	1430MST			0	0			Hail (2.75)
Hooker County Mullen	25	1445MST			0	0			Hail (0.75)
Lincoln County 2 N Maxwell	25	1500CST			0	0			Hail (0.75)
Lincoln County 3 E Maxwell	25	1510CST			0	0			Hail (1.00)
Arthur County 13 E Arthur	25	1515MST			0	0			Hail (0.88)
Garden County 1 W Oshkosh	25	1520MST			0	0			Hail (0.88)
Lincoln County 6 S Brady	25	1529CST			0	0			Hail (1.75)
Mcperson County 23 WNW Tryon	25	1530CST			0	0			Hail (1.75)
Custer County 15 SW Callaway	25	1530CST			0	0		3.3K	Hail (1.75)
Keith County 18 NNW Paxton	25	1530MST			0	0		10.5 M	Hail (1.75)
A supercell thunderstorm moved southeast across eastern Keith county destroying crops in a 6 mile wide 18 mile long path.									
Keith County 2 NE Roscoe	25	1535MST			0	0			Thunderstorm Wind (G65)
Keith County Paxton	25	1535MST			0	0			Hail (1.25)
Garden County 2 N Lisco	25	1538MST			0	0		200K	Hail (2.00)
Mcperson County 30 WSW Tryon	25	1550CST			0	0			Hail (2.75)
Keith County Paxton	25	1553MST			0	0			Hail (1.00)
Hayes County 11 SW Hayes Center	25	1600CST			0	0			Hail (1.50)
Perkins County 15 NNE Elsie	25	1600MST			0	0		300K	Hail (0.75)
Garden County 2 NNW Lisco	25	1605MST			0	0			Hail (2.50)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Deuel County 2 NW Chappell	25	1606MST	0.1	20	0	0			Tornado (F0)
									LAW ENFORCEMENT REPORTED A BRIEF TORNADO TOUCHDOWN.
Lincoln County Sutherland	25	1615CST			0	0	100K		Hail (2.50)
Keith County 8 SSE Paxton	25	1630MST			0	0	50K		Thunderstorm Wind (G70)
									LARGE FUEL TANKS BLOWN OVER. LARGE TREE LIMBS DOWN.
Lincoln County 30 SE North Platte	25	1635CST			0	0			Hail (2.75)
Deuel County 6 NNE Chappell	25	1640MST			0	0	100K		Hail (1.75)
Lincoln County 4 S Sutherland	25	1645CST			0	0			Hail (1.75)
Chase County 16 S Elsie	25	1645MST			0	0			Hail (0.88)
Frontier County Curtis	25	1705CST			0	0			Hail (1.00)
Frontier County 3 SE Curtis	25	1740CST			0	0			Hail (2.75)
Lincoln County 5 S Wallace	25	1800CST			0	0			Hail (0.75)
Hayes County Hayes Center	25	1820CST			0	0			Hail (0.88)
Sheridan County 9 W Whiteclay	26	1600MST			0	0			Hail (1.50)
Sheridan County 8 N Rushville	26	1615MST			0	0			Hail (1.75)
Sheridan County 10 S Rushville	26	1705MST			0	0			Hail (1.75)
Sheridan County 1 W Bingham	26	1800MST			0	0			Hail (0.88)
									HAIL SEVERAL INCHES DEEP. LARGE TREES BLOWN DOWN.
Garden County 6 S Bingham	26	1800MST			0	0	25K		Hail (1.75)
									POWER LINES DOWN. LARGE TREE LIMBS DOWN. WINDOWS BROKEN OUT.
Grant County 17 SW Hyannis	26	1830MST			0	0			Thunderstorm Wind (G55)
									LARGE TREE LIMBS DOWN.
Arthur County 10 NW Arthur	26	1830MST			0	0			Hail (2.00)
Keya Paha County 14 NW Springview	26	1845CST			0	0			Hail (1.75)
Brown County 8 N Ainsworth	26	1930CST			0	0			Hail (1.75)
Logan County 14 NW Stapleton	26	2000CST			0	0			Hail (1.50)
Blaine County 6 E Dunning	26	2008CST			0	0			Hail (1.75)
Blaine County Brewster	26	2015CST			0	0			Hail (1.75)
Brown County 18 S Long Pine	26	2030CST			0	0			Hail (0.88)
Loup County 11 NNE Taylor	26	2100CST			0	0			Hail (1.75)
Garfield County 10 N Burwell	26	2123CST			0	0			Hail (1.75)
Rock County 3 N Rose	26	2330CST			0	0			Hail (0.75)
Rock County 5 W Rose	26	2330CST			0	0			Hail (1.00)
Loup County 6 NNE Taylor	27	0025CST			0	0			Hail (0.75)
Custer County 3 N Sargent	27	0050CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, Central									
Arthur County 13 E Arthur	27	2325MST			0	0			Hail (0.75)
Keith County 5 W Keystone	27	2345MST			0	0			Hail (1.00)
Cherry County 5 N Brownlee	28	1645CST			0	0			Hail (0.75)
Chase County 6 SW Enders	28	1740MST			0	0			Hail (1.00)
Blaine County 10 S Brewster	28	1745CST			0	0			Hail (1.75)
Custer County Milburn	28	1810CST			0	0			Hail (0.88)
Custer County Merna	28	1830CST			0	0			Hail (0.88)
Custer County 3 E Broken Bow	28	1855CST			0	0			Hail (1.00)
Custer County 4 S Berwyn	28	1917CST			0	0			Hail (1.50)
NEBRASKA, East									
Antelope County Clearwater	01	1740CST			0	0			Hail (1.75)
Pierce County 3.5 NW Pierce	01	1742CST			0	0			Funnel Cloud
Pierce County Osmond to 4 NE Pierce	01	1745CST 1800CST			0	0		1M	Hail (1.75)
									Significant crop damage was reported from Osmond to northeast of Pierce due to large hail.
Pierce County Plainview	01	1752CST	0.1	5	0	0	120K		Tornado (F0)
									Brief tornado touchdown reported near Plainview with severe damage to a farm.
Pierce County 4 NE Pierce	01	1805CST	0.1	5	0	0	3K		Tornado (F0)
									Brief tornado touchdown reported near highway 81 and highway 98. Damage was done to a garage.
Antelope County Elgin	01	1827CST			0	0	200K		Hail (1.75)
Madison County Norfolk	01	1836CST 1848CST			0	0	30K		Thunderstorm Wind (G61)
									Thunderstorm winds took the roof off a maintenance building. Several trees were downed.
Stanton County .1 N Stanton	01	1845CST			0	0			Hail (1.00)
Boone County 9 NE Albion	01	1855CST			0	0			Hail (1.00)
Stanton County 7 S Stanton	01	1910CST			0	0			Thunderstorm Wind (G52)
Douglas County Omaha	03	2310CST			0	0			Hail (0.75)
Thurston County Winnebago	04	0003CST			0	0			Hail (0.75)
Richardson County 2 E Salem	04	0610CST			0	0	800K		Hail (0.75)
									An area three to four miles wide and nine miles long received hail damage, some of which was a loss of 100%.
Richardson County 1.5 S Dawson to 2 S Dawson	04	0615CST	0.5	30	0	0	10K		Tornado (F0)
									A tornado damaged a grain bin, barn, uprooted trees, and a tree fell on a house.
Sarpy County Gretna	16	1215CST			0	0	10K		Lightning
									Lightning struck Gretna City Hall and did damage to phones and computers.
Cuming County West Pt	16	1400CST			0	0	10K		Lightning
Cedar County Laurel	16	1400CST			0	0	30K		Lightning
									Lightning destroyed a barn and its contents.
Boone County Albion	16	1640CST			0	0			Thunderstorm Wind (G56)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, East									
Boone County									
2 W St Edward	16	1649CST			0	0	100K		Hail (1.75)
Platte County									
3 W Platte Center	16	1730CST			0	0			Hail (1.75)
Platte County									
2 SW Monroe to Monroe	16	1730CST 1810CST	2	30	0	0	4K		Tornado (F0)
A tornado was reported by spotters. A large grain bin was blown over and power lines were downed.									
Cedar County									
Laurel	16	1730CST			0	0			Thunderstorm Wind (G52)
Cedar County									
Coleridge	16	1735CST			0	0			Hail (0.75)
Platte County									
Monroe	16	1745CST			0	0	5.2M		Hail (2.75)
Baseball sized hail did significant damage to crops.									
Platte County									
Columbus	16	1804CST			0	0	10K		Thunderstorm Wind (G52)
Platte County									
Columbus	16	1825CST			0	0			Hail (1.75)
Platte County									
Columbus	16	1825CST 2300CST			0	0	2M		Flash Flood
Locally 5.5 inches of rain fell in southeast Platte County in a short 1 1/2 hour period. Numerous fields flooded with damage estimated at 2 million dollars.									
Butler County									
Bellwood	16	1835CST			0	0			Hail (1.75)
Butler County									
Bellwood	16	1836CST			0	0			Funnel Cloud
Thurston County									
Rosalie	16	1940CST			0	0			Hail (1.00)
Thurston County									
Rosalie	16	1940CST			0	0			Thunderstorm Wind (G52)
Knox County									
Crofton	16	2000CST			0	0			Hail (0.88)
Cedar County									
Coleridge	16	2045CST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds took the roof off a machine shed and damaged other sheds.									
Knox County									
Crofton	16	2119CST			0	0	25K	100K	Hail (1.00)
NEZ012									
Cedar	16 17	2200CST 1800CST			0	0	1M		Flood
Heavy rains from 6 to 10 inches fell over northern Cedar County. The flooding lead to three dozen bridges being washed away, and two to three dozen roads being closed.									
Otoe County									
Unadilla	19	1445CST			0	0			Hail (1.00)
Johnson County									
Tecumseh	19	1500CST			0	0			Hail (0.75)
Johnson County									
Tecumseh	19	1500CST			0	0			Thunderstorm Wind (G52)
Platte County									
Creston	22	0900CST			0	0	5K		Thunderstorm Wind (G61)
Sarpy County									
Gretna	22	1108CST			0	0			Thunderstorm Wind (G52)
Douglas County									
Omaha	22	1118CST			0	0			Thunderstorm Wind (G52)
Knox County									
Niobrara	26	2235CST			0	0			Hail (1.75)
Antelope County									
Neligh	26	2320CST			0	0			Thunderstorm Wind (G52)
Thurston County									
Walthill	27	1630CST			0	0			Hail (1.00)
Dodge County									
8 NW North Bend	27	1833CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
NEBRASKA, East									
Sarpy County									
Offutt Afb	27	2345CST			0	0	800K	1.8M	Hail (1.50)
	28	0000CST							
An isolated severe thunderstorm developed over parts of Douglas and Sarpy Counties. Nearly \$300,000 damage was done by hail to aircraft and vehicles at Offutt Air Force Base. 3,000 to 5,000 acres of corn and soybeans were also lost. Numerous reports of damage to cars, homes, and businesses.									
Douglas County									
Ralston	27	2345CST			0	0	50K		Thunderstorm Wind (G62)
Several trees were downed in Ralston due to thunderstorm winds.									
Sarpy County									
Offutt Afb	28	0000CST			0	0			Thunderstorm Wind (G59)
Cass County									
Plattsmouth	28	1205CST			0	0	1M	250K	Hail (1.50)
Thunderstorms producing large hail resulted in over 1,000 claims of damage to vehicles and homes in the Plattsmouth area.									
Lancaster County									
Raymond	29	0230CST			0	0			Hail (0.75)
NEBRASKA, Extreme Northeast									
Dixon County									
5 N Dixon to Emerson	16	1800CST 1830CST			0	0	200K		Thunderstorm Wind (G62)
Thunderstorm winds caused widespread tree and power line damage, with scattered damage to buildings also reported.									
Dakota County									
Willis to 5 SE Homer	16	1800CST 1830CST			0	0	300K		Thunderstorm Wind (G67)
Thunderstorm winds caused tree and power line damage, destroyed farm buildings, and caused scattered damage to homes. The thunderstorm winds affected most of Dakota County.									
Dakota County									
South Sioux City	16	1815CST			0	0	5K		Lightning
Lightning damaged an electrical substation and caused a power outage over much of South Sioux City.									
Dixon County									
1 S Newcastle to Martinsburg	16	2030CST 2110CST			0	0	200K		Thunderstorm Wind (G58)
Thunderstorm winds caused widespread tree damage and also damaged power lines and some buildings.									
Dixon County									
1 S Newcastle to Martinsburg	16	2030CST 2110CST			0	0	100K	2M	Hail (1.75)
Large hail caused widespread crop damage.									
Dakota County									
South Sioux City to Homer	16	2105CST 2200CST			0	0	3M	3M	Thunderstorm Wind (G70)
Thunderstorm winds caused widespread damage over most of Dakota county. The winds caused widespread tree damage, blew down power lines and poles, destroyed many farm buildings, and damaged many homes. Livestock loss resulted from some of the destroyed farm buildings. Crops were also damaged, although most of the crop damage was attributed to accompanying large hail.									
Dakota County									
South Sioux City to Homer	16	2105CST 2200CST			0	0	500K	22M	Hail (1.75)
Large hail caused devastating crop damage in much of Dakota County with many crops totally destroyed. Very strong winds and heavy rain contributed to the damage. An estimated half of the county's 64,300 acres of corn was wiped out with about half of the remaining corn acreage sustaining damage. About a third of the county's 52,200 acres of beans were wiped out while most of the remaining bean acreage sustained varying damage. Smaller crops also suffered extensive damage. The hail also caused damage to vehicles and buildings.									
Dixon County									
5 W Newcastle to Ponca	16 17	2115CST 0200CST			0	0	500K		Flash Flood
Heavy rains of 6 to 10 inches caused flash flooding of roads and lowlands with no travel advised by local authorities. Several motorists were stranded and had to be rescued during the early morning hours. Basement flooding was widespread. Crop damage was suspected but could not be separated from damage caused by widespread hail from the same storm.									
Dakota County									
7 N Jackson to Homer	16 17	2120CST 0300CST			0	0	1M		Flash Flood
Heavy rain of 6 to 10 inches caused flash flooding of lowlands and creeks in northern and eastern Dakota County. Roads were closed by the flooding with damage occurring to some roads. Several motorists were stranded and had to be rescued during the early morning hours. Basement flooding also was widespread with resulting damage. Flooding of cropland may have damaged crops, but any damage caused by flooding could not be separated from extensive hail damage which occurred with the storm.									
Dakota County									
1 S Jackson to 3 NW Hubbard	16	2200CST 2205CST	3	100	0	0	50K		Tornado (F0)
A tornado destroyed farm buildings.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, Extreme Northeast</u>									
Dakota County 3 S Dakota City	27	1620CST			0	0	5K		Hail (1.00)
		Hail broke a few windows.							
Dakota County 1 S Dakota City	27	1625CST			0	0	5K		Thunderstorm Wind (G50)
		Thunderstorm winds caused tree damage.							
<u>NEBRASKA, Extreme Southwest</u>									
Dundy County 6 NW Parks	13	1704MST			0	0			Hail (1.00)
Dundy County Benkelman	15	1816MST			0	0			Thunderstorm Wind (G52)
		TREE BRANCHES DOWN.							
Hitchcock County 3 W Stratton	15	1905CST			0	0			Thunderstorm Wind (G57)
		TREE BRANCHES 2 INCHES IN DIAMETER DOWN.							
Hitchcock County 4 W Stratton	15	1955CST			0	0			Funnel Cloud
Red Willow County 3.5 E Danbury	23	1520CST			0	0			Thunderstorm Wind (G52)
Hitchcock County 9 N Trenton	25	1650CST			0	0			Hail (0.88)
Red Willow County 1 E Mc Cook	25	1755CST			0	0			Hail (1.75)
Red Willow County 10 NE Mc Cook	25	1813CST			0	0			Funnel Cloud
Red Willow County 8 NW Danbury	25	1825CST 1835CST			0	0			Hail (1.75)
Hitchcock County Beverly	25	1900CST			0	0			Hail (1.00)
Dundy County Benkelman	28	1843MST			0	0			Hail (2.50)
Dundy County Benkelman	28	1850MST			0	0			Hail (1.75)
Hitchcock County 9 N Trenton	28	1930CST			0	0			Hail (0.88)
Hitchcock County Trenton	28	2009CST			0	0			Hail (0.75)
Hitchcock County Trenton	28	2009CST			0	0			Thunderstorm Wind (G52)
<u>NEBRASKA, South Central</u>									
Furnas County Edison	03	2145CST			0	0	180K	600K	Thunderstorm Wind (G90)
		Downburst winds on the back side of a severe thunderstorm caused tree and property damage in Edison. Two mobile homes suffered damage, a semi tanker was overturned and an electrical substation was completely destroyed. Considerable crop damage was incurred from the high wind and small hail in the Edison area.							
Buffalo County 7 N Kearney	06	1523CST			0	0	5K	150K	Hail (1.50)
Buffalo County 2 N Kearney	06	1528CST			0	0	5K	75K	Hail (1.00)
Buffalo County Kearney	06	1531CST			0	0	30K	30K	Hail (2.75)
Buffalo County Kearney	06	1541CST			0	0	5K		Hail (1.00)
Kearney County 1 W Newark	06	1551CST			0	0		40K	Hail (1.00)
Franklin County Franklin	06	1715CST			0	0	5K	20K	Hail (1.00)
		Thunderstorms moved south into Buffalo county dropping hail up to the size of baseballs on the east side of Kearney. The storms weakened some after moving south of Kearney, but still managed to produce 1.00 diameter hail in Franklin before dissipating.							
Phelps County Loomis	07	1914CST			0	0	10K	1M	Hail (1.75)
Phelps County Holdrege	07	1920CST			0	0	50K	1M	Hail (2.00)
Phelps County Funk	07	1930CST			0	0	10K	1M	Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Harlan County									
6 N Republican City	07	2020CST			0	0	100K		Hail (0.75)
Franklin County									
1 N Naponee	07	2021CST	0.3	20	0	0	100K		Tornado (F0)
Franklin County									
Various Locations	07	2025CST 2040CST			0	0	20K	3M	Thunderstorm Wind (G55)
Hall County									
3 NE Cairo	07	2100CST			0	0	40K	1M	Thunderstorm Wind (G80)
Hamilton County									
Aurora	07	2140CST			0	0	10K	50K	Thunderstorm Wind (G60)
Furnas County									
1 N Arapahoe	07	2142CST			0	0	25K	25K	Thunderstorm Wind (G55)
Phelps County									
Holdrege	07	2210CST			0	0	5K	25K	Thunderstorm Wind (G60)
Kearney County									
Axtell	07	2220CST			0	0	25K		Thunderstorm Wind (G70)
Franklin County									
Hildreth	07	2221CST			0	0	25K		Thunderstorm Wind (G60)
Thayer County									
Davenport	07	2230CST			0	0	5K	25K	Thunderstorm Wind (G75)
Thunderstorms developed near Holdrege and moved eastward across the area. The storms produced mainly very strong winds to near 90 mph and hail up to 2 inches in diameter. One tornado briefly touched down near Naponee in open country. A house near Cairo had its front porch ripped off by very strong winds. Crops in the Holdrege area sustained considerable damage.									
Harlan County									
Republican City	15	2150CST			0	0	5K		Thunderstorm Wind (G60)
Nance County									
4 NW Genoa	16	1717CST	0.2	20	0	0	50K		Tornado (F0)
A severe thunderstorm moved across northern Nance county and produced a brief touchdown by a weak tornado in open country.									
Nuckolls County									
4 E Superior	18	2245CST			0	0	80K		Lightning
Lightning struck the corner of a machine shed near an electrical box. The resulting fire destroyed the shed and all its contents. A car parked next to the building was also destroyed.									
Dawson County									
3 W Gothenburg	22	0806CST			0	0	10K	20K	Hail (1.00)
Dawson County									
3 E Gothenburg	22	0812CST			0	0	10K	30K	Hail (0.75)
Phelps County									
6 N Holdrege	22	0920CST			0	0	15K	30K	Thunderstorm Wind (G55)
Furnas County									
Edison	22	0925CST			0	0	30K		Hail (0.75)
Kearney County									
2 W Axtell	22	0935CST 0940CST			0	0	5K	100K	Thunderstorm Wind (G60)
Franklin County									
Hildreth	22	0950CST			0	0	25K	50K	Thunderstorm Wind (G55)
Webster County									
Red Cloud	22	1015CST			0	0	70K	50K	Thunderstorm Wind (G70)
Morning thunderstorms moved across southern Nebraska resulting in some property and crop damage. Damage to the computer room was incurred at the Gothenburg High School. A grain bin was moved from its base north of Inavale and a portion of a roof torn off from a business in downtown Red Cloud.									
Phelps County									
Loomis	27	2355CST			0	0	5K	75K	Hail (1.75)
Gosper County									
Elwood	28	0235CST			0	0	5K	10K	Hail (0.75)
Buffalo County									
Amherst	28	2012CST			0	0	20K	100K	Hail (0.75)
Buffalo County									
3 E Elm Creek	28	2035CST			0	0	5K	20K	Hail (1.75)
Buffalo County									
Odessa	28	2040CST			0	0	50K	100K	Hail (2.50)
Furnas County									
Arapahoe	28	2120CST			0	0	5K	25K	Hail (1.75)
A complex of severe thunderstorms moved into western Buffalo county bringing hail to size of tennis balls. Pockets of minor crop damage resulted.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEBRASKA, South Central									
Hall County									
Alda	29	0030CST			0	0	2K	20K	Hail (1.75)
Hall County									
4 S Grand Is	29	0100CST 0200CST			0	0	5K	30K	Hail (2.00)
Merrick County									
Chapman	29	0100CST			0	0	5K	50K	Hail (2.00)
Hamilton County									
Aurora	29	0114CST			0	0	10K	50K	Hail (1.75)
Late night severe thunderstorms moved east from Hall in the Hamilton and Merrick counties leaving large hail and producing winds gusts near 60 mph. A lightning strike near a mobile home in Aurora caused a small electrical fire resulting in minor damage to the home.									
NEBRASKA, West									
Dawes County									
25 Sw Chadron	04	1800MST 2000MST			0	0			Flash Flood
Heavy rain caused minor flooding in southwest Dawes county. Water was flowing over some of the roads in the area.									
Kimball County									
Kimball	04	1800MST 2000MST			0	0			Urban/Sml Stream Fld
Heavy rainfall from thunderstorms in and near Kimball caused some some urban flooding.									
Kimball County									
11 SW Bushnell	06	2027MST 2030MST			0	0			Hail (1.75)
Kimball County									
11 SW Bushnell	06	2027MST 2030MST			0	0			Thunderstorm Wind (G54)
Kimball County									
4 N Bushnell to 15 NW Potter	13	1520MST 1600MST			0	0			Hail (0.50)
Hail caused considerable crop damage in an area from north of Bushnell to 15 miles northwest of Potter. The swath of hail was 6 miles wide.									
Cheyenne County									
Potter	13	1650MST 1655MST			0	0			Funnel Cloud
Several funnel clouds were observed near Potter.									
Cheyenne County									
2 E Potter to Sidney	13	1820MST 1850MST			0	0	400K		Hail (0.50)
Hail further damaged crops in an area from just east of Potter to near the Cheyenne county line.									
Cheyenne County									
Potter	13	1820MST 1830MST			0	0	15K		Thunderstorm Wind
Strong thunderstorm winds blew over a semi tractor-trailer near Potter.									
Cheyenne County									
Sidney	15	1530MST 1535MST			0	0			Hail (1.75)
Dawes County									
1 W Ft Robinson	25	1306MST 1311MST			0	0			Hail (1.75)
Box Butte County									
25 W Alliance to 24 W Alliance	25	1413MST 1418MST	1	100	0	0			Tornado (F0)
Banner County									
3 SE Harrisburg to 8 NE Harrisburg	25	1430MST 1500MST			0	0			Hail (1.50)
Between 330PM and 400PM, three quarter inch to one and one half inch diameter hail fell in the Harrisburg area.									
Scotts Bluff County									
Scottsbluff	25	1525MST 1527MST			0	0			Hail (0.75)
Scotts Bluff County									
4 N Minatare to 5 SW Mc Grew	25	1528MST 1555MST	8	150	0	0			Tornado (F0)
Morrill County									
Bayard	25	1558MST 1605MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, West</u>									
Cheyenne County Sidney	25	1620MST 1624MST			0	0			Thunderstorm Wind (G61)
Kimball County 14 SW Kimball	26	1600MST 1606MST			0	0			Thunderstorm Wind (G52)
Kimball County Bushnell	26	1608MST 1615MST			0	0			Funnel Cloud
Kimball County 2 S Bushnell	26	1621MST 1626MST			0	0			Thunderstorm Wind (G52)
Kimball County 5 S Dix to 2 S Dix	26	1700MST 1713MST			0	0			Hail (1.75)
			Hail, up to one and three quarters of an inch fell in a path from 5 miles south of Dix to 2 miles south of Dix.						
Cheyenne County Sidney	26	1725MST 1730MST			0	0			Thunderstorm Wind (G51)
Box Butte County 15 W Hemingford	27	2030MST 2034MST			0	0			Hail (1.00)
Dawes County 10 S Chadron	28	1517MST 1522MST			0	0			Hail (1.75)
Scotts Bluff County Henry	28	1545MST 1550MST			0	0			Hail (0.75)
Scotts Bluff County Lyman	28	1549MST 1555MST			0	0			Hail (1.75)
Scotts Bluff County 15 S Morrill	28	1615MST 1628MST			0	0			Hail (1.75)
Cheyenne County Sidney	28	1725MST 1730MST			0	0			Thunderstorm Wind (G51)
Cheyenne County 1 SE Sidney	28	1735MST 1744MST			0	0			Hail (0.75)
Banner County 6 NE Albin	30	1815MST 1824MST			0	0			Thunderstorm Wind (G52)
Kimball County 12 SW Kimball	30	1940MST 2030MST			0	0			Urban/Sml Stream Fld
			Heavy rainfall caused two to three inches of water running over rural roads in southwest Kimball County.						
<u>NEVADA, North</u>									
Elko County West Wendover	16	1100PST 1200PST			0	0			Urban/Sml Stream Fld
			WEST WENDOVER POLICE REPORTED WATER OVER SECONDARY ROADS.						
Eureka County Eureka	28	1330PST 1331PST			0	0			Thunderstorm Wind (G68)
			MICROBURST WINDS BLEW OVER A 50 FOOT TREE, BLEW ROOF OFF FARM OUT-BUILDING, AND BLEW BALES OF HAY FROM TOP OF HAYSTACK IN DIAMOND VALLEY, 12 MILES NORTHEAST OF EUREKA.						
Elko County Elko	28	1447PST 1530PST			0	0			Urban/Sml Stream Fld
			STREET FLOODING IN CITY OF ELKO DUE TO HEAVY RAINS OF 1.25" IN LESS THAN ONE HOUR.						
Elko County Elko	28	1500PST 1700PST			0	0			Flash Flood
			HOT CREEK 40 MILES NORTHEAST OF ELKO OUT OF BANKS DUE TO HEAVY RAINS OF 1.08" IN LESS THAN 2 HOURS.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEVADA, North									
Elko County									
Wells	28	1500PST 1700PST			0	0			Flash Flood
			DITCHES AND CULVERTS OVERFLOWING DUE TO HEAVY RAINS OF 1.65" IN ONE HOUR AT CLOVER VALLEY 30 MILES EAST OF ELKO.						
NEVADA, South									
Clark County									
30 NW (Las)Mccarran/Las Ve	10	1145PST 1150PST			0	0			Hail (0.75)
			Dime size hail was reported in Lee Canyon which is in the Spring Mountains west of Las Vegas.						
Clark County									
Henderson	10	1520PST 1530PST			0	0	75K		Thunderstorm Wind
			Microburst winds, estimated at over 60 mph, swept through the vicinity of Black Mountain Golf Course downing many mature trees and several power poles. At least two homes lost parts of their roofs and numerous homes lost shingles or roof tiles. Also, three new homes being framed were knocked down along with several fences and signs.						
Clark County									
(Lsv)Nellis Afb Las	10	1907PST			0	0			Thunderstorm Wind (G54)
			Thunderstorm wind gusts to 62 mph were recorded at Nellis AFB.						
Clark County									
25 NW (Las)Mccarran/Las Ve	11	1600PST			0	1			Lightning
			A young woman using an outdoor shower at a Girl Scout Camp sustained minor injuries when lightning struck nearby.						
Clark County									
25 NW Las Vegas Mc Carran	14	1000PST 1200PST			0	1	10K		Flash Flood
			Heavy thunderstorm rains in Kyle Canyon caused flash flooding which injured and trapped a hiker. Also, numerous rock and mud slides blocked and damaged some roads.						
Clark County									
25 NW Las Vegas	14	1210PST 1220PST			0	0			Hail (0.75)
			Dime size hail was reported in Kyle Canyon.						
Clark County									
Henderson	14	1410PST 1500PST			0	0			Flash Flood
			Heavy rain showers caused flash flooding of roads in Henderson's Green Valley area.						
Clark County									
Mead Lake	14	1555PST			0	0			Thunderstorm Wind (G53)
			A 61 mph thunderstorm gust was recorded at Echo Bay on Lake Mead. No damage was reported.						
Lincoln County									
Caliente	15	1325PST			0	0			Hail (0.75)
			The Lincoln County Sheriff reported 3/4 inch hail.						
Lincoln County									
Caliente	15	1330PST 1430PST			0	0			Flash Flood
			A road in Caliente was washed out by runoff from heavy rains.						
Clark County									
Henderson	15	1350PST 1400PST			0	0	15K		Thunderstorm Wind
			Thunderstorm winds damaged at least one roof and downed a few trees in the Green Valley area of Henderson.						
Lincoln County									
Caliente	15	1600PST 1730PST			0	0	250K		Flash Flood
			Persistent strong to severe thunderstorms over the Clover Mountains east of Caliente resulted in high runoff levels which filled a retention basin in the Clover Creek drainage. Consequently, the basin failed and sent water, mud and debris down Caliente's Clover Street flooding homes and businesses and washing at least three cars away. No deaths or injuries occurred.						
Clark County									
Mead Lake	26	1915PST 1945PST			0	0	25K		Thunderstorm Wind
			Strong thunderstorm winds swamped and/or damaged several house boats in the Overton Arm of Lake Mead.						
Clark County									
(Lsv)Nellis Afb Las	26	2130PST			0	0			Thunderstorm Wind (G50)
			A 58 mph gust was recorded at Nellis Air Force Base from a nearby thunderstorm. No damage was reported.						
Clark County									
Las Vegas	28	1300PST 1345PST			0	0	100K		Heavy Rain
			Heavy downpours from a thunderstorm which moved over the southeast part of the Las Vegas Valley produced local street flooding and resulted in the collapse of a warehouse store roof. No injuries occurred.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEVADA, South									
Clark County									
Las Vegas	28	1345PST			0	0			Hail (0.75)
			A weather spotter in the Summerlin area of Las Vegas reported 3/4 inch hail.						
Clark County									
(Lsv)Nellis Afb Las	28	1355PST			0	0			Thunderstorm Wind (G50)
			Nellis AFB recorded a thunderstorm gust of 58 mph.						
NEVADA, West									
			NONE REPORTED.						
NEW HAMPSHIRE, North and Central									
Belknap County									
Laconia	04	1100EST 1400EST			0	0	10K		Flash Flood
			Isolated thunderstorms dropped up to 5 inches of rain in Laconia. People were stranded in their cars and had to be rescued. Roads were washed out and a section of railroad bed was destroyed.						
Carroll County									
Brookfield	08	1250EST			0	0			Hail (0.75)
			A severe thunderstorm produced 3/4 inch hail in the Brookfield area.						
Carroll County									
Brookfield	08	1250EST			0	0			Thunderstorm Wind
			Winds from a severe thunderstorm knocked over trees in the Brookfield area.						
Merrimack County									
Pembroke	08	1515EST			0	0			Thunderstorm Wind
			Winds from a severe thunderstorm knocked over trees in the pembroke area.						
Merrimack County									
Concord	08	1518EST			0	0			Hail (1.00)
			A severe thunderstorm produced 1 inch hail in the Concord area.						
Merrimack County									
Concord	08	1518EST			0	0			Thunderstorm Wind
			Winds from a severe thunderstorm knocked over trees in the Concord area.						
Merrimack County									
Epsom	08	1530EST			0	0			Thunderstorm Wind
			Winds from a severe thunderstorm knocked down trees in the Epsom area.						
Merrimack County									
West Concord	08	1649EST			0	0			Thunderstorm Wind
			Winds from a severe thunderstorm knocked over trees in the West Concord area.						
Merrimack County									
Bow	08	1700EST			0	0			Thunderstorm Wind
			Winds from a severe thunderstorm knocked over trees in the Bow area.						
Merrimack County									
Concord	08	1700EST			0	0			Thunderstorm Wind
			Winds from a severe thunderstorm knocked over trees in the Concord area.						
Merrimack County									
Penacook	08	1700EST			0	0			Hail (1.00)
			A severe thunderstorm produced 1 inch hail to a depth of 4 inches in the Penacook area.						
Belknap County									
Gilford	09	1730EST			0	0	20K		Lightning
			Lightning started a fire that caused \$20,000 damage to a home in Gilford.						
Strafford County									
Middleton	09	1845EST			0	1	2K		Lightning
			Lightning was responsible for a barn fire in Middleton. The lightning also travelled through electrical wires to a nearby house where it shocked a 14 year old boy who was sitting near a washing machine.						
Grafton County									
Bristol	13	1200EST 1800EST			1	0			Flash Flood
			Three to four inches of rain from the remnants of Hurricane Bertha on small rivers and streams. A 10 year old boy playing in the rain-swollen Newfound River was swept to his death. M10IW						
Belknap County									
Sanbornton	14	1754EST			0	0			Hail (1.00)
			A severe thunderstorm produced 1 inch hail in the Sanbornton area.						
Belknap County									
Gaza	14	1755EST			0	0			Hail (1.50)
			A severe thunderstorm produced golf ball size hail in the Gaza area.						
Belknap County									
Laconia	14	1805EST			0	0			Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW HAMPSHIRE, North and Central									
									Wind from a severe thunderstorm knocked down dozens of trees and water from the heavy rains washed out driveways and damaged roadways in and near Laconia.
Strafford County Barrington	14	1930EST			0	3			Lightning Three people received electrical shocks while playing electrical instruments during a thunderstorm when lightning struck nearby. The three were inside the main building of a camp and were transported to an area hospital.
Strafford County Strafford	14	2105EST			0	0			Hail (1.00) A severe thunderstorm produced 1 inch hail in the Strafford area.
Strafford County Barrington	14	2110EST			0	0			Hail (1.00) A severe thunderstorm produced 1 inch hail in the Barrington area.
Grafton County Alexandria	16	1615EST			0	0			Thunderstorm Wind Winds from a severe thunderstorm knocked over trees in the Alexandria area.
Grafton County Bristol	16	1630EST			0	0			Thunderstorm Wind Winds from a severe thunderstorm knocked over trees in the Bristol area.
Merrimack County Danbury	16	1640EST			0	0			Hail (0.75) A severe thunderstorm produced dime-sized hail the the Danbury area.
Merrimack County Danbury	16	1640EST			0	0			Thunderstorm Wind Winds from a severe thunderstorm knocked over trees in the Danbury area.
NHZ001>010-013>014	Northern Coos - Southern Coos - Northern Grafton - Northern Carroll - Southern Grafton - Southern Carroll - Sullivan - Merrimack - Belknap - Strafford - Interior Rockingham - Coastal Rockingham								
	19	2000EST			0	0			High Wind (G134)
	20	2300EST							An intense low pressure system produced high winds behind a strong cold front. Throughout New Hampshire, falling trees and power outages were common. One person was injured in Kittery when a tree limb fell on his head, fracturing his skull. On Mt. Washington, the 24-h average wind speed was 99.6 mph with a gust to 154 mph, making it the windiest summer day (May - September) ever recorded. Between 2 and 5 pm EDT, the wind averaged 120 mph. The summit also reported a trace of snow.
Coos County Pittsburg	20	1500EST			0	0			Flash Flood
	21	0200EST							Two inches of rain caused the Indian Stream to overflow its banks. Campers were evacuated and many farm fields were flooded.
NEW HAMPSHIRE, Southern									
Cheshire County Rindge	08	1500EST			0	0			Hail (0.88) The Rindge Police Dept. reported nickel size hail.
Cheshire County Fitzwilliam	08	1555EST			0	0			Thunderstorm Wind (G50)
Cheshire County Fitzwilliam	08	1555EST			0	0			Hail (1.00) Trees and wires were blown down as per the New Hampshire State Police dispatch. Trees blocked Old Turnpike Road for a time. Quarter size hail was reported.
Cheshire County Keene to Swanzey	09	1720EST			0	0			Thunderstorm Wind (G50)
Hillsborough County Mont Vernon	09	1730EST			0	1			Lightning Trees were reported blown down in the city of Keene and also in the neighboring communities of Swanzey and Sullivan. A woman was struck by lightning while sitting near a pond in Mont Vernon but did not sustain any serious injury.
Cheshire County Countywide	13	1000EST 2000EST			0	0			Heavy Rain
Hillsborough County Countywide	13	1000EST 2000EST			0	0			Heavy Rain
									Tropical Storm Bertha brought heavy rainfall to the region. Note: The heavy rain lasted until 2200 EST, but the Storm Data entry program did not allow for that long of an event length. The center of the storm passed well to the southeast of New Hampshire...over Rhode Island and eastern Massachusetts and heavy rains spread out well to the northwest of the storm track. Some rainfall totals included: Derry, 4.5 inches; Milford, 4.2 inches; East Derry, 3.5 inches; Manchester, 3 inches; and Jaffrey, 2.77 inches. Scattered power outages occurred due to a combination of gusty winds and heavy rain.

Storm Data and Unusual Weather Phenomena

July 1996

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

NEW HAMPSHIRE, Southern

NHZ011	Cheshire								
	20	1000EST 1600EST			0	0			Strong Winds

NHZ012	Hillsborough								
	20	1000EST 1600EST			0	0			Strong Winds

Strong west to northwest winds gusting over 40 mph at times caused scattered power outages which affected several thousand electric customers.

NEW JERSEY, Northeast

Union County Linden	03	1530EST			0	0			Flash Flood
Passaic County Wayne	03	1636EST			0	0			Flash Flood
Bergen County Allendale	03	1640EST			0	0			Flash Flood
Passaic County Wayne	03	1640EST			0	0			Thunderstorm Wind (G50)
Union County Rahway	03	1642EST			0	0			Flash Flood

Strong thunderstorms during late morning and again late afternoon produced torrential rain that caused widespread flash flooding of low lying and poor drainage areas, small streams, and rivers.

Union and Bergen Counties were hardest hit. Numerous roads were closed and small streams rose out of their banks in Central and Eastern Union County, where torrential rains from 2 to 7 inches fell. Roads were closed near Roselle and Colonia as well as along Route 1 near Linden in Union County. Roads were also closed near Allendale in Bergen County.

A thunderstorm also produced strong wind gusts which downed trees in Wayne of Passaic County.

In addition, lightning also hit a tree, causing it to fall on a house in Totowa of Passaic County around 4:30 pm EST.

Union County Garwood	08	1715EST			0	0			Funnel Cloud
Union County Scotch Plains	08	1726EST			0	0			Flash Flood
Hudson County Hoboken	08	1840EST			0	0			Thunderstorm Wind (G50)
Passaic County Clifton	08	1840EST M15IW			1	0			Flash Flood
Union County Elizabeth	08	1933EST			0	0			Flash Flood
Passaic County Countywide	08	2130EST			0	0			Flash Flood

Clusters of strong thunderstorms developed in a moist unstable airmass ahead of a slow moving cold front.

Thunderstorms produced torrential rain, frequent lightning, and gusty winds.

Torrential rain caused flash flooding along Route 22 in the vicinity of Scotch Plains in Union County. Flash flooding of small streams also occurred. In Clifton of Passaic County, a 15 year old boy was swept into Weasal Brook and died.

Lightning struck a house in New Providence of Union County.

Strong wind gusts knocked down a tree onto a house in Hoboken in Hudson County.

Passaic County Hawthorne	11	1830EST			0	1			Lightning
A man sustained minor injury when struck by lightning.									
Bergen County Hohokus	13	0815EST 0945EST			0	0			Flood

Storm Data and Unusual Weather Phenomena

July 1996

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

NEW JERSEY, Northeast

Bergen County							
Oakland	13	1100EST			0	0	Flood
Essex County							
Newark	13	1200EST			0	0	Flood
Bergen County							
Lodi	13	1215EST 2200EST			0	0	Flood
Bergen County							
Mahwah	13 14	1730EST 0915EST			0	0	Flood

As Tropical Storm Bertha moved northeast, passing east of Atlantic City around 11 am and off the Central New Jersey coast by early afternoon, it produced torrential rain across Northeast New Jersey.

Torrential rain caused flooding of low lying and poor drainage areas, streams, and rivers across the area. Numerous rivers and small streams rose out of their banks and widespread roadway closures occurred due to flooding. At its' peak, rainfall rates were up to 2 inches per hour.

Across Bergen County, the following streams and rivers rose above flood stage:

Hohokus Brook at Hohokus from 8:15 am to 9:45 am EST. Flood stage is 3.0 feet. The crest stage was 3.05 feet at 9:15 am.

The Saddle River at Lodi from 12:15 pm to 10:00 pm EST. Flood stage is 5.0 feet. The crest stage was 5.87 feet at 5:00 pm.

The Ramapo River at Mahwah from 5:30 pm on July 13th through 9:15 am EST on July 14th. Flood stage is 8.0 feet. The crest stage was 8.47 feet on July 14th at 12:45 am.

Here are selected rainfall amounts:

For Passaic County: from 2.58 inches at Little Falls to 4.85 inches at West Milford.

For Bergen County: from 2.17 inches at River Vale to 3.82 inches at Ridgewood.

For Essex County: from 2.36 inches at Newark Airport to 2.96 inches at Essex Falls.

For Hudson County: 2.32 inches was measured at Harrison.

For Union County: from 2.43 inches at Elizabeth to 2.79 inches at Canoe Brook.

Wind gusts were measured from 31 MPH at Caldwell Airport in Essex County to 41 MPH at Harrison in Hudson County. Newark Airport reported a wind gust of 40 MPH.

Union County							
North Plainfield	14	1720EST			0	0	Lightning
Lightning struck a house and set it on fire in North Plainfield.							
Essex County							
West Livingston	14	1730EST			0	0	Thunderstorm Wind (G50)
As thunderstorms moved northeast at 35 to 40 MPH, they produced high winds that knocked down large trees.							
Bergen County							
Palisades Park	31	0905EST			0	1	Lightning
One person was struck and injured by lightning.							
Union County							
Elizabeth to Scotch Plains	31	0955EST 1000EST			0	0	Flash Flood

Clusters of thunderstorms developed in a moist unstable airmass north of an approaching warm front during the morning.

Brief torrential downpours caused widespread street flooding in Elizabeth and along Route 22 in Scotch Plains. People were stuck in their cars in low lying and poor drainage areas.

NEW JERSEY, South and Northwest

Middlesex County							
Woodbridge	03	1537EST			0	0	Hail (0.75)
Morris County							
Parsippany	03	1600EST			0	0	Hail (0.75)
Mercer County							
Dutch Neck	03	1754EST			0	0	Hail (0.75)
Ocean County							
New Egypt	03	1827EST			0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW JERSEY, South and Northwest									
Monmouth County									
3 SW New Monmouth	03	1837EST			0	0			Hail (0.75)
Burlington County									
Lumberton	04	0020EST			0	0			Hail (0.75)
Burlington County									
Vincetown	04	0030EST			0	0			Thunderstorm Wind
A severe thunderstorm uprooted several trees in the Vincetown area. This was the same storm that dropped dime size hail in Lumberton and produced widespread, but weaker wind gusts throughout most of the western part of the county.									
Gloucester County									
Thorofare	08	1035EST			0	0	1.1M	100K	Thunderstorm Wind (G69)
A severe thunderstorm produced wind gusts of 70 to 80 mph and caused about \$1.2 million dollars in damage in the Thorofare section of West Deptford Township near Interstate 295. The worst wind damage was on Tilton Road where four homes suffered damage from falling trees. Most of the wind damage occurred in the area bounded by Jessup Road to the south, Grove Avenue to the west and Delaware Street to the northeast. No injuries were reported. The storm hit about 1135 a.m. EDT. A 100-year-old barn was destroyed. Part of the New Jersey Department of Transportation's roof was peeled away as was the roof of a warehouse. Two other buildings also had roof damage. Utility poles were snapped on Jessup Road and two trailers were flipped over. Numerous trees and limbs were toppled and torn off throughout the township and this included Passaic Avenue. One farm lost its entire corn and tomato crop.									
Morris County									
Budd Lake	08	1720EST			0	0			Thunderstorm Wind
Trees were uprooted by a severe thunderstorm in Budd Lake.									
Somerset County									
Somerville	08	1800EST			0	0			Thunderstorm Wind
A severe thunderstorm tore down a few trees and power lines in Somerville and Bridgewater, caused structural damage at the former Somerville Iron Works and caused power outages. U.S. Routes 202 and 206 were closed for about 45 minutes in Bridgewater because of a downed tree. A downed limb closed East Main Street in Somerville.									
NJZ001-007>010-015>019									
Sussex - Warren - Morris - Hunterdon - Somerset - Mercer - Salem - Gloucester - Camden - Burlington									
	12	1400EST			0	0			Heavy Rain/Wind
	13	1400EST							
Tropical Storm Bertha passed through Delaware and Eastern New Jersey the morning of the 13th. The strongest winds remained near the shore, but wind gusts reached around 40 mph during the predawn and morning hours of the 13th and took some tree limbs and weak trees down. Public Service Electric and Gas reported 55,000 homes lost power; 17,000 in Burlington and Camden Counties. Storm totals averaged between 2 and 4 inches, but most mainstem rivers remained within bankfull except for the Cooper River in Camden County and the Rockaway River in Morris County. Since most of the rain fell during a twelve to eighteen hour period and not a shorter duration, there was some urban and poor drainage flooding, but no other major problems. No serious injuries, water rescues or damage was reported. Storm totals included 3.79 inches in Oak Ridge (Morris County), 3.43 inches in Belvidere (Warren County), 3.04 inches in Pottersville (Somerset County), 3.01 inches in Mount Holly (Burlington County), 2.88 inches in Somerdale (Camden County) and 2.86 inches in Hackettstown (Warren County).									
NJZ013>014-020>026									
Western Monmouth - Eastern Monmouth - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean									
	13	0400EST 1600EST			1	2			Tropical Storm
A weakening Tropical Storm Bertha passed across eastern parts of the state on July 13th. Hurricane Bertha made landfall near Wilmington North Carolina close to 5 p.m. EDT on the 12th and moved northnortheast overnight. At 11 p.m. EDT it was 100 miles southwest of Norfolk, at 3 a.m. EDT on the 13th it was 45 miles westsouthwest of Norfolk, at 8 a.m. EDT it was 45 miles south of Dover, at 930 a.m. EDT it was in extreme northeastern Sussex County Delaware, at 11 a.m. EDT it was near Atlantic City and at 5 p.m. EDT it was over eastern Long Island Sound.									
One storm related death occurred on the 12th. A 41-year-old man from New Egypt drowned while surfing at Ocean Beach. Most beaches were already closed due to the rough surf and the potential for rip tides. During the morning of the 13th three Lavallette firefighters were rescued in Barnegat Bay after a one hour search. They rescued a Lavallette man who was trying to tie down his boat. It was ripped away from its mooring and began drifting into the bay. They returned him to the shore, but when they tried to retrieve his boat, the rescue boat's propulsion system became tangled by rope.									
While the long trip over land did weaken it, some wind related damage did occur. Wind gusts reached 63 mph in Harvey Cedars, 60 mph in Seaside Park, 55 mph in Cumberland County and 43 mph at Atlantic City International Airport in Pomona. Most of the strongest winds occurred between 6 a.m. and noon EDT. About 40,000 Atlantic Electric customers lost power. Downed wires closed Second Street in Cape May City. Some minor back bay tidal flooding occurred in Cape May County. Otherwise tidal departures were about two feet or less from normal. Only Monmouth Beach suffered severe beach erosion. Sixty feet of the one hundred twenty foot wide beach at the south of the borough was gone. This beach is one of dozens in New Jersey that was being replenished under a U.S. Army Corps of Engineers project. There was little beach erosion elsewhere. Some of the heaviest rains with Bertha fell near or along the coast which included 6.59 inches in Estelle Manor, 4.56 inches in Folsom, 4.14 inches in Belleplain, 4.00 inches in Cape May County Courthouse, 3.78 inches in Hammonton and 2.07 inches in Margate. While there was urban and poor drainage flooding, no serious property or vehicular damage was reported and there were only a few water rescues of trapped motorists. M41IW									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW JERSEY, South and Northwest									
Mercer County									
Countywide	13	0600EST 1200EST			0	0			Flash Flood
			Heavy rain associated with Tropical Storm Bertha caused minor flooding along the Assunpink River in Mercer County. In Trenton, the river reached its flood stage of 7 feet at 7 a.m. EDT, crested at 7.4 feet and was back within bankfull by the early afternoon on the 13th. No serious injuries or damage was reported. Storm totals averaged around 2.5 inches and included 2.6 inches in Trenton State, Trenton and Windsor, 2.4 inches in Washington Crossing and 2.22 inches in Hightstown.						
NJZ018									
Camden	13	1100EST 1400EST			0	0			Flood
			Heavy rains associated with Tropical Storm Bertha caused minor flooding along the Cooper River from noon to 3 p.m. EDT. The river at Haddonfield crested at 2.82 feet at 2 p.m. EDT. Flood stage is 2.8 feet. No injuries or damage were reported. Storm totals in Camden County included 3.04 inches in Westmont, 2.88 inches in Somerdale, 2.30 inches in Pennsauken and 2.27 inches in Cherry Hill.						
NJZ008									
Morris	13 14	2200EST 1700EST			0	0			Flood
			Heavy rains associated with Tropical Storm Bertha caused some flooding along the Rockaway River below the Boonton Reservoir from 11 p.m. EDT on the 13th through 6 p.m. EDT on the 14th. The river crested at Boonton below the reservoir at 5.5 feet at 6 a.m. EDT on the 14th. Flood stage is 5 feet. No serious injuries or damage were reported. Storm totals in Morris County included 3.79 inches in Oak Ridge, 3.67 inches in Long Valley, 3.33 inches in Montville, 3.14 inches in Boonton and 2.74 inches in Chatham.						
Mercer County									
Northern	14	0930EST 1130EST			0	0			Flash Flood
			Thunderstorms with very heavy rain caused the flooding of small streams as well as urban and poor drainage flooding across northern Mercer County. Hopewell reported 2 inches of rain, most of which fell within one hour. The storm total at Washington Crossing was 2.07 inches.						
Somerset County									
Bernardsville	14	1630EST			0	0			Thunderstorm Wind
			A severe thunderstorm uprooted several trees in Bernardsville. In nearby Bernards Township three blocks were closed because of fallen trees.						
Somerset County									
Neshanic	14	1655EST			0	0			Thunderstorm Wind
			A severe thunderstorm tore down trees in Neshanic and Hillsborough. No serious injuries or property damage were reported.						
Morris County									
Whippany	14	1730EST			0	0			Thunderstorm Wind
			A microburst caused wind damage in a three block area in the Whippany area of Hanover Township. The most severe wind damage was on Longview Drive where three houses suffered structural damage from fallen trees. A tree completely crushed the attic of one house. A couple of trees also fell on houses on three other blocks. Some vehicles and fences were crushed by the uprooted trees. Direct wind damage to homes was mostly limited to torn rain gutters. New Jersey Central Power and Light reported about 10,000 homes lost power in Morris and Somerset County, half of which still were without power five hours after the thunderstorms moved through. No serious injuries were reported.						
Middlesex County									
East Brunswick	14	1745EST			0	0			Hail (0.75)
Cumberland County									
Seabrook	15	1500EST			0	0			Thunderstorm Wind
			A severe thunderstorm uprooted numerous trees in Seabrook.						
Monmouth County									
Northern	31	0930EST 1130EST			0	0			Flash Flood
			Thunderstorms with very heavy rain caused urban flooding and flooding of smaller creeks in northern Monmouth County. Sections of New Jersey State Route 36 along Raritan Bay were closed. Storm totals averaged 2 inches, most of which fell within one hour by 11 a.m. EDT. Matawan recorded 1.84 inches.						
Middlesex County									
Northern	31	0945EST 1130EST			0	0			Flash Flood
			Thunderstorms with torrential downpours caused urban and poor drainage flooding as well as the flash flooding of smaller streams in the northern part of the county. Several roads were closed due to severe flooding in South Plainfield. Storm totals ranged between 2 and 4.5 inches, most of which fell in the two hours ending at 1130 a.m. EDT. The highest reported amount was 4.52 inches in New Brunswick. Other storm totals included 2.78 inches in Iselin and 2.35 inches in Woodbridge.						
Mercer County									
Southern	31	1030EST 1900EST			0	0			Flash Flood
			Thunderstorms with very heavy rain, caused urban and poor drainage flooding as well as flooding along the Assunpink Creek in Trenton. Storm totals averaged 2 inches (2.13 inches was reported in Hamilton Square), most of which fell within two hours ending at 1130 a.m. EDT. The Assunpink Creek in Trenton reached its flood stage of 7 feet at 1130 a.m. EDT. At that point the creek had risen four feet within an hour. It crested at 9.13 feet at 4 p.m. EDT and was back within bankfull at 8 p.m. EDT.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEW JERSEY, South and Northwest</u>									
Burlington County Western	31	1030EST 1230EST			0	0			Flash Flood
									Thunderstorms with very heavy rain caused roadway flooding and flooding of some of the smaller streams in extreme western Burlington County. Storm totals included 2.20 inches in Beverly, most of which fell within a two hour period.
Camden County Western	31	2100EST 2245EST			0	0			Flash Flood
									Thunderstorms with heavy rain caused poor drainage flooding and flooding of some of the smaller streams in western Camden County. New Jersey State Route 70 had three feet of water in several places. In Mount Ephraim, 1.8 inches of rain fell in 30 minutes. In Westmont 2.72 inches of rain fell between 905 p.m. and 1005 p.m. EDT.
Burlington County Southwest	31	2100EST 2250EST			0	0			Flash Flood
									Thunderstorms with heavy rain caused poor drainage flooding and flooding of some of the smaller streams in southwestern Burlington County. Kings Highway (New Jersey State Route 41) had four feet of water in several places. Rainfall totals included 1.93 inches in Mount Laurel and 1.84 inches in Mount Holly.
<u>NEW MEXICO, Central and North</u>									
Santa Fe County Tesuque	07	1645MST 1800MST			0	0			Flash Flood
									Heavy rains estimated as high as 3 inches in 90 minutes flooded several roads with mud and debris near Tesuque.
Santa Fe County La Cienega	09	1900MST 2200MST			0	0	60K	10K	Flash Flood
									Mud and debris moving swiftly down the Santa Fe River at La Cienega destroying several corrals, covering alfalfa pastures in 1-2 feet of muck and washing away several horses and a half dozen sheep on the Gallegos Ranch. Debris filled in 200 feet of acequia (irrigation channel). Water also destroyed several rock structures dating back 60 years to the Civilian Conservation Corps.
Santa Fe County Santa Fe	09	2030MST 2300MST			0	0	60K		Lightning
									A lightning caused fire destroyed the home of an 80 year old woman who suffered smoke inhalation.
San Miguel County Villanueva	10	1510MST 1530MST			0	0			Hail (1.00)
Bernalillo County Tijeras	10	1630MST 1830MST			0	0	35K	5K	Flash Flood
									Heavy rain of 2 inches in a hour produced flooding of Tijeras Arroyo in the Carnuel community between Tijeras and Albuquerque. Mud and debris damaged at least one home and washed away several corrals and goats. A Tijeras man was rescued by deputies just before his car was swept downstream.
Guadalupe County Anton Chico	10	1800MST 1830MST			0	0			Hail (1.00)
Guadalupe County Anton Chico	10	1800MST 1830MST			0	0	70K		Thunderstorm Wind (G65)
									A severe thunderstorm produced 30 minutes of large hail and high winds estimated at 70-80 mph. A survey showed 52 structures with damage, ranging from broken windows to missing roofs and collapsed walls. Many of the structures were older adobe construction located in the historic plaza of Anton Chico. Heavy rain of 2 inches in a hour also caused considerable water damage following the wind damage. No injuries were reported.
Bernalillo County Albuquerque	10	1830MST 2000MST			0	0			Flash Flood
									Heavy rain of 1 to 2 inches an hour filled several roads with mud and debris in eastern Bernalillo county near Tijeras and produced widespread street flooding in Albuquerque.
Socorro County Alamo	10	1900MST 2100MST			0	0			Flash Flood
									A flash flood washed out culverts and damaged roads on the Alamo Reservation northwest of Socorro.
Union County 6 NE Gladstone	12	1340MST 1344MST	0.2	50	0	0			Tornado (F0)
									A small tornado was filmed by a TV crew over open country along Highway 56 between Pasamonte and Gladstone.
Chaves County 6 E Lake Arthur	14	1700MST 2000MST			4	0			Flash Flood

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW MEXICO, Central and North									
A woman and three children drowned when the car they were riding was swept off the pavement into Walnut Creek. The normally dry creek was running 4 feet deep over a dip in the road following heavy rain of 2 to 4 inches on the watershed 12 to 18 miles to the west. Rain had ended about 3 PM. Water began to fill the Spence Road low water crossing around 530PM. The vehicle entered the water at dark or about 9PM. The 48 year old male driver of the vehicle was rescued by other motorists. F32VE, F9VE, M7VE, M12VE									
Bernalillo County Albuquerque	16	1430MST 1740MST			0	0			Tstm Wind/Hail
A small but intense thunderstorm caused tree and power line damage across southcentral Albuquerque affecting about 4800 customers of the Public Service Company. Several cars and structures were damaged by broken trees. Gusts reached 35 mph at the International Airport located 2 miles southeast.									
Curry County Cannon Afb	19	1725MST			0	0			Thunderstorm Wind (G51)
Union County 3 N Capulin	20	1430MST			0	0			Hail (1.00)
Mora County 3 SW Wagon Mound	22	1350MST			0	0			Hail (0.75)
Union County Clayton Arpt	22	1720MST			0	0			Hail (0.75)
Quay County Logan	22	1720MST			0	0			Thunderstorm Wind (G52)
Colfax County 6 NE Raton	23	1600MST			0	0			Hail (0.75)
Mora County Ocate	23	1810MST			0	0			Thunderstorm Wind (G52)
Mora County Ledoux	24	1550MST			0	0			Hail (0.75)
San Miguel County Sapello	24	1610MST 1611MST			0	0			Hail (1.75)
Mora County South Carmen	24	1615MST			0	0			Hail (0.75)
Mora County 2 S Ledoux	24	1625MST			0	0			Hail (1.25)
Lincoln County Ruidoso Downs	24	1844MST 1845MST			0	0			Hail (0.75)
Bernalillo County Sandia Park	24	1850MST			0	0			Hail (0.75)
Bernalillo County 10 E Albuquerque	24	1855MST			0	0			Hail (1.75)
Bernalillo County Tijeras	24	1900MST			0	0			Hail (2.00)
Colfax County 1.5 SW Cimarron to .5 NE Cimarron	25	1425MST 1430MST	2	50	0	5	1.7M		Tornado (F2)
A tornado destroyed 11 homes and 7 business in Cimarron. Another 43 structures were damaged. Among the building destroyed was the Post Office which was sliced by the air-borne frame of a mobile home. Of the 5 injuries, 2 were serious, requiring hospitalization. All injuries occurred in mobile homes or portable buildings without permanent foundations. A funnel cloud, which went unreported, was observed by deputies for about 20 minutes. The tornado developed as convection moved over a horizontal shear axis created by southeast surface winds and northwest winds aloft above the foothills located just northwest of Cimarron.									
Colfax County 1 SE Cimarron	26	1438MST			0	0			Hail (1.75)
Lincoln County Ruidoso	26	1542MST 1543MST			0	0			Hail (0.75)
Union County Capulin	26	1625MST 1626MST	0.1	20	0	0			Tornado (F0)
A NWS observer reported a very brief tornado touchdown over open range near Capulin.									
De Baca County 10 N Yeso	26	1805MST 1806MST			0	0			Hail (1.75)
Mora County Ojo Feliz	30	1325MST 1327MST	0.2	50	0	0			Tornado (F0)
A rope tornado was observed over open range land.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEW MEXICO, Central and North</u>									
Mora County									
Ocate	30	1400MST			0	0			Hail (1.25)
Guadalupe County									
Vaughn	30	1511MST			0	0			Hail (0.88)
Torrance County									
Encino	30	1520MST			0	0			Hail (0.88)
Torrance County									
2 N Encino	30	1520MST 1521MST	0.1	20	0	0			Tornado (F0)
Deputies observed a funnel cloud for about 5 minutes which made a brief touchdown over open range just north of Encino.									
Mora County									
Ocate	31	1430MST 1431MST			0	0			Hail (1.50)
Observer reported large hail and funnel cloud.									
<u>NEW MEXICO, South Central and Southwest</u>									
Dona Ana County									
Anthony	15	2000MST 2130MST			0	0			Urban/Sml Stream Fld
Heavy rain from a thunderstorm flooded 9 homes and 7 vehicles near Anthony, New Mexico. Several of the homes were temporarily evacuated. A midslide was reported at Exit "0" of Interstate 10 along the New Mexico-Texas border.									
<u>NEW MEXICO, Southeast</u>									
Lea County									
Lovington	09	2130MST 2330MST			0	0			Flash Flood
With over 4 inches of rain reported in Lovington, many streets and intersections became flooded and impassable.									
Eddy County									
1 W Lakewood	15	0920MST 1100MST			0	0			Flash Flood
Heavy rains caused brief flash flooding as 1-2 feet of water flowed over State Highway 381.									
Eddy County									
8 SSW Carlsbad	18	1430MST			0	0	25K		Thunderstorm Wind
Winds from a wet microburst damaged seven mobile home, including removing the roof from one of them. Telephone poles were knocked down as well.									
Eddy County									
1 W Lakewood	19	0030MST 0400MST			0	0			Flash Flood
Heavy rains flooded Cottonwood Creek forcing several roads in the Lakewood area to be closed.									
Eddy County									
Lakewood	25	0135MST			0	0			Thunderstorm Wind (G52)
Eddy County									
Artesia	25	0150MST			0	0			Thunderstorm Wind (G61)
Eddy County									
Carlsbad	25	0220MST			0	0			Thunderstorm Wind (G61)
Lea County									
Tatum	31	1535MST			0	0			Hail (1.00)
<u>NEW YORK, Central</u>									
Cayuga County									
New Hope	14	1347EST			0	0	10K	25K	Thunderstorm Wind (G75)
A severe thunderstorm produced damaging winds and large hail in southeastern Cayuga County in the town of New Hope. Wind gusts, which were unofficially clocked at 86 mph, downed several trees, turned over farm vehicles, and flattened more than 800 acres of crops. Golfball sized hail was also observed which cracked the windshield of a pickup truck and further contributed to the destruction of crops.									
Cayuga County									
New Hope	14	1347EST			0	0	10K	25K	Hail (1.50)
A severe thunderstorm produced damaging winds and large hail in southeastern Cayuga County in the town of New Hope. Wind gusts, which were unofficially clocked at 86 mph, downed several trees, turned over farm vehicles, and flattened more than 800 acres of crops. Golfball sized hail was also observed which cracked the windshield of a pickup truck and further contributed to the destruction of crops.									
Tioga County									
Nichols	14	1440EST			0	0	5K		Thunderstorm Wind
A thunderstorm developed over northern Pennsylvania in Bradford County and became severe as it crossed the state line and moved into Tioga County in New York. This storm downed trees and power lines in the town of Nichols in the extreme southern portion of the county.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
NEW YORK, Central									
Oneida County									
Florence	16	1000EST			0	0	15K		Thunderstorm Wind
	Thunderstorm winds downed trees and produced structural damage in the town of Florence in northwestern Oneida County. Portions of the roof was blown off of two trailer homes.								
Onondaga County									
Cicero	19	1115EST			0	0	15K		Thunderstorm Wind
	A severe thunderstorm snapped off large tree limbs trees and caused some structural damage in northern Onondaga County in the town of Cicero. Several roofs were torn off of storage sheds, road signs were bent over, and a 9000 pound trailer was blown on its side.								
Oneida County									
Camden	25	2150EST			0	0	5K		Thunderstorm Wind
	A severe thunderstorm developed over southern Oswego County and continued eastward across the extreme northern communities of Oneida County. The storm downed several trees in Camden in northwestern Oneida County, some of which fell across parked vehicles.								
NEW YORK, Coastal									
Westchester County									
Cen/Sou Westchester	03	1100EST			0	0			Flash Flood
	Strong thunderstorms moved slowly across Central and Southern Westchester County. Torrential rainfall caused flash flooding of low-lying and poor drainage areas, especially across the major highways.								
Queens County									
Long Island Expwy	03	1520EST			0	0			Flash Flood
Nassau County									
Northern State Pkwy	03	1550EST			0	0			Flash Flood
Rockland County									
Suffern	03	1640EST			0	0			Flash Flood
Richmond County									
Richmond Pkwy	03	1840EST			0	0			Flash Flood
	Strong thunderstorms during late morning and again from late afternoon through early evening produced torrential rain that caused widespread flash flooding of low lying and poor drainage areas, small streams, and rivers.								
	Cars were trapped in flooding on the Long Island Expressway in Queens and the Northern State Parkway in Nassau Counties. In Rockland County, torrential rains forced the Mahwah River over its banks flooding parts of the New York State Thruway near Suffern. Serious road flooding was also reported along Richmond Parkway in Staten Island.								
	At around 6:00 pm EST, lightning set a roof on fire in New Rochelle in Southern Westchester County. No injuries or deaths were reported.								
Westchester County									
New Rochelle	03	1750EST			0	0	5K		Lightning
	A New Rochelle house was struck by lightning resulting in about five thousand dollars damage to the roof. The three-story single-family woodframe house was on 45 Linwood Ave. No one was injured.								
Westchester County									
Yonkers	08	0800EST			0	1			Lightning
	A cluster of thunderstorms over Westchester County produced lightning which struck a woman around 8 am EST in Yonkers, causing her minor injury.								
Orange County									
Port Jervis	08	1350EST			0	0			Thunderstorm Wind (G50)
Orange County									
Harriman	08	1518EST			0	0			Hail (0.75)
Rockland County									
Stony Point	08	1540EST			0	0			Hail (1.00)
Westchester County									
Ossining	08	1619EST			0	0			Thunderstorm Wind (G65)
Westchester County									
Saw Mill River	08	1620EST			0	0			Flash Flood
New York County									
New York	08	1829EST			0	0			Flash Flood
Suffolk County									
Sayville	08	2315EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

July 1996

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

Clusters of strong thunderstorms developed in a moist unstable airmass ahead of a slow moving cold front.

As thunderstorms moved east southeast at speeds averaging 20 MPH, they produced high winds, large hail and torrential rain.

Trees were knocked down and a building collapsed at the intersection of Jersey and Front Streets in Port Jervis of Orange County. In addition to the 1 inch diameter hail report from Stony Point, 3/4 inch diameter hail was also reported in Pomona in Rockland County. Winds that gusted to 75 MPH downed trees in Ossining in Westchester County. Serious flooding was reported along the Saw Mill River Parkway in Westchester County and across Southern New York County. A huge maple tree was downed about 1/2 mile north of the Sayville train station in Suffolk County.

Putnam County Peach Lake	09	1745EST			0	0			Thunderstorm Wind (G50)
Westchester County North Salem	09	1745EST			0	0			Funnel Cloud
Westchester County North Salem	09	1745EST			0	0			Thunderstorm Wind (G50)

A line of severe thunderstorms developed in a moist unstable airmass along a cold front during the evening.

As thunderstorms moved east at around 25 MPH, they caused damaging high winds and heavy rain.

A funnel cloud was sighted in North Salem in Westchester County by the New York State Police. Numerous trees and power lines were downed along and around Bloomer Road for about 1 mile in North Salem.

Trees were also downed around Peach Lake in Putnam County.

Kings County Brooklyn	13	0830EST			0	0			Flood
Nassau County Long Island Expwy	13	0830EST			0	0			Flood
Orange County New Windsor	13	0947EST			0	0			Flood
Rockland County Suffern	13	1130EST			0	0			Flood
	14	1015EST							
Putnam County Mahopac Falls	13	1505EST			0	0			Flood
Westchester County Somers	13	1505EST			0	0			Flood

As Tropical Storm Bertha moved northeast, passing east of Atlantic City, NJ around 11 am and over Long Island during the afternoon, it produced torrential rain and strong gusty winds..

Torrential rain caused flooding of low lying and poor drainage areas, streams, and rivers across the area. The heaviest rain fell in a band to the northwest of Bertha's track over the Lower Hudson Valley.

Serious widespread flooding was reported along the Brooklyn Queens Expressway in Kings County and along the Long Island Expressway in Nassau County.

The Mahwah River at Suffern, NY in Rockland County rose above its' 4 foot flood stage from 11:30 am EST on July 13th through 10:15 am on July 14th. The crest stage was 5.75 feet at 1:15 pm on July 13th. The Saw Mill River in Westchester County also flooded.

Here are selected rainfall amounts:

For Orange County: from 3.26 inches at Ridgebury to 4.50 inches at Greenwood Lake.

For Rockland County: from 3.25 inches at West Nyack to 4.65 inches at Pomona.

For Westchester County: 3.09 inches was measured at Ossining.

For New York City: from 1.40 inches at LaGuardia Airport to 1.76 inches at Central Park.

For Nassau County: 1.80 inches was measured at Lynbrook and 1.82 inches at Levittown.

For Suffolk County: from 0.76 inches at East Quogue to 1.90 inches at West Islip.

No reports were available from Putnam County.

Storm Data and Unusual Weather Phenomena

July 1996

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

NEW YORK, Coastal

The highest wind speeds were along the immediate coast. Wind gusts measured from the local area airports ranged from 30 MPH at Farmingdale Airport to 44 MPH at LaGuardia Airport. The highest wind gusts reported by spotters were in Western Suffolk County, from 49 MPH at West Islip to 74 MPH at Babylon Village. This narrow band of peak wind gusts was validated by the radar wind velocity data.

Putnam County Brewster	15	1430EST			0	0			Funnel Cloud
Putnam County Brewster	15	1430EST			0	0			Thunderstorm Wind (G50)
Thunderstorms produced high winds that knocked down several trees and large branches all in the same direction in parts of the village of Brewster and surrounding parts in the township of Southeast in Putnam County. A funnel cloud was sighted near North Main Street in the village of Brewster.									
Orange County Gardnerville to Washingtonville	25	2230EST 2330EST			0	0			Flash Flood
Orange County Goshen	26	0645EST			0	0			Flash Flood
Clusters of strong thunderstorms dumped from 2 to around 4 inches of rain from southwest through central parts of Orange County. Torrential rain caused flash flooding of numerous roads, small streams, and basements throughout this area. Total rainfall of 4.10 inches was measured in Goshen, where significant basement flooding occurred.									
Richmond County Richmondtown	31	1010EST			0	0			Flash Flood
Kings County Bath Beach to Graves End	31	1012EST 1030EST			0	0			Flash Flood
Queens County Countywide	31	1012EST			0	0			Flash Flood
Nassau County Long Beach	31	1030EST			0	0			Flash Flood
Kings County Countywide	31	1100EST			0	0			Flash Flood
Queens County Countywide	31	1100EST			0	0			Flash Flood
Nassau County Countywide	31	1105EST			0	0			Flash Flood
Suffolk County Melville	31	1125EST			0	0			Flash Flood
Suffolk County Southampton	31	1400EST			0	0			Flash Flood

Clusters of thunderstorms developed north of an approaching warm front in a moist unstable airmass.

As these thunderstorms moved northeast, they produced torrential rain. The axis of heaviest rainfall extended from Northeast Middlesex County, NJ northeast across Central Nassau County. From 2 to 5 inches of rain fell across this area during 3 hours from late morning through early afternoon.

The hardest hit counties were Richmond, Kings, Queens, Nassau, and Western Suffolk.

At Richmondtown, several houses were damaged in mudslides.

Across both Kings and Queens Counties, serious widespread flash flooding of roads occurred and numerous basements were flooded.

In Kings County, street and basement flooding occurred on Bay 11th street at Bath Beach. Water was up to the car doors along parts of the Belt Parkway at Sheepshead Bay. Additional widespread street and basement flooding occurred at Graves End.

In Nassau County, the same events occurred. Water was up to 2 feet deep in several streets at Long Beach, where several basements flooded. The Wantagh and Meadowbrook State Parkways were closed near East Meadow as well as Bellmore Ave. Widespread street flooding was also reported in Wantagh.

In Western Suffolk County, widespread street flooding was reported at Melville and West Islip. Water was up to 3 feet deep along some of the low-lying streets in Melville.

In Eastern Suffolk County, water was up to 2 feet deep along several streets in Southampton.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, East									
Columbia County									
Copake	03	1911EST			0	0	8K		Lightning
									Lightning struck a home in Copake. The bolt broke a hole through the roof and caught several items on fire in the attic.
Ulster County									
Shokan	08	0500EST			0	0	40K		Lightning
									Lightning destroyed a two story barn in Shokan.
Ulster County									
Ulsterville	08	2345EST			0	0	1K		Hail (0.88)
									An isolated severe thunderstorm produced hail in Ulsterville.
Washington County									
Easton	09	1530EST			0	0	4K		Hail (1.00)
Washington County									
Easton	09	1530EST			0	0	40K		Thunderstorm Wind
Ulster County									
Kingston	09	1615EST			0	0	15K		Thunderstorm Wind
Ulster County									
Kingston	09	1627EST			0	0	1K		Thunderstorm Wind
Greene County									
Coxsackie	09	1630EST			0	0	10K		Thunderstorm Wind
Dutchess County									
Amenia	09	1655EST			0	0	2K		Thunderstorm Wind
									A cold front crossed eastern New York during the afternoon of July 9. The front produced scattered severe thundestorms, especially over the Catskills and mid Hudson Valley. A severe thunderstorm at Easton in Washington County produced one inch hail and downed a tree on a mobile home. At Kingston in Ulster County, many trees were downed by the wind including one, which went through a house roof. In Ulster County approximately 6,500 customers were without power due to downed trees and power lines.
Dutchess County									
Rhinebeck	13	1130EST 1330EST			0	0	20K		Flash Flood
Ulster County									
Kingston/New Paltz	13	1200EST 2200EST			0	0	70K		Flash Flood
Ulster County									
Town Of Rochester	13	1200EST 2200EST			0	1	30K		Flash Flood
Columbia County									
Town Of Claverack	13	1300EST 1500EST			0	0	20K		Flash Flood
NYZ065>066			Western Dutchess - Eastern Dutchess						
	13	1330EST 2300EST			0	0	40K		Flood
Albany County									
Town Of Bethlehem	13	1400EST 2300EST			0	0	20K		Flash Flood
Schenectady County									
Countywide	13	1400EST 2300EST			0	0	8K		Flash Flood
Greene County									
Windham/Roundtop	13	1422EST 2300EST			0	0	20K		Flash Flood
Greene County									
New Baltimore	13	1422EST 2300EST			0	0	10K		Flash Flood
NYZ060>061			Western Columbia - Eastern Columbia						
	13	1500EST 2300EST			0	0	20K		Flood
Schoharie County									
Town Of Middleburg	13 14	1600EST 0100EST			0	0	25K		Flash Flood
Rensselaer County									
Town Of Schodack	13	1800EST 2300EST			0	0	10K		Flash Flood
NYZ048			Western Schenectady						
	13 14	2300EST 1000EST			0	0	3K		Flood
NYZ047			Schoharie						
	14	0100EST 1000EST			0	0	5K		Flood

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, East									
NYZ040	Montgomery								
	14	0200EST 1000EST			0	0	4K		Flood
	<p>The remnants of Hurricane Bertha tracked from the Mid-Atlantic region northeast to Quebec, Canada between Saturday morning July 13 to Sunday morning July 14. Three to five inches of rain was common across eastern New York with amounts around 7 inches over the Catskills and mid Hudson Valley. Flash flooding occurred during the early part of the event in Dutchess and Columbia Counties. In Dutchess County flash flooding occurred in Rhinebeck and the Town of Wappinger was declared a state of emergency due to flooding. Many small streams flooded across the county and flooding was also reported in Beacon. In Columbia County, flash flooding occurred in the Town of Claverack, when Claverack Creek spilled over its banks. Cranse and Jansen Kill Creeks also flooded and numerous roads were closed throughout the county including state route 22. In Ulster County widespread flooding occurred in New Paltz and Kingston. At New Paltz seven families were evacuated from the Southside Apartments. In Kingston substantial flooding along the waterfront was the result of high flows from the Wallkill Creek, Rondout Creek and high tides in the Hudson River. Many roads were closed throughout the county including state routes 32, 32A and 213 and county routes 6 and 30. In the Town of Rochester, a woman was injured when raging waters swept her downstream. She sustained head injuries and hypothermia. In Albany County several roads and small streams were flooded. The Normans Kill Creek spilled over its banks. Flooding was most widespread in the Towns of Bethlehem, New Scotland and Rensselaerville. Road flooding also occurred in Schenectady County and the Schoharie Creek rose 1.5 feet over flood stage. In Greene County widespread flooding occurred in Windham and New Baltimore. Numerous roads were closed throughout the county including state route 296, 32A and county route 61 and 6. Several small bridges were washed out especially in Round Top and minor flooding occurred along the Schoharie Creek. In Schoharie County roads were flooded and a bridge was washed out in the Town of Middleburg. Numerous town roads were washed out in the Town of Blenheim including route 30. Flooding also occurred along the Schoharie Creek. In Rensselaer County several roads were flooded including Clove Road in the Town of Schodack. In Montgomery County flooding was confined to the Schoharie Creek. In Lost Valley along the Schoharie Creek evacuations were necessary as the creek went approximately 2 feet over flood stage. Scattered power outages also occurred across eastern New York, when strong winds downed water-laden tree branches onto wires.</p>								
Herkimer County Newport	14	1455EST			0	0	4K		Thunderstorm Wind
Fulton County Stratford	14	1605EST			0	0	1K		Hail (0.88)
Ulster County Saugerties	14	1645EST			0	0	4K		Thunderstorm Wind
	<p>An unstable atmosphere across eastern New York produced widely scattered severe thunderstorms during the afternoon of July 14. Damaging winds downed trees and power lines in Herkimer and Ulster Counties and hail was reported in Fulton County.</p>								
Dutchess County Countywide	15	1300EST 1800EST			0	0	10K		Strong Wind
	<p>A cold front associated with strong winds crossed eastern New York during the afternoon of July 15. Due to saturated soil from a very wet summer including the remnants of Hurricane Bertha on July 13, trees and power lines were downed by the wind across parts of Columbia and Dutchess Counties. The hardest hit areas included the Towns of Greenport and Livingston in Columbia County and the Town of Wappinger in Dutchess County.</p>								
Columbia County Countywide	15	1300EST 1800EST			0	0	15K		Strong Wind
NYZ043	Washington								
	16	0100EST 1100EST			0	0	2K		Flood
	<p>Additional rain from a cold front which crossed eastern New York on July 15, caused the Mettawee River in northern Washington County to go above flood stage. The rain fell upon saturated soil due to the passage of Tropical Storm Bertha on July 13. At Granville the river went one foot over flood stage causing minor flooding, mainly to farm lands.</p>								
Warren County Bolton	16	1710EST			0	0	20K		Thunderstorm Wind
	<p>An isolated severe thunderstorm downed trees in the Lake George area during the evening of July 16. The downed trees crushed several camps around the lake and also blocked traffic along route 9N in the Town of Bolton.</p>								
NYZ041>042-047-050-058>061	Northern Saratoga - Warren - Schoharie - Southern Saratoga - Western Greene - Eastern Greene - Western Columbia - Eastern Columbia								
	19 20	1800EST 1300EST			0	0	42K		High Wind
	<p>An unusually intense low pressure system tracked across the northern Great Lakes to Quebec, Canada during July 19 and 20. The system generated strong northwest winds which downed trees and power lines over parts of eastern New York. At Glens Falls in Warren County, trees fell on several houses during the early evening hours of July 19. At Saratoga Springs in Saratoga County, a large willow tree was toppled by the wind in Congress Park on Saturday morning July 20. Power outages were most widespread in Greene County over the higher terrain.</p>								
Dutchess County Clinton Corners	25	1515EST			0	0	4K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

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

An isolated severe thunderstorm downed trees along the Taconic Parkway near Clinton Corners.

Washington County Ft Ann	26	1455EST			0	0	2K		Thunderstorm Wind
Schoharie County Cobleskill	26	1617EST			0	0	2K		Thunderstorm Wind
Schoharie County Cobleskill	26	1620EST			0	0	2K		Thunderstorm Wind
Schoharie County Cobleskill	26	1630EST			0	0	2K		Hail (1.00)
Ulster County Kingston	26	1755EST			0	0	0.50K		Hail (0.75)

A stationary front across eastern New York became the focusing mechanism for widely scattered severe thunderstorms during the afternoon of July 26. At Cobleskill in Schoharie County severe thunderstorms downed trees and wires and produced one inch hail. Hail was also reported at Kingston in Ulster County.

NEW YORK, North

NYZ028

Northeast Clinton

03	1600EST				0	0	10K		Flood
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An area of low pressure over the Mid-Atlantic states on Wednesday July 3, 1996 moved north across New England during Thursday July 4, 1996. Periods of heavy rain...enhanced by thunderstorms...moved across the area the night of July 3 and during July 4th.

Generally between 1.5 and 3.5 inches fell across Northern New York with 4 inches or more in the Adirondacks.

Road washouts were reported on the evening of July 3, 1996 in the towns of Dannamora, Willsboro, Wadhams and Essex New York.

Road washouts were reported on the evening of July 4, 1996 in Malone, Constable, Bangor and Altona, New York.

NYZ035

Eastern Essex

03	1600EST				0	0	40K		Flood
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NYZ027

Northern Franklin

04	1630EST				0	0	10K		Flood
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NYZ027

Northern Franklin

04	1730EST				0	0	10K		Flood
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NYZ027

Northern Franklin

04	1730EST				0	0	10K		Flood
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NYZ028

Northeast Clinton

04	1800EST				0	0	15K		Flood
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Clinton County

Beekmantown

14	1800EST				0	0	30K		Thunderstorm Wind
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A moist and unstable airmass was in place across Northern New York on Sunday, July 14, 1996. This resulted in the development of thunderstorms...some of which were accompanied by heavy rain and strong winds.

In Beekmantown New York, large trees were uprooted by thunderstorm winds. In addition, windows in a trailer home were blown in. This damage occurred at approximately 1800 EST.

St. Lawrence County

Massena

16	1341EST				0	0	15K		Thunderstorm Wind (G42)
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A trough of low pressure moved across northern New York and Vermont during Tuesday, July 16, 1996 with afternoon and evening thunderstorms. Some thunderstorms were accompanied by strong winds, heavy rain and hail.

Specifically, damage included:

--trees blown down in Massena (St Lawrence County) at 1341 EST

NYZ026

Northern St. Lawrence

19	2000EST				0	0	10K		High Wind (G42)
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An unusually strong low pressure in the Great Lakes region Friday morning, July 19, 1996 moved across northern New York and Vermont Friday evening and into northern Maine on Saturday, July 20, 1996.

Strong winds moved across northern New York and Vermont the evening of July 19th and continued on July 20. A few wind reports included:

--Plattsburgh, NY (Clinton County)....30 knots

Storm Data and Unusual Weather Phenomena

July 1996

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

--Massena, NY (St. Lawrence County)...42 knots
 --Peru, NY (Clinton County).....38 knots

In Plattsburgh, NY (Clinton County) trees were blown down with power outages reported.

In Peru, NY trees were snapped off by the strong winds between 0600 and 1000EST on July 20, 1996.

NYZ028

Northeast Clinton

20	0600EST 1000EST			0	0	20K	High Wind (G38)
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**Clinton County
Mooers**

23	1350EST			0	0		Hail (0.75)
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Thunderstorms developed and moved across northern New York during the afternoon and evening of Tuesday July 23, 1996. These thunderstorms were accompanied by heavy rain, hail and frequent dangerous lightning.

A few reports included...

--In Mooers, NY (Clinton County) 3/4 inch diameter hail was reported at 1350 EST.
 --Altona, NY (Clinton County) reported 1/4 inch hail at 1500 EST.
 --Culverts were flooded in Plattsburgh NY/Cumberland Head NY area with water reported on the roads between 1800-1920 EST.
 --one person was injured by lightning in Altona, NY (Clinton County) at 1800 EST and 2 cows were killed by lightning.

Clinton County

Altona	23	1500EST		0	0		Small Hail
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Clinton County

Altona	23	1800EST		0	1	15K	Lightning
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Clinton County

Plattsburgh	23	1800EST 1920EST		0	0	10K	Flash Flood
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Clinton County

Chazy	24	1800EST 1930EST		0	0	15K	Flash Flood
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Late afternoon and evening thunderstorms resulted in locally heavy rain and small hail across northeast New York.

Flash flooding/Flooding was reported along Lake Shore Drive and Rte 9 in Chazy (Clinton County) with several brooks out of their banks between 1800-1900 EST.

Pea size hail was reported in Chazy, NY (Clinton County). Several trees were blown down by 30 knot winds since the soil was saturated.

NEW YORK, West

Chautauqua County

Sinclairville	07	2300EST		0	0	8K	Thunderstorm Wind
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Thunderstorm winds downed trees during the early morning hours.

Allegheny County

Wellsville	08	0030EST		0	0	5K	Thunderstorm Wind
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Thunderstorm winds downed trees on S. Broad Street in the village during the early morning hours.

Ontario County

Victor	15	1220EST 1235EST	0.5	15	0	0	30K	Tornado (F1)
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A small tornado touched down during the early afternoon. The tornado first touched down off Proximity Lane, which is adjacent to a golf course. It ended along route 96 near Atwal Drive. The greatest structural damage was to the roof of a barn located on Brace Road. The roof was lifted from the barn and tossed into an adjacent home. In addition, an electric transformer estimated to weigh over 3000 pounds was pushed off its cement pad and toppled over.

Oswego County

Granby	15	1400EST 1405EST	0.5	8	0	3	35K	Tornado (F0)
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A weak tornado touched down in the town of Granby. The storm destroyed a mobile home on Phinney Road. There were three people in the trailer at the time. All three suffered minor injuries.

Lewis County

W.Martinsburg	15	1527EST		0	0	8K	Thunderstorm Wind (G57)
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Thunderstorm winds downed trees and power lines.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEW YORK, West									
Chautauqua County Mayville	19	0130EST			0	0	7K		Thunderstorm Wind
Chautauqua County Kennedy	19	0145EST			0	0	13K		Thunderstorm Wind
Thunderstorms during the night downed trees and wires in the county. In Kennedy, a downed tree damaged a portion of a mobile home.									
Chautauqua County Ripley	19	0515EST 0700EST			0	0	6K		Flash Flood
Thunderstorms during the night produced heavy rains which resulted in flash flooding. In Ripley, part of Route 5 was covered with water and had to be closed.									
Oswego County Central Square	25	1740EST			0	0	2K		Hail (1.75)
Oswego County Mexico	25	1740EST			0	0	8K		Thunderstorm Wind
Thunderstorms during the afternoon hours produced winds which downed trees and power lines. In addition, the thunderstorms produced golfball sized hail.									
Niagara County Wheatfield	30	1600EST			0	0	2K		Hail (1.75)
Monroe County Greece	30	1700EST			0	1			Lightning
Thunderstorm lightning struck and injured a 19-year old female.									
Monroe County Rochester	30	1730EST 2030EST			0	0	45K		Flash Flood
Thunderstorms during the late afternoon hours dropped over two inches of rain in four hours resulting in flash floods. The waters flooded over 200 basements in the City of Rochester.									
Allegany County Canaseraga	30	1820EST 1825EST	0.5	10	0	0	22K		Tornado (F0)
A small tornado touched down in Canaseraga during the evening hours. The tornado uprooted trees, tore portions of a metal roof off a barn, and ripped shingles off a mobile home.									
NORTH CAROLINA, Central									
Forsyth County Winston-Salem	02	1415EST			0	0			Hail (0.88)
Davidson County Nrn Portion	02	1415EST			0	0			Hail (0.75)
Sampson County Harrells	02	1420EST			0	0			Thunderstorm Wind
Large tree branches fell on a truck. Marble size hail was also noted.									
Forsyth County Winston-Salem	02	1420EST			0	0			Thunderstorm Wind
Trees down on Interstate 40.									
Cumberland County Stedman	02	1450EST			0	0			Thunderstorm Wind
Large trees down.									
Scotland County Laurinburg	02	1510EST			0	0			Thunderstorm Wind
Trees down.									
Durham County Durham	02	1530EST			0	0			Thunderstorm Wind
Trees down.									
Sampson County Roseboro	02	1530EST			0	0			Hail (0.75)
Chatham County Jordon Lake	02	1605EST			0	0			Hail (1.75)
Wake County Srnl Half	02	1608EST			0	0			Thunderstorm Wind
Trees and power lines were blown down. A tree fell on a home in Fuquay-Varina. A metal roof was blown off a shed and minor crop damage occurred in the Olive Chapel community.									
Wake County Cary	02	1610EST			0	0			Hail (0.75)
Franklin County Bunn	02	1628EST			0	0			Thunderstorm Wind
Trees down.									
Nash County Samaria	02	1630EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central</u>									
Nash County Samaria	02	1630EST			0	0	60K		Thunderstorm Wind
									Trees down on roads. 350 acres of tobacco were damaged by the wind and hail.
Nash County Srn Half	02	1700EST			0	0			Thunderstorm Wind
									Trees and power lines were blown down.
Johnston County Mcgee Crossroads	02	1705EST			0	0			Thunderstorm Wind
									Trees down near intersection of Hwys 42/50. Play ground equipment at school scattered.
Wilson County Wrn Half	02	1710EST			0	0			Thunderstorm Wind
									Trees down on highway 42W with minor crop damage.
Wilson County Wrn Half	02	1710EST			0	0			Hail (1.75)
Wayne County Fremont	02	1745EST			0	0			Hail (0.75)
NCZ007>011-021>028-038>043-073>078-083>086-088>089	12	0800EST 2300EST			0	0			Hurricane
									Hurricane Bertha moved along the edge of the NWSFO Raleigh county warning area. Three counties sustained substantial crop damage: Wayne \$12 million, Wilson \$7 million, and Johnston \$2 million. Structural damage was light and was primarily caused by trees on homes and cars. The hardest hit county was Wayne where property damage was estimated at \$500 thousand. Power outages were widespread in the eastern counties as trees took down power lines. Two F0 tornadoes occurred: one in Wake and one in Wilson counties. No injuries or deaths were reported. The highest wind recorded was 60 mph at Seymour Johnson AFB near Goldsboro. Greatest rainfall was four inches, also at the AFB.
Wilson County Buckhorn Reservoir	12	1230EST 1232EST	0.3	50	0	0			Tornado (F0)
									A small tornado cut a clear path through the woods north of Buckhorn reservoir near state road 581. Trees were broken, twisted, and uprooted.
Wake County Cary	12	1325EST 1331EST	4.5	100	0	0	50K		Tornado (F0)
									A small tornado formed along an outer band of Hurricane Bertha. The hurricane was centered approximately 140 miles to the southeast. The tornado was on the ground about 6 minutes and moved east to west at 50 mph. Numerous trees were snapped or uprooted. About 10 homes received minor damage due to falling trees.
Moore County Carthage	15	1430EST			0	0			Thunderstorm Wind
									Trees and power lines were blown down.
Stanly County Albemarle	15	1440EST			0	0			Thunderstorm Wind (G50)
									Trees down.
Randolph County Asheboro,Ramseur	15	1500EST			0	0			Thunderstorm Wind
									Trees down in Asheboro and Ramseur.
Stanly County Nrn Half	15	1515EST			0	0			Thunderstorm Wind
									Trees down north of Albemarle.
Johnston County Selma	15	1740EST			0	0			Thunderstorm Wind
									Trees and power lines were blown down.
Nash County Nashville	15	1745EST			0	0			Thunderstorm Wind
									Trees and power lines were blown down.
Wilson County Wilson	15	1815EST			0	0			Thunderstorm Wind
									Trees down near Wilson.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NORTH CAROLINA, Central									
Johnston County Smithfield	17	1600EST			0	0			Thunderstorm Wind
			Trees down on Norris and Barber Mill roads.						
Cumberland County Fayetteville	17	1730EST			0	0			Thunderstorm Wind (G51)
			Wind gust of 59 mph was recorded at the Fayetteville airport.						
Orange County Hillsborough	18	1550EST			0	0			Hail (0.75)
Durham County Durham	18	1615EST			0	0			Hail (0.75)
Randolph County Randleman	18	1703EST			0	0			Thunderstorm Wind
			Trees and power lines were blown down.						
Randolph County Randleman	18	1703EST			0	0			Hail (1.75)
Guilford County High Point	18	1715EST			0	0			Hail (0.75)
Person County Roxboro	18	1910EST			0	0			Thunderstorm Wind
			Trees and power lines were blown down north of Roxboro.						
Scotland County Wagram	22	1445EST			0	0			Thunderstorm Wind
			Trees and power lines were blown down.						
Moore County Pinebluff	23	1710EST			0	0			Flash Flood
			Several roads were closed due to heavy rains.						
Sampson County Nrn Half	23	1715EST			0	0			Thunderstorm Wind
			Trees were blown down onto several roads.						
Guilford County Greensboro, High Pt	25	1216EST			0	0			Flash Flood
			Five inches of rain, caused by the passage of several thunderstorms over the same area, produced serious street and underpass flooding in High Point and Greensboro. Several cars were flooded and abandoned due to high water.						
Harnett County Lillington	25	1755EST			0	0			Thunderstorm Wind
			Trees were blown down due to high winds.						
Montgomery County Star	25	1900EST			0	0			Thunderstorm Wind
			Trees and power lines were blown down.						
Moore County Robbins	25	1908EST			0	0			Thunderstorm Wind
			Trees and power lines were blown down.						
Chatham County Goldston	25	1935EST			0	0			Thunderstorm Wind
			Trees were blown down due to high winds.						
Johnston County Four Oaks	25	1940EST			0	0			Hail (0.75)
Person County Milton	25	2000EST			0	0			Thunderstorm Wind
			Several greenhouses were damaged or destroyed. Trees were also blown down.						
Person County Roxboro	25	2000EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central</u>									
Four or five inches of rain produced serious urban flooding in Roxboro.									
Sampson County Bonnetsville	27	1550EST			0	0			Hail (1.00)
Chatham County Bennett	28	1132EST			0	0			Hail (1.00)
Harnett County Lillington	28	1305EST			0	0			Thunderstorm Wind
Tree were blown down due to high winds.									
Edgecombe County Tarboro	30	1630EST			0	0			Hail (1.75)
Cumberland County Spring Lake	31	1450EST			0	0			Hail (1.75)
Wake County Raleigh, Wake Forest	31	1521EST			0	0			Hail (0.75)
Moore County West End	31	1522EST			0	0			Hail (1.75)
Franklin County Youngsville	31	1530EST			0	0			Hail (0.75)
Halifax County Roanoke Rapids	31	1550EST			0	0			Hail (1.00)
Randolph County Seagrove	31	1710EST			0	0			Hail (0.88)
Vance County Henderson	31	1745EST			0	0			Thunderstorm Wind
STRONG THUNDERSTORM WINDS DAMAGED THE ROOFS ON SEVERAL FARM BUILDINGS.									
Orange County Caldwell	31	1830EST			0	0			Thunderstorm Wind
TREES WERE BLOWN DOWN ALONG ROUTE 57 IN NORTHERN ORANGE COUNTY.									
<u>NORTH CAROLINA, Central Coastal</u>									
Jones County Trenton	02	1615EST			0	0			Thunderstorm Wind (G52)
Beaufort County Pinetown	02	1635EST			0	0			Hail (0.75)
Duplin County Warsaw	02	1645EST 1647EST			0	0	15K		Thunderstorm Wind
Thunderstorm winds brought down two oak trees on East Hill Street, blew a roof off a garage on Gum Street and damaged two roofs on North Brighton Street.									
Pitt County Greenville	02	1700EST			0	0			Hail (0.88)
Onslow County 2 SE Jacksonville	03	1408EST			0	0			Hail (0.75)
Onslow County Jacksonville	03	1420EST			0	0			Hail (1.00)
Martin County 1 E Williamston	03	1558EST			0	0			Hail (0.75)
Martin County 1 SW Williamston	03	1558EST			0	0	1K		Thunderstorm Wind
Washington County Creswell	03	1645EST			0	0	1K		Thunderstorm Wind
Trees down on Highway 64.									
Washington County Creswell	03	1645EST			0	0			Thunderstorm Wind (G52)
Tyrrell County Columbia	03	1700EST			0	0	5K		Thunderstorm Wind
Large tree on trailer on Railroad Ave. in Columbia.									
Tyrrell County Columbia	03	1700EST			0	0	20K		Thunderstorm Wind
Widespread wind damage. Powerlines and trees on roadways.									
Dare County Alligator River Brdg	03	1709EST			0	0			Thunderstorm Wind (G52)
Alligator River bridge tender reported 60 mph wind gust.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central Coastal</u>									
Dare County									
Salvo	03	1750EST			0	0			Thunderstorm Wind (G52)
NCZ029-044>047-079>081-090>095-098-103>104			Martin - Pitt - Washington - Tyrrell - Western Dare - Greene - Beaufort - Western Hyde - Duplin - Lenoir - Jones - Craven - Pamlico - Carteret - Onslow - Eastern Dare - Eastern Hyde						
	12	1000EST			1	10	140.3	127M	Hurricane
	13	0600EST					M		
	Hurricane Bertha slammed into the North Carolina coastline between Surf City and North Topsail Beach causing severe damage to property, utilities and roads. Hardest hit were agricultural crops which suffered losses in excess of \$126 million. Heaviest damage was in Topsail Beach and all of Onslow County up the coast to Emerald Isle in Carteret County. In Onslow alone, 199 structures were destroyed (117 were mobile homes). An 8-10 foot storm surge struck Swansboro and Emerald Isle. Several businesses were flooded. Water flowed through the streets of Belhaven in Beaufort County where the surge was around 7 feet. In New Bern, numerous boats were sunk or damaged at 3 private marinas. Fishing piers were demolished all along the coast. New River (Marine Corps Air Station in Jacksonville) reported a peak wind gust of 108 mph. Rainfall across the region ranged from 8 inches in the Hofman Forest (Onslow) to 6 1/2 inches in Broad Creek to over 5 1/2 in Snow Hill and Washington. F29VE								
Carteret County									
5 S Newport	12	1620EST 1621EST	0.5	50	0	0			Tornado (F0)
	Spotters reported a tornado on Highway 24 south of Newport.								
Craven County									
5 SE New Bern	12	1641EST 1642EST	0.5	50	0	0			Tornado (F0)
	Spotters reported a tornado 5 miles southeast of New Bern along Highway 70.								
Martin County									
Martin County	22	1845EST 2100EST			0	0			Flash Flood
	Radar estimate of 4+ inches of rain led to flooding of some county roads.								
Beaufort County									
Chocowinity	22	1930EST			0	0			Thunderstorm Wind
	Trees down.								
Onslow County									
Richlands	23	1810EST 1930EST			0	0			Flash Flood
	Streets flooded and impassable in downtown Richlands. Reports of cars stalled due to high water.								
Carteret County									
Beaufort	27	2350EST 2352EST			0	0			Hail (1.75)
	Golf ball size hail and a wind gust to 58 mph.								
Onslow County									
Jacksonville	28	1650EST			0	0			Thunderstorm Wind
	Trees blown down across power lines cut power to Camp LeJeune.								
Onslow County									
Jacksonville	28	1656EST			0	0			Hail (1.50)
Duplin County									
Wallace	30	1605EST			0	0			Thunderstorm Wind
	Tree down on Henderson Road.								
Duplin County									
15 NE Wallace	30	1610EST			0	0			Hail (0.75)
Duplin County									
2 N Wallace	30	1639EST			0	0			Thunderstorm Wind
	Tree down north of Wallace on Highway 117.								
Beaufort County									
Chocowinity	30	1700EST			0	0	2K		Hail (2.00)
Carteret County									
8 SW Newport	30	1730EST			0	0			Thunderstorm Wind
	Ranger at the Croatan National Forest reported a few trees down on Millis Road.								
Craven County									
Havelock	30	1735EST 1750EST			0	0			Thunderstorm Wind (G52)
	Cherry Point MCAS recorded a wind gust to 62 mph. A NWS employee reported nickel and dime size hail and a 12 inch diameter tree downed by high winds.								
Dare County									
Manteo	30	1920EST			0	0			Thunderstorm Wind
	Tree down.								

NORTH CAROLINA, Extreme Southwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, North Coastal</u>									
Northampton County Seaboard	03	1430EST			0	0	3K		Thunderstorm Wind
			Several downed trees blocked Route 186.						
Northampton County Margaretsville	03	1430EST			0	0			Hail (1.00)
Northampton County Margaretsville	03	1430EST			0	0	3K		Thunderstorm Wind
			Several trees blown down.						
Northampton County 2 NW Conway to 1 N Conway	03	1430EST 1445EST	1	500	0	0	50K		Tornado (F0)
			A tornado initially touched down in cotton fields 2 miles northwest of Conway. A trampoline was lodged 20 feet above ground level in a pine tree about 1 mile northwest of Conway. Several branches of the pine tree were completely stripped of pine needles/twigs and several other limbs (8-12" in diameter) were ripped off. The storm crossed Route 35 one mile north of Conway uprooting 2 trees and nearly blowing over 3 power poles. Two houses east of Route 35 sustained significant tree damage with several 12-15" diameter and six 8-10" diameter branches ripped off 85 year old trees. The tin roof on the northernmost house was peeled back in several places. A 4x 8' trellis was pulled out of the ground in the yard of the southernmost house. In addition, a 3" diameter limb was shoved into an awning of this home. An eyewitness in the southernmost house saw a funnel cloud in the field west of Route 35 which appeared to be "moving up and down". Minutes later the eyewitness heard a "roaring noise" and felt her house shaking. The house itself was peppered with leaves and other debris.						
Northampton County 2 NW Conway	03	1430EST 1435EST			0	0		20K	Hail (1.75)
			Golfball size hail did significant damage to cotton crop.						
Northampton County Conway	03	1435EST 1445EST			0	0	250K		Thunderstorm Wind
			Estimated straight line winds of 75-90 mph swept through the town of Conway inflicting significant tree and structural damage. Approximately 15-20 tree limbs of 10-15" in diameter were blown down with several dozen more limbs of 4-8" in diameter downed. Several trees were snapped off 15-20' AGL. The most significant damage occurred between 0.5 mile south of Conway to 2 miles east-southeast of Conway. A home about 0.5 mile south of Conway sustained significant awning damage with the back door blown in. A tree was snapped off 15' AGL. Another 30' pine tree was uprooted. Eight tree limbs of 8-12" diameter were scattered about the yard with one limb lodged in telephone lines 30 feet away. A peanut warehouse, the Conway Bonded Warehouse (approximately 200'x 120') located 2 miles east-southeast of Conway was completely flattened carrying with it a portion of the adjacent grain elevator and utility pole.						
Hertford County 5 NE Ahoskie	03	1500EST			0	0			Hail (1.75)
Hertford County 5 NE Ahoskie	03	1500EST			0	0	40K		Thunderstorm Wind
			A house roof (under construction) collapsed, five barn roofs were blown off, and numerous trees and power lines were downed.						
Hertford County 1 N Ahoskie	03	1510EST			0	0	20K		Thunderstorm Wind
			Numerous trees downed onto southbound Route 13. Downed trees contributed to a ten car accident.						
Hertford County 1 N Ahoskie	03	1510EST			0	0			Hail (1.75)
Chowan County 2 N Edenton	03	1600EST			0	0			Hail (0.75)
NCZ012>017-030>032-102	Northampton - Hertford - Gates - Pasquotank - Camden - Western Currituck - Bertie - Chowan - Perquimans - Eastern Currituck								
	12	1700EST			0	0	200K	30K	Hurricane
	13	0400EST							
			Hurricane Bertha moved across northeast North Carolina on July 12th and 13th. The center of Bertha moved ashore near Wrightsville Beach, North Carolina shortly before 500 PM Friday July 12th. Spiral bands around the northern and eastern side of the storm affected northeast North Carolina from early Friday evening into the early morning hours of Saturday. The highest sustained wind speed recorded at the Elizabeth City Coast Guard Station (ECG) was 45 mph with gusts to 55 mph. Numerous trees and power lines blown down resulted in scattered property damage and widespread power outages. Coastal Pasquotank and Camden counties experienced approximately a 4 foot storm surge in the Albemarle Sound flooding coastal sections of these counties. A 5 foot storm surge extended up the Pasquotank River inundating Elizabeth City. Chowan, Hertford, and Gates counties experienced a 1 to 2 foot storm surge from the Albemarle Sound causing minor flooding in Edenton. Currituck county reported only minor flooding from the Currituck Sound. Rainfall amounts generally ranged from 2.5 to 4.5 inches and caused some street flooding. The lowest sea level pressure recorded at the Elizabeth City Coast Guard Station (ECG) was 999 mb.						
Pasquotank County Elizabeth City	18 19	2300EST 0130EST			0	0	0		Flash Flood
			Two to four inches of rain within six hours resulted in low-lying streets covered with one to two feet of water. Also, the heavy rainfall caused sewage systems to back up.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
					Killed	Injured	Property		
<u>NORTH CAROLINA, North Coastal</u>									
Northampton County									
Jackson	22	1630EST			0	0			Hail (1.25)
Northampton County									
Rich Square	22	1640EST			0	0	3K		Thunderstorm Wind
									Several trees blown down.
Northampton County									
Severn	31	1540EST			0	0			Hail (1.75)
<u>NORTH CAROLINA, Northwest and North Central</u>									
Yadkin County									
1 W East Bend	02	1400EST			0	0			Hail (0.75)
Yadkin County									
5 WNW Yadkinville	02	1545EST			0	0		10K	Hail (1.75)
									Hail up to golf ball size on the 2nd covered the ground and damaged some corn and tobacco crops 5 miles west-northwest of Yadkinville.
Rockingham County									
3 N Stoneville	08	1500EST			0	0	5K		Lightning
									A lightning strike on the 8th started a fire which severely damaged a double-wide mobile home 3 miles north of Stoneville.
Caswell County									
2.5 SSW Milton	25	1154EST	0.1	25	0	0	60K		Tornado (F1)
Caswell County									
Semora	25	1208EST			0	0	2K		Thunderstorm Wind
									A severe thunderstorm around 12 noon on the 25th produced a tornado and damaging winds.
									A tornado briefly touched down 2.5 miles south-southwest of Milton at 1154 EST. The tornado destroyed five green houses and damaged four other green houses and a few outbuildings at an agricultural supply center. The tornado tossed 1,500 pound cattle feeders about 100 feet and foam planting trays were carried up to 7 miles away.
									Thunderstorm winds broke out a post office window, tore the roof off of shed and damaged signs in Semora.
Rockingham County									
6 N Reidsville	25	1725EST			0	0			Thunderstorm Wind
									An isolated severe thunderstorm on the 25th downed trees 6 miles north of Reidsville.
Watauga County									
Boone	28	2030EST			0	0	510K		Lightning
									Lightning started a fire in a large downtown business in Boone that destroyed an 8,200 square foot building. Damage was estimated at \$440,000. Nearby buildings sustained fire and smoke damage estimated near \$70,000.
<u>NORTH CAROLINA, South Coastal</u>									
New Hanover County									
Wilmington	02	1400EST 1420EST			0	0	20K		Thunderstorm Wind (G55)
									Wind - downed tree limbs and lightning caused power outages to 200 residents. Lightning struck a house and caused \$5000 damage.
Columbus County									
Whiteville	02	1500EST 1603EST			0	1	1K		Lightning
									A horse was killed by lightning and a 15 year old boy shocked unconscious, but recovered fully.
Brunswick County									
1 N Leland to Leland	02	1600EST 1700EST			0	0	25K		Lightning
									Lightning sparked a fire that destroyed a mobile house on Dogwood Road. No one was home at the time. Power outages to 400 northern Brunswick County residents.
Brunswick County									
Ash to Bolivia	03	1240EST 1311EST			0	0			Hail (1.50)
									Hail reports from Ash to Shallotte to Bolivia ranged from dime size to golfball size stones.
Pender County									
1 W Ashton	03	1335EST 1340EST			0	0			Hail (1.25)
Brunswick County									
Leland	03	1610EST 1615EST			0	0			Hail (1.00)
									Police and public reports of hail.
New Hanover County									
.5 W Wilmington	03	1620EST 1625EST			0	0			Thunderstorm Wind (G60)
									Highway Dept report of 4 trees downed along Highway 421 on Eagle Island.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NORTH CAROLINA, South Coastal									
NCZ100		Brunswick							
	12	1100EST 2200EST			0	0	2M	9M	Hurricane
		The eye of Bertha passed 10 miles east of Bald Head Island on its northward track. Most wind measurements were less than 90 mph, but a gust of 101 mph was measured at the State pilot house at Southport. Barrier islands were evacuated, 1500 people sheltered.							
		The six piers survived, and beach erosion largely confined to east end of Holden Beach, where 5 to 10 feet undermined an already condemned house. Mostly minor structural and property damage. With around 8 inches rain, there was widespread flooding and power outages. Declared Federal Disaster Area.							
NCZ101		New Hanover							
	12	1100EST 2200EST			0	0	18M	1M	Hurricane
		The eye of Bertha moved north on the coast between 2-4PM EST, with the strongest winds gusting from NE at 92 MPH at Kure Beach at 1:35, where 3 roofs blown off and all structures damaged. Four piers seriously damaged, and 2 ft of water covered Carolina Beach. Wrightsville Beach and Figure 8 Island little damage. From the beaches, mandatory evacuation of 40,000. Damage to New Hanover County Regional Medical Center was \$2M. 1500 homes and 250 businesses were damaged. Raw sewage escaped to Burnt Mill Creek. Declared Federal Disaster Area.							
NCZ099		Columbus							
	12	1200EST 2000EST			1	10	200K	16M	High Wind (G64)
		Hurricane Bertha caused 6 inches rain and 75 MPH gusts, with 30% damage to a bumper crop. Trees knocked out power, and it was restored near midnight. 3 hours later an electrical fire killed a woman. F75PH							
NCZ096		Bladen							
	12	1300EST 2100EST			0	0	250K	1M	High Wind (G64)
		High wind and heavy rain caused damage to 10% of blueberry crop.							
NCZ097		Pender							
	12	1400EST 2200EST			0	0	7M	7.5M	Hurricane
		The eye of Bertha moved inland near Surf City late in the afternoon. Barrier islands evacuated 30,000, 700 were sheltered. 40 houses undermined by beach erosion and 4 houses destroyed. Winds gusted near 105 mph, and 6-8 inches rain caused widespread flooding and crop loss inland. Declared Federal Disaster Area.							
Columbus County									
Lake Waccamaw to 1 S Delco	14	1130EST 1230EST			0	0	60K		Lightning
		Lightning struck two homes, destroying one near the Prosper Baptist Church.							
New Hanover County									
Wilmington	14	1130EST 1330EST			0	0			Lightning
		City fire dept responded to 20 calls in less than 2 hours. Lightning hit one tree that Bertha knocked against an apartment building, starting fire.							
Robeson County									
Maxton to Red Spgs	15	1700EST 1705EST			0	0			Thunderstorm Wind (G60)
		Thunderstorms downed trees and power lines. Police report.							
New Hanover County									
Wilmington to East Wilmington	16	1045EST 1345EST			0	0			Flash Flood
		A torrential 4 inch rain in a few hours, and debris from Bertha clogging drains, caused widespread street flooding, with 2-3 feet standing water stalling vehicles in some areas.							
New Hanover County									
Wilmington	21	1200EST 1430EST			0	0			Flash Flood
		Morning rain over 4 inches and clogging hurricane debris caused flooding in several spots across the city.							
Pender County									
Burgaw	21	1300EST 1700EST			0	0			Flash Flood
		Around 5 inches rain in two hours flooded Burgaw, locals said repeated flooding of last 9 months is unprecedented in 17 years.							
Robeson County									
Mc Donalds to Fairmont	22	1600EST 1610EST			0	0			Thunderstorm Wind (G55)
		Trees downed, power lines downed.							
Columbus County									
Hallsboro to Whiteville	23	1520EST 1545EST			0	0			Thunderstorm Wind (G60)
		Trees and power lines downed.							

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, South Coastal</u>									
Bladen County 5 N Kelly	25	1650EST 1730EST			0	0			Lightning
									Severe lightning and torrential rain measured 4 inches in 45 minutes, described as most intense witnessed in 61 years.
Pender County Atkinson to Burgaw	25	1700EST 1715EST			0	0			Thunderstorm Wind (G60)
									A trees was reported downed, but lightning was very intense, with around 20 ground strokes per minute over a 15 minute period.
New Hanover County Wilmington	28	1930EST 1945EST			0	0			Thunderstorm Wind (G60)
									Downed trees caused power outage to 4000 people.
Robeson County Maxton	30	1420EST 1425EST			0	0			Thunderstorm Wind (G60)
									Tree downed in wind.
Brunswick County Leland	30	1620EST 1630EST			0	0			Thunderstorm Wind (G45)
									Four trees reported downed along Highway 74/76.
Pender County 10 N Rocky Pt	30	1655EST 1710EST			0	0			Hail (0.88)
									Holly Shelter State Forest reported nickel size hail.
New Hanover County Wilmington	30	1700EST			0	1			Lightning
									Lightning hit mobile home park, injured man.
<u>NORTH CAROLINA, Southwest</u>									
Catawba County Sherrills Ford	01	1530EST 1550EST			0	0	50K		Thunderstorm Wind (G60)
									An isolated severe thunderstorm caused extensive damage over a very small area on Lake Norman. Boats and boat docks were damaged and trees were blown down. The storm moved from north to south.
Davie County Mocksville	02	1343EST			0	0	60K		Lightning
Iredell County Statesville	02	1420EST 1440EST			0	0	2.5K		Thunderstorm Wind (G50)
Catawba County Sherrills Ford to Terrell	02	1430EST 1450EST			0	0			Thunderstorm Wind (G50)
Iredell County 5 W Mooresville to Mooresville	02	1445EST 1505EST			0	0			Hail (0.75)
									More severe storms hit just west of the area affected the day before. In Statesville a tree was blown onto a state trooper's car. A concession stand was blown over and trees were downed. Trees were downed around Lake Norman and large hail fell from Mooresville to the lake. Lightning burned a church in Mocksville.
Henderson County Hendersonville	07	1530EST 1550EST			0	0			Thunderstorm Wind (G50)
									The wind blew 3 large oak trees onto a home. Also, 1700 customers were without power as a result of wind damage.
Gaston County Dallas to Stanley	13	1510EST 1530EST			0	0			Thunderstorm Wind (G50)
Mecklenburg County Charlotte	13	1738EST 1800EST			0	0			Hail (1.00)
Mecklenburg County Charlotte	13	1740EST 1800EST			0	0			Thunderstorm Wind (G50)
									A couple of trees were blown down northeast of Gastonia. Trees and power lines were blown in Charlotte.
Medowell County Marion	14	1340EST 1400EST			0	0			Thunderstorm Wind (G50)
Henderson County Edneyville	14	1400EST 1420EST			0	0			Lightning

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Southwest</u>									
Polk County									
Tryon	14	2200EST 2220EST			0	0			Lightning
A few trees were blown down in a severe thunderstorm. Storms in and near the mountains caused a great deal of lightning, some of which apparently started fires.									
Iredell County									
1 E Troutman to 3 E Troutman	15	1025EST 1052EST			0	0	25K		Thunderstorm Wind (G50)
Cleveland County									
1 S Shelby to 1 E Shelby	15	1315EST 1335EST			0	0			Thunderstorm Wind (G50)
Gaston County									
Bessemer City to Mc Adenville	15	1330EST 1350EST			0	0			Thunderstorm Wind (G50)
Mecklenburg County									
Charlotte	15	1344EST 1405EST			0	0			Thunderstorm Wind (G55)
Mecklenburg County									
5 NE Charlotte	15	1400EST 1420EST			0	0			Thunderstorm Wind (G55)
Cabarrus County									
Concord	15	1433EST 1450EST			0	0			Thunderstorm Wind (G50)
Severe thunderstorms developed along the foothills and piedmont and became more powerful as they moved east. Trees were blown down in areas listed above and east of Troutman underpinning was blown out from under a mobile home. Roofs of houses, outbuildings and a garage were destroyed by the wind in this same area. Power outages were common. Up to 10,000 customers were without power. Some trees fell on cars and houses.									
Catawba County									
10 SW Newton to 5 S Newton	18	1448EST 1505EST			0	0			Thunderstorm Wind (G50)
Lincoln County									
4 NE Lincolnton	18	1455EST 1515EST			0	0			Thunderstorm Wind (G50)
Multiple trees were blown down in both locations and skirting was blown out from under a mobile home in Catawba county.									
Davie County									
6 NE Mocksville	25	1805EST 1825EST			0	0			Thunderstorm Wind (G50)
Several trees were blown down.									
Buncombe County									
Asheville	26	1450EST 1510EST			0	1			Thunderstorm Wind (G50)
Buncombe County									
Asheville	26	1452EST 1515EST			0	0			Hail (1.50)
A severe thunderstorm blew down tents at an outdoor festival. One person suffered a broken wrist. Large hail also fell.									
Union County									
Monroe	30	1200EST			0	0	200K		Lightning
Union County									
Monroe to Marshville	30	1215EST 1245EST			0	0			Thunderstorm Wind (G50)
A severe thunderstorm blew down trees and power lines from Monroe to the east of town. There were numerous cloud to ground lightning strikes. A restaurant was reported to have burned from one of the strikes.									
<u>NORTH DAKOTA, Central and West</u>									
Mountrail County									
Stanley	02	1900CST			0	0	10K	0	Lightning
Lightning struck a stack of haybales. A total of 65 hay bales were lost.									
Stutsman County									
6 E Buchanan	05	1700CST			0	0	10K		Thunderstorm Wind (G55)
60+ mph winds damaged 3 pole barns. wind speed and damage estimated.									
Stutsman County									
Spiritwood	05	1705CST			0	0			Thunderstorm Wind (G55)
strong thunderstorm winds blew down numerous trees. wind speed estimated.									
Stutsman County									
Jamestown	05	1815CST			0	0			Lightning
lightning struck a power pole in Jamestown. Jamestown was without power for an unspecified time.									
Mercer County									
2 NW Beulah	10	1638MST			0	0			Hail (2.00)

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, Central and West</u>									
Mercer County									
Hazen	10	1705MST			0	0			Hail (0.75)
Mercer County									
Beulah	10	1740MST			0	0			Hail (2.00)
Mclean County									
9 S Roseglen	10	1757CST			0	0			Hail (2.00)
Emmons County									
8 NW Hazelton	10	1800CST			0	0			Hail (0.75)
Oliver County									
10 SW Stanton	10	1835CST			0	0			Hail (0.75)
Oliver County									
Center	10	1855CST			0	0	0.50K	0	Thunderstorm Wind (G55)
shed damaged. wind speed and damage estimated.									
Oliver County									
10 E Center	10	1859CST			0	0			Hail (2.75)
Emmons County									
5 W Linton	10	1905CST	0	10	0	0			Tornado (F0)
path length and width estimated									
Burleigh County									
5 W Baldwin	10	1910CST			0	0			Hail (1.50)
Oliver County									
4 S Sanger	10	1915CST			0	0			Hail (1.75)
Oliver County									
15 N Mandan	10	1922CST			0	0			Hail (1.00)
Burleigh County									
10 N Bismarck	10	1930CST			0	0			Hail (1.00)
Sioux County									
Cannonball	10	1930MST			0	0			Hail (0.75)
Morton County									
Mandan	10	1933CST			0	0			Hail (1.00)
Burleigh County									
Bismarck	10	1935CST			0	0			Hail (0.88)
Burleigh County									
Bismarck	10	1940CST			0	0			Hail (1.00)
Morton County									
Mandan to 1 S Mandan	10	1945CST			0	0			Hail (1.75)
Mcintosh County									
Ashley	10	2030CST			0	0			Hail (1.75)
Emmons County									
5 NW Linton	10	2045CST			0	0			Hail (0.75)
Emmons County									
Linton	10	2103CST			0	0			Hail (1.75)
hail size varied from 0.75 to 1.75									
Emmons County									
Strasburg	10	2140CST 2150CST	1	15	0	0	25K		Tornado (F0)
numerous trees reported downed in Strasburg. There were also numerous pieces of farm machinery that was moved or flipped over. damage estimated. path length and width estimated.									
Hettinger County									
Hettinger	17	1245MST 1345MST			0	0			Heavy Rain
Morton County									
5 S Mandan	17	1620CST			0	0			Hail (0.75)
Morton County									
St Anthony	17	1625MST			0	0			Thunderstorm Wind (G55)
Burleigh County									
Bismarck	17	1630CST 1730CST			1	0			Heavy Rain
The Bismarck area received anywhere from 1 to 2 inches of rain in an hour. There were reports of manhole covers being blown out. An 80 yr. old man suffered a heart attack while shoveling water away from his apartment complex. M80PH									
Mclean County									
2 W Mercer to 1 W Mercer	17	1636CST 1640CST	1	20	0	0			Tornado (F0)
path length and width estimated									

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, Central and West</u>									
Foster County									
Bordulac	17	2000CST 2130CST			0	0			Heavy Rain
Stutsman County									
Buchanan	17	2000CST 2130CST			0	0			Heavy Rain
Stutsman County									
Jamestown	17	2031CST			0	0			Thunderstorm Wind (G55)
Burke County									
Powers Lake	19	2345CST			0	0			Hail (1.00)
Powers Lake also received 2-3 inches of rain.									
Morton County									
Breien	26	1515MST			0	0			Hail (0.75)
Mckenzie County									
22 SW Williston	27	1850CST			0	0	75K	0	Thunderstorm Wind (G60)
The strong winds combined with pea to marble size hail created a damage path 1.25 miles wide by 4.5 miles long through the county. The strong winds also blew a mobile home into a bar. The winds also blew the roof off of the bar. Property damage estimated.									
Rolette County									
10 SE Rolette	28	1605CST 1630CST			0	0			Hail (1.75)
Burleigh County									
10 N Bismarck	28	1615CST			0	0			Hail (2.00)
2 inch hail was covering the road. Law enforcement advised no travel until hail melted due to icy conditions.									
Burleigh County									
Baldwin	28	1625CST			0	0			Hail (1.50)
Sheridan County									
10 NW Mcclusky to 2 NW Mcclusky	28	1628CST 1640CST	8	15	0	0			Tornado (F1)
path length and width estimated									
Pierce County									
Rugby	28	1640CST			0	0			Hail (0.75)
Burleigh County									
Bismarck	28	1642CST			0	0			Thunderstorm Wind (G55)
Burleigh County									
5 E Bismarck	28	1645CST			0	0			Hail (1.25)
McLean County									
6 S Mercer	28	1645CST 1700CST	3	20	0	0	75K		Tornado (F1)
The weak tornado from earlier reports continued to travel east. It passed within 20 yards of a house in McLean Co. All the windows on the south side of the house were blown out. The family car was picked up and spun 180 degrees around. A 1-ton pickup was moved 7 feet. Numerous shingles were torn off of the roof of the house. The occupants of the house had just gotten home and into the basement before the tornado hit. Property damage and path length/width estimated.									
Burleigh County									
2 NW Menoken	28	1648CST			0	0			Hail (1.50)
Sheridan County									
10 N Mcclusky	28	1700CST			0	0			Hail (1.00)
Kidder County									
Robinson	28	1735CST 1740CST			0	0			Hail (0.75)
Kidder County									
Dawson	28	1830CST			0	0			Hail (0.75)
Logan County									
12 S Napoleon	28	1855CST			0	0	0	150K	Hail (0.75)
Wheat crops that were ready for harvest were completely devastated from the strong winds and hail. Overnight farmers that were looking at a great harvest were now trying to determine if they would get a harvest at all. Crop damage estimated.									
Stutsman County									
Streeter	28	1925CST			0	0			Hail (2.00)
La Moure County									
Marion	28	2115CST			0	0	80K	0	Thunderstorm Wind (G70)
Strong thunderstorm winds destroyed an 81,000 bushel grain bin in Marion.									
<u>NORTH DAKOTA, East</u>									
Griggs County									
Binford	05	1715CST			0	0			Thunderstorm Wind (G58)
Grand Forks County									
Johnstown	05	1800CST			0	0	1K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, East</u>									
Several large tree limbs down.									
Grand Forks County Grand Forks	05	1830CST			0	0	25K		Thunderstorm Wind
									Roof torn off trailer.
Barnes County Sibley	05	1833CST			0	0	0.50K		Thunderstorm Wind
									Large tree limbs down.
Richland County Wyndmere	11	1715CST			0	0		10K	Hail (1.00)
Richland County Wahpeton	11	1745CST			0	0			Hail (0.75)
Pembina County Pembina	13	1730CST			0	0			Hail (1.00)
Pembina County St Thomas	13	1745CST			0	0			Hail (1.00)
Walsh County 8 N Grafton	13	1805CST			0	0	0.50K		Thunderstorm Wind
									Large tree limbs down.
Grand Forks County 5 N Niagara	13	1900CST			0	0			Hail (0.75)
Walsh County 2 NW Adams	13	1920CST			0	0			Hail (0.75)
Grand Forks County 25 W Grand Forks	21	1325CST			0	0			Hail (1.75)
Grand Forks County 15 W Grand Forks	21	1342CST			0	0			Hail (0.75)
Grand Forks County Grand Forks	21	1357CST 1405CST			0	0	10M	100K	Hail (1.75)
									Major damage to homes, especially roof damage.
Towner County 1.5 N Perth	28	1511CST			0	0			Hail (1.00)
Benson County 7 NW Esmond	28	1555CST			0	0			Hail (0.75)
Towner County 12 SW Cando	28	1603CST			0	0			Hail (1.00)
Towner County 6 W Maza	28	1610CST			0	0			Hail (1.00)
Benson County Esmond	28	1610CST			0	0			Hail (1.00)
Towner County 12 SW Cando	28	1614CST			0	0			Hail (1.00)
									Hail covered the ground.
Benson County 9 NE Leeds	28	1630CST			0	0			Hail (1.00)
Benson County 10 NE Esmond	28	1639CST			0	0			Hail (1.00)
Ramsey County 2 E Churchs Ferry	28	1700CST			0	0			Hail (1.00)
Benson County 3 S Harlow	28	1702CST			0	0			Hail (1.00)
Benson County 10 N Maddock	28	1711CST			0	0			Hail (1.00)
Benson County 10 W Minnewaukan	28	1714CST			0	0			Hail (0.75)
Benson County 2.5 NW Sheyenne	28	1722CST			0	0			Hail (1.00)
Eddy County 2.5 NW Sheyenne	28	1722CST			0	0			Hail (1.00)
Eddy County 4.5 W Sheyenne	28	1730CST			0	0			Hail (1.00)
									Hail knocked out windows.

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH DAKOTA, East</u>									
Eddy County New Rockford	28	1800CST 1803CST			0	0	200K	100K	Hail (1.00)
Eddy County 2 SW New Rockford	28	1802CST 1805CST	1	25	0	0			Tornado (F0)
Eddy County 2 S New Rockford	28	1804CST			0	0	100K		Hail (4.50)
Eddy County 3 N Barlow	28	1810CST 1811CST	1	25	0	0			Tornado (F0)
Eddy County 2 W New Rockford	28	1823CST			0	0			Hail (1.00)
Eddy County 5 W New Rockford	28	1823CST			0	0			Hail (1.00)
Nelson County 10 S Lakota	29	1332CST 1336CST	2	50	0	0		50K	Tornado (F0)
		Grain flattened.							
<u>OHIO, East</u>									
Jefferson County Steubenville	03	0030EST			0	0			Hail (0.88)
Carroll County Oneida	03	0035EST			0	0	1K		Thunderstorm Wind
		A tree and a few branches were downed by thunderstorm winds.							
Muskingum County Dresden	13	1635EST			0	0	3K		Thunderstorm Wind
		Several large trees were downed by thunderstorm winds.							
Muskingum County New Concord	13	1705EST			0	0	1K		Thunderstorm Wind
		A large tree was downed by thunderstorm winds.							
Muskingum County Zanesville	13	1750EST			0	0			Hail (0.75)
Muskingum County Zanesville	13	1750EST 1800EST			0	0	5K		Thunderstorm Wind
		Trees and power lines were downed by thunderstorm winds in Zanesville.							
Muskingum County Zanesville	13	1800EST 1830EST			0	0			Flash Flood
		Numerous streets were flooded in Zanesville.							
Carroll County Malvern	16	1600EST			0	0	2K		Thunderstorm Wind
		Trees were downed by thunderstorm winds in Malvern.							
Carroll County Minerva	16	1605EST			0	0	2K		Thunderstorm Wind
		Trees were downed by thunderstorm winds.							
Columbiana County Hanoverton	16	1628EST			0	0	2K		Thunderstorm Wind
		Thunderstorm winds downed trees in Hanoverton.							
Columbiana County Lisbon	16	1637EST			0	0			Hail (0.75)
Noble County 1 E Caldwell	18	1415EST 1600EST			0	0			Flash Flood
		Duck Creek flooded parts of County Road 52 near Caldwell.							
Monroe County Laings	18	1415EST 1600EST			0	0			Flash Flood
		Small streams were out of their banks near Laings.							
Belmont County 1 S Bellaire	18	2140EST 2200EST			0	0			Flash Flood
		Pinch Run went out of its banks. A bridge and road were flooded.							
Monroe County 5 SW Graysville	19	1230EST			0	0	1K	3K	Thunderstorm Wind
		Thunderstorm winds blew corn in fields flat. Tree limbs were also downed.							

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, East									
Monroe County Graysville	19	1245EST 1250EST			0	0	3K		Thunderstorm Wind
			Thunderstorm winds downed power lines.						
Monroe County Rinard Mills	19 20	1310EST 0000EST			1	0			Flash Flood
			A four-year old boy was swept into the flood waters of the Little Muskingum River and drowned after severe thunderstorms dropped heavy rains across southern Monroe County.						
			Route 26 and other nearby roads were also flooded. Flood waters, along the Little Muskingum River near Rinard Mills, receded around 12 midnight EST. M4IW						
OHZ069									
Monroe	19	1600EST 2230EST			0	0			Flood
			Flood waters, along the Little Muskingum Creek River, in Rinard Mills, slowly receded by 1030 PM EST.						
Coshocton County West Lafayette	29	1730EST			0	0	2K		Thunderstorm Wind
			A tree was blown down onto power lines and was blocking a road.						
OHIO, North									
Lucas County Countywide	07	1700EST			0	0	10K		Thunderstorm Wind (G52)
			Trees and limbs were downed in several locations, particularly in the Toledo area, where wind gusts of 50 to 60 miles per hour were reported and the roof was blown off a building in the downtown area.						
Ottawa County Oak Harbor	07	1710EST			0	0			Thunderstorm Wind (G50)
			Many large tree branches were downed.						
Erie County Sandusky	07	1812EST			0	0			Thunderstorm Wind (G50)
			Several trees and large branches were downed.						
Stark County Nw Portion	07	1900EST			0	0	100K		Lightning
			In Canal Fulton, lightning struck and almost completely destroyed a house, its garage and contents, including two vehicles. A house was struck by lightning in Jackson Township. The attic and two bedrooms were damaged.						
Stark County Countywide	07	1930EST			0	0			Hail (0.88)
Stark County Countywide	07	1930EST			0	0	100K		Thunderstorm Wind (G70)
			Trees were downed, some on power lines. Winds were reported gusting to 80 miles per hour. In Canton, a tree fell on a house and at least one on a car and roads were blocked by fallen trees. Trees were also downed in Plain Township, where the steeple of a church was knocked off. Downed trees and limbs were common in Jackson Township, Perry Township, and Lawrence Township where a transformer was set on fire. Trees were also down in Canal Fulton and Avonlea. Roads were blocked by fallen trees in Massillon.						
Stark County Osnaburg Twp	07	1950EST			0	0	20K		Lightning
			Lightning hit an oil storage tank. The tank was blown onto a nearby lawn, narrowly missing a house. The oil was dumped into Little Sandy Creek, where most of it was contained.						
Medina County Guilford Twp	07	1955EST			0	0			Thunderstorm Wind (G60)
			Several trees were downed along with a number of power lines, some of which caused small fires just northeast of Seville.						
Medina County Wadsworth	07	2020EST			0	0			Thunderstorm Wind (G61)
			Several trees were downed in the Memorial Park area. Winds were reported gusting up to 70 miles per hour.						
Medina County Wadsworth	07	2020EST			0	0			Hail (0.88)
Wayne County Rittman	07	2035EST			0	0			Hail (0.75)
Wayne County Chippewa Twp	07	2040EST			0	6	30K		Thunderstorm Wind (G60)
			Trees were snapped off and outbuildings were destroyed. Six people were injured when a large tree fell on a van. Five of them were treated and released while the sixth was held for observation.						
Wayne County 1 NW Doylestown	07	2045EST 2047EST	1.3	75	0	0	30K		Tornado (F1)
			A small tornado touched down on Route 94 just east of Rittman and proceeded southeast toward Doylestown. It either lifted or dissipated before reaching Doylestown. There was evidence of downburst winds near Doylestown. Numerous trees were downed in a wooded area and a small shed was blown over.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Summit County Franklin Twp	07	2045EST			0	0	10K		Thunderstorm Wind
			Trees and power lines were downed, at least one tree on a house.						
Summit County Clinton	07	2046EST			0	0			Hail (0.75)
Stark County Countywide	07	2054EST			0	0			Hail (1.75)
			Large hail fell at a number of locations including Canal Fulton, Massillon, Canton and Plain Township. Most reports were of hail less than one inch in diameter, but Plain Township reported 1.75 inch diameter hail.						
Ashtabula County Geneva On The Lake	07	2100EST			0	0			Thunderstorm Wind (G60)
			Two trees were uprooted.						
Marion County Southern Portion	07	2115EST			0	0			Thunderstorm Wind (G60)
			Several trees were downed at Waldo and Prospect.						
Morrow County Cardington	07	2119EST			0	0			Hail (0.88)
Stark County Northwest Portion	07	2120EST			0	0			Thunderstorm Wind (G60)
			Several large trees were downed in Lawrence and Jackson Townships, some over roads.						
Summit County Greensburg	07	2120EST			0	0	4K		Thunderstorm Wind (G60)
			A number of trees were downed.						
Stark County Belden Village	07	2124EST			0	0			Hail (0.88)
Stark County Canton	07	2125EST			0	0			Flash Flood
			Roads and low lying areas were flooded. Some roads were covered with up to twelve inches of water.						
Stark County Countywide	07	2127EST			0	0	4K		Thunderstorm Wind (G70)
			Trees and large branches were downed, particularly at Massillon and Hills and Dales. A wind gust of 70 mph was reported at Routes 77 and 62.						
Richland County Southwest Portion	07	2152EST			0	0	3K		Thunderstorm Wind (G50)
			Numerous trees and limbs were downed.						
Ashland County Southern Portion	07	2230EST			0	0			Thunderstorm Wind (G60)
			Trees were downed, especially around Loudonville and Widowville.						
Geauga County Welshfield	13	2055EST			0	0			Hail (0.75)
Portage County Geauga Lake Park	13	2100EST			0	2			Lightning
			Two people were injured when struck by lightning in the park parking lot. Injuries were minor.						
Trumbull County Champion Twp	13	2130EST			0	0	20K		Thunderstorm Wind (G60)
			Fifteen to twenty trees were downed in a path 1 to 1 1/2 miles long and 40 yards wide. A house suffered some structural damage.						
Trumbull County Cortland	13	2146EST			0	0			Hail (0.88)
Erie County Sandusky	14	2000EST			0	0	20K		Thunderstorm Wind
			A luxury condo development going up by the Sandusky Mall was damaged. Part of one of the buildings fell on a vehicle.						
Geauga County Chardon	16	1215EST			0	0			Hail (0.88)
Trumbull County Kinsman	16	1359EST			0	0			Thunderstorm Wind (G60)
			Trees were downed at Routes 87 and 7 and also near Routes 87 and 193.						
Geauga County Burton	16	1403EST			0	0			Flash Flood
			Heavy thunderstorm rain caused flooding of streets and low lying areas.						
Mahoning County Goshen Twp	16	1700EST			0	0	100K		Thunderstorm Wind (G60)
			Trees were downed, some on power lines. One hundred trees in an apple orchard were damaged or destroyed and a barn roof was damaged. A tree fell on a house, another on a pickup truck and one on a modular home. Cabins, awnings and campers were damaged at Ponderosa Park.						
Trumbull County Southington Twp	16	1830EST			0	0	10K		Thunderstorm Wind

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
									Trees and at least one electric pole were downed and 2 chimneys were blown over in the area of Routes 305 and 422.
Summit County Stow	16	1908EST			0	0			Hail (0.75)
Trumbull County Hartford	16	2000EST			0	0			Thunderstorm Wind
									Several trees and branches were downed.
Portage County Hiram	16	2100EST			0	0			Hail (0.75)
Cuyahoga County Independence	16	2120EST			0	0			Thunderstorm Wind
									Two trees were blown over near Interstate 77 and Rockside.
Trumbull County Countywide	16	2238EST			0	0			Flash Flood
									Heavy thunderstorm rain caused flooding of low lying areas and numerous roads.
Ashtabula County Cherry Valley	18	2357EST			0	0			Hail (0.75)
Lake County Painesville	19	0110EST			0	0			Flash Flood
									Heavy thunderstorm rain caused flooding of roads and low lying areas.
Henry County Napoleon	24	1620EST			0	0			Thunderstorm Wind (G55)
									Two trees were downed.
Ashtabula County Monroe Center	24	1730EST			0	0			Thunderstorm Wind (G55)
									One tree and several large branches were downed.
Wood County Lime City	24	1730EST			0	0			Thunderstorm Wind (G55)
									One tree and several large branches were downed.
Sandusky County Fremont	24	1736EST			0	0			Thunderstorm Wind (G50)
									Several large branches were downed, some on power lines.
Huron County Hartland	24	1900EST			0	0	10K		Thunderstorm Wind (G50)
									A tree was downed on a house.
Cuyahoga County Cleveland	24	2040EST			0	3			Lightning
									Lightning struck a church at East 260th and Euclid. Minor injuries were reported.
Lorain County Lake Erie	26	0700EST			0	0			Waterspout
									Water spouts were reported offshore five to ten miles north of Vermilion. They did not come ashore and there was no known damage.
Cuyahoga County Lake Erie	26	0720EST 0741EST			0	0			Waterspout
									Waterspouts were reported offshore north and northwest of Bay Village, moving eastward. The tower at Burke Lakefront Airport also reported a water spout three to five miles north of the lakeshore. They did not come ashore and there was no known damage.
Ashtabula County Lake Erie	26	1530EST			0	0			Waterspout
									A waterspout was reported offshore within an area of showers and thunderstorms just north of Conneaut. It did not come ashore and there was no known damage.
Hancock County Eastern Half	29	1323EST			0	0	40K		Thunderstorm Wind (G65)
									A 26 foot travel trailer was overturned near Findlay and a barn was destroyed in Vanlue.
Wyandot County Carey	29	1350EST			0	0	5K		Thunderstorm Wind (G63)
									Numerous trees and power lines were downed. A spotter reported a wind gust of 72 miles per hour.
Seneca County Adrian	29	1350EST			0	0	2K		Thunderstorm Wind (G50)
									Large limbs and power lines were downed and a corn crop was damaged.
Wyandot County Carey	29	1438EST			0	0			Hail (0.75)
Wyandot County Countywide	29	1438EST			0	0	4K		Thunderstorm Wind
									Large tree limbs were downed in several locations. The corn crop was damaged in Carey and McCutchenville
Wyandot County Carey	29	1454EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, North									
Heavy thunderstorm rain caused flooding of streets and low lying areas. The post office parking lot was under three to four feet of water.									
Hancock County Vanlue	29	1500EST			0	0			Flash Flood
Heavy thunderstorm rain caused flooding of streets, streams and low lying areas.									
Seneca County Southern Portion	29	1540EST			0	0			Flash Flood
Heavy thunderstorm rain caused flooding of roads and low lying areas.									
Ashtabula County Conneaut	29	1635EST			0	0			Hail (0.75)
Henry County Holgate	30	0730EST			0	0			Thunderstorm Wind (G50)
Several large limbs were downed.									
Hancock County Fostoria	30	0830EST			0	0			Thunderstorm Wind (G50)
Several large limbs were downed, some on power lines.									
Erie County Groton Twp	30	1000EST			0	0	75K		Lightning
A lightning strike to a satellite dish caught a house on fire. The garage and its contents, including a restored 1949 Chevrolet pickup truck and two race cars, were destroyed.									
Medina County Lodi	30	1500EST			0	0	20K		Thunderstorm Wind (G70)
A microburst just north of Lodi blew a roof off a farmhouse and downed several large trees. A tree was toppled on a house at an adjacent farm, causing minor damage. The damage path varied from about 300 feet to one quarter mile wide. Winds were estimated to 80 miles per hour.									
OHIO, Northwest									
Defiance County Defiance	29	0930EST 0935EST			0	0			Thunderstorm Wind (G60)
TREES WERE BLOWN DOWN IN DEFIANCE, OHIO.									
OHIO, Southeast									
Washington County New Matamoras to Bloomfield	19	1430EST 1730EST			0	0	5K		Flash Flood
Streams flooded across county roads. No homes were affected.									
Washington County Marietta to Reno	29	1915EST 2200EST			0	0	8K		Flash Flood
Rainfall of 1.5 to 2.0 inches in an hour fell. Mobile homes were isolated and surrounded by flooding. Route 7 was blocked.									
Morgan County Triadelphia	30	1315EST			0	0	2K		Thunderstorm Wind
Six 18 inch diameter trees were downed along County Road 74.									
Morgan County Bristol	30	1320EST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Athens County Nelsonville	30	1420EST			0	0			Hail (1.00)
Athens County Millfield	30	1425EST			0	0	2K		Thunderstorm Wind
Trees were uprooted along County Road 29.									
Washington County Vincent	30	1442EST			0	0			Hail (0.75)
Washington County Barlow	30	1449EST			0	0	2K		Thunderstorm Wind
Trees fell across power lines.									
Gallia County Southern Portion	31	0230EST 0600EST			0	0	50K		Flash Flood
Lawrence County Countywide	31	0230EST 0700EST			0	0	400K	100K	Flash Flood
Late night and predawn thunderstorms moved out of northeast Kentucky and dumped 2 to 4 inches of rain in less than 6 hours across Lawrence and southern Gallia Counties. Gallipolis									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southeast									
			measured 4.7 inches in the 24 hour period. Waterloo had 4 inches of rain. No evacuations were reported, but water got into 25 to 40 homes. The hardest hit region was around Pedro, Waterloo, and Scottown of Lawrence County. Corn and tobacco crops were also lost. In southern Gallia County some vehicles were damaged in the Sand Fork to Mercerville vicinity.						
OHIO, Southwest									
Hamilton County Colerain	07	1748EST 1750EST			0	0			Hail (0.88)
Butler County Okeana	07	1754EST 1757EST			0	0	5K		Thunderstorm Wind (G60)
			Numerous trees downed.						
Hamilton County Springdale	07	1802EST 1805EST			0	0			Hail (0.88)
Butler County Middletown	07	1815EST 1820EST			0	0	5K		Thunderstorm Wind (G50)
			Numerous trees downed.						
Hamilton County Mt Healthy	07	1840EST 1845EST			0	0			Hail (0.75)
Warren County Lebanon	07	1840EST 1845EST			0	0			Hail (0.88)
Butler County Ross	07	1845EST 1850EST			0	0	20K		Thunderstorm Wind (G50)
			Numerous trees and power lines downed. Roof blown off house.						
Clinton County Wilmington	07	1915EST 1920EST			0	0	5K		Thunderstorm Wind (G50)
			Numerous large trees limbs downed.						
Darke County New Madison	07	2000EST 2005EST			0	0	5K		Thunderstorm Wind (G50)
			Numerous trees and power lines downed.						
Champaign County Christiansburg	07	2004EST 2010EST			0	0	50K		Thunderstorm Wind (G50)
			Numerous trees downed. Five Trailers damaged.						
Miami County Troy	07	2005EST 2010EST			0	0	5K		Thunderstorm Wind (G50)
			Numerous trees downed.						
Hamilton County Blue Ash	07	2013EST			0	0	150K		Lightning
			Lightning struck a home and started a fire causing extensive damage.						
Clark County Springfield	07	2015EST 2020EST			0	0	4K		Thunderstorm Wind (G50)
			Numerous trees and power lines downed.						
Union County Raymond	07	2042EST 2045EST			0	0			Hail (0.75)
Clark County New Moorefield	07	2050EST 2055EST			0	0	3K		Thunderstorm Wind (G50)
			Numerous power lines downed.						
Hamilton County Norwood	07	2055EST 2115EST			0	0			Flash Flood
			Persistent heavy rainfall caused a foot of water to rise over Interstate 275.						
Delaware County Radnor	07	2110EST 2115EST			0	0	3K		Thunderstorm Wind (G50)
			Numerous trees downed.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southwest									
Hamilton County Cincinnati	07	2230EST			0	0	50K		Lightning
									Lightning struck 3 homes causing separate damaging fires.
Franklin County Worthington	17	2130EST 2135EST			0	0	5K		Thunderstorm Wind (G50)
									Numerous trees downed.
Shelby County Kettlersville	17	2315EST			0	0	50K		Lightning
									A family farmhouse was destroyed by a fire that started with a lightning strike.
Delaware County Delaware	18	0330EST			0	0	620K		Lightning
									Lightning struck a free-standing garage causing extensive damage.
Delaware County Cheshire	18	0350EST			0	0	20K		Lightning
									Lightning struck a residence causing extensive roof damage.
Franklin County Columbus	18	0410EST 0430EST			0	0			Flash Flood
									Numerous streets flooded with a few being closed.
Van Wert County Countywide	18	0755EST 1130EST			0	0			Flash Flood
Allen County Countywide	18	0800EST 1115EST			0	0			Flash Flood
Fairfield County Lancaster	24	1412EST 1417EST			0	0	5K		Thunderstorm Wind (G50)
									Numerous trees downed.
Fairfield County Pleasantville	24	1500EST 1505EST			0	0	4K		Thunderstorm Wind (G50)
									Numerous trees downed.
Butler County Hamilton	24	2000EST 2005EST			0	2	4K		Thunderstorm Wind (G50)
									Numerous trees downed. Two boys were injured when large limbs fell on them.
Scioto County Portsmouth	29	1420EST 1425EST			0	0			Hail (0.88)
Clermont County Franklin Twp	29	2030EST			0	0	25K		Flash Flood
									Bridge washed out by high water.
Van Wert County Van Wert	30	0645EST 0650EST			0	0	3K		Thunderstorm Wind (G50)
									Numerous trees and power lines downed.
Putnam County Ottawa	30	0805EST 0810EST			0	0			Hail (0.75)
Franklin County Columbus	30	1140EST 1145EST			0	0	3K		Thunderstorm Wind (G50)
									Numerous trees downed.
Franklin County Pickerington	30	1150EST 1155EST			0	0	3K		Thunderstorm Wind (G50)
									Numerous trees downed.
Licking County Alexandria	30	1200EST 1205EST			0	0	3K		Thunderstorm Wind (G50)
									Numerous trees downed.
Hocking County Murray City	30	1400EST 1405EST			0	0			Hail (1.25)
Franklin County Columbus	30	1400EST 1500EST			0	0	3K		Flash Flood

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OHIO, Southwest									
Persistent heavy rainfall flooded city streets.									
Scioto County Countywide	31	0055EST 0345EST			0	0			Flash Flood
OKLAHOMA, Extreme Southeast									
NONE REPORTED.									
OKLAHOMA, Northeast									
Tulsa County Tulsa	02	1650CST			0	0			Hail (0.75)
Tulsa County Tulsa	02	1652CST			0	0			Hail (0.75)
Tulsa County Tulsa	02	1658CST			0	0			Hail (0.75)
Rogers County 2 SW Oologah	04	0550CST			0	0			Thunderstorm Wind (G56)
Ottawa County Miami	04	0555CST			0	0	0.10K		Thunderstorm Wind
Craig County Nr Hollow	04	0555CST			0	0	0.10K		Thunderstorm Wind
Nowata County 4 E Nowata	04	0605CST			0	0			Thunderstorm Wind (G52)
Delaware County Grove	04	0630CST			0	0	0.10K		Thunderstorm Wind
Cherokee County 3 NE Tahlequah	04	1100CST			0	2			Lightning
Cherokee County 2 SW Peggs	05	0210CST			0	0			Hail (0.75)
Cherokee County 3 E Hulbert	05	0250CST			0	0	0.10K		Thunderstorm Wind
Cherokee County Hulbert	05	0250CST			0	0	10K		Thunderstorm Wind
Mayes County 2 W Pensacola	06	1920CST			0	0			Hail (0.75)
Pittsburg County 6 W Haywood	07	2330CST			0	0	15K		Thunderstorm Wind
Washington County Copan	08	0220CST			0	0			Thunderstorm Wind (G52)
Nowata County Nowata	08	0320CST			0	0			Thunderstorm Wind (G56)
Ottawa County 2 SW Ottawa	08	0330CST			0	0	20K		Thunderstorm Wind
Craig County 3 SSW Welch	08	0340CST			0	0	0.10K		Thunderstorm Wind
Ottawa County 6 ESE Miami	08	0402CST			0	0	15K		Thunderstorm Wind
Ottawa County Fairland	08	0405CST			0	0	0.10K		Thunderstorm Wind
Ottawa County 8 E Miami	08	0405CST			0	0	0.10K		Thunderstorm Wind
Osage County Wynona	22	1832CST			0	0			Thunderstorm Wind (G52)
Osage County Wynona	22	1832CST			0	0			Hail (0.75)
Osage County Wynona	22	1835CST			0	0			Hail (0.75)
Osage County Wynona	22	1835CST			0	0			Thunderstorm Wind (G52)
Tulsa County 1 NE Owasso	22	1915CST			0	0			Hail (0.75)
Tulsa County 1 NE Owasso	22	1918CST			0	0			Hail (0.75)
Creek County Shamrock	22	2000CST			0	0			Thunderstorm Wind (G52)
Osage County Fairfax	22	2000CST			0	0	0.10K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Northeast									
Tulsa County Tulsa	22	2003CST			0	0			Thunderstorm Wind (G52)
Tulsa County Tulsa	22	2005CST			0	0			Thunderstorm Wind (G52)
Tulsa County Tulsa	22	2006CST			0	0			Hail (1.00)
Tulsa County Tulsa	22	2010CST			0	0			Hail (0.75)
Osage County 2 NW Tulsa	22	2010CST			0	0	0.10K		Thunderstorm Wind
Tulsa County Tulsa	22	2015CST			0	0	1K		Thunderstorm Wind
Tulsa County Tulsa	22	2015CST			0	0	0.10K		Thunderstorm Wind
Tulsa County Tulsa	22	2016CST			0	0			Hail (1.00)
Rogers County 4 W Inola	22	2020CST			0	0			Thunderstorm Wind (G52)
Creek County Sapulpa	22	2030CST			0	0	0.10K		Thunderstorm Wind
Tulsa County Tulsa	22	2030CST			0	0	110K		Thunderstorm Wind
Tulsa County Tulsa	22	2030CST			0	0	0.10K		Thunderstorm Wind
Tulsa County Tulsa	22	2032CST			0	0	10K		Thunderstorm Wind (G60)
Tulsa County Tulsa	22	2035CST			0	0			Thunderstorm Wind (G61)
Creek County Kellyville	22	2112CST			0	0			Thunderstorm Wind (G56)
Tulsa County 4 N Glenpool	22	2114CST			0	0			Hail (0.88)
Osage County 3 N Sand Spgs	22	2120CST			0	0			Thunderstorm Wind (G52)
Okmulgee County Beggs	22	2120CST			0	0			Hail (0.75)
Okfuskee County Weleetka	22	2135CST			0	0	0.10K		Thunderstorm Wind
Okmulgee County Okmulgee	22	2144CST			0	0			Hail (0.88)
Mcintosh County Hitchita	22	2200CST			0	0			Thunderstorm Wind (G56)
Wagoner County Tulahassee	22	2200CST			0	0			Thunderstorm Wind (G52)
Muskogee County Haskell	22	2205CST			0	0			Thunderstorm Wind (G56)
Wagoner County 7 E Broken Arrow	22	2225CST			0	0			Thunderstorm Wind (G52)
Wagoner County Okay	22	2230CST			0	0			Thunderstorm Wind (G52)
Mcintosh County Checotah	22	2238CST			0	0			Thunderstorm Wind (G52)
Muskogee County Boynton	22	2240CST			0	0			Thunderstorm Wind (G56)
Tulsa County 1 N Collinsville	24	1300CST			0	0			Hail (0.75)
Osage County Pawhuska	25	0145CST			0	0			Hail (0.88)
Craig County 1 E Ketchum	25	0315CST			0	0			Hail (0.75)
Cherokee County 3 S Cookson	29	1700CST			0	0			Thunderstorm Wind (G52)
Sequoyah County 9 N Vian	29	1715CST			0	0	0.10K		Thunderstorm Wind
Sequoyah County 7 NW Vian	29	1730CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OKLAHOMA, Northeast</u>									
Mcintosh County Stidham	29	1800CST			0	0			Thunderstorm Wind (G52)
Mayes County 3 W Pensacola	29	2135CST			0	0			Hail (0.75)
Tulsa County 4 S Owasso	29	2205CST			0	0			Hail (1.75)
Tulsa County Tulsa	29	2207CST			0	0			Thunderstorm Wind (G61)
Rogers County Catoosa	29	2210CST			0	0	0.10K		Thunderstorm Wind
Rogers County Catoosa	29	2210CST			0	0			Hail (1.75)
Rogers County Catoosa	29	2215CST			0	0			Hail (1.00)
Rogers County Catoosa	29	2215CST			0	0			Hail (0.88)
Rogers County 3 N Inola	29	2245CST			0	0			Hail (0.75)
Mayes County 4 W Pryor	29	2246CST			0	0			Hail (0.75)
Mayes County 6 SW Pryor	29	2255CST			0	0			Thunderstorm Wind (G52)
Mayes County 5 S Pryor	29	2258CST			0	0			Hail (0.75)
Muskogee County 4 S Haskell	29	2320CST			0	0			Thunderstorm Wind (G50)
Mayes County Chouteau	29	2335CST			0	0	0.50K		Thunderstorm Wind
Delaware County 2 N Kansas	30	0000CST			0	0			Thunderstorm Wind (G52)
Cherokee County Welling	30	0015CST			0	0	0.10K		Thunderstorm Wind
Adair County Watts	30	0025CST			0	0	0.10K		Thunderstorm Wind
Sequoyah County 6 NE Gore	30	0035CST			0	0	0.10K		Thunderstorm Wind
Sequoyah County 7 NW Vian	30	0035CST			0	0			Thunderstorm Wind (G52)
Adair County Westville	30	0045CST			0	0	0.10K		Thunderstorm Wind
<u>OKLAHOMA, Panhandle</u>									
Texas County Guymon	08	1815CST			1	0			Lightning
					Male, 34 years old, was struck by lightning on top of railroad car and later died. M34OU				
Texas County Hardesty	08	1825CST			0	0			Hail (1.75)
					Thunderstorms across the central Oklahoma panhandle produced deadly lightning and hail as reported by Guymon Oklahoma Highway Patrol.				
Cimarron County 3 SSE Boise City	22	1325CST			0	0			Thunderstorm Wind (G54)
Texas County Texhoma	22	1423CST			0	0			Thunderstorm Wind (G69)
Texas County Eva	22	1425CST			0	0			Hail (1.75)
Texas County 2 S Eva	22	1425CST			0	0			Hail (0.88)
Texas County Guymon	22	1425CST			0	0			Thunderstorm Wind (G61)
Texas County Goodwell	22	1450CST			0	0			Thunderstorm Wind (G61)
Beaver County Bryans Corner	22	1525CST			0	0	50K		Thunderstorm Wind (G61)
Cimarron County Felt	22	1535CST			0	0			Tstm Wind/Hail
					Fire chief reported 61 knot wind gust along with the hail.				

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Panhandle									
Cimarron County									
Boise City	22	1548CST			0	0			Hail (0.75)
Cimarron County									
Felt	22	1606CST			0	0			Hail (0.75)
			Guymon Oklahoma Highway Patrol reported that the hail covered the ground up to 6 inches to 1 foot deep.						
Cimarron County									
Keyes	22	1620CST			0	0			Hail (0.75)
			Thunderstorms across the Oklahoma panhandle produced high winds and hail as reported by Oklahoma Mesonet, local radio stations, and law enforcement agencies.						
Texas County									
Optima	23	2150CST			0	0			Tstm Wind/Hail
			National Weather Service spotter reported 0.75 inch hail along with the high winds estimated at 65 mph.						
Texas County									
1 W Hooker	23	2210CST			0	0			Thunderstorm Wind (G62)
Beaver County									
Turpin	23	2330CST			0	0	50K		Thunderstorm Wind (G61)
Beaver County									
Beaver	23	2330CST			0	0	25K		Thunderstorm Wind (G52)
			Thunderstorms across the central and eastern Oklahoma panhandle produced hail and damaging winds as reported by spotters and emergency coordinator. The high winds damaged a church in Turpin and blew down power lines in Beaver.						
Cimarron County									
1 W Felt	31	2040CST			0	0			Hail (1.00)
			Thunderstorm over the western Oklahoma panhandle produced hail as reported by National Weather Service spotter.						
OKLAHOMA, Western, Central and Southeast									
Blaine County									
4.5 N Watonga	01	1430CST			0	0	1K		Thunderstorm Wind
			Severe thunderstorm winds, probably from a collapsing thunderstorm, blew down trees and caused other damage along a path northwest to southeast through Roman Nose State Park. At least 12 trees were uprooted and numerous limbs were downed. Some shingles were blown off park buildings, 2 television antenna were blown down, and a fence was blown over along this damage path.						
OKZ010-020-025>026-046									
			Woodward - Payne - Oklahoma - Lincoln - Carter						
	01	1500CST			7	0			Excessive Heat
	07	2000CST							
			High temperatures topped the century mark in central Oklahoma through the first week of July. On July 1, the high in Oklahoma City (at OKC) reached 102 degrees, then 104 on the 2nd, 103 on the 3rd, 105 on the 4th, 108 on the 5th, 110 on the 6th, and 106 on the 7th. During this prolonged period of hot temperatures, 7 deaths were attributed to the excessive heat.						
			All of the victims were elderly and all but one were in their homes without air conditioning. The first fatality was an 80-year-old woman who was found the morning of July 4th in her unairconditioned home in Chandler in Lincoln County. The second fatality was a 66-year-old man in Woodward in Woodward County. This man was also in his home and his evaporative cooler had stopped working.						
			The third death was a 67-year-old man who was found in his home in Cushing in Payne County on July 5th. His air conditioner was not working when he was found. The fourth victim, an 87-year-old woman, was found on July 7th in her unairconditioned home in northeast Oklahoma City in Oklahoma County. The fifth fatality was an 87-year-old man who was found in his apartment in downtown Oklahoma City on July 8th.						
			The sixth heat-related death was a 71-year-old man who was found in his apartment in Ardmore in Carter County on July 8th. The seventh and last death that was attributed to the excessive heat was that of an 89-year-old man who had wandered away from a nursing home in Carnegie in Caddo County. The man was found on July 4th in a field on the edge of town and had died from exposure to the heat. M66PH, M67PH, F83PH, M87PH, F80PH, M89OU, M71PH						
OKZ023>025-029									
			Caddo - Canadian - Oklahoma - Cleveland						
	02	1720CST			0	0			Summary Of July 2
		2150CST							
			Severe thunderstorms in central Oklahoma produced hail as large as quarters in Oklahoma City in Oklahoma County and wind gusts estimated to be as high as 85 mph northwest of Karnes Station in Canadian County. Wind damage was widespread, particularly in Oklahoma County. See following individual Storm Data entries for further details and additional reports.						
Caddo County									
2 N Cyril	02	1725CST			0	0	5.5K		Thunderstorm Wind (G65)
			Severe thunderstorm winds estimated at 75 mph blew over a large tree, snapped a few telephone poles, destroyed a barn, and blew shingles off houses.						
Canadian County									
9 NW Karnes Station	02	1745CST			0	0			Thunderstorm Wind (G74)
			Severe thunderstorm winds estimated at 85 mph downed trees as large as 4 feet in diameter.						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Canadian County 9 NW Karnes Station	02	1745CST			0	0			Hail (0.75)
Oklahoma County Oklahoma City	02	1750CST			0	0			Thunderstorm Wind (G61)
at the intersection of Wilshire and Kelly Roads									
Oklahoma County Oklahoma City	02	1750CST			0	0			Hail (0.88)
at the intersection of Wilshire and Kelly Roads									
Oklahoma County Oklahoma City	02	1800CST			0	0			Hail (1.00)
Oklahoma County Oklahoma City	02	1802CST			0	0			Thunderstorm Wind
A 2-foot diameter tree was blown down at NW 50th and Rockwell.									
Oklahoma County Oklahoma City	02	1815CST 1845CST			0	0	2M		Thunderstorm Wind
<p>A severe thunderstorm moved through the Oklahoma City metro area, producing strong and damaging winds. At least 4000 people in the metro area lost power due to the strong winds during the peak of the storm, with the most damage in Bethany, Warr Acres, and northwest Oklahoma City between Memorial Road and NW 38th west of Western Avenue. The Daily Oklahoman Newspaper reported an estimated \$2 million in damage.</p> <p>A damage survey was conducted by an experienced spotter the day after the storm, mainly over a nine-square-mile area bounded by 36th Street, Rockwell Avenue, Wilshire Boulevard, and Portland Avenue. The survey revealed that most of this area had received winds between 55 and 65 mph with considerable tree damage.</p> <p>Within this broad area of damage, two distinct downburst centers were apparent, one just west of Portland between NW 50th Street and NW 63rd Street and the other just west of MacArthur and just north of NW 63rd Street. Wind speeds near both of these centers were estimated at 75 to 85 mph.</p> <p>Minor roof damage was widespread, with major damage at several locations. Roofs were blown off of apartment buildings at the Westpointe Apartments on Lyrewood Lane. Roofs were also removed from a building at nearby Knight Lake Apartments and a laundry room at Swan Lake Apartments. Severe thunderstorm winds destroyed roofs on an office building at 8200 N. Classen and a small building at 3737 NW 50th.</p> <p>Other structural damage included a wall that caved in at a carpet store at 5858 NW 50th and a trailer that was overturned along the southbound Broadway Extension south of Wilshire Boulevard. Plate glass windows were blown out of several stores on the north side of a strip shopping center.</p> <p>One tree blown down by the strong winds blocked traffic along NW 39th and Meridian Avenue, and another tree was blown over across Wilshire Blvd. and Santa Fe Avenue. The severe winds blew down large tree limbs and scattered them throughout the area.</p>									
Cleveland County Slaughterville	02	1915CST			0	0	0.50K		Thunderstorm Wind
Electrical lines were blown down by the strong winds.									
Cleveland County 5 NE Noble	02	2000CST			0	0	0.50K		Thunderstorm Wind
Several power lines and 2 utility poles were blown down.									
Oklahoma County Oklahoma City	02	2150CST			0	0			Thunderstorm Wind (G52)
Near NW 50th and Broadway several trees were downed by strong winds, some as large as 8 inches in diameter. Also, power was out in some areas for more than two hours.									
OKZ041-046	Murray - Carter								
	03	1505CST 1645CST			0	0			Summary Of July 3
Severe thunderstorms in south central Oklahoma produced hail as large as golf balls near Wilson and severe winds that damaged trees in Healdton in Carter County. See following individual Storm Data entries for further details and additional reports.									
Carter County Healdton	03	1510CST			0	0	0.01K		Thunderstorm Wind
Severe thunderstorm winds split several trees throughout Healdton.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
OKLAHOMA, Western, Central and Southeast									
Carter County 2 N Wilson	03	1528CST			0	0			Hail (1.75) Quarter to golf ball sized hail covered the ground up to 2 inches deep and stripped many trees of their leaves.
Murray County Sulphur	03	1644CST			0	0			Hail (0.88)
Atoka County 5 E Stringtown	04	1615CST			0	0			Hail (0.75)
Stephens County Duncan	07	2300CST			0	0			Lightning Lightning struck and set fire to a house, setting it on fire. The house burned completely to the ground. A 14-year old child died in the fire.
OKZ024>025-031	Canadian - Oklahoma - Seminole								
	11	0055CST 1300CST			0	0			Summary Of July 11 Repeated heavy rainfall over portions of central Oklahoma resulted in flash flooding in the Oklahoma City metro area and in Seminole County. See following individual Storm Data entries for further details and additional reports.
Oklahoma County Oklahoma City	11	0100CST 0600CST			0	0			Flash Flood Numerous streets were closed across southwestern, western, and northern portions of Oklahoma City due to high water. Reno was closed near MacArthur and Rockwell, the intersection of Reno and Council Roads was closed, and 36th was closed near Broadway. At NE 36th and Midwest Boulevard, the road was blocked by 2 stalled cars. The bridge at Cimarron Road and NW 10th between Yukon and El Reno was also closed due to high water.
Canadian County Yukon	11	0530CST 1300CST			0	0			Flash Flood Due to the high water, Highway 4 was closed at Wagner Road.
Seminole County Seminole	11	0610CST			0	0			Flash Flood Portions of HWY 3E were under water between Seminole and Bowlegs; numerous streets were closed in Seminole.
Canadian County 1 E Yukon	11	1000CST			0	0			Flash Flood The road was washed out at North 50th street and Morgan Road.
Seminole County Seminole	13	0900CST			0	0			Flash Flood Heavy rains flooded the Seminole Municipal Park, completely submerging the baseball fields and drainage ditches. An old oil storage tank was washed away by flash flood waters into a swollen creek.
Woods County 1 S Alva	21	1645CST			0	0			Hail (0.75)
OKZ007>008-013-019-025	Grant - Kay - Noble - Logan - Oklahoma								
	22	1755CST 2000CST			0	0			Summary Of July 22 Severe thunderstorms in north central and central Oklahoma produced wind gusts up to 62 mph, measured at the Oklahoma Mesonet site near Red Rock in Noble County. Severe winds also damaged a mobile home in Logan County and downed tree limbs throughout the region. See following individual Storm Data entries for further details and additional reports.
Grant County 6 NNE Medford	22	1800CST			0	0	0.01K		Thunderstorm Wind Severe thunderstorm winds blew down 4-inch tree limbs.
Kay County Blackwell	22	1840CST			0	0			Thunderstorm Wind (G52)
Noble County 7 SSE Red Rock (Mesonet)	22	1900CST			0	0			Thunderstorm Wind (G54)
Kay County Blackwell	22	1901CST			0	0			Thunderstorm Wind (G52)
Logan County Crescent	22	1910CST			0	0	0.50K		Thunderstorm Wind (G52) Severe thunderstorm winds estimated at 60 mph caused minor damage to a mobile home.
Oklahoma County Edmond	22	2000CST			0	0			Thunderstorm Wind Severe thunderstorm winds downed branches, causing a power outage that lasted for about 6 hours.

Storm Data and Unusual Weather Phenomena

July 1996

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

OKZ004-009>010-015-021-034-036 Harper - Ellis - Woodward - Dewey - Beckham - Greer - Jackson

	23	2155CST			0	0	
	24	0205CST					Summary July 23-24

Severe thunderstorms from the late evening of the 23rd to early morning of the 24th produced severe and damaging winds across portions of western Oklahoma. The strongest winds, with gusts of 71 mph, were measured in Gage in Ellis County and at the Oklahoma Mesonet site near Buffalo in Harper County. Several other estimates of wind gusts near 70 mph were received from other locations in western Oklahoma.

Major damage was reported near Shattuck and Arnett in Ellis County, and moderate to minor damage occurred near Buffalo in Harper County, Woodward in Woodward County, Sayre in Beckham County, Vici in Dewey County, and Mangum in Greer County.

See following individual Storm Data reports for further details and additional reports.

Harper County

Laverne

	23	2200CST			0	0	Thunderstorm Wind
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Severe thunderstorm winds snapped three utility poles just south of Laverne.

Harper County

.5 SW Buffalo (Mesonet)

	23	2325CST			0	0	Thunderstorm Wind (G56)
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Harper County

.5 SW Buffalo (Mesonet)

	23	2330CST			0	0	Thunderstorm Wind (G62)
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Harper County

.5 SW Buffalo (Mesonet)

	23	2335CST			0	0	Thunderstorm Wind (G54)
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Harper County

.5 SW Buffalo (Mesonet)

	23	2340CST			0	0	Thunderstorm Wind (G51)
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Ellis County

Shattuck

	24	0010CST			0	0	300K	Thunderstorm Wind (G61)
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Severe thunderstorm winds estimated at 70 mph caused major damage in and around Shattuck. Numerous large trees were split, snapped, or uprooted. A brick wall was blown down, and plate glass windows were blown out of a car dealership in Shattuck. The Shattuck Golf Club had the roof torn off the clubhouse and a shed containing golf carts was blown apart. Countless fences and tree limbs throughout town were blown down. Just west of Shattuck, Braum's Farms suffered extensive damage to hay barns and irrigation systems. Other farms, particularly to the west and south of Shattuck, sustained similar damage to outbuildings and irrigation systems.

Ellis County

8 WSW Arnett (Mesonet)

	24	0015CST			0	0	Thunderstorm Wind (G57)
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Ellis County

Gage

	24	0019CST			0	0	Thunderstorm Wind (G62)
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Harper County

Buffalo

	24	0025CST			0	0	10K	Thunderstorm Wind
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Severe thunderstorm winds blew down many tree limbs and split several trees. A storage building was destroyed and 1/3 of a mobile home roof was torn off by the strong winds.

Ellis County

Arnett

	24	0045CST			0	0	50K	Thunderstorm Wind
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Severe thunderstorm winds caused major damage in the Arnett area. Throughout the area numerous trees were broken or uprooted, small sheds were damaged or destroyed, and windows were broken out of homes and barns. At a residence just south of town, a stock trailer, a barn, and a grain bin were destroyed and several windows were blown out of the house. Arnett Public Schools reported that the roof from the high school auditorium and the swimming pool building were partially blown off, and the top portion of the north wall of the Technical Education building was blown in. Numerous power lines and trees were also downed.

Dewey County

Leedey

	24	0055CST			0	0	Thunderstorm Wind (G61)
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reported by the Leedey Fire Department

Woodward County

Woodward

	24	0100CST			0	0	Thunderstorm Wind (G61)
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Severe thunderstorm winds estimated at 70 mph downed numerous tree limbs up to 1.5 feet in diameter.

Beckham County

Sayre

	24	0115CST			0	0	Thunderstorm Wind (G61)
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Several 4-5 inch tree limbs were blown down by winds estimated at 70 mph.

Dewey County

Vici

	24	0145CST			0	0	10K	Thunderstorm Wind
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Severe thunderstorm winds uprooted trees throughout Vici. Another tree was split by the winds and fell onto 2 houses. Awnings were torn off and blown a block away, where they landed on a gas meter and destroyed it. A trampoline was lifted over a fence, carried 1.4 miles, and thrown into a creek.

Storm Data and Unusual Weather Phenomena

July 1996

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

OKLAHOMA, Western, Central and Southeast

Greer County Mangum	24	0200CST			0	0			Thunderstorm Wind (G52)
			Strong winds knocked down power lines.						
Dewey County Vici	24	0200CST			0	0	1K		Thunderstorm Wind
			An awning was blown down by severe thunderstorm winds.						
Jackson County Altus	24	0205CST			0	0			Thunderstorm Wind (G50)
Alfalfa County Driftwood	26	0630CST			0	0			Flash Flood
			The sheriff reported that Highway 58 north of Driftwood was flooded.						
Alfalfa County Byron And Driftwood	26	0745CST			0	0			Flash Flood
			Up to 8 inches of rain fell in northern Alfalfa County early the morning of the 26th and caused flash flooding throughout much of northern Alfalfa County. The Alfalfa County sheriff reported that Highway 58 and county roads were closed around Byron and Driftwood due to the high water. Highway 11 and county roads were closed east and west of Byron. State Highway 8 was open through Driftwood only to vehicles with high clearance.						
			Most of the bridges across Medicine River and Little Sand Creek were partially washed out or completely closed. Some dikes on the lower Medicine River were washed out by the flash flooding. The store in Byron had water surging under the door and onto its floor.						
OKZ025-030-040-046	Oklahoma - Pottawatomie - Garvin - Carter								
	26	1225CST 1530CST			0	0			Summary Of July 26
			Severe thunderstorms in central and south central Oklahoma produced wind gusts estimated to be as high as 70 mph near Shawnee Lake in Pottawatomie County and hail as large as nickels near Ratliff City in Carter County.						
			Wind damage was reported in Oklahoma County in Bethany and Oklahoma City. See following individual Storm Data entries for further details and additional reports.						
Oklahoma County Oklahoma City	26	1240CST			0	0	200K		Thunderstorm Wind
			A supercell thunderstorm with a strong mesocyclone moved through western portions of the Oklahoma City metro area. Wind damage was extensive throughout an area bordered by NW 11th Street, NW 22nd Street, Pennsylvania Avenue, and Portland Avenue.						
			Severe thunderstorm winds knocked down power lines, uprooted trees, and blew off part of the roof of a warehouse at 201 N Ann Arbor. Debris from the roof broke windows and dented cars in the parking lot. About 25% of the left and center field fences of All Sports Stadium were blown down by the winds and windows in the skyboxes were blown out. The bubble roof on the International Trade Center at the State Fair Grounds collapsed, causing about \$5000 in damage.						
			Numerous broken limbs as large as 3-feet in diameter were scattered throughout the area. Severe thunderstorm winds downed utility poles and uprooted trees as large as 4 feet in diameter. Details on some of the more major damage follow here.						
			On NW 13th Street, 3 trees were blown over onto houses, causing roof and window damage. On NW 15th Street 2 large trees were uprooted and a 4.5 foot diameter tree fell onto a garage. On NW 17th Street an awning was blown off a house, a 3-foot tree fell onto power lines, a tree was blown down onto a front porch, and another 3-foot tree fell onto a house, damaging the roof and siding.						
			On NW 18th Street a 2-foot diameter tree was uprooted. On NW 19th Street 2-3 foot trees were uprooted. On Aurora Court a 4-foot tree was split in half. On Independence a 4.5 foot tree was blown down, knocking down awnings and damaging siding. Another 4-foot tree was uprooted. On Linn a tree limb knocked out windows in a house and a 4-foot tree fell and blocked the road. On Flynn a 3-foot tree was split in half.						
Oklahoma County Bethany	26	1252CST			0	0			Thunderstorm Wind
			Severe thunderstorm winds blew down a tree at NW 30th and Council Road.						
Pottawatomie County Shawnee Lake	26	1430CST			0	0			Thunderstorm Wind (G61)
			Severe thunderstorm winds estimated at 70 mph blew down several tree limbs.						

Storm Data and Unusual Weather Phenomena

July 1996

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

OKLAHOMA, Western, Central and Southeast

Garvin County									
Foster	26	1447CST			0	0			Hail (0.88)
Carter County									
1 S Ratliff City	26	1530CST			0	0			Hail (0.75)
OKZ013>015-020-027	Noble - Roger Mills - Dewey - Payne - Grady				0	0			Summary Of July 29
	29	0601CST 1950CST			0	0			
Severe thunderstorms in western, central, and north central Oklahoma produced hail as large as golf balls near Stillwater in Payne County and wind gusts estimated at near 80 mph in Chickasha in Grady County. Major wind damage was reported in and near Chickasha with these winds. See following individual Storm Data entries for further details and additional reports.									
Roger Mills County									
5 NW Sweetwater	29	1615CST			0	0			Thunderstorm Wind (G52)
Grady County									
Chickasha	29	1645CST			0	0	71.5K		Thunderstorm Wind (G70)
Severe thunderstorm winds estimated at 70 to 80 mph damaged 1 house, one mobile home, and 11 or 12 barns in the Chickasha area. The house had part of its roof blown off by high winds, and the mobile home was damaged when a barn blew into it. Also, around 15 utility poles were snapped by the strong winds.									
Grady County									
3 ENE Chickasha	29	1650CST			0	0	100K		Thunderstorm Wind
Strong winds destroyed a 100x26 foot barn, debris from which damaged a nearby mobile home. Power lines which were downed by the winds caught a house on fire... lines also downed in Chickasha.									
Roger Mills County									
12 NW Sweetwater	29	1650CST			0	0			Hail (0.75)
Dewey County									
Oakwood	29	1830CST			0	0			Thunderstorm Wind (G52)
Noble County									
10 ESE Perry	29	1950CST			0	0			Hail (1.00)
Payne County									
8 NNW Stillwater	29	1950CST			0	0			Hail (1.75)

OREGON, Central and East

NONE REPORTED.

OREGON, Northwest

ORZ001>011									
Northern Oregon Coast - Central Oregon Coast - Southern Oregon Coast - Willamette Valley - Southwest Interior - Northern Cascades - Columbia Gorge - North Central - South Central - Columbia Basin Plateau - Northeast Mountain Areas									
	01	0000PST			0	0			No Severe Weather
	31	2355PST							
No severe weather occurred in Portland Oregon's county warning area. No zone wide severe weather events occurred in Oregon during the month of July 1996.									

OREGON, Southeast

Malheur County									
Rattlesnake	30	1400PST 1500PST			0	0			Thunderstorm Wind (G61)
Baker County									
Richland	30	1400PST 1500PST			0	0			Thunderstorm Wind (G60)
Baker County									
28E Baker City	30	1400PST 1500PST			0	0			Heavy Rain
Baker County									
Halfway/Richland to Richland/Halfway	30	1500MST 1600MST			0	0			Thunderstorm Wind (G60)
Malheur County									
Harper	30	1645PST 1745PST			0	0			Thunderstorm Wind (G60)
Malheur County									
Brogan	30	1700PST 1800PST			0	0			Heavy Rain

Several severe thunderstorms produced heavy rain and damaging winds in Southeastern Oregon and Southwestern Idaho. In Owyhee county, winds gusted upto 64 miles an hour and later in the afternoon heavy rain fell near Givens Hot Springs causing water from a creek to cover a portion of Idaho Highway 78. In Malheur county Oregon, winds gusted to 61 miles and hour and later in the afternoon a storm produced a half an inch of rain in twenty minutes in Brogan. In Baker county Oregon, an inch of rain fell within an hour east of Baker City, thunderstorm winds also downed trees in Halfway and Richland. At Idaho City in Boise county, 0.30" fell in 10 minutes. Heavy rain and gusty winds to 60 miles an hour threatened the McCall community in Valley county.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OREGON, Southwest</u>									
Klamath County									
10 NW (Lmt)Klamath Falls A to 12 W (Lmt)Klamath Falls A	17	1430PST 1500PST			0	0			Tstm Wind/Hail
		Sercial report of 3/4 inch hail. Gusty winds estimated to near 55 mph. Brief heavy rain which flooded secondary roads and driveways.							
Jackson County									
12 S (Mfr)Medford Arpt to 14.4 NW (Mfr)Medford Arpt	29	1400PST 1800PST			0	0	3.5M		Tstm Wind/Hail
		Thunderstorms with 5/8 to 1 1/4 hail one report of 2 1/8 hail. Strong outflow winds knocked down trees and power lines. Many mobile homes and vehicles damaged by hail and falling trees. Some flooding reported in southern part of Medford and in rural area south of Medford. One report of 1.22 inches most of which fell in 1/2 hr period.							
<u>PACIFIC</u>									
		NONE REPORTED.							
<u>PENNSYLVANIA, Central</u>									
Cambria County									
Westmont	02	1530EST			0	0			Thunderstorm Wind (G50)
		Trees down in Westmont, Johnstown, Daisytown Boro and in Richland Township.							
Centre County									
Centre Hall	02	1537EST			0	0			Hail (0.75)
		Dime-size hail fell in Centre Hall.							
Huntingdon County									
Alexandria	02	1545EST			0	0			Thunderstorm Wind (G50)
		Power lines down.							
Blair County									
Tyrone	02	1600EST 1830EST			0	0			Flash Flood
		Roads were flooded in Tyrone.							
Huntingdon County									
Huntingdon	02	1600EST 1800EST			0	0			Flash Flood
		Small stream and poor drainage flooding followed heavy rains across northern Huntingdon County.							
Centre County									
Aaronsburg	02	1615EST			0	0			Thunderstorm Wind (G50)
		Strong winds tore siding off of a house.							
Bedford County									
Everett	02	1627EST 1830EST			0	0			Flash Flood
		Roads were flooded in the Everett area following heavy rains.							
Huntingdon County									
2 W Blairs Mills	02	1630EST			0	0			Thunderstorm Wind (G50)
		Strong winds took down trees in Tell Twp. along SR2008.							
Cameron County									
3 S Emporium	02	1737EST			0	0			Hail (0.75)
		Dime size hail fell south of Emporium.							
Potter County									
Wharton	02	1745EST			0	0			Thunderstorm Wind (G50)
		Winds took down trees in Wharton and Cherry Springs.							
Cambria County									
5 S Ebsburg	03	0225EST			0	0			Hail (0.75)
		Dime-size hail fell near Ebsburg.							
Cambria County									
Johnstown	03	0225EST			0	0			Thunderstorm Wind (G50)
		Trees down in Johnstown, Taylor and Conemaugh townships.							
Blair County									
4 N Martinsburg	03	0300EST			0	0			Hail (1.00)
		Quarter to dime size hail fell near Martinsburg, causing significant crop damage and some roof damage.							
Blair County									
Martinsburg	03	0300EST			0	0			Thunderstorm Wind (G50)
		Trees and power lines down also in Claysburg.							
Huntingdon County									
3 SW Huntingdon	03	0325EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm	
					Killed	Injured	Property	Crops		
PENNSYLVANIA, Central										
			Trees down. Dime to golf ball size hail.							
Franklin County Mc Kinney	03	0410EST			0	0			Thunderstorm Wind (G50)	
			Trees down in McKinney.							
York County Dillsburg	03	0515EST			0	0			Thunderstorm Wind (G50)	
			Trees and power lines down.							
Mckean County Bradford	08	0000EST			0	0			Thunderstorm Wind (G50)	
			Strong winds downed trees onto power lines in the Bradford area.							
Tioga County 4 W Wellsboro	08	0246EST			0	0			Thunderstorm Wind (G50)	
			Strong winds knocked a tree onto the road near the intersection of Rt. 660 and Rt. 362 near Wellsboro.							
Lycoming County 4 N Warrensville	08	1300EST			0	0			Hail (0.85)	
			Hail the size of a nickel fell near Warrensville.							
Lycoming County Loyalsockville	08	1305EST 1310EST	1	30	0	0			Tornado (F1)	
			A small tornado touched down just north of Loyalsockville and moved southeast causing damage along a 1 mile path. Trees were snapped and uprooted. Skirting was blown off trailers and some windows were blown in at the Tiadaghton View Trailer Court on Back Street. A parsonage on Kaiser Hollow Road was severely damaged when two huge oak trees fell on the structure.							
Lycoming County Loyalsockville	08	1308EST			0	0			Thunderstorm Wind (G50)	
			Strong winds damaged the roof of a home in Loyalsockville.							
Lycoming County 10 NE Williamsport	08	1315EST			0	0			Hail (0.15)	
			Quarter size hail severely damaged a large corn field.							
Lycoming County Picture Rocks	08	1340EST			0	0			Hail (0.75)	
			Dime size hail fell in Picture Rocks.							
Franklin County Waynesboro	08	1550EST			0	0			Thunderstorm Wind (G50)	
			Strong winds knocked trees down in the Waynesboro area.							
Cumberland County 6 SW Carlisle	08	1605EST			0	0			Hail (0.08)	
			Penny size hail fell near Carlisle.							
Cumberland County Carlisle	08	1630EST			0	0			Thunderstorm Wind (G50)	
			Numerous trees were downed in the Carlisle area. A portion of the tin roof on a grandstand at the Army War College was also torn off.							
Cumberland County New Kingstown	08	1645EST			0	0			Thunderstorm Wind (G50)	
			Trees were downed and a chimney was blown off of a home by strong winds.							
Cumberland County New Kingstown	08	1645EST			0	0			Hail (1.25)	
			Half dollar size hail fell in New Kingstown.							
Dauphin County 3 N Harrisburg	08	1700EST			0	0			Thunderstorm Wind (G50)	
			Strong winds downed trees along the Susquehanna River near Harrisburg.							
Franklin County Greencastle	08	1800EST 2100EST			0	0			Flash Flood	
			Nearly 3.5 inches of rain fell in four hours causing road flooding in the Greencastle area.							
Clearfield County Wallaceton	16	1625EST			0	0			Thunderstorm Wind (G50)	
			Strong winds downed trees and power lines in Wallaceton, Knox Township east of New Millport, and Pike Township.							
Mifflin County 3 N Belleville to Lewistown	16	1900EST 1925EST			0	0			Thunderstorm Wind (G50)	
			An 11 mile swath of high winds from downburst and microburst thunderstorms caused damage to trees and farms from an initial downburst near Greenwood Furnace to final damage around Lewistown. Two barns, a home, a calf hutch, two tractors and a pickup truck suffered major damage in the Bellville area. Trees and power lines were blown down in Lewistown.							
Clinton County Westport	16	2225EST			0	0			Thunderstorm Wind (G50)	
			Strong winds downed trees on power lines near Westport.							

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, Central									
Potter County									
Roulette	17	0240EST			0	0			Hail (0.75)
			Dime size hail fell in Roulette, accumulating on the ground.						
Potter County									
4 S Coudersport	17	0300EST			0	0			Thunderstorm Wind (G50)
			Strong winds downed trees near Coudersport.						
Blair County									
Countywide	19	0430EST 1730EST			0	0			Flash Flood
Clearfield County									
Countywide	19	0430EST 1730EST			0	0			Flash Flood
Cambria County									
Countywide	19	0500EST 1400EST			0	0			Flash Flood
Huntingdon County									
Countywide	19	0547EST 1700EST			0	0			Flash Flood
Bedford County									
Countywide	19	0800EST 1600EST			1	0			Flash Flood
			F2IW						
Franklin County									
Countywide	19	0800EST 1600EST			0	0			Flash Flood
Fulton County									
Countywide	19	0800EST 1600EST			0	0			Flash Flood
Somerset County									
Countywide	19	1000EST 1700EST			0	0			Flash Flood
			Thunderstorms moved through northwest Pennsylvania after midnight and spread southeast across the central counties in the early morning. A wide band of heavy rain extended southeast across Dubois to Altoona into Huntingdon in the early morning. Severe flash flooding struck a large part of central Pennsylvania as thunderstorms moved slowly southeast across the region.						
			One death was attributed to the storm in Bedford County when a 2 year old girl wandered away from her home on East Clair Township and fell into a swollen creek. As many as 700 homes were damaged in Blair County, many in the city of Altoona. Roads and basements were flooded in Dubois, Ebensburg, Huntingdon and other cities and towns of the area.						
			Thunderstorms intensified in the late morning causing added flooding further south into Bedford and Somerset areas. Tornadoes also developed from the storms.						
Clearfield County									
1 W New Washington to 2 SW Lyleville	19	1015EST 1030EST	10	200	0	0			Tornado (F1)
Cambria County									
2 SW Lyleville to 2 E Frugality	19	1035EST 1046EST	8.4	200	0	0			Tornado (F2)
			An F1 to weak F2 tornado touched down in Clearfield County near New Washington around 10:15 a.m. EST. The tornado moved southeast approximately 19 miles along a curved path crossing Five Points into Cambria County across Glendale Lake before ending 2 miles east of Frugality. This storm damaged several mobile homes and farms in Five Points, picked a boat out of the water on Glendale Lake and felled many trees along its path. A herringbone tree pattern was apparent along with suction vortex damage to crops.						
Blair County									
1 NW Sickles Corner to .5 SE Sickles Corner	19	1110EST 1115EST	1.5	880	0	0			Tornado (F1)
			Shortly after 11:00 a.m. EST, an F1 tornado touched down northeast of Altoona approximately 1 mile northwest of Sickles Corner on Brush Mountain. This tornado moved southeast taking down a swath of trees and causing minor damage to homes along a 1.5 mile path before ending one half mile southeast of Sickles Corner. The path width averaged about one half mile wide. This storm was the fourth in the family of tornadoes that had crossed Clarion, Jefferson, Indiana, Clearfield and Cambria counties.						
Cambria County									
2 E Colver to 1 W Loretto	19	1110EST 1115EST	6	100	0	0			Tornado (F2)
			An F2 tornado touched down around 11:10 a.m. EST 2 miles east of Colver and tracked 6 miles southeast before ending 1 mile west of Loretto. The path width was 100 yards. Two homes and a barn were destroyed by this storm. Several roofs and a second barn were also damaged. A central suction vortex was visible in crop damage.						
Huntingdon County									
2 SE Alexandria	19	1115EST			0	0			Thunderstorm Wind (G50)
			Trees were blown down near Alexandria.						

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, Central									
Blair County 2 E Roaring Spg	19	1145EST			0	0			Thunderstorm Wind (G50)
									Winds took down trees near Roaring Spring.
Bedford County Penwood to Everett	19	1230EST 1245EST	5	50	0	0			Tornado (F0)
									An F0 tornado was sighted about 12:30 p.m. EST near Hospital Hill east of Bedford near Penwood and moved one quarter mile southeast before ending near Route 30 east of Everett a distance of about 5 miles. Path width was approximately 50 yards with a damage width of 1/4 mile. Between 40 and 50 trees were damaged along a 1/4 mile section of Spring Street on the north side of Everett.
Bedford County Gapsville	19	1245EST			0	0			Thunderstorm Wind (G50)
									Trees were down in Gapsville.
Cumberland County 2 S Cleversburg	19	1300EST			0	0			Thunderstorm Wind (G50)
									Winds took down trees in Cleversburg.
Fulton County 2 NW Needmore to Needmore	19	1300EST 1305EST	2	50	0	0			Tornado (F0)
									An F0 tornado touched down shortly after 1:00 p.m. EST near the intersection of township Routes 369 and 358. The tornado moved southeast through Needmore for two miles. The path width was 50 yards wide with damage width of one eighth of a mile. Most of the damage was to trees. An automobile and van were heavily damaged by a fallen tree. This tornado was probably the second in the Everett family of storms. Two more tornadoes in Maryland and Virginia were probably associated with this family.
Franklin County Waynesboro to 3 E Waynesboro	19	1330EST 1340EST	3	50	0	0			Tornado (F1)
									An F1 tornado touched down around 1:30 p.m. EST in Waynesboro and moved east causing intermittent damage along a three mile path before ending near Midvale. The path width of 50 yards with damage width of 1/4 mile. Part of a factory roof was removed in Waynesboro, a section of barn roof was blown off east of town and many trees were downed along the 3 mile path. Corn also showed evidence of a suction vortex near the end of the path.
Adams County Mcknightstown	19	1335EST 1340EST	1	150	0	0			Tornado (F1)
									An F1 tornado touched down around 1:35 p.m. EST near McKnightstown and moved east-southeast for one mile. The path width was 150 yards with peak winds estimated between 70 and 80 mph. Most of the damage was to trees, but a part of a church steeple roof was lifted, and several outbuildings had parts of roofs removed. A small greenhouse had windows smashed and a small branch projectile was embedded in the side of a garage.
Snyder County 1.5 NE Kreamer	26	1720EST			0	0			Thunderstorm Wind (G50)
									Strong winds caused tree damage near Kreamer in Middlecreek Township.
Warren County Russell	29	1730EST			0	0			Thunderstorm Wind (G50)
									Strong winds brought trees down in the Russell area.
Clearfield County Summerville	30	1500EST			0	0			Flash Flood
									Basements were flooded by heavy rains in Summerville.
Clearfield County 4 NW Kylertown	30	1515EST			0	0			Thunderstorm Wind (G50)
									A weak downburst caused several trees to fall in Graham Township.
Blair County Claysburg	30	1530EST			0	0			Hail (0.10)
									Quarter size hail fell in Claysburg.
Bedford County Graceville	30	1615EST			0	0			Thunderstorm Wind (G50)
									A downburst felled trees in the Graceville area.
Clearfield County Bishtown	30	1645EST			0	0			Thunderstorm Wind (G50)
									A downburst felled trees near Bishtown.
Fulton County Gracey	30	1645EST			0	0			Hail (1.75)
									Golf ball size hail fell in Gracey.
Fulton County Wells Tannery	30	1645EST			0	0			Thunderstorm Wind (G50)
									A downburst damaged trees in the Wells Tannery area.
Huntingdon County 4 SE Newton Hamilton	30	1655EST			0	0			Thunderstorm Wind (G50)
									Trees were downed in the Tuscarora State Forest.

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>PENNSYLVANIA, Central</u>									
Mifflin County 6 SW Blacklog	30	1720EST			0	0			Thunderstorm Wind (G50)
									Trees were downed in the Tuscarora State Forest.
Franklin County 5 W Upper Strasburg	30	1730EST			0	0			Thunderstorm Wind (G50)
									A downburst felled trees near Upper Strasburg.
Juniata County Honey Grove	30	1755EST			0	0			Thunderstorm Wind (G50)
									A downburst felled trees in Honey Grove.
Perry County Kistler	30	1805EST			0	0			Thunderstorm Wind (G50)
									A downburst felled trees in the Kistler area.
Cumberland County Shippensburg to 3 E Shippensburg	30	1830EST 1840EST	3	50	0	0			Tornado (F1)
Franklin County Shippensburg to 3 E Shippensburg	30	1830EST	3	440	0	0			Tornado (F1)
									An F1 tornado touched down about 6:30 p.m. EST in Southampton Township in Franklin County on the west side of Shippensburg. The storm moved east and northeast about 3 miles causing the most destruction across southeast sections of Shippensburg in Cumberland County. Along a path width of 1/4 mile, many trees were blown down or damaged and a number of homes had minor structural damage. One home had a roof blown off in the southeast section of town on Old Baltimore Road.
Cumberland County Shippensburg	30	1830EST			0	0			Hail (0.10)
									Quarter size hail fell in Shippensburg.
Adams County York Spgs	30	1915EST			0	0			Thunderstorm Wind (G50)
									Strong winds downed power lines in the York Springs area.
<u>PENNSYLVANIA, East</u>									
Northampton County Klecknersville	03	0730EST			0	0	40K		Lightning
									Lightning hit the corner of and started a fire in a Moore Township house. Unfortunately it struck near a propane line that fed the house's furnace. Fed by the propane, the fire smoldered and damaged the interior walls of the house before it was extinguished. Damage was estimated at \$40,000.
Montgomery County Souderton	03	1650EST			0	0			Hail (0.75)
Philadelphia County Philadelphia	04	0012EST			0	0			Thunderstorm Wind
									A severe thunderstorm uprooted a couple of trees in northeast Philadelphia. One landed on and damaged a house.
Carbon County Northeast	08	1530EST			0	0			Thunderstorm Wind
									A severe thunderstorm uprooted trees and took down power lines in northeast Carbon County. Pennsylvania Power and Light reported about 2,900 homes in their service area lost power.
Monroe County Pocono Summit	08	1550EST			0	0			Thunderstorm Wind
									A severe thunderstorm uprooted a few trees in Pocono Summit. Pennsylvania Power and Light reported about 2,900 homes lost power in their service area.
Lehigh County Coopersburg	08	1620EST			0	0			Thunderstorm Wind
									A severe thunderstorm uprooted several trees in Coopersburg. One fell on and damaged a two story house. Pennsylvania Power and Light reported 2,900 homes lost power in their service area with about 1,700 within Coopersburg.
Northampton County 2 NE Belfast	08	1630EST			0	1	0	0	Lightning
									A 53-year-old Plainfield Township woman was struck and injured by lightning as she was walking in her backyard trying to retrieve an American Flag. Eyewitnesses stated it was not raining at the time she was struck.
PAZ054>055-060>062-067>071									Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia
	12	1400EST			0	0			Heavy Rain/Wind
	13	1400EST							
									Tropical Storm Bertha passed through Delaware and eastern New Jersey the morning of the 13th. Wind gusts reached around 40 mph in the Philadelphia Metropolitan Area and around 30 mph in the Lehigh Valley and the Poconos. The strongest winds occurred during the morning of the 13th. Heavy rain that was falling since the evening of the 12th helped loosen the soil and the winds knocked over weak trees and limbs, mainly around Philadelphia. One house was heavily damaged in Plymouth Township (Montgomery County) when a 150 foot tree fell on it. About 60,000 Philadelphia Electric Company customers lost power, mainly in Bucks County. Heavy rains of between two and four inches fell across the area, with some locally higher amounts in the Poconos. But since most of the rain fell during a twelve to eighteen hour period and not a shorter duration, there was some urban

Storm Data and Unusual Weather Phenomena

July 1996

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

PENNSYLVANIA, East

and poor drainage flooding, but no major problems. No serious injuries, water rescues or damage was reported. Storm totals included 4.4 inches in Tobyhanna (Monroe County), 4.01 inches in East Stroudsburg (Monroe County), 3.87 inches in Pottstown (Montgomery County), 3.56 inches in Doylestown (Bucks County), 3.1 inches in Neshaminy Falls (Bucks County), 2.95 inches in Crum Creek (Delaware County), 2.82 inches in Valley Forge (Montgomery County), 2.73 inches in Lehighton (Carbon County), 2.63 inches in Jundale (Carbon County), 2.60 inches in Hamburg (Berks County), 2.50 inches at the Northeast Philadelphia Airport, 2.43 inches at the Philadelphia International Airport, 2.41 inches at the Lehigh Valley International Airport and 2.21 inches in Glenmoore (Chester County).

Bucks County Plumsteadville

14 1600EST 0 1 Lightning

A 38-year-old Plumstead man was struck and injured by lightning while standing underneath an awning and holding barbecue tongs.

Bucks County Doylestown

14 1605EST 0 0 Thunderstorm Wind

A severe thunderstorm accompanied by high winds and frequent lightning tore down power lines in the Doylestown area. About 6,000 homes lost power, with the greatest concentration in Buckingham Township.

Bucks County Buckingham Vly

14 1625EST 0 0 150K Lightning

Lightning struck and the subsequent fire completely damaged a Buckingham Township home. Lightning struck the rear of the house and started a fire. Firefighters managed to confine the fire to the rear of the rancher, but the rest of the house sustained heavy heat, smoke and water damage that destroyed its contents. No one was injured.

Berks County 2 SW Temple

19 0825EST 0 0 10K Lightning

Lightning struck a Muhlenburg Township home's chimney. Debris from the chimney fell through the roof and severed a gas line. There was extensive roof damage, but the rest of the house was not damaged.

Philadelphia County Northeast

**31 1030EST 0 0 Flash Flood
1200EST**

Thunderstorms with very heavy rain caused considerable flooding in the northeast part of Philadelphia. Storm totals included 2.11 inches at Northeast Philadelphia Airport.

Bucks County Southern

**31 1030EST 0 0 Flash Flood
1200EST**

Thunderstorms with very heavy rain caused roadway flooding and flooding of some of the smaller streams in extreme Southern Bucks County. Storm totals included 2.47 inches in Levittown, most of which fell within two hours.

PENNSYLVANIA, Northeast

Lackawanna County Dunmore

08 1340EST 0 3 Lightning

Vivid cloud to ground lightning associated with a thunderstorm struck a highway construction site in Dunmore. Three highway workers sustained minor injuries.

Wayne County Lake Ariel

**08 1400EST 0 0 Hail (1.00)
1403EST**

The storm that caused injuries from lightning in Lackawanna County moved eastward into southern Wayne County and intensified to severe levels. It produced dime to nickel sized hail and downed trees in Lake Ariel from 300 to 305 pm; then downed additional trees in South Canaan at 307 pm.

Pike County Milford

08 1400EST 0 0 5K Thunderstorm Wind

A thunderstorm developed over southern Pike County and become severe as it moved northeast nearly parallel to the Delaware River. This storm blew down large trees in Milford around 300 pm and then downed additional trees and produced one-half inch hail in Matamoras at 315 pm.

Wayne County Lake Ariel

08 1405EST 0 0 10K Thunderstorm Wind

The storm that caused injuries from lightning in Lackawanna County moved eastward into southern Wayne County and intensified to severe levels. It produced dime to nickel sized hail and downed trees in Lake Ariel from 300 to 305 pm; then downed additional trees in South Canaan at 307 pm.

Wayne County South Canaan

08 1407EST 0 0 5K Thunderstorm Wind

The storm that caused injuries from lightning in Lackawanna County moved eastward into southern Wayne County and intensified to severe levels. It produced dime to nickel sized hail and downed trees in Lake Ariel from 300 to 305 pm; then downed additional trees in South Canaan at 307 pm.

Pike County 3 SE Millrift

08 1415EST 0 0 5K Thunderstorm Wind

A thunderstorm developed over southern Pike County and become severe as it moved northeast nearly parallel to the Delaware

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, Northeast									
			River. This storm blew down large trees in Milford around 300 pm and then downed additional trees and produced one-half inch hail in Matamoras at 315 pm.						
Pike County 5 N Milford	08	1450EST			0	0	10K		Thunderstorm Wind
	A thunderstorm developed over western Pike County and became severe as it tracked into eastern sections of the county. The storm was responsible for downing numerous trees and power lines in Westfall township around 350 pm and in Matamoras about 400 pm.								
Luzerne County White Haven	08	1455EST			0	0	10K		Thunderstorm Wind
	A severe thunderstorm tracked eastward through southern portions of Luzerne County. This storm blew down numerous trees and power lines in White Haven at 355 pm.								
Pike County 3 SE Millrift	08	1500EST			0	0	5K		Thunderstorm Wind
	A thunderstorm developed over western Pike County and became severe as it tracked into eastern sections of the county. The storm was responsible for downing numerous trees and power lines in Westfall township around 350 pm and in Matamoras about 400 pm.								
PENNSYLVANIA, Northwest									
Erie County South Of Erie	02	2250EST			0	0			Hail (0.75)
Crawford County Saegertown	07	2234EST			0	0			Hail (0.88)
Crawford County Woodcock Lake	07	2245EST			0	0			Hail (0.75)
Crawford County Guys Mills	07	2251EST			0	0			Hail (0.75)
Erie County Springfield Station	19	0200EST			0	0			Flash Flood
	Heavy thunderstorm rain caused flooding of roads and low lying areas. At least one road had water one foot deep.								
Crawford County Countywide	19	0215EST 1400EST			0	0	1.5M		Flash Flood
	Heavy thunderstorm rain caused major flooding of roads, basements, streams and low lying areas. Numerous roads were closed and snowplows had to be used to clear them of debris. Bridges, culverts, sewers and roads were washed out by water, rock and mud slides. Route 8 near Titusville was severely damaged. A basement cave-in occurred in Saegertown. Firefighters rescued people threatened by French Creek when it overflowed its banks, damaging homes, camps and cars along Route 285 outside of Cochranon. Fifty homes were evacuated in Conneautville when Conneaut Creek overflowed its banks. In Meadville, 80 basements were flooded, streets were torn up and the entrance to the Meadville Medical Center was caved in by a 2 foot wall of water and mud. More than 100 homes and 16 businesses were damaged countywide								
Crawford County Linesville	19	0315EST			0	0			Thunderstorm Wind
	Several large limbs were downed.								
Erie County Harbor Creek	19	0405EST			0	0			Flash Flood
	Heavy thunderstorm rain caused flooding of streams and low lying areas.								
Crawford County Conneautville	29	1655EST			0	0			Hail (0.75)
Erie County Hammett	30	1420EST			0	0			Flash Flood
	Heavy thunderstorm rain caused flooding of streets, streams and low lying areas.								
Erie County Lake Erie	31	0650EST 0730EST			0	0			Waterspout
	Waterspouts were reported offshore, northwest of Walnut Creek. They did not come ashore and there was no known damage.								
PENNSYLVANIA, West									
Beaver County Vanport	02	1253EST			0	0			Hail (1.00)
Beaver County Beaver Falls	02	1300EST			0	0			Hail (0.75)
Washington County Beallsville	02	1355EST			0	0	3K		Thunderstorm Wind
	Part of a silo was destroyed and a tree was blown onto a roof of a barn.								
Westmoreland County Fellsburg	02	1405EST			0	0	3K		Thunderstorm Wind
	Trees and power lines were downed by thunderstorm winds.								
Westmoreland County Mt Pleasant	02	1415EST			0	0	3K		Thunderstorm Wind

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July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, West									
			Trees and power lines were downed by thunderstorm winds.						
Washington County California	02	1429EST			0	0			Hail (1.00)
Fayette County Perryopolis	02	1445EST			0	0	3K		Thunderstorm Wind
			Trees and power lines were downed by thunderstorm winds.						
Greene County Waynesburg	02	1450EST			0	0			Hail (0.75)
Fayette County Everson	02	1500EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Fayette County Connellsville	02	1500EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Indiana County 3 W Clyde	02	1510EST			0	0	1K		Thunderstorm Wind
			A tree and some large branches were downed by thunderstorm winds.						
Butler County Evans City	02	1555EST			0	0			Hail (0.75)
Butler County Butler	02	1605EST			0	0			Hail (0.75)
Armstrong County Dayton	02	1645EST			0	0			Hail (1.00)
Beaver County Darlington	03	0047EST			0	0	1K		Thunderstorm Wind
			A couple of trees were downed in Darlington.						
Allegheny County Imperial	03	0050EST			0	0	1K		Hail (1.00)
			One inch hail broke a glass patio table.						
Allegheny County West View	03	0055EST			0	0			Thunderstorm Wind (G62)
			Thunderstorm winds gusted to 62 mph.						
Allegheny County Crafton	03	0100EST			0	0			Hail (1.00)
Allegheny County Brentwood	03	0105EST			0	0			Hail (0.88)
Allegheny County Brentwood	03	0105EST			0	0	1K		Thunderstorm Wind
			Thunderstorm winds ripped some siding off a house.						
Allegheny County Dormont	03	0115EST			0	0	1K		Thunderstorm Wind
			Large limbs were downed by thunderstorm winds.						
Allegheny County Monroeville	03	0125EST			0	0	1K		Thunderstorm Wind
			Large limbs were downed by thunderstorm winds.						
Washington County Washington	03	0125EST			0	0			Hail (0.88)
Allegheny County Pittsburgh	03	0130EST			0	0	2K		Thunderstorm Wind
			Trees were downed, one uprooted, by thunderstorm winds in the East Liberty section of Pittsburgh.						
Westmoreland County Murrysville	03	0155EST			0	0	1K		Thunderstorm Wind
			A few trees were downed by thunderstorm winds.						
Westmoreland County Murrysville	03	0155EST			0	0			Hail (0.75)
Washington County Cokeburg	03	0205EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Fayette County Perryopolis	03	0205EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Westmoreland County Harrison City	03	0210EST			0	0	1K		Thunderstorm Wind
			Thunderstorm winds fell a few trees in Harrison City.						

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage Property	Crops	Character of Storm
					Killed	Injured			
PENNSYLVANIA, West									
Indiana County Strongstown	03	0220EST			0	0			Hail (1.00)
Washington County Charleroi	03	0300EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Mercer County Greenfield	16	1350EST 1400EST			0	0			Hail (1.00)
			Nickel to quarter sized hail was reported in Greenville.						
Venango County Franklin	16	1428EST			0	0			Hail (0.75)
Mercer County Salem	16	1430EST			0	0	1K		Thunderstorm Wind
			A tree and some branches were downed by thunderstorm winds.						
Venango County Clintonville	16	1440EST			0	0			Hail (1.00)
Clarion County Clarion	16	1445EST			0	0	3K		Thunderstorm Wind
			Thunderstorm winds downed trees in Clarion.						
Clarion County St Petersburg	16	1455EST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds downed trees.						
Venango County Bullion	16	1505EST			0	0			Funnel Cloud
			A funnel cloud was reported near Bullion.						
Clarion County Knox	16	1510EST			0	0	1K		Thunderstorm Wind
			Several large branches were downed by thunderstorm winds.						
Clarion County Frogtown	16	1520EST			0	0	3K		Thunderstorm Wind
			Large trees were downed and a roof was damaged by falling branches.						
Jefferson County Reynoldsville	16	1545EST			0	0	1K		Thunderstorm Wind
			A large tree and some branches were downed by thunderstorm winds.						
Armstrong County 3 S Worthington	16	1650EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Beaver County Beaver	16	1710EST			0	0			Hail (0.75)
Lawrence County Ellwood City	16	1725EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds in Ellwood City.						
Butler County Portersville	16	1730EST			0	0			Thunderstorm Wind (G56)
			Thunderstorm winds gusted to 64 mph.						
Indiana County Chambersville	16	1730EST			0	0	20K		Thunderstorm Wind
			Thunderstorm winds downed several trees. Some limbs fell and damaged a satellite television dish, swimming pool and a lawn mower.						
Indiana County Indiana	16	1754EST			0	0	2K		Thunderstorm Wind
			Trees were downed by thunderstorm winds.						
Beaver County 2 SE Ellwood City	16	1840EST			0	0	2K		Thunderstorm Wind
Beaver County Fombell	16	1850EST			0	0	2K		Thunderstorm Wind
			Thunderstorm winds fell some trees in Franklin.						
Beaver County Fombell	16	1850EST			0	0			Funnel Cloud
			A funnel cloud was reported.						
Mercer County Mercer	16	2045EST			0	0	3K		Thunderstorm Wind
			Trees were downed by thunderstorm winds in Mercer.						
Butler County Eau Claire	16	2150EST			0	0	2K		Thunderstorm Wind

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, West									
Some trees were downed by thunderstorm winds near Eau Claire.									
Fayette County 1 SE Dunbar	18	2200EST 2300EST			0	0			Flash Flood
Dunbar Creek went out of its banks.									
Greene County 5 SW Waynesburg	18 19	2245EST 0300EST			0	0	50K		Flash Flood
Stewart Run went out of its banks. Flooding was also reported along Pursley Creek near Oak Forest. Flash flooding occurred in Holbrook. Several cars were flooded and swept into buildings and other cars. A cabin along Hargus Creek was swept 0.5 miles downstream. Flowing flood waters also destroyed some crops and a foot bridge was destroyed.									
The South Fork of Wheeling Creek at Ryerson Station also went over its banks. Nearby roads were flooded.									
Mercer County Milledgeville	19	0100EST 1400EST			0	0	100K		Flash Flood
Flood waters rose quickly after heavy thunderstorm rains pounded the county. The hardest hit area was in the northern part of the county, where over two feet of water covered the roads. A total of 11 homes were damaged across the county.									
Venango County Franklin	19	0300EST 1500EST			0	0	50M		Flash Flood
Widespread heavy thunderstorm rains, between 4 and 5 inches, caused numerous streams to go over their banks throughout the county. Roads were closed due to extensive flooding in Oil City and Franklin. Flooding was extensive at Sugar Creek Borough along the French Creek and along Chubb Run in Franklin.									
A total of 5 residences were destroyed, 60 had major damage and around 200 had minor damage. 11 bridges were out and over 100 miles of roads were damaged.									
Clarion County Shipperville	19	0300EST 1500EST			1	1	75M		Flash Flood
Widespread heavy rain caused extensive flooding throughout Clarion County. Numerous roads and creeks were flooded. Around 4 am EST a 73 year-old woman died and her husband injured when their mobile home was swept away along Deer Creek near Shipperville. Flooding was also quite extensive along the Red Bank Creek in New Bethlehem.									
34 dwellings were destroyed, 32 sustained major damage and around 200 had minor flood damage.									
A total of 10 bridges were washed out in the county. Numerous roads and some businesses were also damaged. Widespread rainfall totals ranged from 4 to 6 inches. F73MH									
Jefferson County Punxsutawney	19	0300EST 1500EST			0	0	100M		Flash Flood
Widespread heavy thunderstorm rains dropped between 4 and 6 inches of rain and caused near record flood problems throughout Jefferson County. Numerous roads were closed throughout the county and several hundred people were evacuated.									
Punxsutawney was particularly hard hit, especially along and near the Little Mahoning Creek. A total of 40 businesses had first floor flooding. Five homes were destroyed. 200 homes had first floor flooding and 300 homes had second floor flooding. 3 grocery stores were flooded and stock destroyed, 1 had structural damage. 3 nursing homes had major damage.									
In Reynoldsville, 30 businesses flooded. 40-50 homes had first floor flooding. A water pump and a dam was damaged. Flooding was worst along Red Bank Creek.									
In Brookville, 3 homes were washed away. 20 businesses were destroyed. Flooding was particularly bad near and along the Red Bank Creek that flows through Brookville.									
Local flood control projects in Brookville and Punxsutawney, built to control record flooding above the 1936 flood levels, were topped.									
All tolled, 92 homes, mobile homes and apartments were destroyed, 311 homes had major damage, 792 had minor damage in the county. Several hundred automobiles were either damaged or destroyed. Seven bridges in the county were washed out and many miles of roads were damaged or washed away. No injuries or deaths were reported.									
Armstrong County South Bethlehem	19	0500EST 1500EST			0	0	200K		Flash Flood
Extensive flash flooding occurred along the Red Bank creek in South Bethlehem. Throughout the county, 1 home was destroyed, 10 had major damage and 171 minor damage. Some roads were also damaged.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PENNSYLVANIA, West									
Indiana County Cherry Tree	19	0700EST 1500EST			0	0	40K		Flash Flood
									Fifteen feet of flood waters inundated an ambulance garage in Cherry Tree. A house along the Little Mahoning Creek was under water north of Marion Center.
Greene County Jollytown	19	0800EST 0930EST			0	0			Flash Flood
									Dunkard Creek near Jollytown went out of its banks.
Fayette County Uniontown	19	0800EST 0930EST			0	0			Flash Flood
									Street flooding was reported in Uniontown and Connellsville.
Clarion County 6 N New Bethlehem to 2.5 NW Langville	19	0920EST 0935EST	7.5	100	0	0	25K	5K	Tornado (F2)
Jefferson County 2.5 NW Langville to 1.5 W Oliveburg	19	0935EST 0940EST	2.5	100	0	0	25K	5K	Tornado (F2)
									A tornado began in Clarion County about 6 miles north of New Bethlehem. It tracked southeast into Jefferson County through Langville. The tornado lifted 1.5 miles west of Oliveburg.
									The tornado uprooted trees and rolled a mobile home, about a mile north of Truittsburg in Clarion County. The tornado also damaged some homes and farms, crops and downed extensive swaths of trees along its path. The tornado moved mainly in a straight line and averaged about 100 yards in width.
Jefferson County 1.5 SE Punxsutawney to 3.5 SE Punxsutawney	19	0945EST 0950EST	2.5	100	0	0	1K	1K	Tornado (F0)
Indiana County 3.5 SE Punxsutawney to 4 NNE Glen Campbell	19	0950EST 1010EST	6.5	200	0	3	200K	10K	Tornado (F2)
									A tornado touched down in Jefferson County and traveled southeast into northeast Indiana County, the tornado continued into the State Game Lands and exited Indiana County 4 miles north-north east of Glen Campbell and then entered Clearfield County. The tornado's path was 200 feet wide at its greatest width in Indiana County.
									Just some tree damage occurred in Jefferson County.
									The tornado strengthened and caused greater damage in Indiana County. Just east of Rossiter, the tornado tore the roof off of a barn. A child, playing outside, sought shelter in the barn. The roof lifted off and three of the four walls collapsed. The child was not injured. A horse that was inside the barn was sucked out and carried approximately 75 feet in the air into a field. The tornado traveled then traveled up a hill and significantly damaged one mobile home and destroyed a second. The second mobile home was carried at least 75 yards across a road and smashed against a row of trees. Three people were inside the mobile home and were injured, one critically. The tornado at this time was at it's strongest, at the upper end of F2. A nearby wood frame house was destroyed and dense areas of trees were felled or snapped. About a dozen homes sustained damage along the path, 5 were damaged extensively. Thirty pound cinder blocks from a garage were thrown approximately 300 yards up a nearby hill where a stronger suction vortex was noted. The tornado tracked into the State Game Lands and a 50 yard path of downed and twisted 100 to 150 foot trees was noted into the densely forested region.
Westmoreland County New Kensington	19	1241EST			0	0	2K		Thunderstorm Wind (G51)
									Thunderstorm winds, gusting to 59 mph, downed trees in New Kensington.
Fayette County 1 NE Brownsville	19	1430EST 2200EST			0	0			Flash Flood
									The Albany Tunnel in Brownsville Township was flooded.
Clarion County Countywide	19 20	1500EST 0430EST			0	0			Flash Flood
									After heavy thunderstorm rains pounded the region, producing extensive flash flooding, especially in Clarion and Jefferson Counties, flooding continued for several more hours.
PAZ015-021>022-030 Clarion - Allegheny - Armstrong - Westmoreland	19 20	1500EST 0200EST			0	0	35K		Flood
									In response to very heavy rains across parts of the Allegheny River Basin, the Allegheny River went above flood stage between Lock 9 and Lock 3. The river crested 3.5 feet above the 19 foot flood stage at Lock 9. A bit upstream in East Brady, a few boats broke loose from their moorings and some docks were damaged. Further downstream to Lock 3, the river crested much lower, less than 2 feet above flood stage at all points.
Indiana County Countywide	19 20	1500EST 0430EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>PENNSYLVANIA, West</u>									
Jefferson County									
Countywide	19	1500EST			0	0			Flash Flood
	20	0430EST							
Venango County									
Countywide	19	1500EST			0	0			Flash Flood
	20	0430EST							
PAZ032									
	Fayette								
	19	1600EST			0	0			Flood
		2200EST							
	Flood waters in the Albany Tunnel slowly receded.								
PAZ021									
	Allegheny								
	19	2300EST			0	0	5K		Flood
	20	0900EST							
	The Ohio River, at the Point in Pittsburgh to Dashields Lock and Dam, went above their 25 foot flood stages in response to heavy thunderstorm rains in the Allegheny and Monongahela River Basins. Only minor flooding occurred. The crest at Pittsburgh was 3.1 feet above flood stage and only 0.6 feet above flood stage at Dashields. This is the first time that the Ohio River at Pittsburgh rose above flood stage in a summer month since the Hurricane Agnes flood of 1972.								
PAZ021-029>030									
	Allegheny - Washington - Westmoreland								
	20	0130EST			0	0	12K		Flood
		1600EST							
	After heavy thunderstorm rains pounded the region and flooded the Cheat River, a tributary of the Monongahela River. The Monongahela River also flooded along part of its stretch. The river crested between 1 and 1.5 feet above flood stage at Lock 4 Charleroi and Lock 3 Elizabeth. Minor flooding occurred along this stretch.								
Butler County									
Buena Vista	29	1525EST			0	0			Funnel Cloud
	A funnel cloud was reported near Buena Vista.								
Jefferson County									
1 NW Summerville	30	1514EST			0	0	10K		Thunderstorm Wind
	Thunderstorm winds downed numerous trees and several large limbs in and just to the northwest of Summerville.								
Jefferson County									
1 E Reynoldsville to 1.1 E Reynoldsville	30	1600EST	0.1	50	0	0	5K		Tornado (F0)
		1602EST							
	A tornado briefly touched down just east of Reynoldsville. The tornado uprooted and damaged a few trees.								
<u>PUERTO RICO</u>									
PRZ006									
	St. Thomas/St. John								
	07	1100AST			0	1	7.5M		Hurricane
	08	2100AST							
	A hurricane watch was issued for the U.S. Virgin Islands at 1700 AST July 6. A hurricane warning was issued at 1100 AST July 7 and discontinued on July 8 at 2100 AST. At 1100 AST July 8 Hurricane Bertha was located 55 miles east southeast of St. Thomas with sustained winds of 85 mph with higher gusts according to NHC/TPC. Unofficial wind reports from St. Thomas indicated a 100 mph sustained from NW to WNW at Crown Bay Marine in St. Thomas. Another report from Scott Free, St. Thomas indicated sustained winds of no more than 80 mph with most of the readings staying between 65-75 mph. Cooperative observers at Winberg and Mt. Zion St. Thomas reported rainfall totals of 2.12 inches and 3.28 inches respectively. At Coral Bay St. John 3.00 inches were recorded. One persons was injured at Coral Bay St. John while riding out the hurricane on a sailboat. St. Thomas and St. John were the hardest hit of the U.S. Virgin Islands. Some areas in St. Thomas like Sub Base and Anna's Retreat received severe damage. Many houses lost their blue tarpaulin roofs. Trees, power and phone poles were blown down. FEMA reports indicated 1,415 homes damaged by Bertha. On the island of St. John 43 houses lost their roofs. Two boats were destroyed, 5 boats were grounded, and 9 boats wshed ashore at Hurricane Hole and Cruz Bay. Damages were estimated at \$7.5 millions based on FEMA's individual housing grants of \$6.5 million and family grants of \$1 million per their assesment of October 31, 1996.								
PRZ007									
	St. Croix								
	07	1100AST			0	0			Hurricane
	08	2100AST							
	A hurricane watch was issued for the U.S. Virgin Islands at 1700 AST July 6. A hurricane warning was issued at 1100 AST July 7 and discontinued at 2100 AST on July 8. At 1100 AST July 8 Hurricane Bertha was located 55 miles northeast of St. Croix with sustained winds of 85 mph with higher gusts according to NHC/TPC. Unofficial wind reports from Hess Oil St. Croix indicated maximum sustained winds of 41 mph from the WSW at 1518 AST July 8. A cooperative observer at Annaly reported 0.90 inches of rain. Heavy seas reaching 10-12 feet were reported at Cane Bay.								
PRZ002									
	Fajardo/Ceiba/Naguabo/Humacao/Yabucoa/Culebra/Vieques								
	07	1100AST			1	0	410K	6M	Hurricane
	08	2300AST							
	A hurricane watch was issued for Puerto Rico, Vieques and Culebra at 0800 AST July 7. A hurricane warning was issued for Puerto Rico, Vieques and Culebra at 1100 AST July 7. At 1400 AST Bertha was located 30 miles NE of Vieques and Culebra and calm winds were experienced at Culebra between 16-17 AST. Wind reports from the Roosevelt Roads Naval Base on July 8 indicated a maximum sustained wind of 44 mph, estimated from the N at 1125 AST, and a peak gust of 60 mph, estimated from the NNE at 0915 AST. Bertha made her closest pass to the island of Puerto Rico between 17-19 AST. The hurricane warning for								

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PUERTO RICO									
			<p>Puerto Rico was discontinued at 2300 AST on July 8. A maximum rainfall amount of 8.17 inches was recorded along Rio Icacos in Naguabo. Despite this heavy rains, no widespread or significant inland flooding was reported. However, there were several reports of swollen rivers and some minor flooding of low lying and urban areas. In Puerto Rico one death can be attributed to Hurricane Bertha. A tourist drowned while surfing in heavy seas at the Playa Azul beach area in Luquillo. Two other deaths may have been indirectly caused by the storm, when two people were killed in a traffic accident, presumably while tropical storm force winds were occurring. Coastal flooding occurred along the north coast of Puerto Rico, mainly along road 187 from Carolina to Loiza. The hardest hit area was the municipality of Culebra. Most of the damage associated to Bertha was to agriculture and commerce. However, since damages were minimum, none of the municipalities were declared disaster areas. The Housing Department estimated damages to homes at \$410,000. The agricultural damages were estimated at \$6 millions in the San Juan, Caguas, and Ponce Regions, mostly wind damage to coffee, plantain, and banana crops. The above on damages applies to San Juan, Ponce, and other areas of Puerto Rico. No individual zone damages were tabulated. M351W</p>						
PRZ001			<p>Isabela/Quebradillas/Camuy/Matillo/Arecibo/Barceloneta/Florida/Manati/Vega Baja/Vega/Alta/Corado/Toa Baja/Catano/Toa Alta/Bayamon/Guayanabo/San Juan/Trujillo Alto/Carolina/Loiza/Rio Grande/Luquillo/Can</p>						
	07	1100AST			0	0			Hurricane
	08	2300AST							
			<p>A hurricane watch was issued for Puerto Rico at 0800 AST July 7. A hurricane warning was issued at 1100 AST July 7. At 19 AST on July 8 Bertha was centered 45 miles N of San Juan with maximum sustained winds of 90 mph per NHC/TCP. At the LMM International Airport in Carolina the maximum sustained wind speed measured on July 8 was 48 mph from the NW recorded at 1710 AST and a peak gust to 60 mph from the NW at 1701 AST. Recorded rainfall at the LMM Airport was 1.56 inches. Coastal flooding was reported from Carolina to Loiza along road 187. The hurricane warning was discontinued for Puerto Rico at 2300 AST July 8. For additional information, please refer to narrative for Zone 002.</p>						
PRZ003			<p>Lajas/San German/Sabana Grande/Yauco/Guayanilla/Penuelas/Ponce/Juana Diaz/Santa Isabel/Salinas/Guayama/Arroyo/Patillas/Maunabo/Guanica</p>						
	07	1100AST			0	0			Hurricane
	08	2300AST							
			<p>Please refer to narrative statements for Zones 001 and 002.</p>						
PRZ005			<p>San Sebastian/Lares/Las Marias/Maricao/Adjuntas/Jayuya/Ciales/Morovis/Corozal/Barranquitas/Comerio/Aguas Buenas/Cidra/Caguas/Gurabo/San Lorenzo/Juncos/Las Piedras/Villalba/Coamo/Albonita/Cayey/Naranji</p>						
	07	1100AST			0	0			Hurricane
	08	2300AST							
			<p>Please refer to narrative statements for Zones 001 and 002.</p>						
St Croix	07	2000AST			0	0			Thunderstorm Wind (G33)
		2020AST							
			<p>Wind gusts to near tropical storm force were felt in St. Croix as early as 2000 AST on July 7 when a squall line ahead of Bertha crossed the U.S. Virgin Islands. The ASOS sensor at the St. Croix airport recorded a wind gust of 38 mph.</p>						
St Thomas	08	1100AST	0.2	3	0	0	15K		Tornado (F0)
		1130AST							
			<p>Observers at Crown Bay Marine reported a tornado of unknown intensity around 1100 AST July 8. Reports indicated that it developed inland and drifted offshore to Water Island. The same could have been responsible for some of the damage sustained by Frank's Bakery at Sub Base, St. Thomas.</p>						
Carolina									
Loiza	14	1745AST			0	0			Heavy Rain
		2359AST							
			<p>Tropical wave moving across Puerto Rico produced heavy rainfall across many areas. Civil Defense reported heavy rains in Fajardo, Loiza, Luquillo, Rio Grande and Vieques. Moderate rains were reported in Trujillo Alto, Canovanas, and Carolina.</p>						
Caguas Las Piedras									
Juncos	14	2130AST			0	0			Heavy Rain
	15	0100AST							
			<p>Civil Defense reported heavy rain in the Humacao and Yabucoa area. Also San Lorenzo, Juncos and Las Piedras were receiving heavy rains.</p>						
La Plato Dorado									
Toa Baja	15	0000AST			0	0			Flash Flood
		1000AST							
			<p>Several roads and streets along interior Puerto Rico were reported impassable due to flooding of small streams. Also, La Plata Dam gates were opened earlier and the river level rose steadily for several hours, posing a flood threat to the municipalities of Toa Alta, Toa Baja, and Dorado.</p>						
Culebra									
Culebra	17	1415AST			0	0			Waterspout
		1430AST							
			<p>A waterspout was reported in the vicinity of Culebra.</p>						
Carolina									
Carolina	25	1935AST			0	0			Urban/Sml Stream Fld
		2359AST							
			<p>Civil Defense reported street flooding in some sectors of Carolina and Canovanas. Several houses were reported flooded at Barrio San Isidro in Canovanas. A small stream in the Los Angeles urbanization was reported out of its banks.</p>						
Camuy									
Camuy	28	1255AST			0	0			Heavy Rain
		2000AST							

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>PUERTO RICO</u>									
	Civil Defense reported heavy rains in Camuy.								
La Plato Dorado Toa Baja	28	1350AST 2000AST			0	0			Heavy Rain
	Civil Defense reported heavy rains in Toa Baja.								
Mayaguez Anasco Maricao	29	1524AST 1800AST			0	0			Heavy Rain
	Civil Defense reported heavy rains in Maricao and Las Marias.								
<u>RHODE ISLAND</u>									
Bristol County Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Kent County Countywide	13	0200EST 1700EST			0	0			Heavy Rain
Providence County Countywide	13	0200EST 1700EST			0	0			Heavy Rain
RIZ001>007	Northwest Providence - Southeast Providence - Western Kent - Eastern Kent - Bristol - Washington - Newport								
	13	1400EST 2000EST			0	0			High Wind (G64)
	Tropical Storm Bertha brought a period of high winds, heavy rain, and minor coastal flooding to Rhode Island. The center of the tropical storm moved northeast across the state from eastern Connecticut passing near Providence at 8 PM, with a forward speed of about 25 mph. A period of high winds gusting over 40 mph from the SSE to SSW occurred over the entire state. Tropical storm force winds occurred along and just inland from the south coastal area, where there was a gust to hurricane force. Sachuedt Point in Middletown recorded a one-minute wind speed of 64 mph with a gust to 74 mph at 8:22 PM. Other peak wind gusts included: 71 mph in Barrington at 3:18 PM; 70 mph in Cranston at 2:30 PM; 67 mph in Warwick at 4 PM; and 65 mph in Woonsocket at 3:45 PM.								
	Falling trees and tree limbs knocked out power to up to 32,000 electric customers. Just about all of the power was restored within 12 hours.								
	Heavy rainfall affected most of the state with two to five and one-half inches. Less than two inches of rain fell across the southeast corner of the state. A total of 5.51 inches of rain was recorded at Coventry with 5.41 inches in Providence. Urban street flooding occurred during the heaviest rainfall. Road washouts were reported in Coventry, Warwick, and Cranston.								
	Minor coastal flooding was reported, with tides 2 to 4 feet above normal. At the Fox Point Hurricane Barrier, a storm surge of 2.1 feet was reported at 6:22 PM. Large ocean swells of 18 feet were reported offshore. Minor beach erosion occurred along the exposed shores.								
	A funnel cloud was observed near Point Judith in southeast Washington County around 3 PM. The lowest pressure of 995.9 millibars...or 29.41 inches...was recorded by the National Weather Service at Providence at 7:36 PM. Tropical Storm Bertha became only the 6th tropical cyclone this century to impact the state prior to August 1st.								
Washington County Point Judith	13	1400EST			0	0			Waterspout
Kent County Coventry to Warwick	13	1400EST 2300EST			0	0			Flash Flood
Providence County Cranston	13	1400EST 2300EST			0	0			Flash Flood
<u>SOUTH CAROLINA, Central</u>									
Chesterfield County 5 S Chesterfield	02	1415EST			0	0			Thunderstorm Wind (G80)
	A strong microburst downed trees and damaged a maintenance building at the Chesterfield Water District in the Shiloh community.								
Sumter County 15 E Sumter	02	1425EST			0	0			Thunderstorm Wind (G50)
	A severe storm took down several trees in an area around Mt. Sinai Church...15E of Sumter.								
Sumter County Rimini	02	1650EST			0	0			Thunderstorm Wind (G50)
	A severe storm took down trees and powerlines which caused numerous power outages.								
Clarendon County Summerton	02	1655EST			0	0			Thunderstorm Wind (G50)
	A severe storm produced winds to 60 mph which took down trees and powerlines. A boat was also capsized on one of the local lakes.								

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, Central</u>									
Orangeburg County Springfield	05	0841EST			0	0			Hail (1.00)
									A severe storm produced quarter size hail in Springfield. No damage was reported.
Aiken County Salley	05	0900EST			0	0			Hail (0.88)
									A severe storm produced nickel size hail in Salley. No damage was reported.
Lexington County 2 W Lexington to Pelion	15	1528EST 1540EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm moved through Lexington county and produced wind gusts to 60 mph that took down some trees.
Richland County E. Columbia	15	1603EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm took down some large tree branches and power lines in the Middleburg area in east Columbia.
Kershaw County 5 E Westville	23	1300EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm downed numerous large branches and blew patio furniture off a deck 5 miles east of Westville.
Chesterfield County 6 E Mc Bee	23	1410EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm blew several trees down on power lines about 6 miles east of McBee.
Kershaw County Lugoff	31	1750EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm downed several trees and power lines in Lugoff.
Richland County Irmo	31	1800EST			0	0			Hail (0.75)
Richland County 3 E Irmo	31	1800EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm downed trees near junction of I-26 and US 176 near Irmo.
Orangeburg County Orangeburg	31	1818EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm blew down trees and power lines in Orangeburg.
Sumter County Rembert	31	1845EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm blew down trees and power lines near Rembert.
Lee County Bishopville	31	1925EST			0	0			Thunderstorm Wind (G50)
									A severe thunderstorm blew down trees in Bishopville.
<u>SOUTH CAROLINA, North Coastal</u>									
Horry County Conway	02	2000EST 2015EST			0	0	10K		Lightning
									Lightning caused a house fire.
Horry County Crescent Beach	03	1555EST			0	0			Lightning
									Seven people walking together on beach near 23rd Ave N and Ocean Blvd were affected by a lightning strike. Two victims were unconscious, but were revived, hospitalized, and they recovered.
Horry County Allsbrook to Loris	03	1610EST 1620EST			0	0			Tstm Wind/Hail
									Reports from County PD and spotter.
Horry County Conway	10	1745EST 1900EST			0	0			Flash Flood
									Heavy rain measured 5.13 inch at Conway, causing flooded intersections.
Horry County .2 SE Cherry Grove Beach to Cherry Grove Beach	10	1753EST 1805EST	0.3	20	0	0			Tornado (F0)
									Waterspout sighted off Cherry Grove Beach moved ashore and dissipated. No tornado damage.
SCZ046	Georgetown	11 12	2000EST 1700EST		0	0			Hurricane
									Bertha's hurricane force winds stayed over the ocean, but gale force winds affected the coast, and 6-8 foot surf caused minor beach erosion. No flooding reported. Two evacuation shelters were opened on the 11th, housed 293 people, and closed the 12th following storm passage.
SCZ034	Horry	12	1100EST 1400EST		0	0	780K		Hurricane
									Bertha's sustained hurricane force winds did not reach Horry County, but gusted to 78 mph at Cherry Grove Pier in the early

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, North Coastal</u>									
Darlington County									
Hartsville	31	1940EST 2000EST			0	0			Tstm Wind/Hail
Emergency Manager reported trees down and nickel size hail.									
<u>SOUTH CAROLINA, Northwest</u>									
Greenwood County									
Greenwood	13	1500EST 1525EST			0	0	25K		Thunderstorm Wind (G75)
Greenwood County									
Greenwood	13	1503EST 1523EST			0	0			Hail (0.75)
Laurens County									
2 SE Waterloo to 3 S Cross Hill	13	1505EST 1520EST			0	0	25K		Thunderstorm Wind (G50)
A severe thunderstorm developed around the city of Greenwood and moved across Lake Greenwood. Boat covers were shredded by hail and wind, a number of trees were downed and a few docks and piers were damaged. One home's roof in Greenwood was damaged and signs and small objects were blown around.									
Greenville County									
Greenville	14	2031EST 2050EST			0	0	15K		Thunderstorm Wind (G50)
Abbeville County									
Donalds	14	2100EST			0	0	50K		Lightning
A briefly severe thunderstorm hit the downtown area of Greenville. A number of large trees were downed east of Main along Park and E. North streets and one tree fell on Main street. Power was out to 3700 customers for awhile. Lightning started a fire which partially burned a house in Donalds									
Spartanburg County									
Spartanburg	15	1230EST 1250EST			0	0			Thunderstorm Wind (G50)
York County									
Clover	15	1330EST 1350EST			0	0			Thunderstorm Wind (G50)
Chester County									
Chester	15	1335EST 1355EST			0	0			Thunderstorm Wind (G50)
Union County									
Jonesville	15	1345EST 1405EST			0	0			Thunderstorm Wind (G50)
Several large trees were downed by a severe thunderstorm in Spartanburg. Numerous trees were downed along Highway 55 in York county. Advertising signs were blown down and destroyed and doors to businesses were blown open in Chester. Power lines were downed by the wind in Jonesville.									
Spartanburg County									
Grnvl Sprtnsbrg Arpt	17	1825EST 1845EST			0	0	10K		Thunderstorm Wind (G55)
Spartanburg County									
Grnvl Sprtnsbrg Arpt	17	1826EST 1845EST			0	0			Hail (0.75)
Spartanburg County									
Gsp Intl Airport	17	1827EST 1835EST			0	0			Lightning
Greenville County									
1 W Gsp Intl Airport	17	1830EST 1850EST			0	0	20K		Thunderstorm Wind (G70)
A severe thunderstorm developed over the GSP airport. Winds officially gusted to 55 knots. On the north end of the field the tower reported wind as high as 70 knots. A baggage cart was blown through a window and several trees were downed on airport property. There was also damage to several buildings. Just west of the airport trees were blown down along Highway 14. Lightning took out several important communication and operation systems at the airport.									
SCZ010									
Anderson									
	17	2100EST			1	0			Excessive Heat
A young athlete died from a seizure caused by heat following football practice. M26PH									
Union County									
Union	23	1625EST 1650EST			0	0			Thunderstorm Wind (G50)
Union County									
Union	23	1645EST 1705EST			0	0			Thunderstorm Wind (G50)
Several trees were blown down as a slow moving pulse severe thunderstorm pounded the city. One tree fell across a mobile home in Monarch and up to 800 customers were without power.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH CAROLINA, Northwest</u>									
Anderson County Piedmont	24	1415EST 1435EST			0	0			Hail (0.88)
Spartanburg County 3 NW Lyman	24	1428EST 1500EST			0	0			Thunderstorm Wind (G50)
Greenville County 5 W Simpsonville	24	1432EST 1450EST			0	0			Hail (0.75)
Spartanburg County Reidville	24	1455EST 1515EST			0	0			Thunderstorm Wind (G50)
Severe thunderstorms caused a few reports of large hail. Thunderstorm winds blew down several trees northwest of Lyman. At Riedville trees fell across a mobile home.									
Greenwood County Greenwood	25	1520EST 1545EST			0	0			Thunderstorm Wind (G50)
York County Rock Hill	25	1745EST 1805EST			0	0			Thunderstorm Wind (G50)
A few trees were blown in Greenwood. Near Rock Hill one large tree fell along with numerous large limbs. A few power outages resulted in both cases.									
Greenville County 2 N Greer to 2 SE Greer	26	1510EST 1530EST			0	0			Thunderstorm Wind (G50)
Spartanburg County 3 E Reidville	26	1530EST 1550EST			0	0			Thunderstorm Wind (G50)
Spartanburg County Walnut Grove	26	1555EST 1610EST	0.1	10	0	0			Tornado (F1)
Spartanburg County Glenn Spgs	26	1610EST 1630EST			0	0			Thunderstorm Wind (G50)
Union County 8 W Union	26	1620EST 1640EST			0	0			Hail (0.75)
Union County 5 W Union to 5 S Union	26	1625EST 1639EST	0.3	10	0	0			Tornado (F0)
An unusual steady state severe thunderstorm developed north of Greer and became stronger as it move into increasingly unstable air. The storm began to produce a consistant damage path around Poplar Springs with the most intense damage near Walnut Grove. At Poplar Springs a mobile home was blown off its foundation. At Walnut Grove numerous large pecan trees were destroyed and homes damaged by the wind and falling trees. The tornado tracks were intermittent especially in Union county where the storm was much weaker. The funnels from both tornados were visible to several observers including trained spotters.									
<u>SOUTH CAROLINA, South Coastal</u>									
Berkeley County Moncks Corner	03	1705EST 1710EST			0	0			Thunderstorm Wind (G55)
Two mobile homes knocked partially off their foundations.									
Berkeley County 15 ESE Moncks Corner to 17 ESE Moncks Corner	03	1800EST 1805EST			0	0			Thunderstorm Wind (G50)
Large tree limbs down.									
SCZ044>045-047>050	Dorchester - Berkeley - Jasper - Beaufort - Southern Colleton - Charleston	12	0100EST 1100EST		0	0			Hurricane
Hurricane Bertha came close to the south coastal counties of South Carolina, but did not cause any significant damage. The maximum sustained winds (36kts) and peak gust (50kts) both occurred at the Charleston City Office on 7/12/96. Bertha's most significant impact was on tourism where the estimated loss revenue approached \$20,000,000. Near eleven (11) million dollars of that was in Beaufort/Hilton Head area. A few places along the Charleston coast experienced moderate beach erosion.									
Hampton County Hampton	31	1855EST 1900EST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Central and North</u>									
Hyde County Highmore	01	0005CST			0	0			Thunderstorm Wind (G52)
Hand County Miller	01	0110CST			0	0			Hail (0.75)
Lyman County 13 NW Presho	05	1720CST			0	0			Hail (1.00)
Hughes County Blunt	05	1750CST			0	0			Hail (1.75)
Jones County 5 N Draper	05	1800CST			0	0			Thunderstorm Wind (G61)
Stanley County 15 SE Ft Pierre	05	1815CST			0	0			Hail (1.00)
Sully County 14 E Onida	05	1830CST			0	0			Hail (0.75)
Hughes County 2 SE Blunt	05	1905CST			0	0			Hail (1.75)
			Golfball size hail southeast of Blunt damaged some vehicles.						
Hyde County 25 N Highmore	05	1920CST			0	0			Thunderstorm Wind (G61)
Hyde County 25 N Highmore	05	1920CST			0	0			Hail (1.00)
Hand County 6 W Polo	05	2020CST			0	0			Hail (1.75)
Sully County 1 S Agar	05	2230CST			0	0			Hail (1.00)
Sully County 1 S Agar	05	2230CST			0	0			Thunderstorm Wind (G61)
Lyman County 2 NE Iona	07	1457CST			0	0			Hail (1.00)
			High winds combined with large hail destroyed many acres of wheat and damaged some buildings northeast of Iona.						
Lyman County 2 NE Iona	07	1457CST			0	0			Thunderstorm Wind (G52)
Campbell County 3 N Artas	10	2215CST			0	0			Hail (1.00)
			Large hail combined with damaging winds broke some windows out of several homes north of Artas.						
Campbell County 3 N Artas	10	2215CST			0	0			Thunderstorm Wind (G70)
			Winds gusting to 80 mph blew a barn down, snapped several large cottonwood trees half way up, and moved a chicken coop off its foundation five feet.						
Mcperson County Eureka	10	2215CST			0	0			Thunderstorm Wind (G61)
Mcperson County 8 N Eureka	10	2215CST			0	0			Hail (1.75)
			Golfball sized hail destroyed many acres of crops north of Eureka.						
Mcperson County 5 NE Eureka	10	2230CST			0	0			Hail (0.75)
			Wind driven hail broke some windows out of a farm house five miles northeast of Eureka.						
Walworth County Selby	10	2245CST			0	0			Hail (1.00)
Walworth County 6 NE Glenham	10	2245CST 2250CST			0	0			Hail (1.75)
			Golfball size hail destroyed many acres of wheat and corn northeast of Glenham.						
Edmunds County Bowdle	10	2305CST			0	0			Hail (0.75)
Spink County Turton	11	1505CST			0	0			Hail (0.75)
Brown County Ferney	14	1510CST			0	0			Thunderstorm Wind (G61)
			A tree was blown over in Ferney by 70 mph winds.						
Day County 6 W Butler	14	1545CST			0	0			Hail (0.75)
Hughes County 10 NE Pierre to 30 SE Pierre	14	1620CST 1720CST			0	0			Hail (1.75)
			A severe thunderstorm moving southeast through western Hughes county dropped marble size hail. Some golfball size hail also						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, Central and North									
									fell. The storm left a 40 mile long and a six mile wide swath destroying most of the spring and winter wheat along with severely damaging the corn. The hail also broke some windows out of houses and vehicles.
Corson County 8 NE Glad Valley	17	1510CST			0	0			Hail (0.75)
Dewey County 2 N Isabel	17	1542CST			0	0			Hail (1.75)
Brown County 1.5 SW Tacoma Park	17	1800CST			0	0			Hail (1.00)
Brown County 4 NE Groton	17	1806CST			0	0			Hail (1.00)
Brown County 6 E Groton to 6.3 E Groton	17	1836CST 1837CST	0.3	10	0	0			Tornado (F0)
									A brief touchdown of a narrow path tornado occurred six miles east of Groton with no damage reported. Path length and width were estimated.
Day County 2 NW Andover to 2.3 NW Andover	17	1839CST 1840CST	0.3	10	0	0			Tornado (F0)
									A brief touchdown of a narrow path tornado occurred two miles northwest of Andover with no damage reported. Path length and width were estimated.
Day County 1 SW Pierpont to 4 E Pierpont	17	1852CST 1904CST	5	150	0	0	200K		Tornado (F2)
									A tornado touched down one mile southwest of Pierpont and traveled east northeast. Two miles east of Pierpont the tornado took out the west wall and the roof of a farmhouse, destroyed a machine shop, a garage, and six grain bins. A truck had its windshield crushed and its side was dented by debris. The tornado also brought down some power lines and several trees in its path.
Day County 4 SE Pierpont to 7 SE Pierpont	17	1905CST 1912CST	3	50	0	0			Tornado (F1)
									A tornado touched down four miles southeast of Pierpont and destroyed many acres of millet as it traveled southeast. No other damage occurred.
Marshall County Eden	17	1935CST			0	0			Hail (0.75)
Marshall County 1 W Eden	17	1935CST			0	0			Thunderstorm Wind (G52)
Day County Grenville	17	1951CST 1952CST	0.3	10	0	0			Tornado (F0)
									A brief touchdown of a narrow path tornado occurred near Grenville with no damage reported. Path width and length were estimated.
Clark County Garden City	17	2113CST			0	0			Hail (0.75)
Clark County 2 S Garden City	17	2116CST			0	0			Hail (0.75)
Codington County 6 N Henry to 6.3 N Henry	17	2131CST 2132CST	0.3	10	0	0			Tornado (F0)
									A brief touchdown of a narrow path tornado occurred six miles north of Henry and damaged the roof of a house and also damaged some outbuildings. Path length and width were estimated.
Codington County 2 N Waverly to 2.3 N Waverly	17	2301CST 2302CST	0.3	10	0	0			Tornado (F0)
									A brief touchdown of a narrow path tornado occurred two miles north of Waverly and blew a grain bin over, damaged the roof of a house, and broke a power pole transformer. Path length and width were estimated.
Mcperson County 10 N Eureka to 10.3 N Eureka	20	1705CST 1706CST	0.3	10	0	0			Tornado (F0)
									A brief touchdown of a narrow path tornado occurred 10 miles north of Eureka with no damage reported. Path length and width were estimated.
Hughes County 25 SE Pierre	20	1750CST			0	0			Hail (0.75)
									Dime size hail destroyed many acres of wheat 25 miles southeast of Pierre.
Sully County 14 E Onida	20	1755CST			0	0			Hail (0.88)
Sully County 15 E Onida	20	1800CST			0	0			Hail (0.88)
Hughes County 35 SE Pierre	20	1820CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Central and North</u>									
Hughes County 35 SE Pierre	20	1820CST			0	0			Thunderstorm Wind (G61)
Lyman County 10 W Lower Brule	20	1855CST			0	0			Hail (0.75)
Lyman County Oacoma	20	1918CST			0	0			Thunderstorm Wind (G61)
A wind gust to 70 mph in Oacoma downed some large tree branches. A trailer house roof was damaged when some large branches fell onto it.									
Sully County Agar	21	0000CST			0	0			Hail (0.75)
Hyde County Stephan	21	0130CST 0145CST			0	0			Hail (0.75)
Large hail stripped and destroyed several acres of corn near Stephan.									
Brown County Claremont	23	1846CST			0	0			Hail (1.00)
Corson County Mc Intosh	28	1603CST			0	0			Hail (0.75)
Sully County 22 W Onida	28	1830CST			0	0			Hail (1.75)
Sully County 20 W Onida	28	1835CST			0	0			Hail (0.75)
Hughes County 4 N Pierre	28	1855CST			0	0			Hail (1.75)
Stanley County Ft Pierre	28	1900CST			0	0			Hail (1.00)
Large hail broke windows out of some homes in Fort Pierre.									
Hughes County Pierre	28	1902CST 1915CST			0	0			Hail (2.50)
Golfball to tennis ball size hail fell for several minutes in Pierre. The large hail combined with winds gusting to 70 mph broke many windows in houses and vehicles, dented vehicles, stripped paint from many houses, and damaged roofs.									
Hughes County Pierre	28	1902CST 1915CST			0	0			Thunderstorm Wind (G61)
Winds gusting to 70 mph blew down some power lines, downed some trees, along with many large branches throughout Pierre.									
Hand County Miller	28	1958CST			0	0			Hail (0.75)
Lyman County 4 W Presho	28	2000CST			0	0			Hail (0.88)
Marshall County 7 E Britton	28	2305CST 2310CST			0	0			Thunderstorm Wind (G52)
High winds gusting to 60 mph combined with pea to marble size hail to severely damage many acres of soybeans and corn seven miles east of Britton.									
Marshall County 5 W Lake City	28	2310CST 2330CST			0	0			Thunderstorm Wind (G52)
Winds to 60 mph combined with pea to marble size hail destroyed several hundred acres of soybeans and wheat west of Lake City.									
<u>SOUTH DAKOTA, Southeast</u>									
Lincoln County Lennox	01	1446CST			0	0			Hail (1.75)
Lincoln County Harrisburg	01	1450CST			0	0			Hail (1.75)
Union County Spink	01	1515CST			0	0			Hail (1.75)
Lincoln County 10 S Canton	01	1530CST			0	0			Hail (0.88)
Union County Spink	01	1600CST			0	0			Hail (0.75)
Union County 5 E Spink	01	1707CST			0	0			Hail (1.00)
Union County Jefferson to 3 E Jefferson	01	1721CST 1730CST			0	0	20K	50K	Hail (1.75)
A 2 to 4 mile wide swath of golf ball size hail caused crop and house damage.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
SOUTH DAKOTA, Southeast									
Douglas County									
Armour	06	0800CST			0	0	10K		Lightning
									Lightning struck a city distribution substation, damaging a transformer and leaving the entire town of Armour without power for seven hours. The damage was such that the breaker couldn't be closed to re-route the electricity.
Jerauld County									
4 W Wessington Spgs to 5 E Lane	07	1455CST 1520CST			0	0	100K	2M	Hail (1.75)
									A swath of hail 2 to 3 miles wide caused crop damage which was total in much of the area. The hail accumulated as much as a foot in places. The hail, which was accompanied by damaging winds, also broke windows and damaged vehicles.
Jerauld County									
3 S Wessington Spgs to 5 E Lane	07	1500CST 1520CST			0	0	100K	100K	Thunderstorm Wind (G62)
									Thunderstorm winds caused damage to trees, farm buildings, power lines, and crops. Two barns were destroyed. Large trees were uprooted just south of Lane.
Sanborn County									
3 W Woonsocket to 5 E Woonsocket	07	1510CST 1536CST			0	0	50K	1M	Hail (1.75)
									A swath of hail 2 to 3 miles wide which moved into the county from the west caused severe crop damage and scattered damage to vehicles.
Sanborn County									
3 W Woonsocket to 5 E Woonsocket	07	1510CST 1530CST			0	0	10K		Thunderstorm Wind (G62)
									Thunderstorm winds caused tree and building damage, including the destruction of a large cattle shed just west of Woonsocket.
Charles Mix County									
2 N Academy	07	1545CST			0	0			Hail (1.75)
Miner County									
4 SE Carthage	07	1613CST			0	0			Hail (0.75)
Kingsbury County									
8 W Oldham	07	1630CST			0	0			Hail (0.75)
Charles Mix County									
Academy to Platte	07	1647CST 1708CST			0	0			Hail (2.50)
									Hail caused scattered property and crop damage. Although a damage amount was not obtained, the extension officer several weeks later reported that the crop damage was not large because of the fairly small area of crops affected, and because much of the wheat crop affected was later determined to have recovered.
Charles Mix County									
Geddes	07	1734CST			0	0			Hail (0.75)
Sanborn County									
5 S Woonsocket to 5 SE Artesian	07	1915CST 1945CST			0	0		1M	Hail (1.75)
									Hail damaged crops in a swath 3 miles wide and about 20 miles long.
Miner County									
3 S Fedora	07	1950CST			0	0			Hail (0.75)
Union County									
Elk Pt to North Sioux City	16 17	1700CST 0100CST			0	0	100K		Heavy Rain
									Heavy rain of 6 to 10 inches fell over southern Union County and caused lowland and basement flooding, with the worst conditions reported at Dakota Dunes.
Yankton County									
10 W Yankton	16	2055CST			0	0			Hail (0.88)
Yankton County									
1 S Yankton	16	2136CST			0	0			Hail (1.00)
Brule County									
Chamberlain	21	0140CST 0215CST			0	0	150K		Thunderstorm Wind (G70)
									Thunderstorm winds blew down tree branches and limbs, causing damage to vehicles including one roof caved in, several broken windows, and numerous scratches. The winds also blew down power lines and destroyed several storage sheds.
Brule County									
5 N Chamberlain to 5 N Kimball	21	0140CST 0230CST			0	0	500K		Hail (0.75)
									Hail caused areas of severe crop damage from north of Chamberlain to north of Kimball. Corn suffered the greatest damage with affected wheat crops expected to partially recover.
Brule County									
Kimball	21	0145CST 0220CST			0	0	150K		Thunderstorm Wind (G70)
									Thunderstorm winds caused tree damage and some resulting vehicle damage from the debris. Some trees were uprooted...one of which damaged a wall and window of a house. A few storage buildings were destroyed and some power lines were blown down.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Southeast</u>									
Aurora County Plankinton	21	0305CST			0	0			Thunderstorm Wind (G50)
<u>SOUTH DAKOTA, West</u>									
Fall River County Edgemont	03	2100MST 2102MST			0	0			Thunderstorm Wind (G65)
Tripp County Winner	05	2018MST 2020MST			0	0			Thunderstorm Wind (G72)
Butte County 10 NE Belle Fourche to 45 E Belle Fourche	05 06	2100MST 0030MST			0	0	2K	4.5M	Tstm Wind/Hail
Butte County 15 E Belle Fourche	05	2130MST 2145MST			0	0			Hail (2.00)
Butte County Nisland	05	2130MST 2145MST			0	0			Thunderstorm Wind (G87)
3 silos and numerous buildings destroyed. 1200 trees damaged. One car garage lifted and moved 60 feet.									
Meade County 30 N Rapid City	05	2130MST 2200MST			0	0	250K		Thunderstorm Wind (G87)
54 64,000 volt transmission poles downed. 50 power distribution poles downed.									
Meade County 25 NE (Rca)Ellsworth Afb R	05	2200MST 2215MST			0	0			Thunderstorm Wind (G87)
Windows blown out of house. Fist-sized holes created on interior walls by wind driven debris/glass.									
Meade County 28 E Sturgis	05	2200MST 2245MST			0	0			Hail (2.00)
20 horses killed. Travel trailer destroyed. 1400 acres of wheat destroyed.									
Butte County Vale	05	2225MST 2227MST			0	0			Thunderstorm Wind (G61)
Meade County 20 NE Sturgis	05	2250MST 2252MST			0	0			Thunderstorm Wind (G61)
Meade County 15 NE Sturgis to 45 NE Rapid City	05 06	2330MST 0230MST			0	0		5M	Tstm Wind/Hail
Pennington County 50 ENE (Rap)Rapid City Arpt	06	0005MST 0030MST			0	0	1M	5M	Tstm Wind/Hail
Beginning Friday, July 5, 1996 and lasting through the early morning of July 6, a severe thunderstorm with large hail and damaging winds destroyed over 200,000 acres of cropland (and damaged an additional 300,000 acres) in Butte, Meade and Pennington counties. Hundres of sheep, cattle and horses were killed in a swath of detruccion over 100 miles long and 4 to 5 miles wide. From near Belle Fourche (in Butte County) through Creighton (in Pennington county), an estimated 9.5 million dollars in crop and property damage was sustained. 104 power lines were toppled in less than an hour in northen Meade county.									
Custer County 18 SW Hermosa	06	0030MST 0045MST			0	0			Hail (0.75)
Several cars and trucks were damaged.									
Custer County 18 SW Hermosa	06	0030MST 0045MST			0	0			Thunderstorm Wind (G70)
Several ranches along county road 16 reported wind damage. Doors were blown off a storage building. Roofs suffered extensive damage from the wind. Large limbs were ripped from trees. 100 percent crop loss occurred at one ranch.									
Shannon County 10 NW Sharps Corner	07	1315MST 1320MST			0	0			Hail (1.75)
Golf ball sized hail fell on Badlands National Park Vistor's Center.									
Tripp County Lone Star	07	1500MST 1510MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Meade County Sturgis	16	1715MST 1730MST			0	0			Hail (1.00)
Butte County 40 NE Belle Fourche	16	1715MST 1730MST			0	0			Hail (2.00)
Butte County Newell	16	1900MST 1910MST			0	0			Hail (1.50)
Meade County 20 SW Faith	16	2130MST 2150MST			0	0			Hail (2.00)
Perkins County Meadow	17	1340MST 1345MST			0	0			Hail (1.00)
Pennington County Hill City	20	2045MST 2050MST			0	0			Hail (1.00)
Pennington County Hill City	20	2047MST 2050MST			0	0			Hail (1.75)
Pennington County Mount Rushmore	20	2055MST 2105MST			0	15	150K		Hail (2.00)
		300 to 500 people caught in hail storm. Over 100 vehicles damaged.							
Pennington County Keystone	20	2100MST 2105MST			0	0			Hail (1.75)
Custer County Hermosa	20	2115MST 2120MST			0	0			Hail (2.00)
Pennington County 10 S Rapid City to Rapid City	20	2122MST 2145MST			0	0			Hail (0.75)
		Hail was 2 inches deep on highway 79.							
Custer County Fairburn	26	1445MST 1450MST			0	0			Hail (0.75)
Pennington County Johnson Siding	31	1205MST 1210MST			0	0			Hail (1.75)
Pennington County Hisega	31	1205MST 1210MST			0	0			Hail (1.00)
Pennington County Mount Rushmore	31	1250MST 1255MST			0	0			Hail (0.75)
Custer County Custer State Park	31	1320MST 1330MST			0	0			Funnel Cloud
Custer County Mount Coolidge	31	1326MST 1340MST			0	0			Hail (2.00)
Harding County Buffalo	31	1415MST 1420MST			0	0			Hail (1.75)
Harding County Buffalo	31	1559MST 1605MST			0	0			Hail (0.75)
Harding County Ladner	31	1600MST 1605MST			0	0			Hail (1.75)
Harding County Harding	31	1615MST 1620MST			0	0			Hail (1.25)
<u>TENNESSEE, Central</u>									
Marion County Jasper	07	1400CST			0	0	0.50K		Thunderstorm Wind
		Sheriff's office reported 2 trees were blown down. They knocked out telephone lines.							

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Marion County									
Whitwell	07	1400CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office and power company reported a tree was blown down.						
Wayne County									
Countywide	07	1940CST			0	0			Thunderstorm Wind (G50)
			Local law enforcement reported trees down around the county.						
Humphreys County									
Waverly	07	1950CST			0	0	0.50K		Thunderstorm Wind
			Local law enforcement reported trees and power lines down.						
Humphreys County									
Waverly	07	1950CST			0	0	10K		Lightning
			Lightning completely destroyed a garage on Bakerville Rd.						
Hickman County									
Centerville	07	2000CST			0	0	50K		Lightning
			Fire caused heavy damage to a home that was struck by lightning in the Hilltop Community. It was estimated that 50 percent of the home was burned.						
Lawrence County									
Countywide	07	2010CST			0	0			Thunderstorm Wind (G50)
			A few trees were blown down around the county.						
Lewis County									
Gordonsburg	07	2015CST			0	0			Thunderstorm Wind (G50)
			Sheriff's office reported trees down.						
Hickman County									
Northern Sections	07	2025CST			0	0			Thunderstorm Wind (G50)
			Centerville Police Dept. reported trees down on I-40 in northern part of county.						
Dickson County									
Southern Sections	07	2042CST			0	0			Thunderstorm Wind (G50)
			Skywarn spotter reported trees down.						
Marshall County									
Lewisburg	07	2100CST			0	0			Thunderstorm Wind (G50)
			A large tree limb was blown down in Lewisburg.						
Benton County									
3 W Camden	08	1235CST			0	0	75K		Thunderstorm Wind
			Power company reported metal roof blown off building, owned by the Camden Hardwood Company, located just west of Camden. Trees blown down in area as well.						
Benton County									
Countywide	08	1255CST			0	0			Thunderstorm Wind (G50)
			Power company reported numerous trees blown down on power lines across the county. The highway department alone had to clear 14 trees which were blown down across roadways around the county.						
Benton County									
Sawyers Mill	08	1255CST			0	0	10K		Thunderstorm Wind (G50)
			The roof of a house and dog pen received damage from strong thunderstorm winds on Old Bruceton Rd. Numerous trees and branches were blown down in the area as well.						
Humphreys County									
Waverly	08	1305CST			0	0			Thunderstorm Wind (G50)
			Highway department reported trees down in Waverly.						
Humphreys County									
Northern Sections	08	1314CST			0	0	0.30K		Thunderstorm Wind
			Power company reported tree down on power line in northern part of county.						
Dickson County									
Northern Section	08	1330CST			0	0			Thunderstorm Wind (G50)
			Power company reported trees down.						
Hickman County									
Countywide	08	1345CST			0	0			Thunderstorm Wind (G50)
			Highway department reported trees blown down around the county.						
Davidson County									
Nashville	14	1715CST 1815CST			0	0			Thunderstorm Wind (G50)
			Trees and wires down along Kirkwood St., Clayton Ave., and Belmont Blvd.						
Smith County									
New Middleton	21	1330CST			0	0			Thunderstorm Wind (G50)
			Several trees and power lines were down, some of them along Highway 141. One of the trees blown down was a 100 year old oak tree in the front yard of Mr. E.S. White.						
Macon County									
Western Sections	21	1630CST			0	0			Thunderstorm Wind (G50)
			Tree down in western part of county.						

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Macon County Countywide	21	1730CST			0	0			Thunderstorm Wind (G50)
			Trees down across the county.						
Sumner County Countywide	21	1800CST 1830CST			0	0			Thunderstorm Wind (G50)
			Trees and power lines were down around the county.						
Davidson County Nashville	21	1805CST			0	0	200K		Thunderstorm Wind
			Strong thunderstorm winds knocked down a transmission tower for WKDF-AM radio station in downtown Nashville. It landed on a Nissan truck which was to be a promotional item for the radio station and on another car in the parking lot. Nashville Electric Service reported more than 200 power lines down; about 13,000 people were without power. Ther hardest hit areas without power were West and North Nashville, Antioch and Goodlettsville. One apartment lost a roof in West Nashville at Sequoia Village. Also, a tree fell on top of a car in a church parking lot.						
Davidson County Nashville	21	1805CST			0	0			Thunderstorm Wind (G50)
			Skywarn spotter reported minor damage to Polk Building in downtown Nashville.						
Davidson County Nashville	21	1812CST			0	0			Thunderstorm Wind (G50)
			Numerous trees and power lines were down in the west and northwest part of the city.						
Davidson County Hermitage	21	1812CST			0	0			Thunderstorm Wind (G50)
			Numerous trees and power lines down.						
Davidson County Madison	21	1812CST			0	0			Thunderstorm Wind (G50)
			Numerous trees and power lines blown down.						
Wilson County Western Sections	21	1815CST 1830CST			0	0			Thunderstorm Wind (G50)
			Trees and power lines down in western part of Wilson county.						
Smith County Carthage	21	1820CST 1825CST			0	0			Thunderstorm Wind (G50)
			Tree limbs of various sizes were blown down around the city of Carthage.						
Smith County 5 W Carthage	21	1830CST			0	0			Thunderstorm Wind (G50)
			One tree was blown down.						
Montgomery County Clarksville	21	1933CST			0	0	3K		Thunderstorm Wind (G50)
			Trees and power lines were down in downtown Clarksville. One tree clipped a metal utility pole when it fell. About 4,500 electric customers lost power throughout the city.						
Stewart County Northeast Sections	21	1952CST 2200CST			0	0			Flash Flood
			Flooding occurred in the Big Rock and Bumpus Mills area. Low lying areas were flooded with as much as 1 foot of water on roadways.						
Wilson County Western Sections	21	1957CST			0	0			Thunderstorm Wind (G50)
			Trees and power lines down in the Saundersville area of western Wilson county.						
Rutherford County Murfreesboro	21 22	2000CST 0000CST			0	0	1K		Flash Flood
			5 families had to be evacuated in the Murfreesboro area due to high water. Several roads were closed as well due to high water in Murfreesboro.						
Rutherford County Countywide	21 22	2000CST 0000CST			0	0			Flash Flood
			Water was across low lying spots on many county roads.						
Rutherford County 4.2 SW Murfreesboro	21	2000CST			0	0			Thunderstorm Wind (G50)
			Tree was blown down on Rucker Lane between Highway 96 and Highway 99.						
Bedford County Countywide	21	2030CST			0	0			Thunderstorm Wind (G50)
			A few trees and tree limbs were blown down around the county.						

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
TENNESSEE, Central									
Coffee County									
Beech Grove	21	2030CST			0	0			Thunderstorm Wind (G50)
			A few trees and tree limbs down near Beech Grove.						
Davidson County									
Goodlettsville	21	2040CST			0	0			Hail (1.75)
			Dime to golf ball size hail reported.						
Davidson County									
Nashville	21	2109CST 2330CST			0	0			Flash Flood
			Street flooding, underpasses flooded, 6 feet of water on I-24 at I-24 and I-40 split.						
Wilson County									
Countywide	21	2115CST			0	0			Thunderstorm Wind (G50)
			Large tree limbs down across the county.						
Wilson County									
Lebanon	21 22	2215CST 0115CST			0	0			Flash Flood
			Several roads closed due to high water in the vicinity of U.S. Rt 231N and Wilson Ave.						
Sumner County									
Hendersonville	21	2230CST 2330CST			0	0			Flash Flood
			Hendersonville police department reported stream flooding and street flooding in a few areas in Hendersonville.						
Cannon County									
Auburntown	21 22	2245CST 0145CST			0	0	200K		Flash Flood
			Several creeks and streams were out of their banks which caused several evacuations. There were numerous road closures around the county due to high water. The rainfall was estimated to be about 6 inches in 3 hours. It started to rain really hard after 2200 CST. The Bank of Commerce in Auburntown had about a foot of water inside and as a result caused \$10,000 worth of damages. The City Hall had 18 inches of water in the basement. Sanders Fork and Marshall Creek, which join in the center of Auburntown, flooded. This caused almost every building in the downtown business district of Auburntown to have water inside.						
			20 homes suffered losses and 5 of them had water inside. 9 vehicles were totally destroyed by the flood waters. One apartment building had damage from the high water.						
			There were reports of some farm animals and dogs that perished in the flood waters.						
Cannon County									
Woodbury	21 22	2245CST 0145CST			0	0	1K		Flash Flood
			Several creeks and streams were out of their banks in the Woodbury area. There were a few evacuations and numerous road closures around the county. 4 families were evacuated from the Twin Oaks Subdivision off Old Woodbury Highway.						
Hickman County									
5 E Centerville	21	2330CST			0	0			Thunderstorm Wind (G50)
			Highway department reported trees down.						
Maury County									
Santa Fe	21	2330CST			0	0			Thunderstorm Wind (G50)
			Trees and tree limbs were blown down on Highway 7 near Santa Fe.						
Macon County									
Green Grove	22	1253CST			0	0	150K		Lightning
			Lightning was the cause of a fire that totally destroyed a brick home. The fire started in the roof and attic of the home.						
Franklin County									
Winchester	22	2240CST			0	0	6.3K		Lightning
			6 heads of cattle, specifically Holsteins, were struck by lightning as they huddled under 2 trees on the John Miller Farm.						
Putnam County									
Countywide	28	1200CST 1500CST			0	0			Flash Flood
			Putnam county emergency management officials reported several subdivisions and bridges were underwater across the county.						
Montgomery County									
Clarksville	29	1045CST			0	0	0.30K		Thunderstorm Wind
			Power line was down north of Clarksville.						
Robertson County									
Cedar Hill	29	1100CST			0	0			Thunderstorm Wind (G50)
			Power outages at Cedar Hill.						
Cheatham County									
4 E Ashland City	29	1115CST			0	0	0.30K		Thunderstorm Wind
			Power line was down.						
Sumner County									
Gallatin	29	1145CST			0	0			Thunderstorm Wind (G50)
			Large tree limbs were down on power lines causing numerous power outages.						

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, Central									
Davidson County 8 W Nashville	29	1150CST			0	0			Thunderstorm Wind (G50)
			Trees and power lines were down 7 to 8 miles west of downtown Nashville.						
Lawrence County Liberty Grove	29	2150CST			0	0			Thunderstorm Wind (G50)
			A few power lines were down.						
TENNESSEE, East									
Washington County Countywide	02	1400EST			0	0	10K	5K	Thunderstorm Wind
			Trees and Tree limbs blew down onto powerlines.						
Unicoi County Countywide	02	1400EST			0	0	5K	1K	Thunderstorm Wind
			Trees and tree limbs blew down onto powerlines.						
Hancock County Countywide	02	1515EST			0	0		2K	Thunderstorm Wind
			Trees were downed on highways 33 and 37 as well as in the Christian Bend Area						
Hawkins County Countywide	02	1515EST 1520EST			0	0		2K	Thunderstorm Wind
			Trees were downed on Highways 33 and 37 as well as in the Christian Bend area.						
Sullivan County Bristol	02	1515EST 1520EST			0	0		2K	Thunderstorm Wind
			Trees were downed on highways 33 and 37 as well as in the Christian Bend area.						
Greene County West Part	02	1520EST 1530EST			0	0	60K		Thunderstorm Wind
			A mobile home was destroyed and a barn blown over. Numerous trees were blown down. A lightning strike caused a fire that destroyed a woodworking shop.						
Hamblen County South Part	02	2000EST			0	0	20K		Thunderstorm Wind
			A barn was heavily damaged in the southern part of the county.						
Blount County Maryville	02	2155EST			0	0			Hail (0.75)
Blount County Rockford	13	0800EST			1	0			Lightning
			A man was struck and killed by lightning at a rockford construction site. M24EQ						
Hawkins County Countywide	13	1500EST 1530EST			0	0			Flash Flood
			Heavy rain from thunderstorms flooded many roads and damaged several residences. A resident of Independence had to be rescued from her home.						
Knox County Countywide	13	2025EST 2035EST			0	0		5K	Thunderstorm Wind
			Numerous trees and powerlines were knocked down.						
Anderson County 5 N Clinton	13	2200EST			0	0			Flash Flood
			Heavy rain from thunderstorms resulted in mud slides and flash flooding along highway 25W between Clinton and Lake City.						
Washington County Gray	14	1715EST 1750EST			0	0	10K		Thunderstorm Wind
			Numerous trees and powerlines were downed. Some trees fell onto cars. A few houses were damaged.						
Sullivan County Countywide	14	1715EST 1750EST			0	0	15K		Thunderstorm Wind
			Numerous trees and powerlines were downed. Some trees fell onto cars. A few houses were damaged.						
Grainger County 5 S Bean Station to Bean Station	14	1715EST 1750EST			0	0	10K		Thunderstorm Wind
			Numerous trees and powerlines were downed. Some trees fell onto cars. A few houses were damaged.						
Unicoi County South Part	15	1410EST			0	0		2K	Thunderstorm Wind
			Several trees and powerlines were knocked down.						
Hamilton County Ooltewah	23	0130EST			0	0		4K	Thunderstorm Wind
			Trees blew down across Snow Hill Road.						

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, East									
Blount County Springview	23	0215EST			0	0	10K		Thunderstorm Wind
			Powerlines were downed in the Springbrook area.						
Monroe County Sweetwater	29	1730EST 1800EST			0	0	4K		Thunderstorm Wind
			Several trees and powerlines were knocked down. The roof of a back porch was destroyed in Sweetwater.						
Mcminn County Etowah	30	1425EST			0	0	10K		Thunderstorm Wind
			Powerlines were downed around the Etowah area.						
Polk County Benton	30	1450EST 1555EST			0	0	5K	2K	Thunderstorm Wind
			Several trees and powerlines were knocked down.						
Monroe County Madisonville	30	1500EST			0	0	10K		Lightning
			A lightning strike caused a fire that damaged a house.						
TENNESSEE, West									
Lauderdale County Ripley	07	1715CST 1730CST			0	0	5K		Thunderstorm Wind
			Numerous trees and power lines were blown down.						
Weakley County Dresden to Latham	07	1800CST 1830CST			0	0	10K		Thunderstorm Wind
			Several homes suffered roof and shingle damage. Numerous trees and power lines were blown down as well.						
Weakley County Dresden	07	1815CST 1820CST			0	0	20K		Thunderstorm Wind
			One house had its roof ripped off. A 100-year-old tree was knocked down as well.						
Madison County Jackson	07	1815CST 1824CST			0	0	10K		Thunderstorm Wind
			Numerous trees and power lines were blown down.						
Gibson County Humboldt	07	1819CST 1824CST			0	0	0.50K		Thunderstorm Wind
			A power line was blown down.						
Haywood County Brownsville	07	1825CST 1830CST			0	0	10K		Thunderstorm Wind
			Numerous trees and power lines were knocked down.						
Shelby County Lucy	07	1830CST 1835CST			0	0	2K		Thunderstorm Wind
			Several trees and power lines were knocked down.						
Tipton County Cotton Lake	07	1830CST 1835CST			0	0	1K		Thunderstorm Wind
			A major power line was knocked down.						
Henderson County 2 SW Rock Spgs	07	1830CST 1845CST			0	0	5K		Thunderstorm Wind
			Numerous trees were blown on top of power lines.						
Weakley County Dresden to Greenfield	07	1843CST 1855CST			0	0	2K		Thunderstorm Wind
			Several trees and power lines were blown down.						
Gibson County Humboldt	07	1845CST 1850CST			0	0	2K		Thunderstorm Wind
			A few trees and power lines were blown down.						
Henry County Henry	07	1845CST 1900CST			0	0	2K		Thunderstorm Wind
			A few trees and power lines were knocked down.						

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TENNESSEE, West									
Shelby County Bartlett	07	1853CST 1855CST			0	0	200K		Lightning
									A church was badly damaged by a fire started by lightning.
Shelby County Millington	07	1900CST 1905CST			0	0	1K		Thunderstorm Wind
									A few trees were blown down.
Gibson County Milan	08	1030CST 1130CST			0	0	5K		Flash Flood
									Locally heavy rainfall produced flash flooding in downtown Milan. Water reached several buildings along South First street.
Henry County Cottage Grove to Paris	08	1205CST 1230CST			0	0	10K		Thunderstorm Wind
									An awning collapsed from the strong winds. Several trees and power lines were knocked down.
Carroll County Bruceston	08	1230CST 1235CST			0	0	12K		Thunderstorm Wind
									A shed was blown down and a carport was damaged. Numerous trees and power lines were knocked down as well.
Henry County Paris	08	1230CST 1330CST			0	0	0.50K		Urban/Sml Stream Fld
									Nearly two inches of rain produced street flooding in Paris.
Fayette County Galloway	22	1850CST 1855CST			0	0	1K		Thunderstorm Wind
									A few trees were blown down across Interstate 40.
Tipton County Mason	22	1900CST 1905CST			0	0	5K		Thunderstorm Wind
									Numerous trees and power lines were knocked down.
Shelby County Memphis	22	1900CST 1905CST			0	0	3K		Thunderstorm Wind
									Several road signs were blown down around the intersection of Interstate 55 and Interstate 240. Several trees were knocked down across the city.
Shelby County Memphis Intl Arpt	22	1910CST 1915CST			0	0	5K		Thunderstorm Wind
									A hangar at the Federal Express complex suffered roof damage.
Fayette County Somerville to La Grange	22	1940CST 1950CST			0	0	2K		Thunderstorm Wind
									Several trees were knocked down.
McNairy County Acton	22	1940CST 1945CST			0	0	2K		Thunderstorm Wind
									A few trees and power lines were blown down.
Madison County Pinson	22	1950CST 1955CST			0	0	2K		Thunderstorm Wind
									Several trees and power lines were knocked down.
Hardeman County 5 S Bolivar	22	2000CST 2005CST			0	0	5K		Thunderstorm Wind
									Numerous trees were blown down.
Henderson County Lexington	22	2030CST 2035CST			0	0	1K		Thunderstorm Wind
									Several trees and power lines were blown down.
Shelby County Memphis	24	1600CST 1900CST			0	0	5K		Flash Flood
									As much as seven inches of rain fell in a three hour period over the southeast part of Memphis. Four feet of water accumulated on some streets causing cars to float away. Several roads had to be closed because of the high water.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage Property	Crops	Character of Storm
					Killed	Injured			
TENNESSEE, West									
Madison County									
Jackson	24	1730CST 1735CST			0	0	5K		Thunderstorm Wind
									The roof to the Union Planters National Bank blew over 300 yards. Another nearby building suffered roof damage.
Dyer County									
Newbern	29	1500CST 1600CST			0	0	1K		Flash Flood
									Over four inches of rain produced some flash flooding in Newbern. One house was damaged by flood waters.
Dyer County									
Dyersburg	29	1545CST 1550CST			0	0	2K		Thunderstorm Wind
									One business and two houses were damaged. Seven trees were blown down.
Shelby County									
Millington	29	1900CST 1905CST			0	0	2K		Lightning
									A home was struck by lightning which ignited the attic.
Tipton County									
Covington	29	1915CST 1920CST			0	0	1K		Thunderstorm Wind
									Several trees and power lines were knocked down.
Weakley County									
Dresden	30	0804CST 0809CST			0	0	20K		Lightning
									A house was destroyed by a fire started by lightning.
Obion County									
Union City	31	0200CST 0500CST			0	0	200K		Flash Flood
									Over six inches in a short period of time produced flash flooding in Union City. Sixteen mobile homes were destroyed by the flood waters. Thirteen homes and five businesses were damaged as well.
TEXAS, Central									
San Saba County									
2 N San Saba	15	0800CST 1030CST			0	0			Flash Flood
									Five inches of rain fell over parts of San Saba County. Roads were flooded in numerous parts of the county.
Callahan County									
Cross Plains	31	1415CST			0	0	50K	0	Thunderstorm Wind
									The winds blew roofs off of buildings and a fireworks stand was blown over.
TEXAS, Central Southeast									
Houston County									
Nrn County	04	1417CST			0	0	35K		Thunderstorm Wind
									Half of a barn roof and part of a house roof blown off. A Farm gate was also blown down.
Polk County									
Moscow	04	1530CST			0	0	5K		Thunderstorm Wind
									Trees blown down.
San Jacinto County									
Coldspring	04	1640CST			0	0	5K		Hail (1.00)
Houston County									
3 S Crockett	04	1645CST			0	0	5K		Thunderstorm Wind
									Trees blown down on HWY 287.
San Jacinto County									
Cape Royale	04	1740CST			0	0	25K		Thunderstorm Wind
									Boat and jet-ski blown off trailer and the jet-ski was blown across the parking lot. Trees were also blown down.
San Jacinto County									
Central Portion	09	1710CST 1915CST			0	0	10K		Flash Flood
									HWY 150 between Evergreen and Coldspring flooded.
San Jacinto County									
Srn County	09	1718CST			0	0	5K		Hail (0.75)
San Jacinto County									
Srn County	09	1730CST			0	0	5K		Hail (1.75)
Trinity County									
10 NW Groveton	23	1937CST			0	0	5K		Thunderstorm Wind
									Trees blown down.
Harris County									
Houston	24	1325CST			0	0	10K		Thunderstorm Wind
									4 light poles blown down in downtown Houston.

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS, Central Southeast</u>									
Houston County Crockett	24	1534CST			0	0	5K		Thunderstorm Wind
			Trees blown down and blocking HWY 21.						
Polk County Indian Vlg	24	1539CST			0	0	5K		Thunderstorm Wind
			Trees blown down at FM 1276 and Indian Cutoff Rd.						
Houston County Lovelady	24	1539CST			0	0	5K		Hail (0.75)
Grimes County Carlos	24	1830CST			0	0	5K		Thunderstorm Wind
			Trees and large limbs blown down.						
Washington County 5 S Independence	24	1950CST			0	0	5K		Hail (1.75)
Brazos County Nrn County	24	2315CST			0	0	10K		Thunderstorm Wind
			Utility shed and fence blown down in northern part of the county.						
Houston County Central Portion	25	0137CST 0345CST			0	0	10K		Flash Flood
			Street flooding in Crockett. HWY 7 was barricaded due to high water. Three cars were swept off HWY 21 near Crockett.						
Washington County Independence	25	1905CST			0	0	10K		Hail (2.00)
Harris County Houston	26	0000CST			0	0	100K		Lightning
			Lightning strike caused house fire at 6110 Ogden Forest (destroyed house).						
<u>TEXAS, Extreme West</u>									
NONE REPORTED.									
<u>TEXAS, Mid - South</u>									
Webb County Laredo	10	0300CST			0	0			Flash Flood
			Laredo DPS and Sheriff reported widespread flooding with several households evacuated.						
Webb County Laredo	10	0600CST			0	0			Flash Flood
			Laredo DPS reported widespread flooding of local roadways and homes. Laredo DPS reported flooding across the southern part of the city, and on Interstate 35 at mile marker 22 in webb county with 5 inches of water covering the road. 4.14 inches of rain was received during this event in a 12 hour period at Laredo. Doppler radar storm total rainfall estimates were up to 6 inches across the warned area.						
Calhoun County Fulghums Landing	25	0845CST 0847CST	0.3	5	0	0			Tornado (F0)
			Port O'Connor Coast Guard reported a tornado near Fulgrams Landing between Port O'Connor and Seadrift in southcentral calhoun county. This was a waterspout which moved on land then dissipated shortly thereafter.						
<u>TEXAS, North</u>									
TXZ119	Dallas	01 09			2	0			Excessive Heat
		0000CST 2300CST	A ridge of high pressure developed over the Southern Plains during the first week of the month. A dry air mass, dry soils, light downslope winds and strong solar heating contributed to temperatures at or above 100 degrees for 7 consecutive days across much of North Texas. Heat indices of 110 to 120 degrees were prevalent during the afternoon with little relief occurring at night as temperatures remained in the upper 70s to lower 80s. Excessive heat advisories were issued for much of northern Texas during this period. Four record high temperatures were observed in the Dallas/Fort Worth area with Waco recording three new record high temperatures during this heat wave. The prolonged heat stressed the health of many and nine people succumbed to it; six in Fort Worth, two in Dallas and one in Denton. M76PH, F77PH						
TXZ103	Denton	01 09			1	0			Excessive Heat
		0000CST 2300CST	An elderly woman died from heat related problems in her home. F85PH						
TXZ118	Tarrant	01 09			6	0			Excessive Heat
		0000CST 2300CST	Several elderly people died from heat related problems during the heat wave. F93PH, F51PH, F67PH, M82PH, F71PH, F74PH						

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, North									
TXZ118	Tarrant	01	0000CST			0	0		Drought
		31	2300CST						
									Drought conditions continued to slowly improve during the month of July as scattered thunderstorms affected the area throughout the typically dry mid-summer month. Many areas received above normal precipitation for the month including the Dallas/Fort Worth and Waco/Temple/Killeen areas. The above normal rainfall began to alleviate the agricultural drought as soil moisture returned but low lake levels and reservoirs continued to stress recreation and water management interests.
Limestone County									
 Mexia		04	1700CST			0	0	40K	Thunderstorm Wind
									Strong winds caused major damage to a house.
Denton County									
 Krum		04	1820CST			0	0	80K	Thunderstorm Wind
									A downburst destroyed two barns and damaged seven homes.
Denton County									
 Krum		04	1840CST			0	0		Thunderstorm Wind
									Trees were blown down by high winds.
Collin County									
 Weston		08	1630CST			0	0	5K	Thunderstorm Wind
									Strong winds uprooted trees and damaged a roof.
Collin County									
 Weston		08	1630CST			0	0	100K	Lightning
			1645CST						Lightning struck a house and started a fire that engulfed it.
Hopkins County									
 Pine Forest		08	1728CST			0	0		Thunderstorm Wind
									Trees were blown down by high winds.
Hopkins County									
 Sulphur Spgs		08	1740CST			0	0	4K	Thunderstorm Wind
									A mobile home was flipped over and damaged by high winds.
Wise County									
 3 SE Boyd		08	1758CST			0	0		Thunderstorm Wind (G52)
Wise County									
 3 SE Boyd		08	1758CST			0	0		Hail (0.88)
Wise County									
 Boyd		08	1810CST			0	0		Thunderstorm Wind
									A large tree was blown down by high winds.
Tarrant County									
 White Settlement		09	1305CST			0	0		Hail (1.75)
Tarrant County									
 Richland Hills		09	1307CST			0	0		Hail (1.75)
Tarrant County									
 White Settlement		09	1311CST			0	0	25K	Thunderstorm Wind
									A roof was blown off a business by strong winds.
Tarrant County									
 Ft Worth		09	1335CST			0	0		Flash Flood
			1415CST						One foot of water was reported over Henderson St. at I-30.
Tarrant County									
 North Richland Hills		09	1345CST			0	0		Hail (0.75)
Dallas County									
 Farmers Branch		09	1405CST			0	0		Hail (0.75)
Ellis County									
 Ennis		09	1730CST			0	0		Hail (0.75)
Ellis County									
 Ennis		09	1730CST			0	0	100K	Heavy Rain
			1755CST						A library roof collapsed due to water loading from very heavy rainfall.
Johnson County									
 Keene		10	2120CST			0	0	65K	Lightning
			2145CST						Lightning started a fire that engulfed portions of a home.
Tarrant County									
 Ft Worth		10	2200CST			0	0	2K	Thunderstorm Wind
									Strong winds blew down power lines.
Tarrant County									
 Ft Worth		12	1400CST			0	0	50K	Heavy Rain
			1445CST						

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TEXAS, North									
Water loading caused a church roof to collapse.									
Jack County 6 SW Jacksboro	13	1540CST			0	0	2K		Thunderstorm Wind
A downburst destroyed a barn, flipped a 1000 pound well house and blew down trees.									
Mills County Goldthwaite	15	0857CST 1000CST			0	0			Flash Flood
Heavy rainfall caused several roads to be closed due to high water.									
Denton County Argyle	23	1225CST			0	0			Thunderstorm Wind
A tree was blown down by high winds.									
Denton County Argyle	23	1230CST			0	0			Hail (0.75)
Hunt County Greenville	23	1230CST 1233CST	0.1	30	0	0			Tornado (F0)
A brief tornado touchdown was reported near I-30 just south of town.									
Collin County Mc Kinney	23	1230CST			0	0			Hail (0.75)
Collin County Plano	23	1245CST 1330CST			0	0	80K		Lightning
Lightning struck four home causing two major fires and extensive damage.									
Hunt County 6 W Quinlan	23	1255CST			0	0			Hail (0.75)
Hunt County 6 W Quinlan	23	1255CST			0	0			Thunderstorm Wind (G52)
Denton County 8 S Denton	23	1300CST			0	0			Hail (0.75)
Denton County 5 E Lewisville	23	1320CST			0	0	50K		Thunderstorm Wind
A Wal-Mart roof was damaged by high winds in The Colony.									
Hunt County Quinlan	23	1320CST			0	0			Thunderstorm Wind (G52)
Parker County Weatherford	23	1345CST			0	0			Hail (0.75)
A significant accumulation of up to dime size hail was reported just south of I-20.									
Tarrant County Ft Worth	23	1400CST			0	0			Thunderstorm Wind
A tree was blown down and a fence was damaged by high winds.									
Tarrant County Arlington	23	1400CST			0	0	100K		Thunderstorm Wind
Trees were uprooted and large limbs were blown down by high winds. The roof was also blown off an apartment complex.									
Dallas County Lancaster	23	1500CST			0	0	20K		Thunderstorm Wind
A trailer was blown over and an Albertson's distribution center was damaged by high winds.									
Ellis County Waxahachie	23	1515CST 1530CST			0	0	100K		Lightning
Lightning started four fires, one of which damaged an apartment complex.									
Ellis County Waxahachie	23	1515CST 1600CST			0	0			Flash Flood
Hunsucker Road was flooded by excessive rainfall.									
Kaufman County Terrell	23	1617CST 1700CST			0	0	110K		Lightning
Lightning struck a house and started a fire that consumed it.									
Anderson County Elkhart	23	1730CST			0	0	25K		Thunderstorm Wind
Strong winds blew down walls of a building under construction.									
Milam County 3 E Cameron	23	1830CST			0	0			Thunderstorm Wind
Trees were blown down across a road and a barn was damaged by high winds.									
Henderson County 5 N Tool	24	1530CST			0	0	20K		Thunderstorm Wind
Trees were blown down and the roof of a home was blown off by high winds.									

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					Killed	Injured	Property	Crops	
<u>TEXAS, North</u>									
McLennan County									
Mart	24	2115CST			0	0			Thunderstorm Wind
			Road signs were blown down by high winds.						
Delta County									
Cooper	26	1733CST			0	0			Hail (0.75)
Grayson County									
Sherman	26	1736CST			0	0			Hail (0.75)
Grayson County									
Sherman	26	1740CST			0	0			Hail (0.88)
Grayson County									
Sherman	26	1740CST			0	0	2K		Thunderstorm Wind
			Trees and power lines were blown down by high winds.						
Anderson County									
4 N Brushy Creek	26	1804CST			0	0			Thunderstorm Wind
			Trees were blown down on Farm-to-Market Road 837.						
Hopkins County									
Tira	26	1813CST			0	0			Hail (0.75)
Hopkins County									
Tira	26	1813CST			0	0			Thunderstorm Wind (G65)
Hopkins County									
Peerless	26	1825CST			0	0			Thunderstorm Wind (G52)
Hunt County									
Commerce	26	1830CST			0	0			Thunderstorm Wind
			A tree was blown down by high winds.						
Lamar County									
Blossom	26	1841CST			0	0			Thunderstorm Wind
			Trees were blown down by high winds.						
Lamar County									
Paris	26	1845CST			0	0			Thunderstorm Wind (G52)
Young County									
Newcastle	26	1950CST			0	0			Thunderstorm Wind (G52)
Jack County									
5 SW Jacksboro	26	2002CST			0	0			Hail (1.00)
Hopkins County									
Sulphur Spgs	26	2034CST 2115CST			0	0			Flash Flood
			Streets had six to eight inches of water over them in town.						
Grayson County									
Denison	27	0205CST 0330CST			0	0			Flash Flood
			Roads were flooded by high water due to excessive rain across much of the eastern part of the county.						
Eastland County									
Ranger	27	1704CST 1745CST			0	0	25K		Heavy Rain
			Very heavy rain resulted in a roof collapse due to water loading.						
Erath County									
Stephenville	27	1803CST 1900CST			0	0			Flash Flood
			Highway 108 north of town was flooded.						
Dallas County									
Dallas	27	1845CST			0	0	15K		Thunderstorm Wind
			Trees were blown down by strong winds and a church structure under construction was damaged.						
Wise County									
Decatur	27	2010CST 2100CST			0	0			Flash Flood
			Roads were flooded with up to two feet of water covering them.						
Collin County									
Princeton	30	1845CST			0	0	14K		Thunderstorm Wind
			Strong winds damaged mobile homes and a grocery store.						
Collin County									
1 SE Princeton	30	1908CST			0	0			Hail (1.75)
<u>TEXAS, North Panhandle</u>									
Randall County									
2 W Umbarger	13	1843CST			0	0			Thunderstorm Wind (G56)
Randall County									
4 N Umbarger	13	1856CST			0	0	100K		Thunderstorm Wind (G56)

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					Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
Potter County									
Bushland	13	1916CST			0	0			Thunderstorm Wind (G52)
Randall County									
Buffalo Lake	13	2050CST 2300CST			0	0			Flash Flood
Thunderstorms across the southwest and south-central Texas panhandle produced damaging winds and localized flooding as reported by media storm chasers and law enforcement agency. Highway 168 between Buffalo Lake and Umbarger was closed due to flash flooding. North of Umbarger thunderstorm winds damaged several outbuildings, a grainery, power lines and blew over a rock fence.									
Moore County									
2 W Sunray	18 19	2330CST 0200CST			0	0			Flash Flood
Thunderstorms over the northern Texas panhandle produced flash flooding across Highway 281 west of Sunray. The highway had to be closed due to the water.									
Sherman County									
Texhoma	22	1425CST			0	0	100K		Thunderstorm Wind (G52)
Ochiltree County									
Perryton	22	1525CST			0	0			Thunderstorm Wind (G65)
Ochiltree County									
Perryton	22	1540CST			0	0			Thunderstorm Wind (G72)
Ochiltree County									
Perryton	22	1545CST			0	0	500K		Thunderstorm Wind (G61)
Hartley County									
1 S Hartley	22	1745CST			0	0			Thunderstorm Wind (G52)
Oldham County									
Vega	22	1845CST			0	0			Thunderstorm Wind (G52)
Potter County									
25 NW Amarillo	22	1910CST			0	0			Thunderstorm Wind (G52)
Randall County									
1 NW Canyon	22	1935CST			0	0			Thunderstorm Wind (G52)
Thunderstorms across the northern and central Texas panhandle produced hail and damaging winds as reported by television meteorologist, local radio station and law enforcement agencies. Winds in Texhoma caused tree and roof damage, then increased to over 80 mph as the storm swept through Perryton. In Perryton roofs were lifted off the local Bowling Alley and two lumber yards. Two radio towers were blown down, and numerous trees were damaged. Minor damage was reported to residential housing.									
Ochiltree County									
Perryton	23	2235CST			0	0			Hail (0.88)
Ochiltree County									
1 SW Farnsworth	23	2243CST			0	0			Thunderstorm Wind (G61)
Gray County									
4 W Pampa	23	2330CST			0	0	30K		Thunderstorm Wind (G61)
Ten vehicles had windows blown out in the Celanese Chemical Plant parking lot. Winds were estimated at 70 mph.									
Moore County									
10 E Masterson	23	2334CST			0	0			Thunderstorm Wind (G52)
Lipscomb County									
Lipscomb	23	2357CST			0	0			Thunderstorm Wind (G61)
Hemphill County									
10 SE Canadian	24	0005CST			0	0			Thunderstorm Wind (G61)
Potter County									
4 N Amarillo to Amarillo	24	0005CST			0	0			Thunderstorm Wind (G61)
Oldham County									
Vega	24	0015CST			0	0			Thunderstorm Wind (G61)
Potter County									
25 NW Amarillo	24	0021CST			0	0			Thunderstorm Wind (G78)
Randall County									
Canyon	24	0030CST			0	0			Thunderstorm Wind (G61)
Donley County									
Clarendon	24	0050CST			0	0			Thunderstorm Wind (G52)
Collingsworth County									
Quail	24	0110CST			0	0			Thunderstorm Wind (G52)
Thunderstorms across the central and eastern Texas panhandle produced damaging winds and hail as reported by spotters, television meteorologist and law enforcement agencies.									
Carson County									
4 NE Panhandle	26	1827CST			0	0			Hail (1.00)
Carson County									
4 NE Panhandle	26	1833CST			0	0			Hail (1.75)

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<u>TEXAS, North Panhandle</u>									
Carson County 4 S Panhandle	26	1915CST			0	0			Hail (1.75)
									Thunderstorm over the central Texas panhandle produced hail as reported by storm spotters.
Randall County 15 ESE Canyon	29	1825CST			0	0			Hail (1.00)
Randall County 15 ESE Canyon	29	1834CST			0	0			Flash Flood
									Palo Duro State Park ranger reported one foot of water over the park road.
Randall County Canyon	29	1915CST			0	0			Hail (0.88)
									Thunderstorms across the south-central Texas panhandle produced hail as reported by park ranger and local television station.
Randall County 15 ESE Canyon	29	1920CST			0	0			Flash Flood
									Palo Duro State Park ranger reported three feet of water covering the park road at the water crossing.
Randall County 15 ESE Canyon	29	2023CST			0	0			Flash Flood
									Palo Duro State Park ranger reported four feet of water over the park road water crossing.
<u>TEXAS, Northeast</u>									
Upshur County Big Sandy	04	1345CST			0	0			Hail (0.75)
Rusk County 5 SW Henderson to Henderson	04	1410CST			0	0			Thunderstorm Wind (G70)
Nacogdoches County 3 W Martinsville to Martinsville	04	1412CST			0	0			Hail (0.88)
Rusk County 7 SE Henderson to Henderson	04	1415CST			0	0			Thunderstorm Wind (G65)
Smith County 4 S Tyler to Tyler	04	1432CST			0	0			Thunderstorm Wind (G65)
Smith County 3 SE Tyler to Tyler	04	1433CST			0	0			Thunderstorm Wind (G65)
Wood County Perryville	04	1435CST			0	0			Thunderstorm Wind (G65)
									Trees blown down across power lines along FM 852 produced numerous power outages.
Panola County Clayton	04	1442CST			0	0			Thunderstorm Wind (G70)
Panola County Buncome	04	1444CST			0	0			Thunderstorm Wind (G60)
Panola County Dotson	04	1444CST			0	0			Hail (1.00)
Franklin County 3 E Mt Vernon to Mt Vernon	04	1445CST			0	0			Hail (1.75)
Cherokee County 3 E Rusk to Rusk	04	1450CST			0	0			Thunderstorm Wind (G60)
Cherokee County Maydelle	04	1452CST			0	0			Thunderstorm Wind (G60)
Camp County Pittsburg	04	1537CST			0	0			Hail (0.75)
Upshur County 3 S Gilmer to Gilmer	04	1540CST			0	0			Hail (0.88)
TXZ138	Harrison	05	1600CST		1	0			Excessive Heat
									Excessive heat contributed to the death of a man in Marshall, Texas. He suffered from a heat stroke and was found alive in his home but later died in a local hospital. M32PH
Camp County 1 E Pittsburg to Pittsburg	08	1728CST			0	0			Hail (0.88)
Morris County Daingerfield	08	1743CST			0	0			Thunderstorm Wind (G60)
									Trees blown down across power lines caused power outages in the city.

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					Killed	Injured	Property	Crops	
TEXAS, Northeast									
Cass County 1 SW Cass to Cass	08	1805CST			0	0			Thunderstorm Wind (G60)
Cass County 2 SE Linden to Linden	08	1807CST			0	0			Thunderstorm Wind (G65)
Upshur County Ore City	08	1845CST			0	0			Thunderstorm Wind (G65)
Cass County Atlanta	08	1920CST			0	0			Hail (0.88)
Smith County Tyler	23	1424CST			0	0			Thunderstorm Wind (G60)
			Trees and power lines blown down causing numerous power outages in the city.						
Rusk County Chalk Hill	23	1450CST			0	0			Thunderstorm Wind (G60)
Smith County Tyler	23	1458CST			0	0			Hail (1.00)
Cherokee County Rusk	23	1500CST			0	0			Hail (0.55)
Harrison County Hallsville	23	1506CST			0	0	15K		Thunderstorm Wind (G70)
			Numerous large trees blown over including one across a home causing extensive damage.						
Smith County Tyler	23	1555CST			0	0			Hail (0.55)
Gregg County Longview	23	1600CST			0	0			Thunderstorm Wind (G60)
			Longview Fire Department reported numerous tree limbs and power lines down.						
Gregg County Longview	23	1602CST			0	0			Hail (1.75)
Gregg County Kilgore	23	1605CST			0	0			Thunderstorm Wind (G60)
Harrison County Waskom	23	1615CST			0	0			Thunderstorm Wind (G60)
Gregg County Longview	23	1725CST			0	0	500K		Flash Flood
			Three inches of rain fell in less than 1 hour causing significant flooding in the city. A furniture store reported damage to merchandise and the building.						
Smith County Tyler	24	1555CST			0	0			Hail (0.75)
Harrison County Waskom	24	1615CST			0	0			Thunderstorm Wind (G60)
Marion County 8 W Jefferson to Jefferson	24	1620CST			0	0			Thunderstorm Wind (G70)
			East end of the Lake O' Pines.						
Morris County Omaha	24	1625CST			0	0			Thunderstorm Wind (G60)
Morris County Dangerfield	24	1630CST			0	0			Thunderstorm Wind (G60)
			Straight line wind damage.						
Morris County Naples	24	1632CST			0	0			Thunderstorm Wind (G60)
Smith County (Tyr)Tyler Pounds Fl	24	1650CST			0	0	1K		Lightning
			Lightning struck the surface weather observing station at the Tyler Pounds Field Airport. All weather data was lost as a result.						
Gregg County Longview	24	1700CST			0	0			Thunderstorm Wind (G62)
Marion County Jefferson	24	1720CST			0	0			Thunderstorm Wind (G70)
			Trees, power lines, and phone lines were knocked down. The entire city was without power for several hours.						
Gregg County Kilgore	24	1720CST 1820CST			0	0			Urban/Sml Stream Fld
			Numerous streets were under water in the city.						

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TEXAS, Northeast									
Harrison County 7 N Marshall to Marshall	24	1727CST			0	0			Thunderstorm Wind (G60)
Cass County Atlanta	24	1728CST			0	0			Thunderstorm Wind (G60) Numerous trees and power lines down. Power outage for many people in the city for several hours.
Cass County Linden	24	1728CST			0	0			Thunderstorm Wind (G60)
Harrison County Marshall	24	1745CST			0	0			Thunderstorm Wind (G60)
Cherokee County Rusk	24	1750CST			0	0	300K		Lightning Lightning struck an oil tank near Hwy 2172 off Hwy 1710 near Lake Cherokee.
Cherokee County Rusk	24	1754CST			0	0			Thunderstorm Wind (G60)
TEXAS, South									
TXZ248-250>255	Zapata - Brooks - Kenedy - Starr - Hidalgo - Willacy - Cameron								
	01	0000CST			0	0			Drought
	31	2359CST							Continued lack of rainfall over much of area resulted in driest first half of year on record.
TEXAS, South Central									
TXZ171>173-183>194-202>209-217>225-228	Llano - Burnet - Williamson - Val Verde - Edwards - Real - Kerr - Bandera - Gillespie - Kendall - Blanco - Hays - Travis - Bastrop - Lee - Kinney - Uvalde - Medina - Bexar - Comal - Guadalupe - Caldwell - Fayette - Maverick - Zavala - Frio - Atascosa - Wilson - Karnes - Gonzales - De Witt - Lavaca - Dimmit								
	01	0001CST			0	0	20M	40M	Drought
	31	2359CST							Drought persisted through July across South Central Texas. Monthly damages are based on the estimated annual loss to agriculture across all of Texas through this year. Property damages do not include business or commercial revenue losses.
Frio County Dilley	09	2030CST 2035CST			0	0			Funnel Cloud
Llano County Horseshoe Bay	24	2330CST 2340CST			0	0	30K	0	Thunderstorm Wind Damage reported to decks, roofs, trees and tree limbs from downburst in 100 foot-square area.
Kinney County 20 N Brackettville	25	1440CST 1450CST			0	0			Hail (0.88)
Bexar County Kelly Afb	25	1740CST 1745CST			0	0			Thunderstorm Wind (G65)
Bexar County San Antonio	25	1745CST 1755CST			0	0			Hail (0.75)
Bexar County San Antonio	25	1815CST 1825CST			0	0	30K	0	Thunderstorm Wind Winds estimated at over 60 mph damaged several trees and roofs.
Gonzales County Smiley	25	1836CST 1845CST			0	0	30K	20K	Thunderstorm Wind Severe winds knocked over trees and damaged chicken coops.
Atascosa County Pleasanton	25	1930CST 1935CST			0	0	10K	0	Thunderstorm Wind Severe winds knocked over trees.
TEXAS, South Panhandle									
Castro County 5 NW Dimmitt	09	1640CST 1641CST	0.1	10	0	3	50K	0	Tornado (F0) A weak tornado briefly touched down northwest of Dimmitt. Three people were slightly injured, two trailer homes were heavily damaged, and two power poles were downed by the tornado.
Lubbock County Lubbock	10	0100CST 0400CST			0	0			Flash Flood Very heavy overnight rains in southern Lubbock County flooded and closed roads.

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<u>TEXAS, South Panhandle</u>									
Castro County 1 E Hart	22	2020CST 2025CST			0	0	1K		Thunderstorm Wind
Hale County Edmonson	22	2045CST 2050CST			0	0			Thunderstorm Wind (G51)
Hale County 5 NE Hale Center	22	2118CST 2125CST			0	0	5K		Thunderstorm Wind
Hale County Abernathy	22	2147CST 2150CST			0	0	1K		Thunderstorm Wind
Severe thunderstorm winds on the evening of the 22nd damaged a trailer home in Hart, and blew down trees northeast of Hale Center and in Abernathy.									
Briscoe County Quitaque	24	0130CST 0140CST			0	0	1K		Thunderstorm Wind
Hall County Estelline	24	0130CST 0140CST			0	0	1K		Thunderstorm Wind
Swisher County 1 W Tulia	24	0130CST 0135CST			0	0	1K		Thunderstorm Wind
Childress County 1 W Childress	24	0150CST 0200CST			0	0	5K		Thunderstorm Wind
Strong winds during the early morning hours of the 24th knocked off large branches near Tulia, uprooted two trees and downed large branches in Quitaque, felled a tree and blew out a few windows in Estelline, and blew down signs, awnings, and a few trees in Childress.									
Hall County 1 E Turkey	26	1350CST 1355CST			0	0	0	25K	Hail (1.75)
Hall County Tampico	26	1410CST 1415CST			0	0			Hail (0.88)
Motley County 14 N Matador	26	1450CST 1455CST			0	0			Hail (0.75)
Motley County 2 N Roaring Spgs	26	1530CST 1535CST			0	0	5K		Thunderstorm Wind
Dickens County Afton	26	1620CST 1625CST			0	0	1K		Thunderstorm Wind
On the afternoon of the 26th, hail was reported near Tampico, Turkey, and north of Matador. The hail damaged crops near Turkey. Strong winds damaged a hangar north of Roaring Springs, and uprooted trees near Afton.									
<u>TEXAS, Southeast</u>									
Orange County Orange	04	1500CST			0	0	10K		Thunderstorm Wind
Several trees were blown down in Orange, including the Burton Avenue area.									
<u>TEXAS, West</u>									
Presidio County 21 S Marfa	14	1530CST			0	0	10K		Thunderstorm Wind
A wet microburst caused damage on a ranch south of Marfa. The strong winds broke all the limbs on a cottonwood tree, damaged a barn, an airplane hangar, and the airplane inside the hangar. The ranchers measured 1.65" of rain during the associated storm.									
Brewster County 1 W Alpine	14	1830CST 2130CST			0	0			Flash Flood
Flooding was reported in the Alpine and to the west. The water had risen into some garages and running water had knocked down some fences. Also the railroad track was under 3 feet of water. Doppler estimates of rainfall were up to 4 inches over the area.									
Culberson County 1 E Van Horn	17	1630CST 1645CST			0	1	50K		Thunderstorm Wind
A wet microburst that lasted 5-6 minutes caused scattered damage in Van Horn. One mobile home was overturned trapping and injuring the woman inside. The winds also downed 12 utility poles resulting in power outages of up to 15 hours. Also around town, several roofs were either blown off or damaged, trees and fences were knocked down, and carports lifted and thrown. The entire rain event lasted only 15 minutes and dropped 8/10 inch.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, West									
Presidio County 1 E Presidio	24	1615CST 1620CST			0	0	1M		Thunderstorm Wind (G87)
<p>A wet microburst centered over eastern Presidio caused extensive damage over portions of the city. The winds destroyed 7 mobile homes and damaged up to 50 homes, businesses, and a school. Wind estimates put the speeds at up to 100 mph in the worst damage. Eight families were left homeless after the storm. Power was out for about 5 1/2 hours in parts of the city. About 3/4 inch of rain fell in 15 minutes during the storm.</p> <p>A survey of the damage path revealed a strongly divergent pattern with damage on the east side of the center pushed to the southeast and damage on the west side pushed to the northwest or west.</p>									
TEXAS, Western North									
Wichita County Burkburnett	02	1545CST			0	0	500K		Thunderstorm Wind
<p>Severe thunderstorm winds damaged a chimney and a roof on one house and tore apart a carport. Numerous wooden fences and 2 brick fences were blown down and at least one storage building sustained roof damage. Numerous trees were uprooted and branches were downed. One semi truck was blown over on I-44 near Burkburnett.</p>									
Wichita County Burkburnett	02	1600CST			0	0	2K		Thunderstorm Wind
<p>A carport roof, a stockade fence, 2 power poles, and some tree limbs were blown down by severe thunderstorm winds.</p>									
Foard County 7 N Crowell	26	1520CST			0	0			Hail (1.00)
Wilbarger County Vernon	26	1630CST			0	0			Hail (0.75)
Wichita County 2 S Burkburnett	26	1855CST			0	0			Hail (0.75)
UTAH, North, Central and South									
San Juan County Monticello	09	1210MST 1500MST			0	0	50K		Flash Flood
<p>Tropical moisture moved into an already unstable airmass over southeast Utah. Thunderstorms developed during the early afternoon in San Juan county and a few had very heavy rainfall. One spotter in Monticello reported receiving 2" of rain in 40 minutes. Another spotter just south of Monticello had 2.64" in 80 minutes. Local officials had extensive reports of basement flooding. Several businesses in town had water damage. State route 191 just south of town had be temporarily closed due to debris on the road.</p>									
Washington County Virgin	09	1945MST 1950MST			0	0			Thunderstorm Wind (G59)
<p>With the deep tropical moisture over southeast Utah, isolated high based thunderstorms developed over the southwest part of the state. One of these storms became severe in Washington county. During the early evening hours a spotter in Virgin estimated a wind gust to 68 mph (59 kts). He noted several small trees were uprooted by that gust. No other damage was reported.</p>									
Tooele County Wendover	16	1140MST 1145MST			0	0			Hail (0.75)
<p>A strong storm system moved through Utah on this date with several severe thunderstorms developing. The storm's cold front moved through Wendover shortly after noontime with the first severe thunderstorm of the day developing. The Utah Highway Patrol at the Wendover Port of Entry measured three-quarter inch diameter hail from that thunderstorm. No damage was reported in the area.</p>									
Tooele County Dugway	16	1330MST 1340MST			0	0			Tstm Wind/Hail
<p>As the cold front continued its eastward track across northern Utah, one final severe thunderstorm developed. A severe thunderstorm moved through southern Tooele county with a 60 mph (52 kts) wind gust being measured at the Dugway military installation. A 60 mph wind gust from this same storm was also measured on Johnson Pass, 15 miles northwest of Dugway. As this storm moved across the southern portion of the Skull Valley, three-quarter to one inch diameter hail caused extensive tree damage on a ranch.</p>									
Tooele County Dugway Range	16	1425MST 1428MST			0	0			Thunderstorm Wind (G59)
<p>A band of thunderstorms along the cold front moved through the Wasatch Front but no severe weather reports were received. About an hour behind the front another line of thunderstorms developed. These thunderstorms were associated with the upper-level trough of the storm system. The first report of severe weather with this second line of thunderstorms again came from Tooele county. An automated anemometer on the Dugway military range measured a wind gust of 68 mph (59 kts) from a severe thunderstorm. No damage occurred as this wind sensor was on an uninhabited part of the range.</p>									
Utah County Provo (Byu)	16	1520MST 1528MST			0	0	100K		Thunderstorm Wind (G74)

Storm Data and Unusual Weather Phenomena

July 1996

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

UTAH, North, Central and South

The second line of thunderstorms produced 2 more severe thunderstorms as it moved through the Wasatch Front. In Utah County, a severe thunderstorm produced a microburst wind gust of 85 mph (74 kts) at the Brigham Young University weather tower. This same wind gust was measured in North Orem by a weather spotter at 60 mph (52 kts). Large trees were uprooted. Several power outages occurred due to downed power lines.

Salt Lake County
Salt Lake City

16	1540MST 1547MST	0	1	100K	Thunderstorm Wind (G56)
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Meanwhile further north on the line of thunderstorms, a severe thunderstorm moved through Salt Lake county. This storm moved right over downtown and made a direct hit on the state capitol building. A large 3rd floor window was blown-in prematurely ending a session of the state legislature. One lawmaker sustained injuries from the flying glass. A little further east in town, at the city cemetery, 4 large pine trees were knocked down. The University of Utah's Meteorology Department measured a wind gust of 65 mph (56 kts) with this severe thunderstorm. The combination of the heavy rains and strong, gusty winds caused several mud/rock slides southeast of Salt Lake City. Both the Big and Little Cottonwood Canyons were temporarily closed.

Utah County
Springville

16	1550MST 1554MST	0	0		Thunderstorm Wind (G52)
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One last severe thunderstorm formed on the outflow boundary of the previous storm that had moved through Utah county. This thunderstorm developed a little further south. A spotter in Springville measured a wind gust of 60 mph (52 kts) and noted minor tree damage.

Iron County
(Cdc)Cedar City Arpt

26	1705MST 1708MST	0	0	50K	Hail (1.00)
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Record heat combined with some tropical moisture to create a very unstable atmosphere over southwest Utah. A severe thunderstorm developed in Iron county at first dumping heavy rain between Duck Creek Village and Cedar City. Flooding closed State Route 14 for 2 hours due to rocks and mud being washed on it. Nearly six-tenths (0.58") of an inch of rain fell in 35 minutes in Cedar City. This storm also dropped large hail. One inch diameter hailstones were the largest ones measured by observers in the area. Minor damage was reported.

Daggett County
West Of Manila

29	0730MST 0800MST	0	0		Flash Flood
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Continuous thunderstorm development throughout the afternoon over the Uinta Mountain range caused a flash flooding event to occur. In extreme northwest Daggett county, the Birch Creek flooded during the early evening hours. A dirt road was washed out and several campers had to be evacuated. There were no representative precipitation reports for this event.

UTAH, Northeast

Daggett County
14 W Manila

29	1815MST 1900MST	0	0	2K	Flash Flood
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A section of the Birch Creek Road was washed out by a flash flood.

VERMONT, North and Central

VTZ007

Caledonia

03	2145EST 2215EST	0	1	15K	Flood
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An area of low pressure over the Mid-Atlantic states on Wednesday July 3, 1996 moved north across New England during Thursday July 4, 1996. Periods of heavy rain...enhanced by thunderstorms moved across the region the night of July 3, 1996 and during the day of July 4th.

A woman was injured when her car was driven into a flooded culvert during the late night hours of July 3 at approximately 2145 PM EST. The accident occurred in Stannard, VT.

VTZ012

Windsor

13	1900EST 2100EST	0	0	5K	Flood
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VTZ012

Windsor

13	1945EST 2100EST	0	0	10K	Flood
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The remnants of Tropical Storm Bertha moved from Southern New Jersey Saturday morning July 13, 1996 through Eastern New England Saturday night. The heaviest rain fell over the eastern portions of Vermont.

Dirt roads around Ludlow Vermont were washed out between 1945 and 2100 EST. A mudslide was reported on Route 14 near Royalton between 1900 and 2100 EST.

Orange County
Fairlee

14	1730EST 1745EST	0	0	250K	Thunderstorm Wind
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A moist and unstable airmass was in place across Vermont on Sunday July 14, 1996. This resulted in the development of thunderstorms and some were accompanied by heavy rain and strong winds.

In Fairlee, Vermont (Orange County), thunderstorm winds uprooted trees and damaged roofs on camps at Lake Morey. This damage occurred around 1730 EST.

Storm Data and Unusual Weather Phenomena

July 1996

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

VERMONT, North and Central

In Lower Waterford, Vermont (Caledonia County) tree limbs were blown down by thunderstorm winds. These limbs damaged a roof. The damage occurred at about 1815 EST.

Caledonia County									
Lower Waterford	14	1800EST 1815EST			0	0	50K		Thunderstorm Wind

Rutland County									
Rutland	16	1450EST			0	0	10K		Thunderstorm Wind

A trough of low pressure moved across northern New York and Vermont on Tuesday July 16, 1996 with afternoon and evening thunderstorms. Some of the thunderstorms were accompanied by strong winds, heavy rain and hail.

A few specific events included:
 --tree limbs and power lines down in Rutland, Vermont (Rutland County) at 1450 EST along with pea size hail.
 --one inch diameter hail at 1515 EST at Franklin, Vermont (Franklin County)
 --one inch diameter hail at 1530 EST at Berkshire, Vermont (Franklin County).
 --Several roads were reported as under water in Rutland, VT and Proctor, VT between 1800 and 2200 EST.

Franklin County									
Franklin	16	1515EST			0	0			Hail (1.00)

Franklin County									
Berkshire	16	1530EST			0	0			Hail (1.00)

VTZ011	Rutland								
		16	1800EST 2200EST		0	0	15K		Flood

VTZ009	Addison								
		19 20	1745EST 1000EST		0	0	25K		High Wind (G57)

An unusually strong low pressure system in the Great Lakes region Friday morning July 19, 1996 moved across northern New York and Vermont Friday evening and into northern Maine Saturday July 20, 1996.

Strong winds moved across Vermont the evening of July 19 and continued on July 20, 1996. A few winds reports included:

- Rutland, VT (Rutland County).....30 knots
- Montpelier, VT (Washington County).....33 knots
- Burlington, VT (Chittenden County).....35 knots
- Jericho, VT (Chittenden County).....42 knots
- Pleasant Valley, VT (Lamoille County)...52 knots
- Bristol, VT (Addison County).....57 knots

Numerous reported of 40 knot plus winds with waves on Lake Champlain of 6 feet were received from the USCG.

A few damage reports included...
 South Lincoln (Addison County) 8 inch diameter trees blown down at 1745 EST July 19, 1996.
 Rutland (Rutland County) reported trees and power lines blown down at about 1830 EST with damage to houses and cars July 19th.
 Underhill Center (Chittenden County) reported trees blown down across a road at 2045 EST July 19, 1996.
 Boats were blown off their moorings at several sights along Lake Champlain during July 19 and 20, 1996.

VTZ011	Rutland								
		19 20	1830EST 1000EST		0	0	200K		High Wind (G30)

VTZ001	Grand Isle								
		19 20	1830EST 1200EST		0	0	50K		High Wind (G35)

VTZ006	Lamoille								
		19 20	2000EST 1000EST		0	0	25K		High Wind (G52)

VTZ005	Chittenden								
		19 20	2045EST 1000EST		0	0	50K		High Wind (G40)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
VERMONT, North and Central									
VTZ008	Washington								
	19	2100EST			0	0	25K		High Wind
	20	1000EST							
VTZ007	Caledonia								
	19	2200EST			0	0	10K		High Wind
	20	1200EST							
VTZ004	Essex								
	19	2200EST			0	0	10K		High Wind
	20	1200EST							
VERMONT, South									
Bennington County									
Bennington	13	1700EST 2300EST			0	0	9K		Flash Flood
Windham County									
Green River	13	1700EST 2300EST			0	0	9K		Flash Flood
<p>The remnants of Hurricane Bertha tracked from the Mid-Atlantic region northeast to Quebec, Canada between Saturday morning July 13 to Sunday morning July 14. Three to five inches of rain was common across southern Vermont. Several roads and streams were flooded throughout the region, including low-land flooding along the Hoosic River in Bennington County. Scattered power outages also occurred over the area, when strong winds downed water-laden tree branches onto wires.</p>									
VTZ014	Windham								
	19	2000EST			0	0	10K		High Wind
	20	1300EST							
<p>An unusually intense low pressure system tracked across the northern Great Lakes to Quebec, Canada during July 19 and 20. The system generated strong northwest winds, which downed trees and power lines over parts of Windham County in southern Vermont.</p>									
VIRGIN ISLANDS									
NONE REPORTED.									
VIRGINIA, East									
Mecklenburg County									
Bracey	02	1515EST			0	0			Hail (0.75)
Dime size hail occurred at the River Ridge Golf and Camping Club.									
Fluvanna County									
Bremo Bluff	03	1310EST			0	0			Hail (0.88)
Cumberland County									
3 SW Cartersville	03	1330EST			0	0			Hail (0.75)
Cumberland County									
3 SW Cartersville	03	1330EST			0	0	2K		Thunderstorm Wind
Several trees downed.									
Powhatan County									
Ballsville	03	1340EST			0	0			Hail (1.75)
Powhatan County									
Tobaccoville	03	1340EST			0	0			Hail (1.75)
Powhatan County									
1 E Powhatan	03	1345EST			0	0			Hail (1.00)
Brunswick County									
Ante	03	1345EST			0	0	3K		Thunderstorm Wind
Several trees downed onto Route 675.									
Powhatan County									
Flat Rock	03	1415EST			0	0			Hail (0.75)
Powhatan County									
Flat Rock	03	1415EST			0	0	4K		Thunderstorm Wind
Numerous trees downed onto Route 60.									
Chesterfield County									
2 W Brandermill	03	1418EST			0	0			Hail (1.50)
Chesterfield County									
Dutch Gap	03	1443EST			0	0			Hail (1.75)
Chesterfield County									
Chester	03	1447EST			0	0			Hail (1.75)
Hopewell (C)									
Hopewell	03	1500EST			0	0			Hail (0.75)
Portsmouth (C)									
Portsmouth	03	1640EST			0	0			Hail (1.75)
Chesapeake (C)									
Chesapeake	03	1645EST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
VIRGINIA, East									
Newport News (C) Oyster Pt	03	1645EST			0	0	3K		Thunderstorm Wind
		Several trees downed.							
Portsmouth (C) Portsmouth	03	1646EST			0	0			Hail (0.88)
Chesapeake (C) Chesapeake	03	1650EST			0	0			Hail (1.50)
Virginia Beach (C) Pungo	03	1705EST			0	0			Hail (1.00)
Richmond (C) Richmond	08	1615EST			0	0	10K		Thunderstorm Wind
		A home's roof was significantly damaged by a large tree crashing through it.							
Brunswick County Lawrenceville	08	1645EST 1700EST			0	0	15K		Thunderstorm Wind
		Thunderstorm winds blew the roof covering off an elementary school's cafetorium. This, in turn, allowed rain to soak and collapse the ceiling tiles inside. Roof and ceiling debris littered the cafetorium's floor and stage area.							
Prince George County Prince George	08	1715EST			0	0	10K		Lightning
		Lightning strike jumped from a tree to a house causing a fire in the attic and an upstairs bedroom of the home.							
VAZ090>091 James City - York	12 13	2000EST 0700EST			0	0			Hurricane
Isle Of Wight County Smithfield	12	2115EST	0.5	50	0	0	25K		Tornado (F1)
		Small tornado damaged 10-15 homes and several trees in the Moorfield subdivision of Smithfield.							
York County Yorktown	12	2145EST	2	200	0	0	15K		Tornado (F1)
		Tornado cut a nearly 2 mile long path across part of the Naval Weapons Station Yorktown. Numerous trees were damaged or destroyed, and several homes and cars were damaged.							
Gloucester County Severn	12	2205EST	0.5	50	0	0	7K		Tornado (F0)
		Small tornado damaged an awning and sheared off the tops of numerous trees in the Severn area.							
Gloucester County Woods Xrds	12	2215EST	0.5	50	0	0	7K		Tornado (F0)
		A second small tornado uprooted and sheared tops off numerous trees. One tree fell onto a car.							
Northumberland County Edwardsville	12 13	2345EST 0015EST	4.5	40	0	9	250K		Tornado (F1)
		Tornado damage occurred from Burgess to Oyster Cove. The most significant damage was found in the Edwardsville area, where nearly 20 mobile homes were severely damaged or destroyed. Numerous trees were downed or suffered damage. Nine, mostly minor, injuries were reported.							
Westmoreland County Hague	13	0030EST	0.3	30	0	0	10K		Tornado (F0)
		The same storm which produced the Edwardsville storm produced a second weaker tornado in Hague. One house sustained minor damage, and numerous trees were sheared off or uprooted.							
Newport News (C) Newport News	14	1525EST			0	0	2K		Thunderstorm Wind
		Several trees blown down.							
York County Tabb to Poquoson	14	1535EST 1540EST			0	0	3K		Thunderstorm Wind
		Numerous trees blown down.							
York County Tabb	14	1535EST			0	0			Hail (1.00)
Hampton (C) Hampton	14	1535EST			0	0	2K		Thunderstorm Wind
		Several trees blown down.							
Accomack County Pungoteague to Onley	14	1710EST 1720EST			0	0			Hail (1.75)
Amelia County Wilsons Corner	15	1525EST			0	0	15K		Thunderstorm Wind
		Roof was blown off an outbuilding.							
Lancaster County White Stone to Kilmarnock	15	1750EST 1755EST			0	0	4K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
VIRGINIA, East									
			Numerous trees blown down.						
Gloucester County James Store	15	1755EST			0	0	3K		Thunderstorm Wind
			Numerous trees blown down.						
Gloucester County Tidemill to .5 S Maryus	15	1830EST 1900EST	7	100	0	0	100K		Tornado (F1)
			Tornado first touched down in the Tidemill area near the intersection of Route 17 and Route 641. The tornado then moved east-northeast along or just north of Route 216 (Guinea Road), tracked east through the Perrin area and just south of the Maryus area, then exited into the Chesapeake Bay just north of Hog Island. Most significant damage occurred from near Joseph Lewis Road in the Tidemill area eastward along Tidemill Road then along Guinea Road to just west of the Bena area. Along this path, numerous large trees were sheared-off, uprooted, or blown down, several homes received roof and siding damage, and a couple of sheds were overturned.						
New Kent County 2 E Barhamsville	18	1450EST			0	0	5K		Thunderstorm Wind
			Numerous trees blown down along Route 600.						
Gloucester County Countywide	18	1530EST			0	0	4K		Thunderstorm Wind
			Numerous trees down throughout the county.						
Middlesex County Deltaville	18	1530EST			0	0	200K		Lightning
			Lightning strike caused a fire which damaged the ceiling and roof of a 40-year-old church.						
Gloucester County Countywide	18	1630EST 1640EST			0	0	5K		Thunderstorm Wind
			Numerous trees and power lines blown down throughout the county, especially over eastern part of the county east of Route 17.						
Isle Of Wight County Smithfield to Benns Church	18	1650EST			0	0	5K		Thunderstorm Wind
			Several trees blown down along Route 10 in Smithfield. Tree was blown down onto a car at Benns Church Golf Course.						
Suffolk (C) Suffolk	18	1700EST			0	0	3K		Thunderstorm Wind
			Numerous trees and power lines blown down.						
Portsmouth (C) Portsmouth	18	1700EST			0	0			Hail (1.00)
Virginia Beach (C) Virginia Beach	18	1730EST			0	0	2K		Thunderstorm Wind
			Several trees blown down on Atlantic Avenue.						
Surry County Surry	18	1845EST			0	0	2K		Thunderstorm Wind
			Several trees blown down.						
Norfolk (C) Norfolk	18 19	2300EST 0030EST			0	0			Flash Flood
			One to two inches of rain within six hours produced flooding along the 300-400 block of East Little Creek Road. Also, people were trapped in cars with water waist high along Campostella Road.						
Chesapeake (C) Chesapeake	18 19	2300EST 0030EST			0	0			Flash Flood
			Two to four inches of rain within six hours resulted in two to three feet of water along Bainbridge Boulevard and Freeman Avenue. Also, high water was reported at split of Interstate 64 and 264.						
Virginia Beach (C) Virginia Beach	18 19	2300EST 0030EST			0	0			Flash Flood
			Two to four inches of rain within six hours produced flooding in the Kempsville area along Indian River Road and Princess Anne Road.						
			Also, high water was reported in the Oceanfront area along Atlantic Avenue.						
Lunenburg County 5 E Keysville	25	1400EST			0	0	10K	20K	Thunderstorm Wind
			Several trees were uprooted, the top of a chimney was blown off, tobacco crops were damaged, and power lines were downed around Hank's Store.						
King William County 2 SE Central Garage	31	1345EST			0	0	4K		Thunderstorm Wind
			Several trees blown down across Route 30 and 613. Also, Tin roof peeled off dairy shed.						
Franklin (C) Franklin	31	1500EST			0	0	2K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>VIRGINIA, East</u>									
Large oak tree was blown down across all four lanes of Clay Street.									
Norfolk (C) Norfolk	31	1530EST 2030EST			0	0			Urban/Sml Stream Fld
Two separate storms in the late afternoon and early evening hours produced one to two inches of rain which resulted in widespread street flooding throughout the city.									
Virginia Beach (C) Virginia Beach	31	1600EST			0	0	2K		Thunderstorm Wind
Large tree blown down on Back Cove Road.									
Sussex County Waverly	31	1725EST			0	0	2K		Thunderstorm Wind
Several trees blown down off Route 460.									
Surry County Carsley	31	1740EST			0	0	2K		Thunderstorm Wind
Several trees blown down.									
Portsmouth (C) Portsmouth	31	1755EST 1800EST			0	0	3K		Thunderstorm Wind
Several trees and power lines blown down.									
Suffolk (C) Suffolk	31	1755EST			0	0	4K		Thunderstorm Wind
Several trees and power lines blown down. Also, sheet metal torn off storage building.									
Portsmouth (C) Portsmouth	31	1758EST			0	0			Hail (0.75)
<u>VIRGINIA, Extreme Southwest</u>									
Lee County Stickleyville	02	1350EST			0	0	5K	2K	Thunderstorm Wind
Tree limbs downed powerlines in Rose Hill. Several trees were downed in Stickleyville.									
Scott County Weber City	02	1515EST 1540EST			0	0		5K	Thunderstorm Wind
Trees were downed on railroad tracks in Weber City and in the Bishopville area. A tree crashed onto a car near Virginia Intermont College.									
Washington County West Part	02	1515EST 1540EST			0	0	10K	5K	Thunderstorm Wind
Trees were downed on railroad tracks in the Bishopville area. A tree crashed onto a car near Virginia Intermont College.									
Scott County Weber City	14	1810EST 1850EST			0	0		5K	Thunderstorm Wind
Numerous trees were blown down.									
Russell County Castlewood	14	1810EST 1850EST			0	0		5K	Thunderstorm Wind
Numerous trees were blown down.									
Russell County 3.1 SW Belfast to 2.1 SSE Belfast	19	1700EST 1715EST	3.6	50	0	0	200K	10K	Tornado (F1)
A tornado damaged an elementary school, fire department and a few homes. A double-wide mobile home and a couple of barns were destroyed. Numerous trees and powerlines were blown down.									
<u>VIRGINIA, North</u>									
Albemarle County Coveville	03	1206EST			0	0			Hail (1.25)
King George County 2 NE Dahlgren	03	1328EST			0	0			Hail (1.00)
One-inch hail was reported near the Governor Nice (U.S. 301) Bridge.									
King George County King George	03	1340EST			0	0	10K		Thunderstorm Wind
Numerous trees and large limbs were blown down in King George.									
Albemarle County Charlottesville (C)	08	1655EST 1700EST			0	0	5K		Thunderstorm Wind
A few large limbs fell onto power lines, leaving 3400 Charlottesville residents temporarily without electricity.									
King George County 3 SW King George	13	0130EST			0	0	30K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
VIRGINIA, North									
Spotsylvania County									
Fredericksburg	13	0145EST			0	0	15K		Thunderstorm Wind (G70)
Stafford County									
5 E Fredericksburg	13	0203EST			0	0	30K		Thunderstorm Wind
			Tropical Storm Bertha, moving through southeastern Virginia and the lower Delmarva, spawned severe wind gusts in strong feeder bands rotating northwest from the center. In King George Co, a roof was blown onto a tree, a garage was missing from a home, and a metal shed was demolished. In southeast Stafford Co, near Butzner Corner, siding was ripped from a few homes, and one sustained skylight damage, in the River Bend subdivision. In northeastern Spotsylvania Co, estimated winds to 80 mph knocked down trees in and near Fredericksburg.						
Page County									
Comertown	14	1415EST 1430EST			0	0	10K		Thunderstorm Wind
			A microburst destroyed a 1300 square-foot barn at a farm. A nearby 800 pound loader was moved 15 to 20 feet by the winds, but was not damaged.						
Rockingham County									
Harrisonburg	14	1415EST			1	0			Lightning
			A soccer player was struck by lightning at the Rockingham Co fairgrounds. The match had been called due to the storm, but the athlete had not sought shelter before the lightning struck. He perished approximately 12 hours later. M20BF						
Albemarle County									
Crozet	14	1745EST			0	0	15K		Thunderstorm Wind
			Power lines were knocked down in Crozet, causing widespread loss of electricity.						
Stafford County									
Falmouth	14	1830EST			0	0	20K		Thunderstorm Wind (G88)
			A severe thunderstorm blew down the walls of an under-construction McDonalds restaurant in Falmouth. Several area roads were closed due to downed trees or large limbs. Nickel-sized hail also fell nearby, at the intersection of federal highway 17 and interstate 95.						
Stafford County									
Falmouth	14	1830EST 1900EST			0	0			Flash Flood
			A severe thunderstorm in the area also produced copious rainfall, flooding several roads including portions of federal highway 1, Plantation Drive, and some side streets.						
Loudoun County									
2 N Lovettsville to 1 E Lovettsville	19	1420EST 1430EST			0	0	50K	75K	Thunderstorm Wind (G75)
			A tornadic thunderstorm's associated vigorous rear-flank downburst caused heavy damage over a 2-mile wide by 3 mile long area north of Lovettsville. Numerous trees were uprooted or snapped. A nearly completed home sustained gable damage and had its roof torn off. A small shed was destroyed. Highest winds (estimated around 90 mph) were along the banks of the Potomac River, funneling through the mountain gap just east of Harpers Ferry (WV). Hundreds of trees were flattened.						
Loudoun County									
2 NE Lovettsville to Taylorstown	19	1424EST 1432EST	4	50	0	0	50K	10K	Tornado (F1)
			The same supercell thunderstorm which produced the F2 tornado in Yarrowsburg (Washington Co) dropped a second tornado in Rosemont. This tornado would track through Brunswick, cross the Potomac River, then continue an additional 4 miles through extreme northern Loudoun Co before dissipating.						
			The tornado first touched down in Rosemont, damaging numerous trees as it crossed state route 17 and moved into Brunswick. A service station's roof was partially damaged by a fallen tree. Many of the homes in Brunswick were protected by the trees and the steep sloping terrain towards the Potomac. At the bottom of this hill, just east of the Maryland state route 17/Virginia route 287 bridge, is a train station, the C&O Canal, and a campground. The tornado maximized at this location, flattening numerous large hardwood trees. Considering the number of trees that fell in this area it was amazing that none of the campers or C&O Canal visitors were injured or killed. The tornado was witnessed crossing the Potomac into northern Loudoun Co.						
			The twister tracked over mainly rural property in Loudoun Co, maintaining F1 strength while crossing Quarter Branch Road. Most of the damage was to trees which were snapped, uprooted, or had large branches blown off. Siding, shingles, and some insulation were blown off a home in its path. A resident's automobile window was shattered. The tornado weakened at this point, producing F0 damage (mostly large limbs/small trees) for the next 2 miles before dissipating in Taylorstown.						
Loudoun County									
2 N Lovettsville to 1 E Lovettsville	19	1420EST 1430EST			0	0	50K	75K	Thunderstorm Wind (G75)
			The parent thunderstorm simultaneously dropping an F1 tornado northeast of Lovettsville was producing a powerful rear-flank						

Storm Data and Unusual Weather Phenomena

July 1996

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

VIRGINIA, North

downburst immediately to the south and southwest. Damage occurred roughly over a 2-mile wide by 3-mile long area. Numerous trees were uprooted or snapped. A nearly completed home (still under construction) had gables torn off and the roof collapse. A small shed was destroyed. The hardest hit area was along the banks of the Potomac River, where hundreds of trees were flattened. Winds were likely at peak speed (estimated 90 mph) at this location, likely a result of channeling flow through the mountain gap just east of Harpers Ferry WV.

Loudoun County

Sterling/Ne Portion

19	1450EST 1451EST	1	50	0	0	5K	Tornado (F0)
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A weak tornado, captured on videotape along the Potomac River, and assumed to originate in Seneca Creek State Park (Montgomery Co MD) 4 miles south of Dawsonville, crossed the Potomac River into extreme eastern Loudoun Co before dissipating just southeast of the Lowes Island Golf Club. One tree was uprooted, and several others damaged, along the short track.

Frederick County

Winchester

19	1455EST			0	0	2K	Gusty Wind/Rain
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The combination of gusty thunderstorm winds, heavy rains from this and early morning storms, and saturated soil knocked down a large oak tree on Bond Street in Winchester.

Loudoun County

Sterling

19	1533EST			0	0		Thunderstorm Wind (G50)
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A microburst produced a 58 mph wind gust at the NWS Forecast Office in Sterling.

Fairfax County

Tysons Corner

19	1550EST			0	0	5K	Thunderstorm Wind
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A microburst knocked down trees onto the Capital Beltway near the intersection of state route 7 and interstate 66, temporarily closing the highway and backing up the evening rush for miles.

Stafford County

Mount Joy Store

19	1651EST			0	0	10K	Thunderstorm Wind
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Several trees and large limbs were knocked down along Widewater Road in the extreme northeast portion of the county.

Frederick County

1 N Reynolds Store

30	1841EST			0	0	5K	Thunderstorm Wind
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A bowing severe thunderstorm produced a damaging wind gust across rural northern Frederick Co. A 20-inch diameter tree was blown across power lines at the intersection of federal highway 522 and local route 696.

VIRGINIA, Northwest

Dickenson County

Haysi

02	1415EST			0	0	3K	Thunderstorm Wind
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Numerous trees were blown down.

VIRGINIA, Southwest

Craig County

8 SSW New Castle

02	1150EST			0	0		Hail (1.00)
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Roanoke County

3 NW Roanoke

02	1215EST			0	0		Hail (0.75)
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Roanoke County

Roanoke

02	1225EST			0	0		Hail (0.75)
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Henry County

Ridgeway

02	1235EST			0	0		Hail (1.00)
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Roanoke County

Roanoke

02	1245EST 1255EST			0	0	30K	Thunderstorm Wind
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Roanoke County

Roanoke

02	1245EST			0	0		Hail (1.00)
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Montgomery County

Elliston

02	1325EST			0	0		Hail (0.75)
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Franklin County

Countywide

02	1345EST 1415EST			0	0	500K	Thunderstorm Wind
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Franklin County

Truevine

02	1345EST			0	0	100K	Hail (0.88)
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Thunderstorms during the late morning and early afternoon hours on the 2nd produced hail up to quarter size and damaging winds.

Thunderstorm winds estimated up to 90 mph downed large trees, broke off tree limbs and tore shingles from roofs in Roanoke. Thunderstorm winds downed trees, power lines, and power poles and blew hay feeders around in Franklin County.

In portions of Franklin County, the combination of wind gusts up to 90 mph and hail up to nickel size damaged tobacco, corn and wheat crops. Damage to crops was estimated around \$500,000.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, Southwest</u>									
Buckingham County									
Arvonias	03	1314EST			0	0			Hail (0.75)
Buckingham County									
New Canton	03	1315EST			0	0			Hail (0.75)
An isolated severe thunderstorm in central Virginia on the 3rd produced hail up to dime size.									
Montgomery County									
Countywide	08	1805EST 1930EST			0	0			Flash Flood
Heavy rainfall during the evening hours on the 8th resulted in flash flooding in Montgomery County. Several roads were flooded and closed across portions of the county.									
Buckingham County									
Dillwyn	12	2100EST			0	0			Thunderstorm Wind
An isolated severe thunderstorm on the 12th downed trees in Dillwyn.									
Campbell County									
Southwest Portion	14	1915EST 1945EST			0	0			Thunderstorm Wind
Campbell County									
Southwest Portion	14	1915EST 2100EST			0	0			Flash Flood
Campbell County									
2 N Altavista	14	1930EST			0	0	2K		Lightning
Campbell County									
1 N Altavista	14	2000EST			0	0	1K		Lightning
Thunderstorms during the evening hours on the 14th produced flash flooding, damaging lightning and damaging winds in southwestern Campbell County.									
Thunderstorm winds downed trees in portions of southwest Campbell County.									
Heavy rainfall flooded numerous secondary roads across southwest Campbell County, especially between Evington and Lynch Station.									
Lightning started a fire which destroyed an outbuilding 2 miles north of Altavista. Lightning started a fire which damaged a house 1 mile north of Altavista.									
Bedford County									
2 ESE Stewartsville	15	1400EST 1402EST	0.1	25	0	0	90K		Tornado (F1)
Bedford County									
9 SW Bedford to 5 SW Bedford	15	1410EST 1420EST			0	0	2K		Thunderstorm Wind
Bedford County									
2 WNW Bedford to 1.5 NW Bedford	15	1430EST 1432EST	0.5	30	0	0	140K		Tornado (F2)
Bedford County									
1 NW Bedford to 1 NNW Bedford	15	1435EST 1438EST			0	0	50K		Thunderstorm Wind
Thunderstorms during the evening hours on the 15th produced two tornadoes and damaging winds.									
A tornado developed 2 miles east-southeast of Stewartsville at 1400 EST. The tornado traveled east-northeast about 100 yards before dissipating. The tornado destroyed a two car garage, lifted up the roof of a house, uprooted trees, broke off tree limbs, knocked down power lines and power poles, and tore shingles from roofs. A large piece of vinyl siding from the garage was found 4.5 miles away.									
A second tornado developed 2 miles west-northwest of Bedford at 1430 EST. The tornado sporadically touched down for about a half mile before lifting. The tornado damaged a saw mill and the roof of a house and broke off tree limbs. A metal piece from the saw mill was found 1/2 mile away.									
Thunderstorm winds broke off tree limbs, uprooted trees, and destroyed a barn from 9 miles southwest of Bedford City to 5 miles southwest of Bedford City and uprooted and snapped off trees, damaged the roofs of homes, and destroyed a shed in the northwestern portion of Bedford City. A home in the northwestern portion of Bedford City was significantly damaged when a large tree fell on it.									
Henry County									
Ridgeway	18	1900EST 1905EST			0	0			Hail (0.75)
An isolated severe thunderstorm during the evening hours on the 18th produced hail up to dime size.									
Pittsylvania County									
1 W Chatham	25	1145EST			0	0	40K		Lightning
Thunderstorms during the late morning hours on the 25th produced damaging lightning in south-central Virginia.									

Storm Data and Unusual Weather Phenomena

July 1996

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

Lightning started a fire which destroyed a house 1 mile west of Chatham.

WASHINGTON, Northeast

Stevens County

Hunters

03	2200PST 2210PST				0	0			Hail (1.00)
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ONE INCH DIAMETER HAIL. HAIL LASTED 5-10 MINUTES.

Pend Oreille County

Ione

03	2216PST 2219PST				0	0			Heavy Rain
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0.20 INCHES OF RAIN IN 3 MINUTES.

Ferry County

Keller

30	1910PST 1930PST				0	0			Hail (0.75)
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SPOTTER AT KELLER IN FERRY COUNTY REPORTED HAIL 3/4" DIAMETER SEVERAL INCHES DEEP ACCUMULATION.

WASHINGTON, Northwest

NONE REPORTED.

WASHINGTON, Southeast

NONE REPORTED.

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

Berkeley County

Martinsburg

30	1610EST				0	0	10K		Thunderstorm Wind
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Severe thunderstorm wind gusts knocked down trees in Martinsburg.

Berkeley County

Martinsburg

30	1610EST				0	0	4K		Lightning
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Lightning struck a radio antenna cable outside a home, starting a small fire which spread into the home at 632 N. Queen Street.

Berkeley County

Martinsburg

30	1630EST 1700EST				0	0	20K		Flash Flood
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The same thunderstorm which produced scattered wind damage was also slow-moving, and contained tropical downpours which dumped over 2 inches of rain in less than one hour at some locations. In the city of Martinsburg, several streets were flooded, as were numerous basements.

Jefferson County

Shepherdstown

30	1700EST				0	0	10K		Thunderstorm Wind
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Several trees were reported to be knocked down by severe thunderstorm winds near Shepherdstown.

Hampshire County

10 S Paw Paw

30	1830EST				0	0	10K		Thunderstorm Wind
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A microburst knocked down five large trees, and snapped the top of another, at a resort home in northeastern Hampshire Co. The trees, which included one pine and four oaks, averaged one foot in diameter. No structural damage was reported.

Morgan County

Southwest Portion

30	1900EST				0	0	20K		Thunderstorm Wind
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A developing bow-echo raced through southern Morgan Co, knocking down numerous trees, several onto power lines.

WEST VIRGINIA, North

Brooke County

2 SW Bethany

02	1310EST				0	0	1K		Thunderstorm Wind
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Thunderstorm winds downed a tree and a few large branches.

Marshall County

Moundsville

02	1344EST				0	0			Hail (0.75)
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Marshall County

1 N Moundsville

02	1405EST				0	0	3K		Thunderstorm Wind
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Trees and power lines were downed by thunderstorm winds just north of Moundsville.

Marshall County

1 E Moundsville

02	1410EST 1430EST				0	0			Flash Flood
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Extensive street flooding was reported just east of Moundsville.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WEST VIRGINIA, North									
Wetzel County Hundred	02	1705EST			0	0			Hail (1.00)
Wetzel County Pine Grove	02	1800EST			0	0			Hail (0.88)
Wetzel County New Martinsville	02	1815EST			0	0			Flash Flood
Extensive road flooding was reported in New Martinsville.									
Monongalia County Pentress	02	2035EST			0	0			Hail (1.00)
Monongalia County Ringgold	02	2051EST			0	0			Hail (1.00)
Hancock County Chester	03	0044EST			0	0	2K		Thunderstorm Wind
Trees were downed along Route 8 near Chester.									
Brooke County Wellsburg	03	0125EST			0	0			Hail (1.00)
Monongalia County Wadestown	18 19	2300EST 0300EST			0	0	5K		Flash Flood
Wade Run in Wadestown flooded and nearby homes were evacuated. Some basement flooding occurred.									
Marshall County Mc Mechen	18 19	2315EST 0030EST			0	0	20K		Flash Flood
A few homes were flooded and mudslides were reported.									
Marshall County Graysville	18 19	2315EST 0030EST			0	0	50K		Flash Flood
Fish Creek went over its banks and washed out a bridge.									
Monongalia County Cassville	18 19	2330EST 0300EST			0	0	300K		Flash Flood
Several areas across the county experienced flash flooding.									
Scotts Run flooded along SR 7 between Cassville and Osage. Numerous homes were flooded and cars swept away. One mobile home was washed into a bridge.									
Flash flooding also occurred along Decker's Creek in Sabraton and flooded several businesses.									
All tolled, 121 homes had at least minor damage and 30 private bridges were damaged.									
Monongalia County Blacksville	19	0700EST 0930EST			0	0	10K		Flash Flood
Dunkard Creek near Blacksville went out of its banks. A radio station in Morgantown was also flooded.									
WVZ023-041 Preston - Tucker	19 20	1100EST 0100EST			0	0	20K		Flood
The Cheat River went out of its banks after heavy thunderstorm rains pounded the region. The river level crested between 3 and 3.5 feet above flood stage in Parsons and Rowlesburg. Nearby roads, a few basements, and low-lying areas were flooded. A town park in Rowlesburg was also flooded.									
Preston County Terra Alta	19 20	1415EST 0200EST			0	0			Flash Flood
Roads were flooded and closed in Terra Alta and between Terra Alta and Rowlesburg.									
Preston County 2 W Valley Pt to 1.8 W Valley Pt	19	1425EST 1430EST	0.2	50	0	0	12K		Tornado (F1)
A brief tornado touched down near Valley Point. Trees were downed and twisted near Valley Point. Power lines were downed and a small greenhouse sustained damage.									
Tucker County Parsons	19 20	1500EST 0200EST			0	0			Flash Flood
Small streams in the county flooded. A trailer park, near the rising Shavers Fork in Parsons, was evacuated.									
WVZ023-041 Preston - Tucker	19	1600EST 2230EST			0	0			Flood
Roads remained flooded and closed for several hours before the flood waters slowly receded.									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WEST VIRGINIA, North									
Wetzel County									
2 E Paden City to 2 SW Pine Grove	30	1510EST 1525EST	10	100	0	0	10K	3K	Tornado (F1)
A tornado touched down just east of Paden City. The tornado tracked east-southeast to near Pine Grove. Numerous trees were downed along the path, as well as some utility poles and some crops were damaged.									
Marion County									
1 E Farmington to 3 E Farmington	30	1545EST 1552EST	3	100	0	0	50K	3K	Tornado (F1)
After a tornado lifted in Wetzel County. A mesocyclone produced another tornado further east in Marion County. This tornado was also an F1, but caused greater property damage as it destroyed a barn, lightly damaged a few homes and downed numerous trees and utility poles.									
Wetzel County									
1 SE Paden City	30	1655EST 1800EST			0	0			Flash Flood
Paden Fork near Van Camp was out of its banks.									
Tucker County									
Parsons	30	1900EST 1920EST			0	0			Flash Flood
Street flooding was reported in Parsons.									
WVZ023-041									
Preston - Tucker									
	31	1000EST 2359EST			0	0	2K		Flood
The Cheat River went out of its banks and flooded low-lying areas, roads, and a town park in Rowlesburg. The river crested between 2 and 3 feet above flood stage at Parsons and Rowlesburg. The river went below flood stage early in the morning August 1st.									
WEST VIRGINIA, Southeast									
Mercer County									
Lashmeet	02	1130EST			0	0			Thunderstorm Wind
Mercer County									
Athens	02	1145EST			0	0			Thunderstorm Wind
Severe thunderstorms during the late morning hours on the 2nd knocked down trees and broke off tree limbs in Lashmeet and Athens.									
WEST VIRGINIA, West									
WVZ047									
Randolph									
	01	0000EST			0	0			Monthly Rainfall
	31	2300EST							
Ten to 16 inches of rain fell during the month. The 12 inches measured at Elkins was the most on record for any July and the second wettest of any month. Kumbrabow State Forest measured 14.9 inches. An unofficial spotter near Montrose reported a 16 total. Normal monthly rainfall is 4.5 to 5.5 inches.									
Cabell County									
Ball Gap	02	0325EST			0	0			Hail (0.75)
Putnam County									
4 N Paradise	02	0725EST			0	0	4K		Thunderstorm Wind
Large tree limbs were blown down and one mobile home was turned over.									
Putnam County									
4 N Paradise	02	0725EST			0	0			Hail (0.75)
Jackson County									
Romance	02	0727EST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Lincoln County									
Hamlin to 2 SE Hamlin	02	0730EST 0830EST			0	0	10K		Flash Flood
Three inches of rain fell between 0630 and 0730 EST around Hamlin. Small streams flooded roads. One Mile Creek washed out a culvert and damaged a road. Many businesses in Hamlin had water seepage.									
Putnam County									
Robertsburg	02	0730EST			0	0	5K		Thunderstorm Wind
Thirty to 40 trees had their tops snapped off.									
Lincoln County									
Hamlin	02	0740EST			0	0	200K		Thunderstorm Wind
Several trees were uprooted. One roof to a home on Dingness									

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WEST VIRGINIA, West									
			Ave. was extensively damaged. Power lines were down. One mobile home was blown off its foundation.						
Boone County 2 SE Lory to Lory	02	0800EST			0	0	3K		Thunderstorm Wind
			Trees were downed along Route 6 along Camp Creek.						
Harrison County Clarksburg	02	1840EST			0	0	40K		Thunderstorm Wind
			Road signs and trees were blown down. Two houses were damaged in town.						
Harrison County Wallace	02	1845EST			0	0	3K		Thunderstorm Wind
			Several trees were downed.						
Harrison County Bridgeport	02	1850EST			0	0			Hail (0.75)
Barbour County Volga	02	1900EST			0	0	2K		Thunderstorm Wind
			Trees fell across power lines.						
Tyler County Kidwell	02	1910EST			0	0			Hail (1.00)
Doddridge County West Union	02	1945EST			0	0			Hail (1.00)
Lewis County Jackson Mill to Jane Lew	02	2030EST 2035EST			0	0	20K		Thunderstorm Wind
			Jackson's Mill Fire Department reported trees down across almost every road.						
Upshur County Buckhannon	02	2100EST			0	0	5K		Thunderstorm Wind
			Several trees were toppled or large branches snapped.						
Harrison County Hepzibah to Spelter	02	2145EST 2300EST			0	0	3K		Flash Flood
			Route 19 was closed while small streams overflowed. No structures were flooded.						
Cabell County Huntington	02	2310EST			0	0	3K		Thunderstorm Wind
			Fallen trees blocked 11th Avenue.						
Kanawha County 2 SE Charleston	03	0020EST 0200EST			0	0			Hail (0.88)
Kanawha County Marmet	03	0030EST			0	0	2K		Thunderstorm Wind
			Trees were blown down across roads.						
Barbour County Countywide	19	0900EST 1700EST			0	0	20K		Flash Flood
Taylor County Countywide	19	0900EST 1700EST			0	0	15K		Flash Flood
Randolph County Countywide	19	0930EST 1800EST			0	0	25K		Flash Flood
Tyler County Countywide	19	1500EST 1800EST			0	0	10K		Flash Flood
Upshur County Countywide	19	1530EST 1800EST			0	0	25K		Flash Flood
Braxton County Countywide	19	1630EST 1900EST			0	0	10K		Flash Flood

After 1 to 2 inches of rain on the afternoon and evening of the 18th, another round of thunderstorms during the morning of the 19th, dumped 1.5 to 3 inches of rain. Widespread, but mostly minor, flash flooding occurred across the 6 county region. Kumbrabow State Forest had a 2 day rain total of 5.4 inches. The following are just some of the numerous

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WEST VIRGINIA, West									
			flood reports. Leading Creek flooded Route 219 in Randolph County. Evacuations took place in Ellamore as Middle Fork overflowed in Upshur County. Barbour County officials reported numerous roads blocked around Elk City. Water was in several basements throughout Barbour County. Middle Island Creek flooded in Tyler County.						
WVZ040			Barbour						
		19 20	1700EST 0900EST		0	0	10K		Flood
			The Tygart Valley River crested slightly above flood stage at Belington. The crest was 15.6 feet. Flood stage is 14 feet. At Philippi, the crest was 19.5 feet. Only minor river flooding resulted, but a more significant flood was to follow at the end of the month.						
Wood County Parkersburg		30	1505EST		0	1	400K		Thunderstorm Wind
			Large tree limbs were blown down in numerous locations throughout the city. One 15 year old boy was hospitalized in critical condition after being burned by a downed power line. One utility pole and transformer crashed down on a resident's porch. Several cars were damaged by fallen branches. The city police chief summarized the scene by saying, "we've been hit extremely hard by this storm".						
Wood County Parkersburg		30	1510EST		0	0			Hail (0.75)
Ritchie County Harrisville		30	1540EST		0	0			Hail (0.75)
Tyler County Countywide		30	1630EST 1830EST		0	0	10K		Flash Flood
			Several streams overflowed onto roads after 1 to 1.5 inches of rain in 15 to 30 minutes. Basement flooding took place in Sistersville and Middlebourne.						
Wood County Northern Portion		30	1630EST 1800EST		0	0	10K		Flash Flood
			Deerwalk measured 1.5 inches of rain in 15 minutes. Flooding occurred on Worthington and Stillwell Creeks.						
Calhoun County Mt Zion		30	1750EST		0	0	40K		Thunderstorm Wind
			Tree tops were ripped off and one communication tower was damaged on the hilltop. No damage occurred in the nearby valleys.						
Cabell County Countywide		31	0230EST 0600EST		0	0	100K		Flash Flood
Mason County Countywide		31	0230EST 0800EST		0	0	100K		Flash Flood
Barbour County Countywide		31	0300EST 1200EST		0	0	250K		Flash Flood
Upshur County Countywide		31	0300EST 1800EST		0	0	100K		Flash Flood
Braxton County Countywide		31	0300EST 1800EST		0	0	1.5M		Flash Flood
Gilmer County Countywide		31	0300EST 0800EST		0	0	250K		Flash Flood
Roane County Countywide		31	0315EST 0800EST		0	0	200K		Flash Flood
Putnam County Countywide		31	0445EST 0900EST		0	0	150K		Flash Flood

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WEST VIRGINIA, West									
Kanawha County Countywide	31	0500EST 0900EST			0	0	50K		Flash Flood
Clay County Countywide	31	0515EST 1400EST			0	0	350K		Flash Flood
Randolph County Countywide	31	0600EST 1800EST			0	0	300K		Flash Flood
Webster County Countywide	31	0600EST 1800EST			0	0	700K		Flash Flood
Nicholas County Northern Portion	31	0730EST 1400EST			0	0	200K		Flash Flood
Pocahontas County Durbin	31	1000EST 1400EST			0	0	30K		Flash Flood

Predawn and morning thunderstorms came northeast from the Tri State region around Huntington, across central West Virginia, toward Elkins. The ground was already saturated from previous rains. Rains of 2 to 4 inches fell in less than 6 hours across mainly the Pocatalico, Elk, Little Kanawha, and Tygart Valley River basins. Rock Cave measured 3.8 inches, Hacker Valley 3.5 inches, and Spencer had 3.4 inches. Creek flooding was widespread.

A federal disaster declaration, the 4th for West Virginia in 1996, was made for Barbour, Braxton, Cabell, Clay, Gilmer, Nicholas, Randolph, Upshur, and Webster Counties. This declaration also included the flooding from the 19th.

The following are some of the flood reports. In Braxton County, evacuations were made in the Gassaway and Burnsville vicinity. A food storage warehouse in Gassaway was flooded. A CSX coal train slipped the flooded tracks near Heaters, spilling its load and narrowly missing a house. In Nicholas County, 10 homes in Birch River had 1 to 3 feet of water inside from either the Birch River or Powells Creek. Crystal Springs was evacuated in Randolph County. Riffle Creek near Huttonsville turned into a 20 foot wide menace, sweeping away the remainder of a hunting camp that was damaged in the flooding back in May. Residential areas in Hurricane and Teays Valley of Putnam County were flooded. Hurricane and Mill Creeks knocked down fences, flooded homes, and blocked roads. In Webster County, the Holly River was over the bridge on Route 20, while evacuations were made at Replete and along the Back Fork of the Elk River. In Clay County, flooding was along Route 16 near Big Otter, Clay, and Nebo. In Gilmer County, Cedar Creek was higher than in the November, 85 flood. The post office in Cedarville was flooded. Evacuations occurred along Steer Run.

In the aftermath of the flash flooding, river flooding followed on the Elk, Buchhannon, and Tygart Valley Rivers, including the Middle Fork. On the Elk, Webster Springs reached 13.8 feet, Clay 21.8 feet, Queen Shoals 20.5 feet. Philippi on the Tygart Valley crested at 23.4 feet and the Buchhannon crested at 27.8 feet in Upshur County. Burnsville Lake on the Little Kanawha River reached an elevation of 809.9 feet, which is their record pool elevation behind the dam.

WISCONSIN, Extreme Southwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Northeast									
Marinette County 5 SE Crivitz	02	1440CST			0	0			Hail (1.00)
									One inch diameter hail fell near County Highway W.
Oconto County 3 N Oconto	02	1510CST			0	0			Hail (0.75)
Calumet County Chilton	02	1710CST			0	0			Hail (0.75)
									Wind-driven hail up to three-quarter inch in diameter caused some crop damage near Chilton.
Calumet County 5 SSW Chilton	02	1727CST			0	0			Hail (1.50)
									Hail up to one and one-half inches in diameter caused some crop damage 5 miles south-southwest of Chilton.
Oneida County Rhinelander	12	1425CST			0	0			Hail (0.75)
Waupaca County Scandinavia	12	1445CST			0	0	2K		Thunderstorm Wind
									Strong thunderstorm winds blew a roof off of a shed near Scandinavia.
Vilas County Lac Du Flambeau	12	1500CST			0	0			Lightning
									A bolt of lightning sparked a blaze which did considerable damage to a Lac du Flambeau home.
Langlade County Antigo	13	1445CST			0	0			Lightning
									Lightning struck an Antigo area business, starting a fire which destroyed the building and its contents.
Florence County Spread Eagle	15	1740CST			0	0			Hail (1.00)
Outagamie County New London	18	0700CST			0	1			Lightning
									A 23-year old New London man was struck by lightning, prompting a transport to the local hospital.
Lincoln County Merrill	18	0845CST			0	0			Hail (1.75)
Marathon County Brokaw	18	0900CST			0	0			Hail (0.88)
Langlade County Kempster	18	0908CST			0	0	1K		Hail (1.00)
									One inch diameter hail damaged a car windshield in Kempster.
Marathon County 2 E Brokaw	18	0915CST			0	0			Hail (2.00)
Marathon County Stratford	18	1500CST			0	0			Hail (0.75)
Portage County 9 N Stevens Point	18	1540CST			0	0			Hail (0.75)
Lincoln County 1.5 SW Tomahawk to 3 SSE Tomahawk	18	1620CST 1630CST	3	100	0	0	90K		Tornado (F1)
									A tornado touched down and uprooted two trees at Bradley Park, then moved southeast across Lake Mohawkskin, flipping two boats over. It moved back on land and tore part of a roof off of a tavern and a roof off of a house. A garage was removed from its foundation, leaving a lawn mower untouched. The tornado moved into the Road Lake area, where it produced its most significant damage. Three cottages were damaged after trees fell on them. Several eyewitnesses saw the tornado on Road Lake shortly before it dissipated.
Lincoln County 4 SE Tomahawk	18	1630CST			0	0	10K		Thunderstorm Wind (G70)
									Downburst winds estimated at 80 mph caused significant tree damage near Skanawan Lake.
Lincoln County Bloomville	18	1640CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds blew trees down near Bloomville.
Waupaca County 5 ENE Waupaca to 3 E Weyauwega	18	1641CST 1655CST			0	0	180K	30K	Thunderstorm Wind (G87)
									Downburst winds estimated at 100 mph caused significant damage along a 2 mile wide by 5 mile long path. Most of the damage occurred in the Royalton, White Lake and Baldwin Mills areas. Twenty-two homes and four barns sustained damage and 40 acres of crops were destroyed. Thousands of trees, covering at least 40 acres of land, were snapped off or uprooted.
Waupaca County Fremont	18	1700CST			0	0			Thunderstorm Wind (G52)
Outagamie County Appleton	18	1723CST			0	0	3K		Thunderstorm Wind
									Thunderstorm winds knocked several trees down on the south side of Appleton.

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Northeast									
Winnebago County Neenah	18	1725CST			0	0			Thunderstorm Wind (G52)
									A severe thunderstorm produced 60 mph winds, which felled trees and power lines in the Neenah vicinity.
Winnebago County Neenah	18	1725CST			0	0			Hail (0.75)
Winnebago County Oshkosh	18	1740CST			0	0	5K		Thunderstorm Wind
									Thunderstorm winds knocked trees and power lines down in Oshkosh.
Winnebago County 5 NE Oshkosh	18	1745CST			0	0			Waterspout
									A waterspout was sighted over Lake Winnebago, 5 miles northeast of Oshkosh.
Calumet County 1.1 S Jericho to 1.6 SE Jericho	18	1805CST 1807CST	1.5	100	0	0			Tornado (F1)
Calumet County 5.9 S Chilton	18	1810CST	0.1	25	0	0			Tornado (F0)
									a weak tornado briefly touched down 5.9 miles south of Chilton. The tornado moved over a squad car, violently shaking it about, and flattened portions of two nearby wheat fields.
Calumet County 2.2 WNW St Anna to 1.8 W St Anna	18	1815CST 1816CST	0.5	50	0	0			Tornado (F0)
									The same supercell thunderstorm which earlier produced wind damage in Waupaca county and a waterspout over Lake Winnebago spawned a tornado 1.1 miles south of Jericho. The tornado traveled southeast, damaging a farm, trees and some crops. Calf houses at the farm were thrown 1000 feet. The tornado entered Fond du Lac county 1.6 miles southeast of Jericho (see WFO-MKX Stormdata report), then reentered Calumet county 2.2 miles west-northwest of St. Anna. The storm continued southeast and damaged a barn before lifting 1.8 miles west of St. Anna.
Door County Brussels	18	1845CST			0	0	3K		Thunderstorm Wind
									Thunderstorm winds tore roof shingles off several homes in the Brussels area.
Brown County 5 SE Green Bay	29	1615CST 1710CST			0	0			Funnel Cloud
									Numerous cold-air funnels were observed around Green Bay, especially southeast of the city. A couple of the funnel clouds could be seen from the Green Bay National Weather Service office.
Brown County Green Bay	29	1700CST			0	0	20K		Lightning
									Lightning was responsible for a house fire in Bellevue and numerous power outages in and around the Green Bay area.
Oconto County Oconto	29	1800CST 2000CST			0	0			Urban/Sml Stream Fld
									A thunderstorm dropped 2 to 3 inches of rain over the city of Oconto during a one-hour period, resulting in urban flooding. Basements filled with water, storm sewers backed up and a few streets were flooded. In addition, a lightning strike caused a power outage that affected 450 people for a ninety-minute period.
WISCONSIN, Northwest									
Sawyer County Hayward	18	0220CST 0600CST			0	0			Flash Flood
									Thunderstorms repeatedly formed and moved across northern Sawyer County in a "train effect", producing rainfall rates up to 2 inches per hour, as estimated by doppler radar. Sawyer County law enforcement officials reported State Highway 27 and U.S. Highway 63 were closed due to high water up to the headlights of cars.
Douglas County Superior	21	2040CST			0	0			Thunderstorm Wind (G53)
WISCONSIN, Southeast									
Washington County 4 E Kewaskum	02	0415CST			0	0	100K		Lightning
									Lightning struck a pole barn, resulting in a fire which destroyed the barn. The horses escaped without injury.
Washington County 2 NW West Bend	02	1828CST 1829CST			0	0			Funnel Cloud
Waukesha County Hartland	02	1908CST 1914CST			0	0			Funnel Cloud
WIZ072 Kenosha	05	1300CST 1303CST			0	0	0.10K		Dust Devil
									A rare, short-lived dust devil spun up over a recently plowed field and then moved into the backyard of a residence about 2 miles SSE of Pleasant Prairie. It turned over and damaged a patio umbrella and lifted a heavy metal table. It was on the ground for a about 100 yards, and was about 1 to 2 yards in diameter. The home's owner said it had a very strange sound.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
Lafayette County 7.5 N Argyle	08	0930CST			0	0	1K		Thunderstorm Wind
	Powerful thunderstorm winds knocked large branches out of trees in the city of Blanchardville. Pea size hail also occurred.								
Dane County Stoughton	08	0935CST			0	0	30K		Thunderstorm Wind
	A line of thunderstorms with intense winds formed a microburst which blew over a concrete brick wall on a construction site in Stoughton. In addition, the intense winds blew a pleasure boat across a road, resulting in some damage to the boat. Due to the small area of damage, this event was most likely a wet microburst that generated wind gusts in excess of 60 mph.								
Columbia County 5 NE Portage	12	1530CST			0	0	5K		Thunderstorm Wind
	Strong thunderstorm winds toppled large trees northeast of Portage. Pea size hail also fell.								
Washington County 3 W Hartford	12	1719CST 1720CST			0	0			Funnel Cloud
Waukesha County Sussex	15	1230CST			0	1			Lightning
	Lightning struck and injured a 20 year old man working in a lumber yard. He was briefly treated at a local hospital.								
Green County Browntown	18	0000CST 0330CST			0	1	6M	6M	Flash Flood
	The same thunderstorms that trained southeast through nextdoor Lafayette county also created flash flooding in the Browntown to Monroe areas down to Martintown in Green county. Rainfall amounts in a 5 hour period ending at 0200CST generally totaled 10 to 12 inches in this triangular area. Up to 13.50 inches fell about 6 miles northwest of Monroe!! A bridge on the Highway 11 approach to Browntown was washed away as water depths on the road reached 4 feet. The highway east of Browntown was closed for several days after the flood waters receded. Most roads into Browntown were closed due to flash flooding of streams, creeks, and rivers. Consequently, Browntown was almost isolated. The flood waters of Skinner Creek washed out County Highway Y about 4 miles northeast of Browntown. Smock Creek flooded Highway 11 just east of Browntown for the first time in 60 years! Three homes in Monroe sustained major structural damage, and many other homes had basement flooding. Businesses in Monroe also suffered flash flood damage as water surged thru the streets. One woman at the Green County Fairgrounds in Monroe was injured as flood waters swept her off her feet. Serious soil erosion and crop damage occurred to about 15,000 acres of rural farm fields. Highway 81 west of Monroe was closed to high water levels. Local people claimed that the Pecatonica River upstream from Martintown was the highest they've ever seen. This river at Martintown crested at 16.12 feet at 2000CST on the 20th, or 5.13 feet above flood stage. It was above flood stage from 0400CST on the 18th to 2105CST on the 24th of July!								
Lafayette County Blanchardville	18	0100CST 0400CST			0	0	480K	100K	Flash Flood
	Flash flooding occurred in the villages of Blanchardville and Argyle due to rainfalls of 6 to 7 inches within a 4 to 5 hour period. These rains were the result of thunderstorms developing in Lafayette and Iowa counties, and then training ESE into the Blanchardville area. In Blanchardville a bridge was washed out, and two roads under construction sustained major damage to their curb and gutter segments. Just east of Argyle, on Highway 81, a 200 foot section of the highway's gravel shoulder was washed away by flood waters. Rural farm land, especially along the east branch of the Pecatonica River in eastern Lafayette county, also sustained some soil and crop damage. In Blanchardville, the east branch of the Pecatonica River crested at 14.47 feet at 2245CST on the 18th, or 3.47 feet above flood stage. At this location the river exceed flood stage at 0300CST on the 18th and finally went below flood stage at 2045CST on July 19th.								
Green County Monticello	18	0100CST 0400CST			0	0			Flash Flood
	Flash flood producing thunderstorms eventually drifted into the eastern part of Green county. Rainfall amounts within a 5 hour period totaled 6 to 8 inches in the northeast corner of the county around Brooklyn to 10 to 12 inches in the Monticello to Brodhead area. Several roads and bridges were washed out in the Monticello to Brodhead area. Highway 39 east of Monticello suffered severe damage and was projected to be closed for several months for repairs. About 25,000 acres of farmland had serious flooding and erosion in a 10 mile wide swath from Monticello to Brodhead, with 20% of these acres having a total loss. Water was reported to be 10 feet high in some farm fields. Water levels on the Sugar River in Brodhead were the highest since 1975. The river this location crested at 8.69 feet at 1200CST on the 18th, or 3.69 feet over flood stage. The river was above flood stage from 0515CST on the 18th through 0605CST on July 21st.								
Green Lake County 2 SW Manchester	18	0855CST			0	0	1K		Lightning
	Lightning struck a wooden pole barn and started a brief fire. The fire was quickly put out before major damage occurred.								
Green Lake County 10 W Berlin to 9.5 W Berlin	18	1705CST 1706CST			0	0			Funnel Cloud
Green Lake County 8.3 NW Green Lake to 6.3 NW Green Lake	18	1715CST 1730CST	2	125	0	0			Tornado (F1)
	A tornado touched down in a wooded area of the Township of St. Marie about 1 mile south of County Trunk Hwy D. Touchdown was 8.3 miles northwest of the city of Green Lake and liftoff was on the Fox River about 6.3 miles northwest of the city of Green Lake. The only damage was to trees along its 2 mile path.								

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
Green Lake County									
5 N Green Lake	18	1729CST 1730CST			0	0			Hail (0.75)
Fond Du Lac County									
Ripon	18	1743CST 1744CST			0	0			Hail (1.00)
Fond Du Lac County									
4 WNW Oakfield to 1 NW Eden	18	1805CST 1835CST	13.3	400	0	12	39.5M	900K	Tornado (F5)
<p>A violent tornado struck the village of Oakfield at about 1815CST after it touched down 4 miles WNW of the village. During its approach on Oakfield it intensified to a F3 rating. When it tore through the village it intensified to a F4, but along its path 1 to 4 miles east of the village it intensified to F5 strength (estimated 265 mph winds). In this span 4 homes were completely swept clean off their foundations and a couple automobiles became airborne missiles for a distance of about 400 feet. The core width of the most intense damage was about 150 to 200 yards, although at times, some secondary damage was observed in a 400 yard wide path.</p> <p>Oakfield residents heard local sirens about 8 minutes before the torando entered the village. Miraculously, no one was killed, but there were 12 injuries. Some of the injured were hospitalized. Along the tornadoes path, 60 homes and 6 businesses were destroyed. An additional 130 homes and businesses were damaged. In Oakfield, a commercial canning company was devastated. Two churches in the village were also destroyed, as well as numerous vehicles. In the rural areas along the tornadoes path, 18 barns and many sheds were destroyed or damaged, and about 500 acres of crops were wiped out. Total damage amounts were \$39.5 million in public/private property, and \$900,000 in crop losses. Residents reported that they had difficulty "popping" their ears as the tornado roared through their neighborhood.</p> <p>Prior to entering Oakfield, the tornado hopped and skipped a few times, and multiple votices were observed at times during its life cycle. Witnesses reported that the tornado "paused" for a minute or so on the southeast edge of Oakfield. As the tornado tore through Oakfield it changed it's heading to east. Corn fields just east of Oakfield were reduced to short 1 to 4 inch high stubble, and burn marks were clearly visible in the fields. In the third segment of the tornadoes life, when it turned northeast at a point 5.5 miles east of Oakfield, it's strength diminished rapidly. By the time it "roped out" 1 mile NW of Eden, it's supporting mesocyclone's position on WSR-88D Doppler was about 5 miles to the south! Debris was found east to the Lake Michigan shoreline, and cancelled checks were later found 125 miles E/SE near Muskegon, MI!</p>									
Fond Du Lac County									
2 NW Marytown to 2.5 SE Marytown	18	1807CST 1815CST	4.4	200	1	1	450K	300K	Tornado (F2)
<p>A strong tornado (F2) struck Marytown, resulting in 1 fatality (81 year old male) and 1 injury. This tornado actually touched down in Calumet county about 1.1 miles SE of Jericho (see WFO GRB Stormdata report), and then headed southeast into into Fond du Lac county at a point 2.0 NW of Marytown. It destroyed or damaged at least a couple dozen barns, sheds, and homes on a southeastward path. Many large trees were uprooted. The north side of Marytown was hit the hardest, where a house trailer, 3 homes, and a machine shed were destroyed. The tornado exited Fond du Lac county at a point 2.5 miles SE of Marytown and re-entered Calumet county where it quickly dissipated. The path length in Fond du Lac county was 4.4 miles. M81PH</p>									
Fond Du Lac County									
1.3 WNW Marytown to .5 N Marytown	18	1807CST 1809CST	1.2	75	0	0		100K	Tornado (F0)
<p>A weak tornado touched down 1.3 miles WNW of Marytown and moved east to a point .5 mile north of Marytown. It only damaged farm crops before it dissipated. This weak tornado preceded the other tornado that touched down in Calumet county and eventually tore through Marytown in northeast Fond du Lac county.</p>									
Fond Du Lac County									
4 E Oakfield	18	1810CST 1811CST			0	0			Hail (2.50)
Fond Du Lac County									
Oakfield	18	1825CST 1826CST	0.6	50	0	0			Tornado (F0)
<p>Yet another tornado (F0 this time) briefly touched down in Oakfield about 10 minutes after the violent tornado had gone through. It moved along the original damage path, from the western to eastern village limits, and only picked up some of the original debris. The path length was about .6 miles.</p>									
Fond Du Lac County									
4 WNW North Fond Du Lac to 3.8 WNW North Fond Du Lac	18	1827CST 1828CST	0.2	50	0	0	100K	100K	Tornado (F0)
<p>A weak tornado (F0) briefly touched down in a rural area 4 WNW of North Fond du Lac, or just east of Eldorado Marsh State Park. It destroyed or damaged a barn and a machine shed on a path length of .2 miles. It dissipated 3.8 WNW of North Fond du Lac. Some crop damage was also noted.</p>									
Sheboygan County									
Elkhart Lake	18	1829CST			0	0			Funnel Cloud
Sheboygan County									
4 SSE Plymouth	18	1832CST			0	0	20K		Thunderstorm Wind
<p>Powerful thunderstorms winds toppled several large trees in the area 4 SSE of Plymouth to near Cascade. One of the toppled trees</p>									

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WISCONSIN, Southeast									
									damaged a vehicle.
Sheboygan County 2 W Greenbush	18	1840CST			0	0			Funnel Cloud
Fond Du Lac County 3.8 SE Byron to 3.9 SE Byron	18	1855CST 1856CST	0.1	50	0	0	75K		Tornado (F0)
									A weak tornado (F0) briefly touched down about 3.8 miles SE of the village of Byron. It flattened a portion of a corn field south of Campbell Road and west of Hilltop Road.
Fond Du Lac County Dundee	18	1859CST			0	0	15K		Thunderstorm Wind
									Powerful thunderstorm winds blew over several large trees in the Dundee area.
Fond Du Lac County Dundee	18	1859CST			0	0			Funnel Cloud
Sheboygan County Adell	18	1900CST			0	0			Funnel Cloud
Washington County 1 N Fillmore	18	1905CST			0	0			Funnel Cloud
Sheboygan County 1.8 SSW Beechwood to 2 S Beechwood	18	1910CST 1912CST	0.9	150	0	0	250K	0.20K	Tornado (F1)
									A F1 tornado touched down 1.8 miles SSW of Beechwood and was on the ground for only 2 minutes before lifting off 2.0 miles south of Beechwood. Several homes and a couple barns were damaged, and there was some crop damage. There were no injuries or deaths.
Ozaukee County Port Washington	18	1915CST			0	0			Hail (1.75)
Ozaukee County 1 NNW Fredonia to 3.4 NE Knellsville	18	1918CST 1928CST	7.6	125	0	0	300K	230K	Tornado (F1)
									A weak tornado touched down 1 mile NNW of Fredonia and then hopped and skipped to a point .6 miles south of Holy Cross where it intensified from F0 to F1. This tornado continued on the ground ESE near and south of Dixie Road to the Lake Michigan shoreline at a point 3.4 miles NE of Knellsville. It destroyed 4 barns and 3 machine sheds, and 1 garage. It also damaged 6 homes, 1 barn, 3 machine sheds, and 1 garage. There was also crop damage to about 500 acres along its path through rural areas. Several vehicles were also destroyed or damaged. There were no injuries or deaths. Total damage amounts were \$300,000 in private/public property and \$230,000 for crops. This tornado then became a waterspout as it continued ESE over Lake Michigan.
Ozaukee County 1.2 SSE Dacada	18	1921CST			0	0			Funnel Cloud
Ozaukee County 1.6 E Port Washington Arpt to 1.8 NE Port Washington	18	1928CST 1930CST	0.8	75	0	0			Tornado (F0)
									A weak (F0) tornado touched down 1.6 miles east of the Port Washington airport, just east of I-94, and proceeded to head southeast to the Lake Michigan shoreline at a point 1.8 miles NE of the city of Port Washington. No significant damage was noted. It then moved out over Lake Michigan as a waterspout.
Ozaukee County 3.4 NE Knellsville to 5.2 SE Lake Church	18	1928CST 1931CST			0	0			Waterspout
									This waterspout was a continuation of a F1 tornado that originally touched down near Fredonia and moved east/southeast to the shoreline at a point 3.4 NE of Knellsville. No damage was noted. Its path length over water was about 2.0 miles. It dissipated about 5.2 SE of Lake Church.
Ozaukee County 1.8 NE Port Washington to 2.1 ENE Port Washington	18	1930CST 1933CST			0	0			Waterspout
									This waterspout was a continuation of a F0 tornado that originally touched down a couple miles east of the Port Washington airport. No damage was noted with this waterspout which had a path length of about 1.3 miles over water. It dissipated about 2.1 ENE of Port Washington.
Ozaukee County Waubeka	18	1956CST			0	0	20K		Thunderstorm Wind
									Intense thunderstorm winds toppled large trees in Waubeka, resulting in a clean-up job.
Washington County Kewaskum	18	1958CST			0	0	15K		Thunderstorm Wind
									Powerful thunderstorm winds blew over several large trees in the city of Kewaskum, resulting in a significant clean-up problem.
Dodge County Rubicon	18	2015CST			0	0	1K		Thunderstorm Wind
									Powerful thunderstorm winds knocked many large branches out trees in Rubicon.

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Southeast</u>									
Washington County Hartford	18	2025CST			0	0	18K		Thunderstorm Wind
									Powerful thunderstorm winds roared through Hartford and toppled large trees or knocked down large branches around the city.
Milwaukee County Brown Deer	18	2112CST			0	0	12K		Thunderstorm Wind
									Powerful thunderstorm winds felled several large trees or knocked down large tree branches in Brown Deer.
Dane County Madison	22	1330CST 1332CST			0	0			Hail (1.75)
Kenosha County .5 N Wilmot to 2.8 NE Benet Lake	24	1405CST 1418CST	7	50	0	0			Tornado (F0)
									A weak tornado hopped and skipped across mostly open rural areas on an easterly path. It was not on the ground the entire time. Touchdown was .5 mile N of Wilmot and liftoff was 2.8 miles northeast of Benet Lake. Damage was limited to just trees. There were no injuries or deaths, or any known structural damage.
Kenosha County 2 N Bristol	24	1417CST 1419CST			0	0	10K		Thunderstorm Wind
									Powerful thunderstorm winds blew over large trees which damaged telephone lines.
<u>WISCONSIN, Southwest</u>									
Clark County Unity	18	1450CST			0	0			Hail (1.00)
<u>WISCONSIN, West</u>									
Dunn County 3 NW Wheeler	15	1824CST			0	0			Hail (0.88)
<u>WYOMING, Central and West</u>									
Natrona County (Cpr)Natrona Co Apt	26	1830MST			0	0			Thunderstorm Wind (G54)
Hot Springs County 3 N Thermopolis	30	1710MST			0	0			Hail (0.75)
Hot Springs County 3 E Thermopolis	30	1740MST			0	0			Thunderstorm Wind (G52)
<u>WYOMING, Extreme Southwest</u>									
									NONE REPORTED.
<u>WYOMING, North Central</u>									
									NONE REPORTED.
<u>WYOMING, Northeast</u>									
Campbell County 14 NNW Recluse	05	1750MST 1800MST			0	0			Hail (1.00)
Campbell County 12 N Recluse	05	1800MST 1805MST			0	0			Thunderstorm Wind (G56)
Campbell County 12 N Recluse	05	1800MST 1815MST			0	0			Hail (1.50)
									1.5 inch hail covered ground on a 5 mile wide strip.
Campbell County 16 NW Weston	05	1815MST 1820MST			0	0			Hail (1.75)
Crook County 4 W New Haven	05	1900MST 1910MST			0	0			Thunderstorm Wind (G52)
									Trees were downed.
Crook County New Haven	05	1906MST 1910MST			0	0			Hail (1.00)
Crook County New Haven	05	1906MST 1910MST			0	0			Thunderstorm Wind (G56)
Weston County Four Corners	20	2005MST 2015MST			0	0			Hail (1.50)
Campbell County Wright	31	1150MST 1155MST			0	0			Hail (2.75)

Storm Data and Unusual Weather Phenomena

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					Killed	Injured	Property	Crops	
WYOMING, Southeast									
Laramie County Cheyenne to 15 SE Cheyenne	06	1421MST 1507MST			0	0			Hail (1.50)
									Hail ranging from three-quarters of an inch of one and one-half inches fell from the northwest part of Cheyenne to 15 miles southeast of Cheyenne.
Albany County Laramie	07	1615MST			0	0	2K		Lightning
									Lightning struck and splintered a large tree in Laramie. A television and a VCR in a nearby house were also destroyed.
Laramie County Cheyenne	12	1457MST 1502MST			0	0			Hail (1.00)
Laramie County 8 N Cheyenne to 6 N Cheyenne	12	1555MST 1615MST			0	0			Hail (1.00)
Laramie County 10 NW Cheyenne to 9 SW Cheyenne	13	1430MST 1446MST			0	0			Hail (1.25)
Goshen County 2 SE Torrington to 3 SE Torrington	13	1448MST 1454MST			0	0			Hail (1.75)
Platte County Glendo	13	1615MST 1625MST			0	0			Hail (1.75)
Goshen County Ft Laramie	13	1700MST 1714MST			0	0			Hail (1.75)
									Hail, up to one and three-quarters of an inch fell at the Fort Laramie National Historic Site. One and one-quarter diameter hail was observed in Fort Laramie.
Converse County Douglas to 5 S Douglas	13	1738MST 1744MST			0	0			Hail (2.00)
									Hail, up to 2 inches in diameter fell from Douglas to five miles south of Douglas. Three-quarter diameter hail was noted in Douglas.
Goshen County La Grange	13	1750MST 1757MST			0	0			Hail (0.75)
Platte County Glendo	13	1800MST 1810MST			0	0			Thunderstorm Wind (G63)
Laramie County 3 N Albin to Albin	13	1819MST 1824MST			0	0	1M		Hail (1.25)
									Large hail caused extensive crop damage to the north of Albin.
Platte County Wheatland	13	1840MST 1846MST			0	0	10K		Thunderstorm Wind
									Thunderstorm winds downed power lines near Wheatland.
Laramie County 2 N Cheyenne to Cheyenne	13	1937MST 1955MST			0	0	4M		Hail (1.50)
									Hail, from three quarters of an inch to one and one-half inches fell in the Cheyenne area. Damage was done to windows, roofs and trees.
Laramie County Archer	13	2010MST 2015MST			0	0			Hail (1.00)
Laramie County 15 S Burns	19	1807MST 1810MST			0	0			Funnel Cloud
									Two funnel clouds were sighted between Carpenter and Burns.

Storm Data and Unusual Weather Phenomena

July 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WYOMING, Southeast									
Laramie County									
4 W Carpenter to 5 SE Carpenter	23	1510MST 1520MST			0	0			Hail (0.75)
Laramie County									
17 W Cheyenne to 18 W Cheyenne	24	1535MST 1605MST			0	0			Hail (1.75)
Hail between one inch and one and three quarters of an inch fell between 17 and 18 miles west of Cheyenne									
Laramie County									
18 W Cheyenne	24	1611MST 1616MST			0	0			Hail (0.75)
Three quarter inch diameter hail covered the ground to a depth of two inches at mile marker 339 on Interstate 80.									
Laramie County									
14 N Cheyenne	24	1656MST 1702MST			0	0			Hail (0.75)
Goshen County									
La Grange	25	1407MST 1425MST			0	0			Hail (1.75)
Laramie County									
5 N Pine Bluffs to 4 S Pine Bluffs	26	1500MST 1530MST			0	0			Hail (0.50)
Hail and heavy rainfall from thunderstorms caused extensive crop damage in the Pine Bluffs area. The hail path was 4 miles wide. Up to three inches of rain fell in the area.									
Laramie County									
4 N Carpenter to 5 NE Carpenter	26	1507MST 1511MST	1	100	0	0			Tornado (F0)
Laramie County									
8 NW Cheyenne to 5 NW Cheyenne	26	1535MST 1539MST			0	0			Hail (1.00)
Converse County									
Douglas	26	2014MST 2018MST			0	0			Hail (1.75)
Converse County									
Douglas	26	2035MST 2039MST			0	0			Hail (0.75)
Laramie County									
23 N Cheyenne	28	1417MST 1426MST			0	0			Hail (0.75)
Hail, up to three quarters of an inch in diameter, piled up to a depth of 4 inches.									
Laramie County									
8 NW Cheyenne	28	1430MST 1435MST			0	0			Funnel Cloud
Laramie County									
5 N Cheyenne to 2 NE Cheyenne	28	1450MST 1515MST			0	0			Hail (1.00)
Platte County									
15 SW Wheatland	29	1400MST 1700MST			0	0			Flash Flood
Heavy rainfall caused flooding, fifteen miles southwest of Wheatland. Dead Horse Creek went out of its banks in that area and washed out a bridge.									
Niobrara County									
Van Tassell	30	1410MST 1425MST			0	0			Hail (1.75)
Niobrara County									
Van Tassell	30	1410MST 1420MST			0	0			Thunderstorm Wind (G52)
Goshen County									
9 NW Hawk Spgs to 8 NW Hawk Spgs	30	1732MST 1738MST	1	100	0	0	70K		Tornado (F1)
A tornado twisted a grain auger, buckled two grain bins and blew an empty 300 gallon fuel tank one-half of a mile. In addition, several many trees were downed by the tornado and a power pole was knocked down.									
Laramie County									
3 N Albin	30	1828MST 1840MST			0	0	300K		Hail (0.75)

Storm Data and Unusual Weather Phenomena

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					Killed	Injured	Property	Crops	
WYOMING, Southeast									
			Considerable hail as well as strong winds caused extensive crop damage north of Albin.						
Niobrara County 5 N Bill	31	1300MST			0	0			Funnel Cloud
			Several funnel clouds were sighted over northeast Niobrara County at 200 PM. This location was 5 miles north of Bill.						
Platte County 6 NE Chugwater	31	1324MST 1330MST			0	0			Hail (1.75)
Laramie County Cheyenne	31	1640MST			0	0	0.50K		Thunderstorm Wind
			Thunderstorm winds downed a six inch tree limb on the south side of Cheyenne.						
Laramie County 15 NW Cheyenne	31	1700MST			0	0			Funnel Cloud
Laramie County 5 N Cheyenne to 4 N Cheyenne	31	1710MST 1716MST			0	0			Hail (1.00)
Laramie County Cheyenne	31	1725MST 1735MST			0	0	3.4M		Hail (2.50)
			Hail, between one inch and two and one-half inches fell in Cheyenne.						
Laramie County Cheyenne	31	1725MST 1746MST			0	0	5K		Thunderstorm Wind (G52)
			Thunderstorm winds blew a one foot diameter tree onto a car. In addition, the winds blew a truck off the road in town.						
Laramie County Cheyenne	31	1730MST 1750MST			0	0	10K		Urban/Sml Stream Fld
			Heavy rain caused by thunderstorms caused urban flooding in Cheyenne.						
Laramie County 5 S Cheyenne	31	1753MST 1757MST			0	0			Hail (1.00)