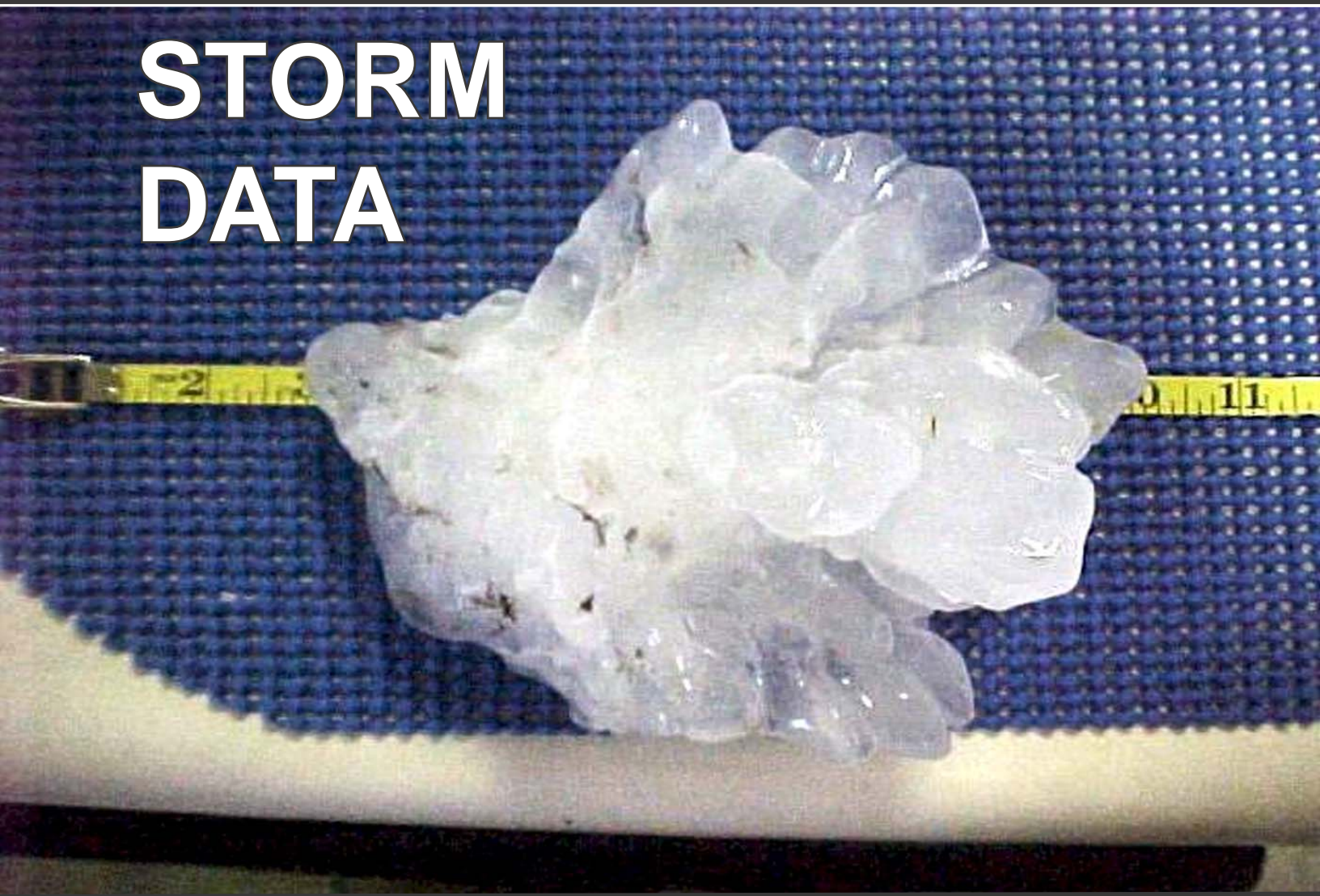


**JUNE 2003
VOLUME 45
NUMBER 6**

STORM DATA



**AND UNUSUAL WEATHER PHENOMENA
WITH LATE REPORTS AND CORRECTIONS**



noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NC

Cover: On June 22, 2003, severe thunderstorms produced tornadoes, flooding and giant hail in parts of Nebraska. This hailstone measured 7.0 inches in diameter and 18.75 inches in circumference, both a new record. The previous record hailstone fell in Coffeyville, Kansas on September 3, 1970 with a 5.7 inch diameter and a 17.5 inch circumference. (Photo courtesy: Stephen Kisner, WCM, NWS Forecast Office, Hastings, NE.)

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STORM DATA (ISSN 0039-1972)

National Climatic Data Center

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STORM DATA contains all confirmed information on storms available to our staff at the time of publication. Late reports and corrections will be printed in each edition.

Except for limited editing to correct grammatical errors, the data in Storm Data are published as received.

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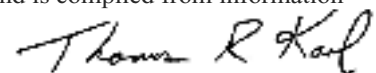
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The editor of **STORM DATA** solicit your help in acquiring photographs (prints or slides; black and white, or color), maps, clippings, etc. of significant or severe weather events (past or present) for use in the "Outstanding Storms of the Month"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

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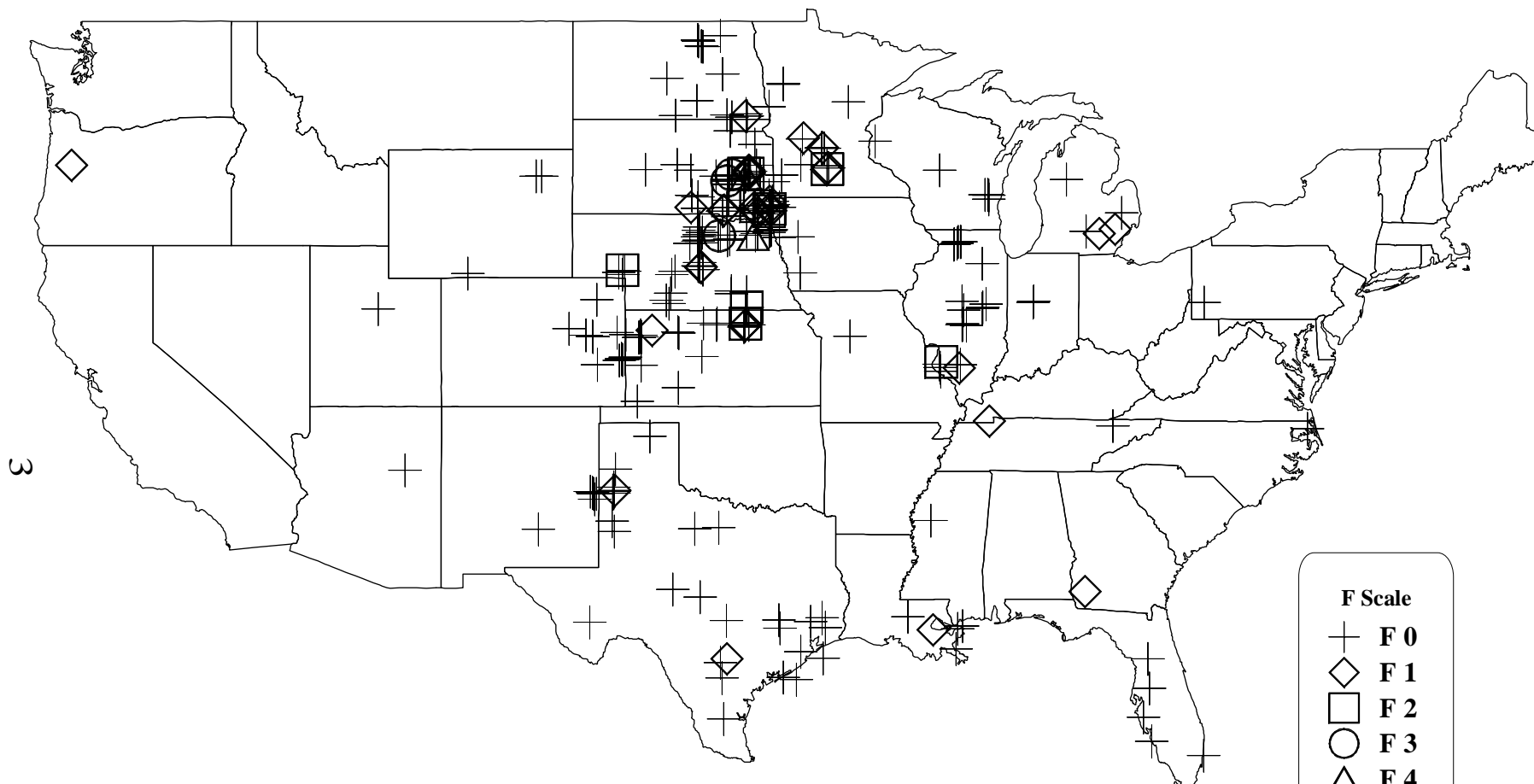
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Thomas R. Karl
Director,
National Climatic Data Center

June 2003 Confirmed Tornadoes



3

F Scale

- + F 0
- ◇ F 1
- F 2
- F 3
- △ F 4
- ⊠ F 5

F Scale	F0	F1	F2	F3	F4	F5	Total
Number	242	33	11	3	2	0	291

One F0 Tornado in Hawaii

OUTSTANDING STORMS OF THE MONTH

Record Size Hail on June 22

During the late afternoon and evening hours of June 22, 2003, severe thunderstorms produced tornadoes, flooding, and hail. An unstable airmass developed during the afternoon as a result of continued deep moisture advection from the Gulf of Mexico, surface heating, and strong wind shear. Two primary supercell thunderstorms formed, one across northern and central Hamilton County, Nebraska, and another over Thayer (NE), Jewell and Republic (KS) counties. Seven tornadoes, six rated as an F0 and one as F2, as defined by the Fujita Tornado Scale touchdown in Nebraska while Kansas had 6 tornado (three F0's, two F1's and one F2) touchdowns. One death and 7 injuries occurred in Nebraska. Rainfall amounts over 12 inches caused flooding to agricultural areas, damage to roads and personal property. Several million dollars in damage is attributed to the flooding.



On June 23 and 25, 2003, the Hastings National Weather Service Office conducted damage surveys documenting the size of the hail and damage in the city of Aurora, Nebraska. The largest stone found on June 23, **above left**, measured 6.5 inches in diameter, 17 3/8 inches in circumference and a certified weight of 1.33 pounds. Larger hailstones were reported and verified on June 25 with this hailstone measuring 7.0 inches in diameter and 18.75 inch circumference, shown on the **cover** and **above right**. Many very large impact craters were noted in some yards, with the largest measuring 12 inches wide and 3 inches deep, **below**. (Photos courtesy: Stephen Kisner, WCM, NWS Forecast Office, Hastings, NE.)



Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ALABAMA, Central</u>									
Lamar County									
6.6 SW Vernon	02	1634CST			0	0	0	0	Hail (0.88)
	Nickel size hail was reported near the Star community.								
Lamar County									
1 S Kennedy	02	1645CST			0	0	0	0	Hail (0.75)
	Penny size hail was observed just south of Kennedy.								
Tuscaloosa County									
8.5 NE Northport	02	1819CST			0	0	5K	0	Hail (1.00)
	Nickel to quarter size hail fell northeast of Northport and Tuscaloosa. The hail was observed on Lock 15 Road between Lake Nicol and the Black Warrior River. One vehicle sustained hail damage indicating some of the hail may have been larger.								
Perry County									
Suttle	02	1900CST			0	0	6K	0	Hail (1.75)
	Golf ball size hail was reported near Suttle along SR 14.								
Autauga County									
Billingsley	02	1910CST			0	0	0	0	Hail (0.75)
	Penny size hail was observed in Billingsley.								
Jefferson County									
Bessemer	02	1942CST			0	0	0	0	Hail (1.25)
	Half dollar size hail was reported by a motorist in Bessemer.								
Jefferson County									
3.6 NW Pleasant Grove	02	1945CST			0	0	0	0	Hail (0.75)
	Penny size hail fell in the Sylvan Springs area.								
Sumter County									
Cuba	02	2045CST			0	0	10K	0	Thunderstorm Wind (G50)
	Two large trees were blown down. One tree fell on a home causing minor damage. The other tree fell on some power lines.								
Winston County									
2 S Arley	10	1555CST 1601CST			0	0	27K	0	Thunderstorm Wind (G60)
	One mobile home was destroyed, a few power poles were blown down, and the roof of one home was damaged just south of Arley. Marble size hail was also reported with this storm.								
Lamar County									
Countywide	11	1236CST 1252CST			0	0	8K	0	Thunderstorm Wind (G50)
	Several trees were blown down across the county. The damage primarily occurred in the eastern part of the county, north and east of Vernon.								
Marion County									
Countywide	11	1248CST 1315CST			0	0	20K	0	Thunderstorm Wind (G50)
	Numerous trees were blown down throughout Marion County. Several of the trees temporarily blocked roadways. Cities that reported damage include Guin, Hamilton, Winfield, Brilliant, and Sunny Home.								
Fayette County									
Countywide	11	1252CST 1322CST			0	0	4K	0	Thunderstorm Wind (G50)
	Several trees were blown down across the county.								
Winston County									
Countywide	11	1257CST 1352CST			0	0	250K	0	Thunderstorm Wind (G65)
	Numerous trees were knocked down countywide. One large storage building was destroyed. Southern Homes in Double Springs sustained significant damage to its plant. Many buildings were damaged or destroyed at the plant. One chicken house was damaged and one mobile home was destroyed.								
Shelby County									
Countywide	11	1317CST 1403CST			0	0	13K	0	Thunderstorm Wind (G50)
	Several trees were blown down throughout the county. Cities that reported damage included Alabaster, Calera, Columbiana, and Shelby.								
Walker County									
Countywide	11	1340CST 1355CST			0	0	10K	0	Thunderstorm Wind (G50)
	Numerous trees and power lines were blown down primarily across the southern and eastern parts of the county.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ALABAMA, Central</u>									
Jefferson County									
Countywide	11	1341CST 1418CST			0	0	14K	0	Thunderstorm Wind (G55)
	Numerous trees were blown down countywide. Maximum wind gusts were estimated between 60 and 70 miles an hour.								
St. Clair County									
Countywide	11	1410CST 1450CST			0	0	15K	0	Thunderstorm Wind (G50)
	Numerous trees were blown down across the entire county.								
Talladega County									
Sycamore	11	1411CST			0	0	18K	0	Thunderstorm Wind (G50)
	A few trees were knocked down in Sycamore. One home suffered porch and deck damage when a large tree fell on the home.								
Blount County									
Countywide	11	1415CST 1454CST			0	0	8K	0	Thunderstorm Wind (G55)
	Several trees were knocked down throughout the county.								
Etowah County									
Altoona	11	1443CST			0	0	2K	0	Thunderstorm Wind (G50)
	A few trees were blown down near Altoona.								
Lamar County									
Countywide	11	1717CST 1737CST			0	0	3K	0	Thunderstorm Wind (G50)
	A few trees were blown down across the northern half of the county.								
Marion County									
Countywide	11	1717CST 1737CST			0	0	3K	0	Thunderstorm Wind (G50)
	A few trees were blown down across the southern part of the county.								
Dallas County									
Selma	12	1245CST			0	0	25K	0	Thunderstorm Wind (G50)
	A large tree fell onto a home in Selma. The fallen tree caused moderate damage to the home and an automobile.								
Tuscaloosa County									
Countywide	12	1330CST 1400CST			0	0	27K	0	Thunderstorm Wind (G55)
	Numerous trees and power lines were blown down countywide. Alabama Power estimated at least 5000 customers were temporarily without power after the storms. At least two homes were damaged by falling trees.								
Shelby County									
Helena	12	1400CST			0	0	5K	0	Thunderstorm Wind (G50)
	What was believed to be a small downburst struck the southern side of Helena. The path of minor damage stretched for approximately nine tenths of a mile. Initial damage was very narrow but seemed to widen to about a tenth of a mile at the end of the path. The initial damage occurred to a house roof where a patch of shingles covering about 12 square feet was removed. The wind then removed a roof to a dumpster enclosure and a nearby metal awning at the Winn Dixie. From there to the end of the path damage was in the form of downed trees and some power/telephone lines. Some trees were broken off and a few were uprooted. Radar data showed the development of a small shower that was overtaken by a line of thunderstorms at the approximate time of the event.								
Shelby County									
Countywide	12	1400CST			0	0	5K	0	Thunderstorm Wind (G50)
	Trees were knocked down in several locations across the county.								
Jefferson County									
Bessemer	12	1416CST			0	0	3K	0	Thunderstorm Wind (G50)
	Trees were knocked down in the city of Bessemer.								
Talladega County									
Sylacauga	12	1427CST			0	0	8K	0	Thunderstorm Wind (G50)
	Trees and power lines were blown down in and around Sylacauga.								
Randolph County									
Wedowee	12	1517CST			0	0	10K	0	Thunderstorm Wind (G60)
	A restaurant in Wedowee sustained roof damage.								
Lee County									
Loachapoka	13	1300CST			0	0	4K	0	Thunderstorm Wind (G50)
	A few trees were blown down in and near Loachapoka. One of the trees temporarily blocked CR 20.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ALABAMA, Central</u>									
Montgomery County									
Montgomery	15	1500CST 1520CST			0	0	30K	0	Flash Flood
Several inches of rain in a short period of time caused flooding on the east side of Montgomery. Several roads were temporarily impassable and a few automobiles were stranded in the high water.									
Shelby County									
4.7 S Shelby	16	1845CST			0	0	8K	0	Thunderstorm Wind (G55)
A microburst occurred near Waxahatchee Creek in southern Shelby County. A few trees were snapped off, several trees were uprooted, and numerous trees were bent over to the ground. The damage occurred just south of the intersection of SR 145 and CR 311. Only a few branches were knocked down on the Chilton County side of the creek.									
Macon County									
Shorter	17	0415CST			0	0	5K	0	Thunderstorm Wind (G50)
A few trees and fences were blown down in Shorter. Marble size hail also accompanied this storm.									
Jefferson County									
Hoover	17	1538CST 1548CST			0	0	27K	0	Thunderstorm Wind (G60)
Several trees were blown down in Bluff Park and many were temporarily blocking roadways. Winds were estimated around 70 miles an hour. A few homes sustained minor roof damage from this microburst.									
Shelby County									
Pelham	17	1615CST 1620CST			0	0	16K	0	Thunderstorm Wind (G55)
Several trees were blown down in Pelham. One tree fell on a sailboat producing moderate damage.									
Jefferson County									
Hoover	17	1630CST 1800CST			0	0	40K	0	Flash Flood
Radar estimated up to two inches of rain in 40 minutes in the Bluff Park area of Hoover. Several roads were flooded and were temporarily impassable.									
Shelby County									
Pelham	17	1645CST 1800CST			0	0	400K	0	Flash Flood
Radar estimated rain was falling at a rate up to 3 inches an hour in Riverchase and Pelham. Rain amounts over a two hour period were from 5 to 6 inches. Several roads were flooded and temporarily impassable. Several small streams rose out of their banks. A few homes were flooded in Riverchase. The Pelham Fire Department performed a few swift water rescues. Seventy-five homes and six businesses received varying degrees of flood damage in Pelham along Highway 261. No injuries were reported.									
Tuscaloosa County									
Tuscaloosa	17	1800CST 1820CST			0	0	10K	0	Flash Flood
Several inches of rain in a short period of time produced flooding in Tuscaloosa. Several roads were temporarily impassable due to the high water.									
Lamar County									
Sulligent	18	1848CST 1852CST			0	0	22K	0	Thunderstorm Wind (G50)
Several trees and power lines were blown down in and around the city of Sulligent. The most concentrated damage was on the west side of town. Small hail also accompanied the storm.									
Cherokee County									
Centre	19	1053CST 1058CST			0	0	8K	0	Thunderstorm Wind (G50)
A few trees and power lines were blown down in and around the city of Centre. Pea size hail also accompanied this storm.									
Jefferson County									
Forestdale	19	1553CST			0	0	0	0	Hail (0.75)
Three quarter inch diameter size hail was reported in Forestdale.									
<u>ALABAMA, North</u>									
Jackson County									
Bridgeport	10	1810CST			0	0			Hail (0.88)
nickel hail reported.									
Jackson County									
Bridgeport	10	1810CST			0	0			Thunderstorm Wind (G60)
several trees and power lines down.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ALABAMA, North</u>									
Jackson County									
Stevenson	10	1810CST			0	0	3K		Thunderstorm Wind (G60)
									home with minor roof damage due to wind damage.
Dekalb County									
2 N Ider	10	1845CST			0	0			Thunderstorm Wind (G60)
									few trees down.
Dekalb County									
Henagar	10	1905CST			0	0			Thunderstorm Wind (G50)
									several trees down.
Marshall County									
Guntersville	11	1118CST			0	0			Thunderstorm Wind (G50)
									large tree and power lines down.
Franklin County									
Red Bay	11	1309CST			0	0			Thunderstorm Wind (G60)
									several trees down on county roads 25, 23 and 15.
Lawrence County									
Town Creek	11	1330CST			0	0			Thunderstorm Wind (G50)
									large tree and power lines down.
Lawrence County									
6 N Moulton to Moulton	11	1332CST			0	0			Thunderstorm Wind (G60)
									few trees down on highway 33.
Limestone County									
2 W Athens	11	1350CST			0	0			Thunderstorm Wind (G60)
									flag pole and basketball goal in concrete along with several trees blown down.
Cullman County									
Countywide	11	1400CST			0	0			Thunderstorm Wind (G60)
									numerous trees and power lines down.
Morgan County									
Trinity	11	1400CST			0	0			Hail (0.75)
									penny size hail reported.
Morgan County									
Decatur	11	1410CST			0	0			Thunderstorm Wind (G50)
									two large trees down.
Madison County									
Hazel Green	11	1415CST			0	0			Thunderstorm Wind (G60)
									few large trees down.
Madison County									
Hazel Green	11	1415CST			0	0			Thunderstorm Wind (G50)
									few large limbs down
Morgan County									
2 NE Priceville	11	1415CST			0	0			Thunderstorm Wind (G50)
									several utility power poles down.
Dekalb County									
Geraldine	11	1500CST			0	0			Thunderstorm Wind (G50)
									few large trees down across county road 52.
Jackson County									
Skyline	11	1525CST			0	0			Thunderstorm Wind (G50)
									few trees down.
Jackson County									
2 NE Scottsboro	11	1535CST			0	0			Thunderstorm Wind (G50)
									few trees down.
Jackson County									
Flat Rock	11	1540CST			0	0			Thunderstorm Wind (G60)
									several trees down along county road 325.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ALABAMA, North</u>									
Franklin County									
Belgreen	11	1743CST			0	0			Thunderstorm Wind (G50) few trees down.
Franklin County									
Hodges	11	1743CST			0	0			Thunderstorm Wind (G50) few trees down.
Jackson County									
6 NW Bridgeport	16	1630CST			0	0			Thunderstorm Wind (G50) a few trees down.
Dekalb County									
5 NE Ft Payne	16	1930CST			0	0			Thunderstorm Wind (G50) a tree and power lines down and blocking road in desoto state park.
Colbert County									
Tuscumbia	17	1326CST 1500CST			0	0			Flash Flood two streets with several inches of water over road.
Colbert County									
Tuscumbia	17	1326CST			0	0			Thunderstorm Wind (G50) several trees and power lines down.
Colbert County									
2 S Tuscumbia	17	1340CST 1500CST			0	0			Flash Flood flash flooding with several inches of water over frankfort road.
Dekalb County									
Ft Payne	17	1350CST			0	0			Thunderstorm Wind (G50) several trees down.
Dekalb County									
Geraldine	17	1409CST			0	0			Hail (0.75) penny size hail reported.
Franklin County									
5 E Russellville	17	1450CST			0	0			Thunderstorm Wind (G60) 50 foot trailer overturned on highway 24 and several trees down.
Dekalb County									
Mentone	17	1500CST 1700CST			0	0			Flash Flood several inches of water over road.
Dekalb County									
Fyffe	17	1540CST 1700CST			0	0			Flash Flood flash flooding with culvert washed out on county road 61.
Franklin County									
2 W Isbell	17	1555CST 1800CST			0	0			Flash Flood several inches of water over county road 61.
Marshall County									
Douglas	17	1600CST 1800CST			0	0			Flash Flood flash flooding with water over horton road.
Franklin County									
Isbell	17	1630CST 1800CST			0	0			Flash Flood flash flooding with water over county road 64.
Lauderdale County									
Countywide	18	1700CST 1800CST			0	0			Flash Flood flash flooding occurring across large portion of county with several county roads with several inches of water over roads.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ALABAMA, North</u>									
Marshall County									
Claysville	19	1630CST 1800CST			0	0			Flash Flood
			several inches of water over highway 431.						
<u>ALABAMA, Southeast</u>									
Henry County									
Headland	30	1825EST 1930EST			0	0	5K		Flash Flood
			Torrential rainfall from thunderstorms flooded numerous streets in Headland. Reported by the Henry County EMA.						
<u>ALABAMA, Southwest</u>									
Mobile County									
Cottage Hill	03	0000CST 0003CST			0	0	20K		Thunderstorm Wind (G50)
			High winds from a thunderstorm damaged some buildings at a baseball park. Most of the damage was to light weight buildings. A telephone pole and a few trees were also blown down.						
Mobile County									
Tanner Williams	03	1230CST			0	0	50K		Lightning
			Lightning struck a house near Tanner Williams. The lightning caught the house on fire and it was destroyed before the fire department arrived. No one was injured.						
Baldwin County									
Central Portion	06	1340CST 1800CST			0	0			Flash Flood
			Heavy rains from slow moving thunderstorms caused street flooding between Foley and Bay Minette. Several streets had to be closed for a couple of hours due to high water.						
Mobile County									
Mobile	06	1445CST 1600CST			0	0			Flash Flood
			Heavy rains from slow moving thunderstorms caused street flooding in downtown Mobile. Estimates of five to eight inches of rainfall in a three hour period were reported. Several streets in the downtown area had to be closed due to high water. The roads quickly drained after the storms had moved out of the area.						
Escambia County									
West Central Portion	06	1700CST 1745CST			0	0			Flash Flood
			Heavy rainfall caused several streets to flood around Atmore. Rainfall estimates of about four inches in a two hour period caused the flooding. Several streets had to be closed for about an hour due to high water.						
Mobile County									
3 SE (Mob)Mobile Bates	09	0900CST 0903CST			0	0			Funnel Cloud
			A pilot observed two funnel clouds while on approach to Mobile Regional Airport. The funnel clouds never touched down and dissipated.						
Crenshaw County									
Rutledge	11	1315CST 1316CST			0	0	5K		Thunderstorm Wind (G50)
			High winds from a thunderstorm blew down several trees just west of Rutledge.						
Mobile County									
(Mob)Mobile Bates Fl	13	0705CST			0	0	20K		Lightning
			Lightning struck the Mobile NWS office at the airport. Communications were disrupted for most of the day. Several electronic devices were also damaged.						
Choctaw County									
Gilbertown	15	1835CST 1837CST			0	0	5K		Thunderstorm Wind (G50)
			High winds from a thunderstorm blew down a few trees and power lines near Gilberttown.						
Clarke County									
Thomasville	16	1300CST			0	0	10K		Lightning
			Lightning struck a home near Thomasville. The strike started a fire that damaged the home.						
Monroe County									
Peterman	19	1415CST 1417CST			0	0	5K		Thunderstorm Wind (G50)
			High winds from a thunderstorm blew down several trees near Peterman.						

Storm Data and Unusual Weather Phenomena

June 2003

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

Choctaw County

Countywide	19	1920CST 2100CST			0	0			Flash Flood
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Heavy rains from slow moving thunderstorms caused several roads throughout the county to flood. Radar estimates and surface reports showed that up to eight inches of rain fell throughout the county in a three hour period. Several roads in the county had to be closed for several hours due to high water. The roads quickly drained after the rainfall had moved out of the county.

Baldwin County

Fairhope	21	1352CST 1354CST			0	0			Funnel Cloud
----------	----	--------------------	--	--	---	---	--	--	---------------------

A couple of funnel clouds were observed near Fairhope. The funnel clouds dissipated without ever reaching the ground.

Escambia County

Countywide	30	2100CST 2359CST			0	0			Flash Flood
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Heavy rainfall from Tropical Storm Bill caused many secondary streets throughout the county to flood. Rainfall totals of four to seven inches were estimated in a six hour period. The flooding continued into the morning hours with many streets closed for several hours.

Baldwin County

Countywide	30	2100CST 2359CST			0	0			Flash Flood
------------	----	--------------------	--	--	---	---	--	--	--------------------

Heavy rainfall from Tropical Storm Bill caused many secondary streets across the county to flood. Rainfall totals of four to seven inches were estimated in a six hour period. The heavy rainfall began along the coastal areas and spread inland during the night. The flooding continued into the morning hours with many streets closed for several hours.

Mobile County

Countywide	30	2100CST 2359CST			0	0			Flash Flood
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Heavy rainfall from Tropical Storm Bill caused many secondary streets across the county to flood. Rainfall totals of four to seven inches were estimated in a six hour period. The heavy rainfall began along the coastal areas and spread inland during the night. The flooding continued into the morning hours with many streets closed for several hours.

Mobile County

Countywide	30	2145CST 2200CST			0	0	7K		Thunderstorm Wind (G50)
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High winds from several thunderstorms associated with Tropical Storm Bill blew down several trees throughout the county. The ground was already saturated from heavy rains and most of the trees that were blown down were shallow rooted trees.

Mobile County

Cottage Hill	30	2220CST 2225CST			0	0	5K		Thunderstorm Wind (G50)
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High winds from thunderstorms blew down several trees near Cottage Hill.

ALASKA, Northern

Wrn Tanana Vly Wrn Yukon Vly

Anderson	01 07	0000AST 1500AST			0	0	80K		Wildfire
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Event continued from May. The Rex Bridge wildfire started 20 miles south of Nenana from an illegal burn pile. The fire grew to 1500 acres before it was contained on the 7th of June. An entire home and two other structures, including an abandoned trailer, were destroyed by the fire on the 26th and 27th. Property damage estimate is merely a guess, as no amounts on the structures were available.

ALASKA, Southeast

NONE REPORTED.

ALASKA, Southern

NONE REPORTED.

AMERICAN SAMOA

ASZ002

Tutuila								
01		0000SST			0	0		Heavy Surf/High Surf
09		0600SST						

High surf generated by strong trades of 20-30 knots persisted across the territory for a week as a ridge of high pressure remained nearly stationary south of the islands for as many days.

Storm Data and Unusual Weather Phenomena

June 2003

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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AMERICAN SAMOA

ASZ002

Tutuila

01 0000SST

0 0

Heavy Surf/High Surf

09 0600SST

A semi-permanent ridge of high pressure which was nearly stationary far south of the islands produce strong trades which in turn generated heavy swell and high surf that affect much of the south shores of Tutuila for more than a week.

ASZ002

Tutuila

13 1600SST

0 0

50K

Flood

1900SST

Heavy showers fell on the territory from an active trough of low pressure over Samoa. More than 2 inches of rain fell between 330 pm and 430pm which caused rapid flooding of low lying areas and triggered some land slide in areas previously affected by the heavy rain of May 19, 2003.

ARIZONA, Central and Northeast

Navajo County

Winslow

**17 1150MST
1220MST**

0.5

10

0 0

Tornado (F0)



This weak (F0) tornado was on the ground for about 30 minutes west of Winslow. Photo by Glenn Howeth of Winslow.

A weak tornado formed along a convergence zone about one mile west of Winslow. The tornado was nearly stationary and remained in rural areas for about 30 minutes.

ARIZONA, Northwest

NONE REPORTED.

ARIZONA, South

Pima County

Summerhaven

**17 1500MST
30 2359MST**

0 0

66M

0

Wildfire

The Aspen wildfire started on June 17th in the Catalina Mountains by an unknown hiker on the Marshall Gulch and Aspen Loop trail. The Fire was first observed on the south face portion of Marshall Peak around 7000 feet. On June 19th, winds increased across Southeast Arizona with the highest winds recorded at Hopkins RAWS site (south of Catalina Mountains). Sustained winds of 23 knots (26 mph) and gusts up to 42 knots (48 mph) were recorded at this site for one hour during the afternoon. The combination of strong winds and low relative humidity pushed the fire northeast into the town of Summerhaven on top of Mt. Lemmon. Numerous structures were destroyed including the Alpine Lodge, Pima county transportation facility, Post Office, and many others. In all the fire consumed a total of 84,750 acres and 333 structures lost. Damage estimates indicated total property damage was \$66 million, suppression costs were \$16 million, and loss of trees and resources were \$33 million.

Storm Data and Unusual Weather Phenomena

June 2003

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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ARIZONA, Southwest

NONE REPORTED.

ARKANSAS, Central and North Central

Jefferson County

Redfield	02	1110CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds downed some large trees and blew some shingles off the roof of a car wash.

Jefferson County

Wright	02	1130CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down a few trees and power lines. Several homes had shingles blown off.

Pike County

Murfreesboro	10	2000CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds downed several trees.

Pike County

5 SE Murfreesboro	10	2000CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down some trees.

Pike County

Delight	10	2020CST			0	0			Thunderstorm Wind (G50)
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Trees and power lines were downed.

Clark County

3 NW Arkadelphia	10	2025CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds blew down some trees along Highway 8 in the Hearn community.

Clark County

8 WNW Arkadelphia	10	2025CST			0	0			Thunderstorm Wind (G50)
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A few large trees were knocked down along Highway 8 at the Piney community.

Pike County

Glenwood	10	2030CST			0	0			Thunderstorm Wind (G50)
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Several large tree limbs were blown down.

Garland County

Hot Spgs	11	0040CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds downed some large tree limbs in the southern part of Hot Springs near Lake Hamilton.

Saline County

Benton	11	0105CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down some trees and large limbs.

Pulaski County

Little Rock	11	0130CST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds downed some trees near Alsopp Park.

Ouachita County

10 N Stephens	11	0550CST			0	0			Thunderstorm Wind (G50)
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Trees were knocked down along U.S. Highway 278.

Dallas County

2 W Farindale	11	1615CST			0	0			Hail (1.00)
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Cleveland County

Staves	11	1633CST			0	0			Hail (0.75)
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Lincoln County

6 W Star City	11	1755CST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

June 2003

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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ARKANSAS, Central and North Central

Desha County

Dumas	11	1800CST			0	0			Thunderstorm Wind (G70)
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In the picture: Damaging straight-line winds removed part of the roof from an elementary school in Dumas (Desha County) on 06/11/2003.

Thunderstorm gusts estimated between 80 and 90 mph tore part of a roof from a school and a cotton warehouse in Dumas. A truck trailer was also overturned, with trees downed and power poles snapped.

Lincoln County

2 E Cornerville	11	1800CST			0	0			Hail (0.75)
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Pulaski County

6 SW Little Rock	11	2028CST			0	0			Hail (0.88)
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Pulaski County

9 SSW Little Rock	11	2030CST			0	0			Hail (0.88)
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Pulaski County

6 SW Little Rock	11	2033CST			0	0			Hail (0.75)
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Pulaski County

8 SSW Little Rock	11	2033CST			0	0			Hail (1.75)
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Pulaski County

11 SW Little Rock	11	2037CST			0	0			Hail (1.50)
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Lonoke County

Keo	11	2135CST			0	0			Hail (0.75)
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Grant County

Sheridan	11	2210CST			0	0			Flash Flood
	12	0100CST							

Grant County

Countywide	12	0100CST 0200CST			0	0			Flash Flood
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Heavy rains resulted in widespread flash flooding over Grant County. A number of roads throughout the county and some streets in Sheridan were covered by high water for a few hours.

Desha County

11 NE Watson	11	2300CST			0	0			Flash Flood
	12	0300CST							

Several roads were flooded near the Norrell Lock and Dam.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, Central and North Central</u>									
Garland County									
Hot Springs Village	11	2300CST			0	0			Flash Flood
	12	0300CST							
Heavy rains caused flash flooding to occur in and around Hot Springs Village. A numbers of streets and area roads were covered by high water for several hours.									
Saline County									
Owensville	11	2300CST			0	0			Flash Flood
	12	0300CST							
Heavy rains resulted in flash flooding around Owensville. Several streets were flooded and a part of State Highway 5 was partially covered by high water.									
Cleveland County									
Rison	12	0000CST 0200CST			0	0			Flash Flood
Heavy rains resulted in flash flooding near Rison. Several streets were impassible for a few hours due to high water.									
Lincoln County									
Star City	12	0100CST 0215CST			0	0			Flash Flood
Lincoln County									
6 W Star City	12	0100CST 0215CST			0	0			Flash Flood
Heavy rains resulted in flash flooding over parts of Lincoln County. Highway 425 in Star City and Highway 54 west of Star City were covered by high water and impassible.									
Ouachita County									
Camden	12	0100CST 0600CST			0	0			Flash Flood
Heavy rains caused flash flooding to occur along county roads 72 and 120 near Camden. A bridge was also partially washed out in the area.									
Clark County									
Gurdon	12	0110CST 0600CST			0	0			Flash Flood
Clark County									
Amity	12	0200CST 0600CST			0	0			Flash Flood
Clark County									
Arkadelphia	12	0200CST 0600CST			0	0			Flash Flood
Heavy rains caused flash flooding over parts of Clark County. A number of homes and businesses were flooded in Arkadelphia and Gurdon. Several families had to be evacuated from their homes in Gurdon. Flooding was also reported along Interstate 30 west of Gurdon. State Highway 8 was washed out near Amity.									
Dallas County									
Fordyce	12	0200CST 0425CST			0	0			Flash Flood
Heavy rains caused flash flooding to occur in Fordyce. Several streets were covered by high water and impassible for a few hours.									
Pike County									
Newhope	12	0310CST 0410CST			0	0			Flash Flood
Heavy rains caused some flooding to occur along U.S. Highway 70 at Newhope.									
Calhoun County									
Thornton	12	0600CST 0605CST			0	0			Flash Flood
Heavy rains flooded several roads in and around Thornton.									
Logan County									
Driggs	14	1455CST			0	0			Hail (0.88)
Logan County									
Driggs	14	1455CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed some trees and power lines.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, Central and North Central</u>									
Garland County									
Hot Spgs	17	0610CST 0900CST			0	0			Flash Flood
Heavy rains caused flash flooding in and around Hot Springs. Several streets were under water for a few hours.									
Hot Spring County									
Malvern	17	0700CST 0930CST			0	0			Flash Flood
Heavy rains resulted in flash flooding in and around the Malvern area. Numerous streets were flooded and impassible for several hours.									
Saline County									
Benton	17	0845CST 1330CST			0	0			Flash Flood
Saline County									
5 ENE Bryant	17	0900CST 1230CST			0	0			Flash Flood
Heavy rains brought flash flooding to parts of Saline County. Several streets in Benton were flooded with some water in area homes and businesses. Some roads were also under water in the Shannon Hills community.									
Pulaski County									
Little Rock	17	0905CST 1200CST			0	0			Flash Flood
Heavy rains caused flooding to occur in and around the Little Rock area. Several streets and some major intersections were impassible for several hours due to the high water.									
Jefferson County									
Northwest Portion	17	1000CST 1330CST			0	0			Flash Flood
Heavy rainfall caused flash flooding to occur over the northwest portion of Jefferson County. A number of roads were flooded making them impassible for a period of time before the water receded.									
Dallas County									
Fordyce	17	1010CST 1145CST			0	0			Flash Flood
Heavy rains brought flash flooding to parts of Fordyce. Several roads were under water and ditches were overflowing for a short period of time.									
Cleveland County									
Rison	17	1100CST 1215CST			0	0			Flash Flood
Street flooding was reported in Rison.									
Grant County									
Countywide	18	1300CST 1530CST			0	0			Flash Flood
Heavy rains flooded numerous county roads across Grant County.									
Pulaski County									
Little Rock	18	1308CST 1530CST			0	0			Flash Flood
Roads in several park areas around Little Rock were flooded.									
Stone County									
Allison	22	0325CST			0	0			Thunderstorm Wind (G50)
Several trees were knocked down.									
Jefferson County									
Pine Bluff	29	1800CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed some trees and damaged the roof of a building.									
Faulkner County									
Conway	30	1345CST 1515CST			0	0			Flash Flood
Heavy rains caused flash flooding to occur in the northwest part of Conway. Several homes were flooded in the area.									
<u>ARKANSAS, East</u>									
Lee County									
2 S Marianna	02	1340CST 1345CST			0	0	0.01K		Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, East</u>									
Clay County									
Holly Corner	11	0300CST 0305CST			0	0	1K		Thunderstorm Wind (G50)
A shed was damaged. Some cotton wagons were moved. Some tree limbs were blown down.									
Mississippi County									
Leachville	11	0330CST 0335CST			0	0	15K		Thunderstorm Wind (G60)
The roof was completely blown off of an occupied mobile home. The family lost all their belongings as a result. Several trees were knocked down.									
Lawrence County									
Lynn	13	1957CST 2005CST			0	0	0.05K		Hail (0.88)
Craighead County									
Jonesboro	18	1300CST 1430CST			0	0	1K		Flash Flood
Several roads were flooded.									
Clay County									
Piggott	30	1430CST 1530CST			0	0	1K		Flash Flood
Some streets were flooded.									
<u>ARKANSAS, Northwest</u>									
Sebastian County									
Ft Smith	02	0032CST			0	0			Hail (0.75)
Sebastian County									
Ft Smith	02	0040CST			0	0			Hail (0.75)
Crawford County									
Van Buren	02	0050CST			0	0			Hail (0.75)
Crawford County									
Van Buren	02	0200CST 0400CST			0	0			Flash Flood
Heavy thunderstorm rains caused part of West Main Street to be impassable.									
Sebastian County									
Ft Smith	02	0200CST 0400CST			0	0			Flash Flood
Heavy thunderstorm rains caused a part of Wheeler Street to be impassable.									
Franklin County									
Charleston	02	0230CST 0400CST			0	0			Flash Flood
Heavy thunderstorm rains caused street flooding.									
Benton County									
Garfield	10	2315CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew down several trees.									
Sebastian County									
Greenwood	12	0051CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds estimated at 60 miles an hour blew large tree limbs down.									
Franklin County									
3 W Branch	12	0114CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew down numerous trees.									
<u>ARKANSAS, Southeast</u>									
Ashley County									
Crossett	17	1230CST 1320CST			0	0	5K		Flash Flood
Heavy rains caused several streets to flood.									
Chicot County									
Lake Vlg	17	1445CST 1530CST			0	0	10K		Flash Flood
Heavy rains caused several streets to flood.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, Southwest</u>									
Lafayette County									
6 N Lewisville	10	1928CST			0	1	29K		Thunderstorm Wind (G65)
Strong winds that roared through the county contributed to an accident on CR 5 north. According to Lafayette County Chief Deputy, the accident occurred when a 1995 Pontiac Grand Prix driven by Maxine Matlock, 40 was headed west from Highway 29 North. The strong winds caused a large tree to fall across the road near Union Hill Church. Matlock was unable to stop before branches from the large tree struck the front of the vehicle and entered the windshield. Matlock skidded 39 feet before impact and then traveled an additional 12 feet before coming to a stop. Only one injury was reported.									
Hempstead County									
Hope	10	1930CST			0	0			Thunderstorm Wind (G52)
Trees down countywide.									
Lafayette County									
Bradley	10	1930CST			0	0			Thunderstorm Wind (G55)
Numerous trees down.									
Little River County									
Ogden	10	1931CST			0	0			Thunderstorm Wind (G52)
Several large trees down.									
Miller County									
Fouke	10	1939CST			0	0			Thunderstorm Wind (G52)
Numerous trees down.									
Miller County									
Fouke	10	1939CST			0	0			Thunderstorm Wind (G55)
Several large trees down.									
Lafayette County									
Stamps	10	1940CST			0	0			Thunderstorm Wind (G55)
Numerous large trees down.									
Little River County									
2 W Millwood Lake	10	1940CST			0	0			Thunderstorm Wind (G60)
Numerous trees down.									
Little River County									
2 W Ashdown	11	0150CST			0	0	150K		Thunderstorm Wind (G70)
Numerous trees down and numerous trees had their tops blown off. A roof was torn off a house and a telephone pole fell on a car.									
Miller County									
Texarkana	11	0455CST			0	0			Thunderstorm Wind (G55)
Trees and power lines down along Ferry Road and Highway 71 on the Arkansas side of the city of Texarkana.									
Hempstead County									
Hope	11	0505CST			0	0			Thunderstorm Wind (G55)
Numerous trees down.									
Lafayette County									
Stamps	11	0520CST			0	0			Thunderstorm Wind (G55)
Trees down on several roads throughout town and one tree fell on a car.									
Howard County									
3 W Center Pt to Saratoga	11	1945CST 2040CST			0	0	20K		Thunderstorm Wind (G72)
Numerous trees and power lines were toppled from Saratoga to the Mt Carmel area which is west of Center Point. One tree fell across a house on Cornbrige Road near York Chapel Road.									
Sevier County									
Ben Lomond	11	1945CST			0	0			Thunderstorm Wind (G55)
Numerous trees and power lines down.									
Howard County									
Tollette	11	1950CST			0	0			Thunderstorm Wind (G60)
Numerous trees and power lines down.									
Nevada County									
Countywide	11	1950CST			0	0			Thunderstorm Wind (G60)
Numerous trees and power lines down across the county.									
Howard County									
2 W Nashville	11	2000CST			0	0			Thunderstorm Wind (G55)
Numerous trees down.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, Southwest</u>									
Sevier County									
Provo	11	2010CST			0	0			Thunderstorm Wind (G55)
			Numerous trees and power lines down.						
Nevada County									
Prescott	11	2015CST			0	0			Thunderstorm Wind (G60)
			Tin torn off a barn on County Road 28 on the south side of town.						
Howard County									
4 W Nashville	11	2300CST			0	0	130K		Thunderstorm Wind (G55)
			A chicken house had 300 feet of roof stripped off. Numerous trees down.						
Nevada County									
Emmet	12	0430CST 0520CST			0	0			Flash Flood
			Motorists were stranded along Highway 299 between Emmet and Laneburg due to high water.						
Miller County									
Texarkana	16	0720CST 1120CST			0	0			Flash Flood
			Dave Hall, director of the office of emergency preparedness, said most underpasses in the city were flooded. Some cars were submerged and others were washed off the road. A couple of houses were evacuated. The city did not receive reports of widespread damage but several houses had water in them according to Hall. No injuries were reported, but there there were some close calls. A 4 month old baby was rescued from a car near Wadley Regional Medical Center when floodwaters overwhelmed the vehicle.						
Lafayette County									
4 N Lewisville	16	1010CST			0	0	8K		Thunderstorm Wind (G48)
			A tree fell on a home along Highway 29 while another home suffered wind damage. Metal poles holding bird houses were bent in half by the strong winds.						
Hempstead County									
Hope	17	0515CST 0830CST			0	0			Flash Flood
			Several streets and roads under high water.						
<u>ATLANTIC OCEAN</u>									
Tidal Potomac Key Bridge To Indian Hd Md									
Rnld Reagan Natl Arpt Chesapeake Bay Pooles Is To Sandy Pt Md	11	2000EST			0	0			Marine Tstm Wind
12 NW Riviera Beach to 12 N Riviera Beach	11	2040EST			0	0			Marine Tstm Wind
Chesapeake Bay Pooles Is To Sandy Pt Md	11	2045EST			0	0			Marine Tstm Wind
2 NE Riviera Beach	11	2045EST			0	0			Marine Tstm Wind
Chesapeake Bay Pooles Is To Sandy Pt Md	11	2112EST			0	0			Marine Tstm Wind
Tolchester Beach Chesapeake Bay Sandy Pt To N Beach Md	11	2135EST			0	0			Waterspout
9 E Annapolis	11	2135EST			0	0			Waterspout
Tidal Potomac Key Bridge To Indian Hd Md									
Rnld Reagan Natl Arpt Chesapeake Bay Sandy Pt To N Beach Md	12	1655EST			0	0			Marine Tstm Wind
4 SE Annapolis	12	1710EST			0	0			Marine Tstm Wind
Chesapeake Bay Sandy Pt To N Beach Md	12	1730EST			0	0			Marine Tstm Wind
Annapolis	12	1730EST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ATLANTIC OCEAN</u>									
Chesapeake Bay Pooles Is To Sandy Pt Md									
Tolchester Beach	12	1748EST			0	0			Marine Tstm Wind
Chesapeake Bay New Pt Comfort To Cp Henry Va									
New Point Comfort to Cape Henry	13	2100EST			0	0			Marine Tstm Wind
Wind gust of 34 knots measured at the Chesapeake Bay Bridge Tunnel.									
Tidal Potomac Cobb Is Md To Smith Pt Va									
7 NW Coltons Pt	14	1400EST			0	0			Marine Tstm Wind
Tidal Potomac Indian Hd To Cobb Is Md									
Cobb Island	14	1400EST			0	0			Marine Tstm Wind
Tidal Potomac Key Bridge To Indian Hd Md									
Woodbridge	14	1400EST			0	0			Marine Tstm Wind
Long Island Sound W Of New Haven Ct To Port Jefferson Ny									
Eatons Neck	14	1450EST			0	0			Marine Tstm Wind
As a thunderstorm moved southeast, a sail boat measured a peak wind gust to 48 knots along with lightning and heavy rain.									
Tidal Potomac Key Bridge To Indian Hd Md									
2 NE Woodbridge	27	1404EST			0	0			Marine Tstm Wind
Chesapeake Bay Sandy Pt To N Beach Md									
5 SE Annapolis	27	1512EST			0	0			Marine Tstm Wind
Chesapeake Bay N Beach To Drum Pt Md									
20 E Plum Pt	27	1515EST			0	0			Marine Tstm Wind
Merrimack River Ma And Out 20Nm To Plymouth Ma And Out 40Nm									
Rockport	27	1542EST			0	0			Marine Hail
Merrimack River Ma And Out 20Nm To Plymouth Ma And Out 40Nm									
Stellwagen Bank to Rockport	27	1613EST			0	0			Marine Tstm Wind
Merrimack River Ma And Out 20Nm To Plymouth Ma And Out 40Nm									
Stellwagen Bank	30	1315EST			0	0			Marine Tstm Wind
Merrimack River Ma To Watch Hill Ri 25 To 40Nm									
Stellwagen Bank	30	1315EST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

June 2003

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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ATLANTIC OCEAN

Block Island Sound

Block Island Airport	30	1613EST			0	0			Marine Tstm Wind
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CALIFORNIA, Extreme Southeast

NONE REPORTED.

CALIFORNIA, North Central

NONE REPORTED.

CALIFORNIA, Northeast

Lassen County

Bieber	18	1445PST 1500PST			0	0			Hail (0.75)
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A storm spotter 10 miles east of Bieber in northern Lassen County reported 3/4 inch diameter hail from a thunderstorm.

Nevada County

Boca	23	1310PST 1315PST			0	0			Hail (0.75)
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A storm spotter reported 3/4 inch diameter hail in the Hirschdale area, near Boca Reservoir.

CALIFORNIA, Northwest

NONE REPORTED.

CALIFORNIA, South Central

Merced County

4 S Merced	02	0920PST 1700PST			0	0	15K		Wildfire
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The McNamera Fire was of unknown origin and burned about 650 acres before containment. One primary structure was lost but no injuries or fatalities were reported.

CAZ089>092

W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley

02	1200PST				0	0			Excessive Heat
03	1800PST								

The first major warm spell came upon Interior Central California suddenly at the first of June after a relatively cool April and May time period. Several high minimum temperature records were set on the morning of the 3rd beneath strong high pressure and light wind conditions for the Central and South San Joaquin Valley.

Kern County

30 SSW Bakersfield	06	0914PST 1600PST			0	0	55K		Wildfire
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The Shallock Fire was of human origin and burned about 564 acres before containment. No structure was lost nor were injuries or fatalities reported.

Merced County

23 W Los Banos	15	1350PST			0	0			Wildfire
	16	0530PST							

The 152 Fire was of unknown origin and burned 2750 acres in Western Merced County. The cost of the fire was unknown but no structures were lost nor were there any injuries.

Kern County

1.5 W Caliente	16	2122PST			0	0			Wildfire
	17	1500PST							

The Caliente Fire consumed 1233 acres just west of Caliente in the foothills of Kern County. The cause and cost of the fire were unknown.

CAZ095-098>099

Kern Cty Mtns - Indian Wells Vly - Se Kern Cty Desert

23	1540PST				0	0	3K		Strong Wind
	2300PST								

Gusty wind swept over the Kern County Mountains and Deserts on the evening of the 23rd.

CAZ089>092

W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley

25	1500PST				0	0			Excessive Heat
29	1800PST								

Like the first part of the month, June ended with a persistent warm spell where high temperatures in the Central and Southern San Joaquin Valley were consistently 100 degrees F. or above for a stretch of 5 days.

Storm Data and Unusual Weather Phenomena

June 2003

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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CALIFORNIA, South Central

Kern County

3 N Lake Isabella	26	1521PST			0	0	800K		Wildfire
	29	0500PST							

The Sawmill fire at Dutch Flat consumed 536 acres and burned 4 primary residences and 6 outbuildings. There were no fatalities on the fire that cost \$800K to combat.

Tulare County

10 SW Camp Nelson	28	1103PST			0	0			Wildfire
	29	1700PST							

The Chimney Fire was human caused and the cost to contain the 565 acre fire was unknown. No fatalities occurred due to the fire.

Kern County

3 N Lebec	29	1311PST			0	0	1.6M		Wildfire
	30	2359PST							

The Tejon Fire burned 1155 acres in the Tehachapi Mountains of Kern County at a cost of \$1.59M. One travel trailer was destroyed but no fatalities occurred.

Kern County

16 NW Lake Isabella	29	1521PST			0	0			Wildfire
	30	0800PST							

The Royce fire origination was unknown but it destroyed 2 outbuildings and the cost to combat was undetermined. There were no fatalities.

Merced County

5 SW Los Banos	30	1715PST			0	0			Wildfire
		2000PST							

The I5 Fire was human caused and burned 1500 acres before containment on the 30th. The cost was unknown.

CALIFORNIA, Southeast

NONE REPORTED.

CALIFORNIA, Southwest

San Bernardino County

Phelan	13	1330PST			0	0	10K		Wildfire
		2100PST							

A brush fire consumed 48 acres, one power pole, and threatened one structure.

San Bernardino County

Hesperia	15	1600PST			0	1			Wildfire
	16	2300PST							

A brush fire consumed 80 acres. One fire fighter suffered a broken leg. when a large rock rolled down the hillside into him.

San Diego County

Carlsbad to Del Mar	24	1200PST			0	4			Rip Current
		1600PST							

Crowds flocked to the beaches on the first warm sunny day of summer. San Diego County Lifeguards rescued 26 people caught in rip currents, formed in the 2 to 4 foot surf, and advised another 639 people to avoid existing rip currents.

Riverside County

Mecca	26	1042PST			0	2			Wildfire
	27	0700PST							

A brush fire grew to 324 acres, threatening 120 structures, and forcing the evacuation of 300 residents from the Torres Martinez Indian Reservation. Two fire fighters suffered from smoke inhalation.

Orange County

Huntington Beach	26	1240PST			1	0			Rip Current
		1600PST							

Lifeguard rescues from rip currents had been averaging 80 people per day all week. On Thursday, June 26, an estimated 45,000 people crowded to the beaches of Orange County. Of these, lifeguards rescued 40 from rip currents, however one 14 year old boy disappeared in a rip current and drowned. His body washed ashore three days later. M14IW

Riverside County

Corona	26	1330PST			0	0			Wildfire
		1600PST							

Temperatures above 100 degrees and low relative humidities helped three brush fires to grow rapidly. One closed part of Highway 91 for about an hour.

Storm Data and Unusual Weather Phenomena

June 2003

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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CALIFORNIA, Southwest

Riverside County

5 E Corona	30	1300PST 1600PST			0	0			Wildfire
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Riverside County

11.5 E Murrieta	30	1300PST 1700PST			0	1			Wildfire
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San Diego County

8 E El Cajon	30	1345PST 2359PST			0	4			Wildfire
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Temperatures near 100 degrees and tinder dry brush led to a series of wildfires during the afternoon. One fire burned 300 acres in the hilly terrain northeast of Lake Skinner. A second brush fire in Riverside County burned 65 acres near Lake Matthews. A third brush fire in rugged terrain of east San Diego County was still out of control as the month of June ended. Five Fire fighters were overcome by heat exhaustion.

CALIFORNIA, Upper

CAZ084>085

Northeast Siskiyou And Northwest Modoc Counties - Modoc County

10	1451PST				0	0			Extreme Cold/Wind Chill
11	0800PST								

See below.

A Frost Warning was issued this night for California zones CAZ084/085. No frost was reported, but reported low temperatures ranged from 39 to 46, so some frost likely did occur, although it was likely isolated.

CAZ084>085

Northeast Siskiyou And Northwest Modoc Counties - Modoc County

21	2044PST				0	0			Extreme Cold/Wind Chill
22	0800PST								

See below.

A Frost Warning was issued this night for California zones CAZ084/085. No frost was reported, but reported low temperatures ranged from 37 to 46, so some frost likely did occur, although it was likely isolated.

CAZ084>085

Northeast Siskiyou And Northwest Modoc Counties - Modoc County

22	1444PST				0	0			Extreme Cold/Wind Chill
23	0327PST								

See below.

A Frost Warning was issued this night for California zones CAZ084/085, but it was canceled early due to cloud cover. No frost was reported, but reported low temperatures ranged from 31 to 42, so some frost likely did occur.

CALIFORNIA, West South Central

NONE REPORTED.

CALIFORNIA, Western

NONE REPORTED.

CARIBBEAN SEA AND TROPICAL ATLANTIC

St Augustine To Flagler

Beach Fl Out 20Nm

6 NNW Crescent Beach	01	2233EST			0	0			Marine Tstm Wind
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St. Augustine Pier CMAN Site Ob.

Biscayne Bay

16 NE Turkey Point	03	1300EST			0	0			Marine Tstm Wind
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Deerfield Beach To

Ocean Reef Fl

5 S Government Cut	03	1300EST			0	0			Marine Tstm Wind
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Fowey Rocks Light measured a thunderstorm wind gust of 36 knots.

Fernandina Beach To

St Augustine Fl Out

20Nm

20 NNE Jacksonville Be	03	1350EST			0	0			Marine Tstm Wind
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Amelia Island research vessel 200 yards offshore. Vessel has a Davis Instruments weather station onboard.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
CARIBBEAN SEA AND TROPICAL ATLANTIC									
Cocoa Beach To Jupiter Inlet Fl Out 20Nm									
Patrick Afb	03	1359EST			0	0	0	0	Marine Tstm Wind
A Patrick AFB recorded a wind gust to 37 knots from a thunderstorm.									
St Augustine To Flagler Beach Fl Out 20Nm									
20 SE Crescent Beach	03	1420EST			0	0			Marine Tstm Wind
Flagler Beach fire station.									
Altamaha Sd To Fernandina Beach Fl Out 20Nm									
5 E Brunswick	03	1503EST			0	0			Marine Tstm Wind
St Simons Island McKinnon Airport ASOS.									
Savannah Ga To Altamaha Sd Ga Out 20Nm									
20 SE Tybee Island	03	1600EST			0	0			Marine Tstm Wind
Savannah Ga To Altamaha Sd Ga Out 20Nm									
Tybee Island	03	1630EST			0	0			Marine Tstm Wind
Charleston Harbor									
The Charleston Battry	03	1810EST			0	0			Marine Tstm Wind
Flagler Beach To Cocoa Beach Fl Out 20Nm									
5 N Cape Canaveral	04	1530EST			0	0	0	0	Marine Tstm Wind
A NASA weather tower recorded a wind gust to 43 knots from a thunderstorm.									
Biscayne Bay									
15 NE Turkey Point	07	0800EST			0	0			Marine Tstm Wind
Deerfield Beach To Ocean Reef Fl									
5 S Government Cut	07	0800EST			0	0			Marine Tstm Wind
A thunderstorm wind gust of 43 knots was measured at Fowey Rocks Light.									
Flagler Beach To Cocoa Beach Fl Out 20Nm									
10 N Cape Canaveral	07	1505EST			0	0	0	0	Marine Tstm Wind
The public in Scottsmoor reported a wind gust of 50 mph near the Intracoastal Waterway.									
Cocoa Beach To Jupiter Inlet Fl Out 20Nm									
3 E St. Lucie Inlet	08	1535EST			0	0	0	0	Waterspout
Local law enforcement officials reported a waterspout just east of St. Lucie Inlet.									
Biscayne Bay									
5 N Turkey Point	10	1553EST			0	0			Waterspout
A waterspout was sighted in Biscayne Bay one mile east of Black Point Marina by a SKYWARN spotter.									
Biscayne Bay									
15 NE Turkey Point	22	1700EST			0	0			Marine Tstm Wind
Deerfield Beach To Ocean Reef Fl									
5 S Government Cut	22	1700EST			0	0			Marine Tstm Wind
A thunderstorm wind gust of 50 knots was measured at Fowey Rocks Light.									
Biscayne Bay									
16 NE Turkey Point	23	1400EST			0	0			Marine Tstm Wind
Deerfield Beach To Ocean Reef Fl									
5 S Government Cut	23	1400EST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

June 2003

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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CARIBBEAN SEA AND TROPICAL ATLANTIC

Fowey Rocks Light measured a thunderstorm wind gust of 45 knots.

Biscayne Bay

20 N Turkey Point	26	0855EST			0	0			Waterspout
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A waterspout was sighted in Biscayne Bay just southwest of Cape Florida.

Jupiter Inlet To Deerfield Beach Fl 20 To 60Nm

5 S Jupiter Inlet	26	1636EST			0	0			Waterspout
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A SKYWARN spotter sighted a waterspout in the Atlantic just offshore Juno Beach.

Deerfield Beach To Ocean Reef Fl

8 SE Port Everglades	27	0703EST			0	0			Waterspout
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A pilot reported a waterspout in the Atlantic.

Jupiter Inlet To Deerfield Beach Fl 20 To 60Nm

1 E Jupiter Inlet	27	0816EST			0	0			Waterspout
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The police reported a waterspout in the Atlantic.

Flagler Beach To Cocoa Beach Fl Out 20Nm

5 N Cape Canaveral	28	1720EST			0	0	0	0	Marine Tstm Wind
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A NASA weather tower recorded a wind gust to 38 knots from a thunderstorm.

Fernandina Beach To St Augustine Fl 20 To 60Nm

55 ESE Jacksonville Bea	29	1420EST			0	0			Marine Tstm Wind
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St. Augustine Buoy, Buoy #41012.

COLORADO, Central and Northeast

Weld County

Briggsdale	01	1725MST			0	0			Hail (0.75)
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Morgan County

2 E Goodrich	01	2220MST			0	0			Hail (1.50)
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Morgan County

Wiggins	01	2223MST			0	0			Thunderstorm Wind (G55)
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Adams County

36 NE Bennett	01	2259MST			0	0			Hail (0.88)
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Weld County

3 NNE Platteville	02	1754MST			0	0			Hail (0.75)
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Denver County

16 NE Denver	02	1814MST			0	0			Thunderstorm Wind (G50)
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Denver County

12 NE Denver	02	1814MST			0	0			Thunderstorm Wind (G52)
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Douglas County

9 SE Parker	02	1814MST			0	0			Thunderstorm Wind (G61)
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Douglas County

9 SE Parker	02	1815MST			0	0			Hail (1.00)
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Adams County

14 NW Bennett	02	1827MST			0	0			Thunderstorm Wind (G52)
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Denver County

12 NE Denver	02	1828MST			0	0			Thunderstorm Wind (G61)
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Arapahoe County

19 SE Byers	02	1851MST			0	0			Hail (1.00)
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Lincoln County

14 S Boyero	02	1857MST			0	0			Thunderstorm Wind (G50)
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Strong thunderstorm winds downed several tree limbs, up to 8 inches in diameter.

Storm Data and Unusual Weather Phenomena

June 2003

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, Central and Northeast</u>									
Elbert County									
13 NNW Kiowa	02	1900MST			0	0			Hail (1.50)
Elbert County									
15 NW Kiowa	02	1905MST			0	0			Hail (0.75)
Douglas County									
5 SE Parker	02	1906MST			0	0			Hail (1.50)
Arapahoe County									
5 SE Byers	03	1902MST			0	0			Hail (0.75)
Elbert County									
Agate	03	1925MST			0	0			Hail (0.75)
Lincoln County									
Genoa	03	1955MST			0	0			Hail (1.00)
Lincoln County									
14 S Limon	03	2020MST			0	0			Hail (1.75)
Hail and strong winds caused extensive damage to crops in Elbert and Lincoln Counties. An estimated 5000-6000 acres of wheat was lost in the storms.									
Morgan County									
Weldona	06	1614MST			0	0			Hail (0.75)
Weld County									
4 SE Hudson	06	1643MST			0	0			Hail (0.75)
Grand County									
Kremmling	06	1700MST			0	0	0		Thunderstorm Wind (G60)
Strong thunderstorm winds damaged the roof of West Grand Elementary School. The wind lifted large sections of rolled roofing and styrofoam insulation and blew it off the roof.									
Adams County									
Strasburg	06	1711MST	0.1	50	0	0	0	0	Tornado (F0)
A small tornado touched down but did no damage.									
Washington County									
5 S Lindon	06	1725MST			0	0			Thunderstorm Wind (G52)
Strong thunderstorm winds damaged some trees.									
Washington County									
5 SE Lindon	06	1728MST			0	0			Hail (0.75)
Washington County									
11 S Last Chance	06	1741MST			0	0			Hail (1.00)
Arapahoe County									
3 E Deer Trail	06	1743MST			0	0			Hail (1.75)
Washington County									
15 SE Lindon	06	1750MST			0	0			Hail (0.75)
Elbert County									
Cedar Pt	06	1813MST	0.1	50	0	0	0	0	Tornado (F0)
A small tornado touched down but did no damage.									
Lincoln County									
1 N Genoa	06	1836MST	0.1	50	0	0	0	0	Tornado (F0)
A small tornado touched down but did no damage.									
Lincoln County									
5 SSW Limon	06	1845MST			0	0			Hail (1.00)
Lincoln County									
2 SE Genoa	06	1855MST	0.1	50	0	0	0	0	Tornado (F0)
A small tornado touched down but did no damage.									
Douglas County									
3 N Parker	10	1502MST			0	0			Hail (1.75)
Arapahoe County									
(Apa)Engwood Arapah	10	1508MST			0	0			Hail (1.75)
Douglas County									
Parker	10	1530MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>COLORADO, Central and Northeast</u>									
Washington County									
7 N Otis	10	1609MST			0	0			Hail (0.75)
Douglas County									
9 N Sedalia	12	1430MST			0	0	0		Lightning
Lightning blew a hole in the roof of a home in Highlands Ranch. The bolt knocked several holes in the bedroom ceilings and damaged the home's electrical system.									
Adams County									
38 E Bennett	14	1600MST			0	0			Hail (1.75)
Elbert County									
5 W Kutch	14	1748MST			0	0			Hail (0.75)
Morgan County									
1 S Ft Morgan	16	1735MST			0	0			Hail (1.75)
Adams County									
East Portion	16	1800MST 1930MST			0	0			Flash Flood
Thunderstorms producing heavy rain caused flash flooding across extreme eastern sections of Adams County. Approximately 11 to 12 miles south of Leader, there was 1 to 2 feet of water covering the roadway. The highway department reportedly did major work on the road the following day, to fix the damage caused by the flooding.									
Morgan County									
12 NE Ft Morgan	16	1811MST			0	0			Hail (0.75)
Morgan County									
Brush	16	1820MST			0	0			Hail (0.75)
Morgan County									
Brush	16	1830MST 2100MST			0	0			Flash Flood
Thunderstorms producing heavy rain caused flash flooding in the Brush area. Many streets in Brush were covered with up to 6 inches of standing water. Several homes and businesses in town were also flooded.									
Douglas County									
Greenland	17	1326MST			0	0			Hail (1.00)
Denver County									
Denver	17	1330MST			0	0	0		Lightning
Lightning struck a home causing a small attic fire.									
Arapahoe County									
1 S (Apa)Englwood Ara	17	1420MST			0	0			Hail (1.00)
Arapahoe County									
Littleton	17	1430MST			0	0	0		Lightning
Lightning struck a feeder line, knocking out electricity to approximately 3000 residents.									
Boulder County									
Lafayette	17	2129MST			0	0	0		Lightning
A lightning strike caused extensive damage to a residence in Lafayette as it sparked a fire in the attic.									
Boulder County									
Louisville	17	2132MST			0	0	0		Lightning
Another lightning strike caused minor roof and attic damage to a residence in Louisville.									
Larimer County									
Southeast Portion	18	2015MST 2135MST			0	0			Flash Flood
Heavy rain caused flash flooding across portions of southeast Larimer County. Water, up to 3 feet deep, covered County Road 16, just west of State Highway 287. Portions of County Road 32C, near Masonville, were also washed out. The water also washed away a large water tank, approximately 200 yards from the owner's property. A portion of another person's chain link fence was also washed out.									
Adams County									
East Portion	18	2030MST 2200MST			0	0			Flash Flood
Heavy rain caused flash flooding east of Leader. Water, up to 6 inches deep, ran over bridges. In addition, several locations along Irondale Road had water flowing over them.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>COLORADO, Central and Northeast</u>									
Douglas County									
Southwest Portion	19	1510MST 1600MST			0	0			Flash Flood
Heavy rain caused flash flooding problems near the Hayman burn area. Flooding occurred at the YMCA Shady Brook Camp south of Deckers. The only access road to the camp site was washed out by floodwaters and closed temporarily.									
Park County									
2 NE Bailey	20	1048MST			0	0			Thunderstorm Wind (G61)
Jefferson County									
Golden	20	1125MST			0	0			Hail (0.75)
Douglas County									
5 SW Parker	20	1140MST			0	0			Hail (0.75)
Arapahoe County									
(Apa)Englwood Arapah	20	1154MST			0	0			Hail (0.75)
Denver County									
Denver	20	1200MST			0	0			Hail (0.75)
Jefferson County									
Arvada	20	1200MST			0	0			Hail (0.88)
Adams County									
4 S Bennett	20	1405MST			0	0			Hail (1.00)
Adams County									
1 W Strasburg	20	1415MST			0	0			Hail (1.00)
Morgan County									
Ft Morgan	20	1416MST			0	0			Hail (1.00)
Adams County									
33 E Bennett	20	1520MST			0	0			Hail (0.88)
Morgan County									
10 S Ft Morgan	20	1537MST			0	0			Hail (1.50)
Morgan County									
5 S Brush	20	1600MST			0	0			Hail (1.75)
Washington County									
3 S Elba	20	1630MST			0	0			Hail (1.25)
Logan County									
6 S Sterling	20	1653MST	0.1	50	0	0	0	0	Tornado (F0)
A small tornado touched down but did no damage.									
Phillips County									
4 E Haxtun	20	1750MST			0	0			Thunderstorm Wind (G54)
Sedgwick County									
Julesburg	20	1800MST			0	0			Thunderstorm Wind (G61)
Strong thunderstorm winds reportedly downed some power poles just north of Julesburg. In addition, a tree was uprooted and a storage shed destroyed south and west of the town.									
Weld County									
4 NW Hudson	22	1905MST 1915MST			0	0			Hail (0.75)
Boulder County									
8 ENE Boulder	22	1924MST 1925MST			0	0			Hail (0.75)
Weld County									
Erie	22	1929MST			0	0			Hail (0.75)
Weld County									
Ft Lupton	22	1946MST 1953MST			0	0			Hail (2.00)
Hail, larger than golfballs, caused extensive damage to the greens at the Coyote Creek Golf Course. In addition, State Farm received approximately 100 claims for vehicle damage, and 50 claims for home damage.									
Larimer County									
Wellington	23	2105MST			0	0			Hail (1.25)

Storm Data and Unusual Weather Phenomena

June 2003

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, Central and Northeast</u>									
Larimer County									
Wellington	23	2111MST			0	0			Hail (1.50)
Sedgwick County									
10 SSW Sedgwick	28	1738MST			0	0			Hail (1.50)
Phillips County									
9 NE Haxtun	28	1756MST			0	0			Hail (1.50)
Phillips County									
4 E Haxtun	28	1804MST			0	0			Hail (0.88)
Phillips County									
4 E Haxtun	28	1804MST			0	0			Thunderstorm Wind (G54)
Phillips County									
9 SW Holyoke	28	1805MST			0	0			Thunderstorm Wind (G60)
The combination of large hail and strong winds proved to be too much for crops in western Phillips County. One farmer had approximately 240 acres of wheat extensively damaged.									
Douglas County									
Parker	29	1445MST			0	0			Hail (1.00)
Weld County									
9 E Prospect	29	1650MST			0	0			Hail (0.75)
Morgan County									
2 E Ft Morgan	29	1836MST			0	0			Hail (0.75)
Phillips County									
2.5 E Amherst	29	2050MST			0	0			Thunderstorm Wind (G61)
<u>COLORADO, East Central</u>									
Cheyenne County									
2 E Cheyenne Wells to 3.5 ESE Cheyenne Wells	01	1255MST 1312MST	1.5	20	0	0			Tornado (F0)
A fence received minor damage.									
Cheyenne County									
5 ENE Arapahoe to 5.5 ENE Arapahoe	01	1259MST 1304MST	0.8	30	0	0			Tornado (F0)
Cheyenne County									
9 SW Cheyenne Wells	01	1305MST 1308MST	0.3	20	0	0			Tornado (F0)
Cheyenne County									
4 SE Cheyenne Wells	01	1305MST 1307MST	0.3	20	0	0			Tornado (F0)
Cheyenne County									
4 ESE Arapahoe	01	1312MST 1314MST	0.3	20	0	0			Tornado (F0)
Cheyenne County									
4 SE Arapahoe	01	1315MST 1318MST	0.5	30	0	0			Tornado (F0)
Cheyenne County									
6 SE Cheyenne Wells	01	1324MST 1328MST	0.3	20	0	0			Tornado (F0)
Kit Carson County									
Burlington	01	1515MST 1715MST			0	0			Flash Flood
Law enforcement reports 1-2 feet of water across some city streets.									
Kit Carson County									
Burlington	01	1515MST			0	0			Thunderstorm Wind (G61)
Tree blown down. Diameter was 18 inches.									
A slow moving surface boundary resulted in rapid development of thunderstorms during the early afternoon hours of June 1st across eastern Kit Carson and Cheyenne counties in eastern Colorado. A small outbreak of landspout type tornadoes occurred over a 30 minute period as the storms developed. Although all tornadoes occurred over open county with minimal or no damage...some of the tornadoes were witnessed for 10 to 15 minutes by off-duty NWS employees and the general public. Weak winds aloft and slow									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time		Path		Number of		Estimated		Character of Storm
		Local/ Standard		Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
<u>COLORADO, East Central</u>										
Cheyenne County										
10 SSW Wild Horse	02	2115MST				0	0			Hail (0.75)
										Dime-size hail covered the ground.
Cheyenne County										
10 SSW Wild Horse	02	2115MST				0	0			Thunderstorm Wind (G70)
										Six-inch tree limbs down.
Kit Carson County										
15 N Stratton	04	1040MST	0.1	20		0	0			Tornado (F0)
										Brief touchdown. No damage.
Kit Carson County										
16 N Flagler	06	1805MST				0	0			Hail (1.75)
Cheyenne County										
5 S Cheyenne Wells	06	1959MST				0	0			Hail (0.75)
Kit Carson County										
Stratton	09	1650MST				0	0			Thunderstorm Wind (G61)
										Trees uprooted.
Kit Carson County										
Burlington Arpt	09	1720MST				0	0			Thunderstorm Wind (G51)
Yuma County										
6 SW Idalia	10	1840MST				0	0			Hail (0.75)
Kit Carson County										
11 N Bethune	10	1857MST				0	0			Hail (0.75)
Kit Carson County										
5 N Burlington	11	1914MST				0	0			Hail (0.75)
Kit Carson County										
12 E Burlington	12	1855MST				0	0			Hail (0.75)
Kit Carson County										
10 E Burlington	12	1944MST				0	0			Hail (0.88)
Kit Carson County										
12 E Burlington	12	2000MST				0	0			Hail (0.75)
Cheyenne County										
5 ENE Kit Carson	13	1746MST				0	0			Hail (0.88)
Cheyenne County										
5 ENE Kit Carson	13	1805MST				0	0			Hail (0.75)
Kit Carson County										
Burlington	14	1730MST				0	0			Hail (0.88)
Kit Carson County										
Burlington	14	1740MST				0	0			Hail (0.75)
Kit Carson County										
Burlington	14	1745MST				0	0			Hail (1.00)
Cheyenne County										
13 N Kit Carson	14	2005MST				0	0			Hail (0.88)
Yuma County										
18 N Yuma	17	1900MST				0	0			Hail (1.00)
COZ092										
Cheyenne County										
	19	1527MST				0	0			Flood
										Law enforcement reports 6 inches of water flowing across US Highway 40 near Arapahoe, Colorado.
Cheyenne County										
9 N Kit Carson	20	1530MST				0	0			Hail (0.75)
Yuma County										
4 N Joes	20	1655MST				0	0			Thunderstorm Wind (G52)
										Spotter reported 8 to 10 inch diameter tree branches down.
Kit Carson County										
7 S Vona	20	1712MST				0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Yuma County									
14 N Wray	20	1730MST			0	0			Hail (0.75)
Yuma County									
14 N Wray	20	1730MST			0	0			Thunderstorm Wind (G52)
Public reported 10-inch tree branches down.									
Kit Carson County									
2 S Burlington Arpt	24	2100MST			0	0			Hail (0.88)
Yuma County									
5 N Joes	28	1743MST			0	0			Hail (0.88)
Yuma County									
3 SW Abarr	28	1744MST			0	0			Hail (1.75)
Yuma County									
30 S Yuma	28	1745MST			0	0			Hail (0.75)
		1810MST							
Dime size hail fell for 25 minutes.									
Yuma County									
Joes	28	1753MST			0	0			Hail (1.00)
Yuma County									
2 SE Joes	28	1815MST			0	0			Hail (0.75)
Yuma County									
Clarkville	28	1825MST			0	0			Hail (1.00)
Yuma County									
2 E Clarkville	28	1827MST			0	0			Hail (1.75)
Yuma County									
Clarkville	28	1830MST			0	0			Hail (1.00)
Yuma County									
3.5 E Clarkville	28	1830MST			0	0			Hail (1.25)
Vinyl siding on north side of home severely damaged by wind and hail. 850 acres of crop damaged.									
Yuma County									
2.3 ENE Clarkville	28	1830MST			0	0			Thunderstorm Wind (G59)
Yuma County									
Eckley	28	1835MST			0	0			Hail (1.75)
Cheyenne County									
16 E Cheyenne Wells	28	1857MST			0	0			Hail (1.75)
Yuma County									
Yuma	28	1910MST			0	0			Thunderstorm Wind (G52)
<u>COLORADO, South Central and Southeast</u>									
Otero County									
5 NW La Junta to	01	1240MST			0	0			Thunderstorm Wind (G52)
4 N La Junta		1250MST							
Las Animas County									
1 N Branson	02	1520MST			0	0			Hail (1.00)
		1525MST							
Kiowa County									
Haswell	02	2120MST			0	0			Hail (0.75)
		2125MST							
Bent County									
3 NE Mc Clave	02	2140MST			0	0			Hail (0.75)
		2145MST							
Prowers County									
Lamar	02	2202MST			0	0			Thunderstorm Wind (G56)
Pueblo County									
25 SE Pueblo	02	2210MST			0	0			Hail (1.25)
		2215MST							

Storm Data and Unusual Weather Phenomena

June 2003

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>									
El Paso County									
3 NW Colorado Spgs	03	1415MST 1420MST			0	0			Hail (0.75)
El Paso County									
Ramah	03	2007MST 2012MST			0	0			Hail (1.00)
Kiowa County									
3 NW Haswell	06	2020MST 2022MST	1	75	0	0			Tornado (F0)
		A brief tornado occurred over open country with no known damage.							
Kiowa County									
Haswell	06	2025MST 2030MST			0	0			Hail (1.75)
Bent County									
10 N Las Animas	06	2055MST 2100MST			0	0			Hail (2.75)
Fremont County									
Penrose	10	1508MST 1513MST			0	0			Hail (0.75)
Otero County									
Fowler	10	1642MST 1647MST			0	0			Hail (0.75)
Prowers County									
21 S Holly	11	1600MST 1605MST			0	0			Hail (1.00)
Las Animas County									
2 N Branson	13	1240MST 1245MST			0	0			Hail (0.75)
Las Animas County									
Kim	13	1255MST 1300MST			0	0			Hail (0.75)
Pueblo County									
Pueblo	13	1412MST 1417MST			0	0			Hail (0.75)
El Paso County									
5 SW Ellicott	14	1605MST 1610MST			0	0			Hail (0.75)
El Paso County									
6 N Colorado Spgs	16	1635MST 1649MST			0	0			Hail (0.75)
El Paso County									
5 S Calhan	16	1750MST 1755MST			0	0			Hail (0.75)
El Paso County									
7 SE Monument	17	1300MST 1305MST			0	0			Hail (0.75)
El Paso County									
Palmer Lake	17	1316MST 1321MST			0	0			Hail (0.75)
El Paso County									
6 NNE Colorado Spgs	17	1400MST 1405MST			0	0			Hail (0.75)
Pueblo County									
3 SW Pueblo to 4 NE Pueblo	20	1310MST 1405MST			0	0	4M		Hail (1.75)

A couple of slow moving thunderstorms dropped large hail on parts of Pueblo from the southwest to northeast. There was damage primarily to the roofs of structures and vehicles.

Storm Data and Unusual Weather Phenomena

June 2003

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>									
El Paso County									
2 S Truckton	20	1433MST 1438MST			0	0			Hail (0.75)
Kiowa County									
11 S Eads	20	1502MST 1507MST			0	0			Hail (0.75)
Baca County									
7 N Vilas	27	1550MST 1555MST			0	0			Hail (1.50)
Baca County									
17 SE Springfield	27	1630MST 1635MST			0	0			Hail (1.00)
Las Animas County									
5 NW Trinidad to 5 NW Trinchera	27	2130MST 2135MST			0	0			Hail (1.00)
Bent County									
Ft Lyon	28	1603MST 1608MST			0	0			Hail (0.88)
El Paso County									
2 E Monument	28	1625MST 1630MST			0	0			Hail (0.75)
Kiowa County									
Haswell to 1 E Haswell	28	1655MST 1700MST			0	0			Hail (1.00)
Custer County									
7 W Westcliffe	29	1515MST 1520MST			0	0			Hail (1.00)
Custer County									
7 W Westcliffe	29	1520MST 1540MST			0	0			Hail (0.88)
Las Animas County									
3 E Thatcher	29	1735MST 1740MST			0	0			Hail (1.75)
Otero County									
5 SSE La Junta	29	1918MST 1923MST			0	0			Hail (1.25)
Otero County									
3 S La Junta	29 30	2340MST 0400MST			0	0			Flash Flood

Thunderstorms with very heavy rainfall produced some flash flooding in the vicinity of La Junta...especially southern areas. Water reached the doorsteps of some resident's homes while arroyo's were running at and even occasionally over their banks.

COLORADO, West

COZ001>014-017>023 Lower Yampa River Basin - Central Yampa River Basin - Roan And Tavaputs Plateaus - Elkhead And Park Mountains - Upper Yampa River Basin - Grand Valley - Debeque To Silt Corridor - Central Colorado River Basin - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys - Central Gunnison And Uncompahgre River Basin - West Elk And Sawatch Mountains - Flattop Mountains - Upper Gunnison River Valley - Uncompahgre Plateau And Dallas Divide - Northwestern San Juan Mountains - Southwestern San Juan Mountains - Paradox Valley / Lower Dolores River Basin - Four Corners / Upper Dolores River Basin - Animas River Basin - San Juan River Basin

01 0000MST 0 0 Drought
30 2359MST

Extreme drought conditions persisted during the month across most of the area. Hot weather and rapid snowmelt led to sharp increases in surface water in parts of northwest Colorado resulting in a slight improvement of drought conditions. Please see the July 2003 Storm Data publication for a continuation of this drought situation.

COZ010

Gore And Elk Mountains/Central Mountain Valleys

01 1200MST 0 0 3.2M Flood
02 0945MST

Heavy rains combined with snow melt to cause Gore Creek to rise above flood stage. More than 400 homes were ordered evacuated in

Storm Data and Unusual Weather Phenomena

June 2003

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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COLORADO, West

portions of Gore Creek to hold flood waters at bay. Interstate 70 in the Vail area was closed in both directions for several days due to a 20-by-20 foot sinkhole in the westbound lanes which formed after high water from Big Horn Creek washed out a culvert .

San Miguel County

4 SE Norwood to 6 SE Norwood	01	1215MST 1242MST			0	0			Hail (1.00)
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Hail from 3/4 inch to slightly larger than 1 inch diameter covered the ground, up to 8 inches deep in some places.

COZ005

Upper Yampa River Basin

01	1830MST			0	0	20K		Flood
02	1300MST							

Rainfall combined with rapid snow melt to cause the Yampa River to rise above flood stage. Several ranches and farm buildings adjacent to the river were flooded with up to 4 feet of water. Ditches on some of the agricultural properties were heavily damaged, and recently plowed fields lost a significant amount of topsoil. The Routt County Emergency Manager reported 8 inches of water covered the parking lot of the Steamboat Springs Holiday Inn. Additionally, a Kampgrounds Of America (KOA) facility located two miles west of Steamboat Springs was flooded with moving water up to 2 feet deep.

Archuleta County

14 NW Pagosa Spgs to 15 NW Pagosa Spgs	02 07	1700MST 1200MST			0	0		Wildfire
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The Trail Creek Fire was lightning caused and occurred in the San Juan National Forest. The fire burned 89 acres of mixed timber before being contained. The estimated cost of fighting the fire was 600 thousand dollars.

Routt County

5 SE Steamboat Spgs	02	1720MST 1725MST			0	0		Thunderstorm Wind (G56)
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Strong winds from a thunderstorm were measured at the Desert Research Institute's Storm Peak Lab.

Montezuma County

Cortez	09	1940MST			0	0		Thunderstorm Wind (G52)
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Montezuma County

Cortez Arpt	09	1943MST			0	0		Thunderstorm Wind (G52)
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COZ006

Grand Valley

16	1630MST 1635MST			0	0	10K		Strong Wind
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Strong thunderstorm winds blew over a large cottonwood tree onto a house in Palisade. Substantial damage occurred to the house. The cottonwood tree was dead, although it had a trunk diameter of about five feet.

Mesa County

1.5 W Glade Park	19	1300MST 1500MST			0	0		Heavy Rain
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A thunderstorm over the Uncompahgre Plateau produced very heavy rainfall that caused runoff of mud and water a few inches deep to flow across the road just west of the Glade Park general store. A nearby pond that had been empty for several years was filled from this single heavy rain episode.

Routt County

Steamboat Spgs	20	1130MST			0	0	5K	Thunderstorm Wind (G50)
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Power lines were downed in three locations within the city of Steamboat Springs. A tree was also blown down onto a power line at another location within the city. Some areas in Steamboat Springs were without power until 1700 MST/1800 MDT.

COZ007-021

Debeque To Silt Corridor - Four Corners / Upper Dolores River Basin

24	1130MST 2030MST			0	0	2K		Strong Wind
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A strong cold front resulted in damaging winds across portions of western Colorado. A Colorado Department of Transportation porta-potty was blown over in De Beque Canyon, and a large tree was blown down across a road near Dove Creek.

CONNECTICUT, Northeast

NONE REPORTED.

CONNECTICUT, Northwest

NONE REPORTED.

CONNECTICUT, Southern

New Haven County

Cheshire	30	1520EST			0	0		Thunderstorm Wind (G52)
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As a severe thunderstorm moved east, it produced high winds that damaged trees just west of the intersection of Route 10 (Highland Ave.) and West Johnson Ave., just south of Interstate 691. Several large trees were damaged in this vicinity. This storm was also

Storm Data and Unusual Weather Phenomena

June 2003

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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CONNECTICUT, Southern

accompanied by torrential rain.

DELAWARE

Kent County

**Hollandville to
Milford**

07	0800EST 1900EST				0	0			Heavy Rain
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Sussex County

Countywide

07	0800EST 1900EST				0	0			Heavy Rain
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Heavy rain fell during most of the daylight hours on Saturday the 7th in the southern half of Delaware. Storm totals averaged between 1.5 and 2.5 inches and caused some poor drainage flooding. Several roads in North Bowers Beach (Kent County) were closed because of flooding. Storm totals included 2.74 inches in Georgetown (Sussex County), 2.65 inches in Greenwood (Sussex County) and 2.22 inches in Milford (Sussex/Kent County Border). The low pressure system responsible for the heavy rain moved from the Gulf of Mexico the morning of the 6th into West Virginia the morning of the 7th, moved across the Delmarva Peninsula during the early evening of the 7th and just southeast of Cape Cod the morning of the 8th.

DEZ001

New Castle

07	1428EST 2145EST				0	0			Flood
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A steady rain that fell during the daylight hours coupled with saturated soil conditions from the wet weather pattern since Memorial Day Weekend caused flooding along the Christina River on the 7th. The Christina River at Coochs Bridge reached its 9 foot flood stage at 328 p.m. EDT, crested at 11.07 feet at 645 p.m. EDT and was back within bankfull at 1045 p.m. EDT. Storm totals included 1.50 inches in Newark, 1.43 inches in Wilmington and 1.42 inches at the New Castle County Airport. The low pressure system responsible for the flooding moved from the Gulf of Mexico the morning of the 6th into West Virginia the morning of the 7th, moved across the Delmarva Peninsula during the early evening of the 7th and just southeast of Cape Cod the morning of the 8th.

New Castle County

**Newark to
New Castle**

12	1850EST				0	0			Thunderstorm Wind (G52)
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A severe thunderstorm knocked down trees and wires in Middletown, Newark and New Castle in New Castle County.

New Castle County

Newark

13	2030EST				0	0	50K		Lightning
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A lightning strike sparked a natural gas fire in a Newark home. The six occupants in the house escaped without injury. Lightning hit the home's metal fireplace exhaust pipe, traveled downward to the fireplace and triggered the fire. Damage was estimated at \$50,000.

Kent County

Countywide

20	1100EST 1800EST				0	0			Heavy Rain
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A slow moving low pressure system at both the surface and aloft helped trigger heavy rain across Kent and New Castle Counties in Delaware. In Kent County, storm totals averaged between 1.0 and 2.0 inches, most of which fell during the afternoon. This caused poor drainage flooding. Storm totals included 1.21 inches at the Dover AFB.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month for Delaware. On a county weighted average, June monthly precipitation totals ranged from 5.0 inches in Sussex County to 7.1 inches in Kent County to 9.5 inches in New Castle County. Normal is around 3.5 inches. The June monthly precipitation total in Georgetown was 4.86 inches, 1.54 inches wetter than normal. The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Tobacco farmers were worrying about mold. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

DEZ001

New Castle

20	1335EST				0	0			Flood
21	1302EST								

A slow moving low pressure system at both the surface and aloft helped trigger very heavy rain across New Castle County from the late morning into the afternoon 20th. Storm totals ranged from 1.5 inches south to 4.0 inches north, most of which fell during the afternoon. Without any thunder, New Castle County Airport received 1.10 inches of rain in one hour from 323 p.m. until 423 p.m. EDT. The heavy rain led to widespread poor drainage flooding as well as flooding of most of the gaged rivers and streams in the county. The

Storm Data and Unusual Weather Phenomena

June 2003

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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DELAWARE

Delaware Department of Traffic closed about sixteen main roads throughout the county. They ran short of high water signs. Southbound U.S. Route 13 near U.S. Route 40 was at a standstill through the evening commute. Throughout the county, cars were stranded in high water. Flooding forced the evacuation of three families from the Brack-Ex development after Conectiv cut off power. The water saturated soil plus the flooding caused trees to fall. About 14,000 Conectiv customers lost power. No serious injuries were reported.

The Christina River at Coochs Bridge was above its 9 foot flood stage from 235 p.m. EDT on the 20th through 247 a.m. EDT on the 21st. It crested at 12.01 feet at 830 p.m. EDT on the 20th. The White Clay Creek at Newark was above its 13 foot flood stage from 413 p.m. EDT on the 20th through 455 a.m. EDT on the 21st. It crested at 14.97 feet at 815 p.m. EDT on the 20th. The Red Clay Creek at Wooddale was above its 5.5 foot flood stage from 400 p.m. EDT on the 20th through 441 a.m. EDT on the 21st. It crested at 9.98 feet at 745 p.m. EDT on the 20th. Farther downstream, the Red Clay Creek at Stanton was above its 15 foot flood stage from 415 p.m. EDT on the 20th through 504 a.m. EDT on the 21st. It crested at 18.46 feet at 1030 p.m. EDT on the 20th. The Brandywine Creek in Wilmington was above its 11 foot flood stage from 511 a.m. EDT through 207 p.m. EDT on the 21st. It crested at 11.81 feet at 2 p.m. EDT on the 21st. Storm totals included 3.59 inches at the New Castle County Airport, 3.30 inches in Newark and 2.63 inches in Bear.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 9.5 inches in New Castle County. Normal is around 3.6 inches. The June monthly precipitation total of 9.90 inches at the New Castle County Airport was the wettest on record. The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Tobacco farmers were worrying about mold. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

Kent County

Bowers

21	1705EST								Hail (0.75)
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Kent County

Southeast Portion

21	1800EST								Flash Flood
	1930EST								

Sussex County

Northeast Portion

21	1830EST								Flash Flood
	2000EST								

Thunderstorms with torrential downpours caused flash flooding of smaller streams in Milford and Murderkill Hundreds in Kent County and Cedar Creek Hundred in Sussex County. Doppler Radar storm total estimates were between 4 and 6 inches in those areas. Most of the rain fell within an hour. No serious injuries or damage were reported.

Kent County

Frederica

21	1815EST					80K	0		Lightning
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A lightning strike caused an attic and roof fire at Webb's Market on U.S. Route 113 near Frederica. The fire began in the chimney after the lightning struck. The upper floor was used to store a large quantity of Christmas display items and were badly damaged. The attic and roof were damaged by the fire and heat and smoke damage occurred throughout the rest of the building. Damage was estimated at \$80,000 and no serious injuries were reported.

DEZ001>003

New Castle - Kent - Inland Sussex

24	0900EST								Excessive Heat
27	2000EST								

The first run of excessive heat and humidity of the summer season occurred during the work week of June 23rd across most of Delaware. The highest temperatures and heat indices occurred on the 26th. This was a marked contrast from the unseasonably cool and wet June prior to this week. Temperatures and moisture levels eased after a cold front moved through the region during the day on the 27th. The excessive heat and stagnant air mass led the State Environment Official to declare a code red ozone alert. State officials recommended that persons avoid prolonged exposure outside and go to malls, stores or other public places. The heat caused scattered power outages, especially on the 26th. In Wilmington, about 75 elderly residents evacuated from a high rise apartment after the building's back-up generator failed. Four residents were treated for heat related symptoms. Hospitals in central and southern Delaware treated about 15 persons for heat exhaustion. Many worked outdoors. Highest temperatures included 98 degrees in Georgetown (Sussex County), 94 degrees in Milford (Kent/Sussex County), 93 degrees at the New Castle County Airport and Greenwood (Sussex County).

DISTRICT OF COLUMBIA

DCZ001

District Of Columbia

01	0400EST								Strong Wind
	1300EST								

A strong cold front moved through the region during the early morning hours of the 1st. After the front passed, winds gusted up to 55

Storm Data and Unusual Weather Phenomena

June 2003

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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DISTRICT OF COLUMBIA

MPH through early afternoon. The gusty winds downed trees region wide because the ground was saturated from recent heavy rains. Measured wind gusts included 50 MPH at Children's Hospital and 46 MPH at Washington Reagan National Airport. On Independence Avenue near the Tidal Basin, a large tree branch was downed onto a car. Four people inside the vehicle were injured.

District Of Columbia
Countywide

07	0600EST 1100EST				0	2			Heavy Rain
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Showers and thunderstorms with heavy rainfall moved across the District during the morning of the 7th. Rainfall totals ranged from 2.25 inches in Northwest to 1.5 inches in Southeast. Saturated soil was blamed for downing a tree onto a car in Loughboro Road in Northwest. Two people in the car were injured when the Oak tree toppled onto the vehicle.

District Of Columbia
Countywide

11	2005EST 2010EST				0	0			Thunderstorm Wind (G58)
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A wind gust of 67 MPH downed trees.

A thunderstorm with high winds moved through the District around 9 PM on the 11th. A wind gust of 67 MPH was recorded at Children's Hospital. A gust of 51 MH was recorded at Adams Elementary School. A large tree was downed onto a moving car at the intersection of Massachusetts Avenue near California Street NW. Two people in the car escaped unharmed. A large Oak tree was also blown down at the corner of V and 11th streets NW. A portion of Piney Branch Parkway was closed in Rock Creek Park after a tree fell across the road.

District Of Columbia
Southeast Portion

12	1648EST 1650EST				0	4	600K		Thunderstorm Wind (G66)
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Winds up to 76 MPH damaged several buildings, and downed numerous trees and power lines. Four people were injured.

District Of Columbia
Countywide

12	1700EST 1800EST				0	0			Flash Flood
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Roads and basements were flooded.

A thunderstorm with very heavy downpours and high winds moved through the District between 5:30 and 6:30 PM on the 12th. The hardest hit area was in the eastern portion of the city where a downburst of wind measured at 76 MPH damaged several structures and downed power lines and an estimated 800 trees. Nearly 18,000 customers in D.C. lost power as a direct result of the storm. The 76 MPH wind gust was recorded at Johnson Junior High School and a wind gust of 63 MPH was recorded at Charles Hart Middle School. An apartment complex on Morris Road SE sustained significant roof and window damage. Two people were injured and 25 people were displaced by the debris. A downed power line nearby caught three cars on fire. On Alabama Avenue SE, trees were felled onto houses. On Suitland Parkway and Staunton Road SE, a tree fell on a deck and trees blocked the road. At Seventh Street and Raleigh Place SE, a tree was felled onto a 2-story home and an elderly couple was trapped inside. On Jay Street NE, an apartment building roof and windows were damaged and several trees were downed. A 2 month old baby and a woman were injured. A total of 46 families were displaced by the damage. Very heavy downpours also caused Rhode Island Avenue to be closed by high water. In addition, power outages caused three pumping stations to shut down, leading to basement flooding in Northeast.

DCZ001

District Of Columbia

20	1410EST 1510EST				0	0			Flood
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Rock Creek overflowed its banks.

Heavy rainfall across Montgomery County caused a large amount of runoff into Rock Creek. The creek overflowed and the extra water washed downstream into low lying areas of Rock Creek Park in Washington D.C. The park had to be closed for a few hours until the water receded. In addition, the intersection of Independence Avenue and 17th Street was flooded by runoff. Saturated soil also allowed a tree to fall onto parked cars on Fourth Street in Southeast.

District Of Columbia
Countywide

30	2300EST 2359EST				0	0			Heavy Rain
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District Of Columbia
Countywide

30	2325EST				0	0			Thunderstorm Wind (G50)
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Three trees were downed in Northwest.

A thunderstorm with high winds moved through the District just after midnight on the 1st of July (between 11 PM and midnight on the 30th of June in Eastern Standard Time). Three trees were downed by the storm in Northwest. A wind gust of 40 MPH was recorded at Children's Hospital and a gust of 41 MPH was recorded at Washington Reagan National Airport. A spotter in Northwest near the Montgomery County border recorded 2.4 inches of rain during the storm. Pea sized hail also fell.

FLORIDA, East Central

Orange County

Lake Apopka

07	1737EST				0	0	0	0	Funnel Cloud
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Local law enforcement and the general public reported a funnel cloud over Lake Apopka.

Storm Data and Unusual Weather Phenomena

June 2003

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, East Central</u>									
Volusia County									
Deltona	12	1507EST			0	0	0	0	Hail (0.75)
Volusia County									
Pierson	12	1550EST			0	0	0	0	Hail (0.75)
Orange County									
Apopka	12	1620EST			0	0	0	0	Hail (0.75)
Orange County									
Ocoee	12	1635EST			0	0	0	0	Funnel Cloud
		The public reported a funnel cloud over Ocoee.							
Orange County									
Oakland	12	1702EST			0	0	50K	0	Thunderstorm Wind (G70)
		Strong thunderstorm winds swept through a small community of mobile homes and older frame houses in the town of Oakland. One house was seriously damaged and 3 others received minor damage.							
Orange County									
Winter Garden	12	1730EST			0	0	0	0	Heavy Rain
		Heavy rain produced minor street flooding in Winter Garden.							
Brevard County									
Melbourne	22	1355EST 1500EST			0	0	0	0	Flash Flood
		Heavy rain produced rapid extensive flooding of major roadways in Melbourne.							
Okeechobee County									
Basinger	27	1504EST			0	0	0	0	Funnel Cloud
		Local emergency management officials reported a funnel cloud over Basinger.							
Okeechobee County									
Okeechobee	27	1515EST			0	0	10K	0	Thunderstorm Wind (G70)
		Thunderstorm winds damaged the roof of a dairy building north of Okeechobee.							
<u>FLORIDA, Extreme Southern</u>									
NONE REPORTED.									
<u>FLORIDA, Northeastern</u>									
Duval County									
10 E Jax Herlong Arpt	01	1600EST 1800EST			0	0			Heavy Rain
		Heavy rainfall lead to standing and pooling of water in urban areas on Jacksonville Westside.							
Suwannee County									
Live Oak	01	1630EST			0	0			Thunderstorm Wind (G55)
		Large trees and power lines down on Adams Rd. Pea sized hail reported in Wellborn. Report from Public Works Dept.							
Columbia County									
Lake City	01	1718EST			0	0			Hail (1.75)
		Northside of city.							
Suwannee County									
Mc Alpin	01	1727EST			0	0			Thunderstorm Wind (G55)
		Large trees down.							
Clay County									
Orange Park	01	1800EST			0	0			Thunderstorm Wind (G55)
		Large trees down on US Highway 17 south of Kingsley.							
Clay County									
Doctors Inlet	01	1820EST			0	0			Thunderstorm Wind (G55)
		Large tree down on house off Plainfield Rd. Power lines down in Doctors Inlet. 1600 persons without power overnight.							
Alachua County									
Countywide	02	1400EST 1600EST			0	0			Heavy Rain
		Doppler radar estimate of 4 inches of rain mainly in northern portions of county. Standing water and pooling of water on secondary roads.							

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>FLORIDA, Northeastern</u>									
Putnam County									
Pomona Park	02	1415EST			0	0			Hail (0.75)
Putnam County									
1 NW Palatka	02	1425EST			0	0			Hail (0.88)
Alachua County									
5 E Newberry	02	1555EST			0	0			Hail (0.88)
Suwannee County									
Countywide	02	1600EST 1800EST			0	0			Heavy Rain
Doppler radar estimate of 4 inches of rain. Standing water and pooling of water on secondary roads.									
Alachua County									
8 W Gainesville	02	1615EST			0	0			Hail (0.88)
Columbia County									
Ft White	02	1750EST			0	0			Thunderstorm Wind (G55)
Large tree down on house.									
Columbia County									
5 W Columbia	02	1815EST			0	0			Hail (0.75)
Suwannee County									
Obrien	02	1830EST			0	0			Hail (0.75)
Suwannee County									
Obrien	02	1830EST			0	0			Thunderstorm Wind (G55)
Power lines blown down.									
Columbia County									
1 S Lake City	03	1320EST			0	0			Funnel Cloud
Columbia County									
3 S Lake City	03	1320EST			0	0			Funnel Cloud
Flagler County									
5 S Mantanzas	03	1330EST			0	0			Hail (1.00)
Washington Oaks State Park, reported by Park Service.									
Flagler County									
5 S Mantanzas	03	1330EST			0	0			Thunderstorm Wind (G55)
Washington Oaks State Park, reported by Park Service. Large trees down in garden with power lines down outside park.									
Flagler County									
7 N Beverly Beach	03	1345EST			0	0			Thunderstorm Wind (G55)
Tree limbs and roadside barricades blown down.									
Duval County									
3 NE Marietta	03	1350EST			0	0			Thunderstorm Wind (G55)
Large tree limbs (10 inch diameter) broken off.									
Duval County									
Gilmore	03	1350EST			0	0			Thunderstorm Wind (G55)
7245 Crescent Oaks Court wires down.									
Duval County									
2 NW Hogan	03	1355EST			0	0			Thunderstorm Wind (G55)
Large limbs down on roadway 246 Sapelo Rd.									
Flagler County									
7 NNE Bunnell	03	1410EST			0	0			Thunderstorm Wind (G55)
Numerous large trees and power lines down.									
Flagler County									
Countywide	03	1530EST			0	0			Thunderstorm Wind (G55)
Korona...Trees down on Chicken Farm Rd.									
Flagler Beach...measured 40 knots gust.									
Bulow...Numerous trees down on mobile homes. One tree punched a hole through one roof. Numerous trees down on vehicles. Some mobile homes had siding peeled off.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>FLORIDA, Northeastern</u>									
Suwannee County									
Mc Alpin	03	1730EST			0	0			Thunderstorm Wind (G60) 19010 US 129 Mc Alpin. One large pecan tree laid over onto two other pecan trees. This snapped a second tree in half approximately six feet off the ground. The second was snapped off two thirds of the way up with small branches three to four feet thrown approximately two hundred feet. Three to four electrical poles snapped off with power out for eight hours. Minimal damage to residential structure with screen panels blown out and canvas car port torn.
Clay County									
Orange Park	06	1900EST 2000EST			0	0			Thunderstorm Wind (G55) Trees uprooted and felled across power lines. 21,000 people affected by power outages. Source Florida Times Union 6/7/03.
Suwannee County									
Dowling Park	09	1800EST			0	0			Hail (0.75)
Suwannee County									
Falmouth	09	1817EST			0	0			Thunderstorm Wind (G55) Large trees down.
Suwannee County									
Falmouth	09	1817EST			0	0			Funnel Cloud
Alachua County									
Gainesville	09	1855EST			0	0			Funnel Cloud Sighted on NW 83rd Strret in Gainesville.
Alachua County									
Gainesville	09	1955EST			0	0			Thunderstorm Wind (G55) Power Lines down on NW 83rd Street. Roof removed from back porch on 1000 block of NE 21st street. Second report from Gainesville Sun 6/10/03.
Clay County									
Orange Park	10	1430EST			0	0	60K		Thunderstorm Wind (G60) Large tree through roof of house on Lakefield Lane in Plainfield section of Orange Park. Live oak snapped in half on Dogwood Lane near Doctors Lake. Source Clay Today 6/11/03.
Duval County									
Jacksonville Beach	12	1500EST			0	0	20K		Lightning 555 Seventh Ave. South, Jacksonville Beach. Source Florida Union 6/18/03.
Nassau County									
Callahan	12	1530EST 1540EST			0	0	50K		Thunderstorm Wind (G65) Several city blocks affected near Robin Hood Circle and Ratliff Rd. with a dozen large trees felled and bricks moved. Privacy fence blown down. Most trees were snapped off 8 to 14 inches above the ground, including a 10 inch round, healthy White Oak. Four structures damaged, two were under construction. Survey estimation, 200 yard wide by 400 yard long micoburst with wind speeds of 55 to 65 knots. Broader wind swath of 40 knot winds. Additional information from Fernandina Beach News Leader 6/18/03
Putnam County									
7 W Interlachen	12	1700EST			0	0			Funnel Cloud
Putnam County									
7 W Interlachen	12	1700EST			0	0			Thunderstorm Wind (G55) Large trees and road signs down.
Gilchrist County									
6 N Bell to 3 E Trenton	13	1540EST 1545EST			0	0			Thunderstorm Wind (G55) Large trees and power lines down.
Duval County									
6 SW Jacksonville Intl A 6 SW (Jax)Jacksnville Int	13	1630EST			0	0			Thunderstorm Wind (G55) Large trees and power lines down on Mockingbird Rd.
Marion County									
3 SW Ocala	16	1412EST			0	0			Thunderstorm Wind (G55) Large tree down across power lines.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>FLORIDA, Northeastern</u>									
Columbia County									
1 S Lake City	16	1536EST			0	0			Thunderstorm Wind (G55)
	Two large trees down across power lines on Citrus Rd.								
Columbia County									
Lake City	16	1537EST			1	0			Lightning
	Victim was driving a 1997 Toyota 4Runner eastbound on Baya Lane, when a lightning bolt struck a large pine tree. The tree fell on his vehicle and the victim was struck and killed by a branch which penetrated the front windshield. Source Gainesville Sun 6/18/03. M16VE								
St. Johns County									
Marineland	18	1505EST 1510EST			0	0			Funnel Cloud
Marion County									
Fellowship	22	1515EST	1.5	100	0	0	50K		Tornado (F0)
	Touchdown near intersection of U.S. Highway 27 and 95th Street. Minor damage to one barn and home at 9500 N. U.S. highway 27. Screen pool cover destroyed at home and large pine tree down across barn damaging the roof. Numerous trees and a fence line downed in area. Additional information from Ocala Star Banner 6/23/03.								
Duval County									
Jacksonville	28	1300EST			0	1	50K		Thunderstorm Wind (G55)
	Roof ripped off apartment with subsequent rainfall flooding of structure. Roof landed 30 feet away in back yard. One female, age 65, transported to Shands Hospital, Jacksonville. Source Florida Times Union, 6/29/03.								
<u>FLORIDA, Northwest</u>									
Walton County									
Inlet Beach to Miramar Beach	08	1038EST 2025EST			6	0			Rip Current
	At least 28 people were rescued from rough surf off the Walton County beaches. Six persons drowned. Reported by the Walton County EMA. M60IW, M36IW, F32IW, F62IW, M40IW, M53IW								
FLZ017									
	18	1300EST			0	0	20K		Flood
	21	1300EST							
	Heavy rainfall during the past few days caused rapid rises on Munson Slough in southern Leon County which resulted in flooding of creeks, streams, drainage areas and a few homes. Reported by the Florida DEM.								
<u>FLORIDA, Southern</u>									
Palm Beach County									
6 W Jupiter	03	1450EST			0	1			Lightning
	A 21-year old male was seriously injured by lightning as he stood in his sister's backyard while visiting from New York. The lightning struck the ground and flashed off of swing set to the victim. The thunderstorm "had just rolled in".								
Glades County									
Moore Haven	06	1610EST			0	0			Hail (0.75)
	Dime-size hail was reported at the Sheriff's Office.								
Palm Beach County									
Lake Worth	07	1830EST			0	0			Funnel Cloud
	A funnel cloud was seen near the intersection of U.S. 441 and Lantana Road.								
Miami - Dade County									
Homestead	08	1330EST			0	0			Thunderstorm Wind (G50)
	A tree was uprooted.								
Miami - Dade County									
Miami	09	1400EST			0	1			Lightning
	A man was injured by a lightning strike.								
Collier County									
Naples	13	1600EST			0	0			Funnel Cloud
	Five separate funnel clouds were sighted from east of Naples to just offshore near the Isle of Capri.								
Broward County									
Pompano Beach	19	1315EST	0.1	10	0	0			Tornado (F0)
	A tornado briefly touched down near Sample Road and 2nd Way.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>FLORIDA, Southern</u>									
FLZ063 Glades									
	23	1300EST			0	0	10K		Flood
	27	0700EST							
	After an estimated 8 to 12 inches of rain fell in a 7-hour period, Fisheating Creek rose above flood stage causing minor flooding of the Fisheating Creek Campground and inundating CR 720 near Muse.								
<u>FLORIDA, West Central</u>									
Hillsborough County									
1 E Wimauma	03	1512EST			0	0	10K		Thunderstorm Wind (G50)
	Thunderstorm wind gusts lifted a roof off an open hanger and broke the tie downs off of two planes.								
Hillsborough County									
Tampa Intl Arpt	09	1030EST			0	1			Lightning
	A lightning strike near Airside A of the Tampa International Airport lead to one minor injury as an employee fell backwards and struck his head.								
Hernando County									
Spring Hill	11	1700EST			0	0			Thunderstorm Wind (G50)
	A National Weather Service storm survey found three 50 foot pines snapped off at the 20 foot level and hundreds of limbs down.								
Hillsborough County									
Carrollwood	13	1735EST			0	0	5K		Thunderstorm Wind (G50)
	Several trees were blown down at an apartment complex at the 5500 block of Gunn Highway.								
Pinellas County									
St Petersburg	13	1906EST			0	0			Lightning
	A lightning strike knocked out the power to Tropicana Field which delayed a major league baseball game for 18 minutes.								
Sarasota County									
4.5 SSE Sarasota Beach	15	1657EST			0	1			Lightning
	A Pennsylvania woman was struck by lightning while collecting shells at Turtle Beach on the south end of Siesta Key. The bolt struck the woman near her neck, blackened her face, and left her swimming suit in shreds. She was knocked unconscious and was in a coma for three days after the strike. Her husband was performing CPR when the ambulance arrived. He stated the storms and clouds were miles away and that this was a "bolt out of the blue".								
Hillsborough County									
2 NW Temple Terrace	16	1500EST 1630EST			0	0	10K		Heavy Rain
	Several buildings sustained minor water damage and five parked cars were half under water in a parking lot on the University of South Florida campus.								
Hillsborough County									
Temple Terrace	16	1600EST 1615EST			0	0			Thunderstorm Wind (G55)
	A local utility company reported numerous trees and power lines reported down.								
Hillsborough County									
Thonotosassa to 3 NE Thonotosassa	16	1610EST 1617EST			0	2			Thunderstorm Wind (G50)
	A utility company reported power lines down due to fallen trees and limbs from thunderstorm winds. Law enforcement reported two minor injuries due to falling trees at the Hillsborough State Park.								
Hillsborough County									
5 E Citrus Park	16	1610EST 1630EST			0	0			Thunderstorm Wind (G50)
	Trees, limbs, and power lines were down in the Lake Magdalene and New Tampa Area.								
Hillsborough County									
Citrus Park	16	1630EST 1645EST			0	0			Thunderstorm Wind (G50)
	Power lines were down in the Citrus Park area due to fallen trees and limbs.								
Hillsborough County									
2.5 NW Temple Terrace	16	1644EST			0	0			Hail (1.00)
	An amateur radio operator reported one inch hail at the intersection of Fowler and 30th Street.								
Hillsborough County									
Carrollwood	16	1725EST			0	0			Thunderstorm Wind (G50)
	Three large oak trees were down in a yard in Carrollwood. A moist tropical air mass lead to widespread thunderstorms and rain across the west central coast of Florida. Numerous severe weather events occurred across northern Hillsborough County where radar detected two thunderstorms that collided.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
FLORIDA, West Central									
Hillsborough County									
3 NW Temple Terrace	16	1620EST			0	0	15K		Thunderstorm Wind (G50)
Heavy rains and gusty winds downed a tree on two vehicles on the University of South Florida campus.									
Manatee County									
1 N Palmetto to 2 NNW Palmetto	18	1213EST 1218EST	1	40	0	0	20K		Tornado (F0)
Thunderstorms moved in from the Gulf of Mexico over an extended period of time causing a waterspout four miles west of Longboat Pass and a brief tornado in Palmetto. The tornado damage consisted mostly of car port damage in a mobile home park near 33rd St W and 8th Ave W, and roof damage to a canning factory on the 3600 block of U.S. Highway 41 North. Visual confirmation of the tornado was obtained from a Captain of the local fire district.									
Pasco County									
Hudson to Wesley Chapel	19	0840EST 1500EST			0	0	250K		Flash Flood
Heavy rains caused flooding that impacted 125 properties and flooded 25 homes and businesses in the Hudson, Odessa, Wesley Chapel, and Zephyrhills area. Nine roads were damaged to a total of \$150,000. The rainfall totals for the day were 8.01 inches 6 miles east northeast of Tarpon Springs, 6.36 inches in Gowers Corner, and 5.65 inches in Hudson.									
Citrus County									
Crystal River to Homosassa	19	0900EST 1300EST			0	0	300K		Flash Flood
State Road 490 in the western part of the county was closed due to flooding and motorists were stranded in the streets in Crystal River. A gully overflowed near Highway 19 South in Homosassa and the water flowed into a nearby restaurant "like a river". Numerous cars received moderate damage as the flood waters inundated an auto dealer lot. Rain fall totals for the day were 4.51 inches in Chassahowitzka and 3.36 inches 3 miles east of Floral City.									
Hernando County									
Brooksville to Spring Hill	19	1000EST 1300EST			0	0	50K		Flash Flood
A mobile home park near Highway 41 and Croom Road in Brooksville experienced a water rise of six feet in a few hours. This resulted in flooded homes and vehicles. One indirect fatality was attributed to the heavy rain as a car hydroplaned and crashed near Highway 19 and Northcliffe in Spring Hill. Masaryktown received 5.05 inches of rain during the day, 3 miles northeast of Spring Hill received 4.30 inches, and Brooksville received 4.09 inches.									
Pasco County									
New Port Richey	19	1215EST			0	0	25K		Lightning
An eyewitness saw a lightning strike hit a palm tree and bounce into a home. The resulting fire heavily damaged one bedroom while the rest of the home received smoke damage. Two dogs in cages died of smoke inhalation.									
Hillsborough County									
6 SE Valrico	19	1500EST 1900EST			0	0			Flash Flood
Heavy rains turned the low lying areas of River Drive in Valrico into a canoe trail. Rain fall totals for the day were 4.25 inches in Lutz and 3.84 inches 4 miles east of Citrus Park.									
Pinellas County									
Pinellas Park	19	1500EST 1800EST			0	0			Flash Flood
Rain fall totals for the day were 4.80 inches at Pinellas Point and 4.05 inches in Largo. The saturated grounds finally gave way to the heavy rain leading to flooded roads and vehicles.									
FLZ051									
Hillsborough									
	20	0237EST			0	0			Flood
	26	2207EST							
The Little Manatee River at Wimauma crested on June 22nd at 17.67 feet. The flood stage is 11 feet.									
Citrus County									
Crystal River to Floral City	20	0800EST 1200EST			0	0	502K		Flash Flood
Most of the flooding problems occurred east of Highway 19 from Cardinal Lane to Green Acres and in the Crystal Manor area. Several homes along South Line Road in Lecanto had 18 inches of water inside after a county drainage retention pond overflowed. Rainfall totals for the day were 10.53 inches 3 miles east of Floral City and 6.51 inches in Chassahowitzka.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
FLORIDA, West Central									
Levy County									
Inglis to Yankeetown	20	1115EST 1400EST			0	0	337K		Flash Flood
Numerous roads and homes were damaged in the Inglis and Yankeetown areas due to a flash flood. Rainfall totals for the day were 2.61 inches in Inglis and 2.35 inches in Williston. Further upstream of the Withlachochee River the rainfall total was 4.65 inches near Dunnellon.									
FLZ055 Manatee									
	21 25	0001EST 0525EST			0	0			Flood
The Manatee River at Myakka Head experienced a record crest of 20.85 feet on June 22nd. The flood stage is 11 feet.									
FLZ051 Hillsborough									
	21 27	0238EST 1239EST			0	0	20K		Flood
The Alafia River at Lithia crested four and a half feet above flood stage at 17.56 feet on June 23rd. Several homes in the River Drive area of Valrico had to evacuate. Rainfall totals during the previous five days included 9.67 inches in Ruskin, 8.89 inches in Odessa, and 6.83 inches in Tampa.									
FLZ060 Sarasota									
	21 30	0245EST 2359EST			0	0	9.2M		Flood
The Myakka River at Myakka State Park recorded a record high crest of 12.46 feet on June 24th. The flood stage is 7 feet. One of the hardest hit areas was in the Hidden River neighborhood in far eastern Sarasota County. A 25 foot levy gave way causing \$5.6 million in damage to 119 homes and \$750,000 to roads and infrastructure. North Port received \$1.3 million in damage with six homes destroyed, 21 homes with major damage, and 1318 homes or commercial structures impacted in the Estates area. In addition, 291 streets impassable for several days.									
Polk County									
Mulberry	21	1200EST			1	1			Lightning
One man was killed and another injured when they were struck by lightning while standing under a 30 foot oak tree. The injured man suffered from numbness to his right arm and leg and had burns on the bottom of his feet. M40UT									
FLZ055 Manatee									
	21 23	1647EST 1500EST			0	0			Flood
The Manatee River at Rye Bridge crested at 19.71 feet on June 22nd. Manual river readings were performed as the gauge went under water. This was the second highest crest ever and the highest crest since the Manatee Dam was built. The flood stage is 11 feet.									
FLZ055 Manatee									
	21 23	2234EST 2300EST			0	0	935K		Flood
The Manatee River at the Manatee Dam experienced a record crest of 42.42 feet on June 22nd. The flood stage is 41 feet. One of the three emergency flood gates on the dam malfunctioned and had to be forced open. About 700 homes within three miles of the Dam along the Manatee River evacuated and 230 people ended up at a Red Cross Shelter for 24 hours. One single family home received moderate flood damage and 12 homes received minor damage.									
FLZ061 De Soto									
	22 30	0422EST 2359EST			0	0	100K		Flood
The Horse Creek near Arcadia recorded a record high crest of 18.02 feet on June 23rd. The flood stage is 12 feet. The nearby roads of Highway 72, County Road 769, and Pine Level Road were all closed as a result of the flooding.									
FLZ061 De Soto									
	22 26	0422EST 2359EST			0	0	203K		Flood
The Peace River at Arcadia crested at 15.41 feet on June 26th. The flood stage is 11 feet. A total of 11 homes were destroyed, two had major damage, and 60 others had minor damage.									
Manatee County									
13 E Bradenton to Myakka City	22	1300EST 1600EST			0	0			Flash Flood
Additional heavy rains aggravated the flooding conditions in Manatee county. Heavy rains lead to four feet of water in several homes in Myakka City on Singletary Road. A daily rainfall of 6.21 inches was recorded 4 miles north northeast of Palmetto and 5.12 inches was recorded 2 miles southwest of Myakka City.									

Storm Data and Unusual Weather Phenomena

June 2003

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									
Sarasota County									
Sarasota	22	1300EST 1600EST			0	0			Flash Flood
Heavy rains lead to street flooding and the flooding of several homes in Sarasota. Rainfall totals were 6.65 inches 4 miles west of Old Myakka and 4.34 inches 8 miles south of Edgeville.									
Charlotte County									
Punta Gorda	22	1300EST 1600EST			0	0	3.3M		Flash Flood
Heavy rain flooded 40 homes with 6-12 inches of water in the residential areas of Punta Gorda. Also, 10,000 feet of a sea wall worth \$2 million collapsed in Punta Gorda Isles and roads erosion closed two areas along County Road 74 near Westminster Road and Grove Blvd. Rainfall totals over the past three days totalled 9.49 inches in Point Lonesome and 8.35 inches 8 miles southeast of Punta Gorda.									
Hardee County									
Bowling Green to Zolfo Spgs	22	1300EST 1700EST			0	0	350K		Flash Flood
Twenty one roads were washed out and State Roads 62, 64, 70, and 72 were closed due to the flooding and flash flooding. Rainfall of 11.78 inches was recorded 4 miles northeast of Myakka Head during the past three days.									
FLZ056									
Hardee									
	22	1700EST			0	0	1.5M		Flood
	25	1700EST							
Fresh water flooding inundated areas for three days. Most of the damage was confined to the public infrastructure in the areas of Bowling Green, Wauchula, and Zolfo Springs.									
De Soto County									
Arcadia to 11 W Arcadia	22	1300EST 1700EST			0	0	200K		Flash Flood
Flash Flooding in the western third of Desoto County closed and damaged back roads. Several homes received water damage from rising waters. Rainfall of 11.79 occurred 10 miles west of Arcadia during the last three days.									
FLZ056									
Hardee									
	22	1313EST			0	0			Flood
	28	2048EST							
The Peace River at Zolfo Springs Crested on June 25th at 17.71 feet. The flood stage is 16 feet.									
FLZ049									
Pasco									
	22	1330EST			0	0			Flood
	30	2359EST							
The Cypress Creek at Worthington Gardens crested at 9.2 feet on June 27th and remained in flood into July. The flood stage is 8 feet.									
Lee County									
10 NW North Ft Myers	23	1100EST 1500EST			0	0	20K		Flash Flood
Flash flooding closed three miles of Burnt Store Road from the Marina to Kismet Parkway and caused minor water damage to several businesses.									
Pasco County									
6.5 ENE New Port Riche	23	1525EST			0	0			Thunderstorm Wind (G50)
Several trees were downed by a brief thunderstorm wind gust.									
FLZ052									
Polk									
	24	0045EST			0	0			Flood
	28	0015EST							
The Peace River near Bartow crested at 8.32 feet on June 25th. The flood stage is 8 feet.									
Lee County									
Bonita Spgs	24	1300EST 1600EST			0	0	20K		Flash Flood
A RV Park in East Bonita Springs was evacuated as the area was inundated with four feet of water after heavy rains.									
Manatee County									
Bradenton Beach to Bradenton	28	2148EST 2215EST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds pushed down trees which brought down power lines.									
Pinellas County									
2.5 W Largo	28	2154EST			0	0	3K		Thunderstorm Wind (G55)
Thunderstorm wind gusts to 63 MPH were measured by an amateur radio weather station. Coincidentally, an amateur radio Field Day site testing emergency communications reported damage to antennas, awnings, and tents.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>FLORIDA, West Central</u>									
Charlotte County									
Punta Gorda	28	2245EST			0	0	3K		Thunderstorm Wind (G50)
Thunderstorm winds damaged a pool cage and part of a roof.									
FLZ042									
Citrus									
	29	0001EST 1500EST			0	0			Flood
The Withlacoochee River at Dunnellon briefly reached flood stage of 29 feet.									
Pasco County									
.6 SE Dade City to .5 SE Dade City	29	1752EST 1757EST	0.7	100	0	0	40K		Tornado (F0)
A tornado passed through Dade City and damaged mostly trees and power lines over an area 12 blocks long and one block wide, basically along Coleman Street between 7th Ave and 17th Ave. The tornado wind estimate was 70 mph. Damage to four homes and three cars were a result of trees falling on them. Many trees were pushed over by the tornado but most of these trees had signs of rot and the ground was saturated. The local utility reported 2,700 people without power after the event. Damage was estimated at \$40,000 but cleanup costs was estimated at \$60,000.									
Lee County									
Boca Grande	29	1755EST			0	0			Thunderstorm Wind (G50)
Fire and Rescue reported numerous trees down on the island after the thunderstorm passed.									
Manatee County									
Bradenton Beach	29	1941EST			0	0	25K		Thunderstorm Wind (G60)
Strong thunderstorms moved into Bradenton Beach from the Gulf of Mexico and produced widespread damage to trees and vegetation. About \$15,000 in damage occurred at a two story motel along the coast when the roof was blown off allowing rain to pour into three units on the top floor. No one was injured at the motel but 20 people were relocated across the street to another motel. The storm also caused damage to the roof of a pump house and two concrete block walls collapsed at a construction site.									
Charlotte County									
.4 W Charlotte Harbor to .6 N Charlotte Harbor	29	2252EST 2257EST	0.7	100	0	0	50K		Tornado (F0)
A single rotating thunderstorm moved north through Charlotte Harbor and spawned a brief tornado in the city of Charlotte Harbor. Damage consisted mostly of downed trees and power lines. However, a gas station awning was blown down and a roof was damaged at a blood bank under construction. The damage was limited to areas where Kingsway, Edgewater, and Harborview cross U.S. Highway 41.									
Manatee County									
6 N Verna	30	1805EST			0	0	20K		Thunderstorm Wind (G40)
A wood frame home under construction was blown down.									
<u>FLORIDA, West Panhandle</u>									
Okaloosa County									
Crestview	05	1520CST 1525CST			0	0			Lightning
A spotter observed a funnel cloud for about five minutes near Duke Field. The funnel cloud dissipated and never touched down.									
Okaloosa County									
Holt	06	1320CST 1321CST			0	0	5K		Thunderstorm Wind (G50)
High winds from a thunderstorm blew over a brick wall at a business. No injuries were reported.									
Okaloosa County									
Destin	08	1200CST 1205CST			1	0			Rip Current
A fifty seven year old Missouri man was swimming in rough surf near James Lee Park when he started having trouble staying afloat. He was pulled out of the water but later died at a local hospital. Red flags were flying at the time of the drowning. M571W									
Okaloosa County									
Destin	08	1415CST 1420CST			1	10			Rip Current
A thirty one year old female from Indiana jumped into the gulf to rescue her son who was having trouble swimming in the rough surf. Both of them were pulled out of the rough water and transported to a local hospital. She was pronounced dead and her son was treated and released. The drowning occurred around James Lee Park where red flags warning of dangerous surf were flying. The drownings in Okaloosa county were part of a rash of drownings that occurred along the beaches of Walton and Okaloosa counties on this date. Six people drowned in Walton county that day. The rough water was the result of swells of four to six feet moving ashore. Ten people along the Okaloosa county beaches had to be transported to local hospitals where they were treated and released. Many others had to be pulled from the rough surf where they were treated on the beach. Officials were flying and driving along the beaches to warn people of the dangerous surf. People would exit the water and then go back in after the officials had left.									

Storm Data and Unusual Weather Phenomena

June 2003

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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FLORIDA, West Panhandle

Escambia County

Pensacola Beach	09	1258CST			1	0			Rip Current A sixty six year old male from the local area jumped in the gulf to rescue a kid who was having trouble in the rough water. The youngster was brought ashore and was okay. The male drowned in the rough surf. Yellow flags were flying along the beach at the time of the drowning. M66IW
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Okaloosa County

Destin	11	1630CST			0	1			Lightning A Georgia man was on a personal watercraft when he was struck by lightning. He was on his way to shore to beat approaching thunderstorms when he was struck. He was transported and treated at the hospital and was released after a couple of hours.
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Okaloosa County

Ft Walton Beach	30	0810CST 0812CST			0	0	5K		Thunderstorm Wind (G50) High winds blew part of the metal siding off a county building that was used to house large equipment..
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Escambia County

South Portion	30	2100CST 2359CST			0	0			Flash Flood Heavy rainfall from Tropical Storm Bill caused many streets in the south part of the county to flood. Rainfall totals of four to seven inches were estimated in a six hour period. The flooding continued into the morning hours with many streets closed for several hours.
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Santa Rosa County

South Portion	30	2100CST 2359CST			0	0			Flash Flood Heavy rainfall from Tropical Storm Bill caused many streets in the south part of the county to flood. Rainfall totals of four to seven inches were estimated in a six hour period. The flooding continued into the morning hours with many streets closed for several hours.
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Santa Rosa County

Allentown	30	2105CST 2107CST			0	0	7K		Thunderstorm Wind (G50) High winds from thunderstorms blew a roof off a shed and also blew down several trees near Allentown.
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GEORGIA, East Central

Lincoln County

2 SW Lincolnton	13	1748EST			0	0	14K	0	Thunderstorm Wind (G60) Sheriff reported trees down on a vehicle on Lewis Family road.
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Burke County

Girard to 8 E Girard	28	1726EST 1736EST			0	0		0	Thunderstorm Wind (G55) Highway dept. and Post Office reported trees down in Girard out to 8 miles east of Girard to the county line.
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GEORGIA, Lower

Atkinson County

3 W Pearson	03	1238EST			0	0			Funnel Cloud
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Camden County

Kingsland	03	1431EST			0	0			Thunderstorm Wind (G55) Large tree limbs down.
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Camden County

7 SE Spring Bluff	03	1445EST			0	0			Thunderstorm Wind (G55) Numerous trees and power lines down.
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Camden County

Harriets Bluff	03	1445EST			0	0			Thunderstorm Wind (G55) Entire row of trees blown down.
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Glynn County

6 W Brunswick	03	1458EST			0	0			Thunderstorm Wind (G55) Large tree down on home one mile west of Interstate 95. Large tree down on horse stable one and a half miles west of Interstate 95.
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Glynn County

Brunswick	03	1530EST			0	0			Thunderstorm Wind (G55) Numerous large trees and power lines down across southern portion of the city.
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Charlton County

Countywide	11	1600EST 1630EST			0	0			Thunderstorm Wind (G55) Numerous trees and power lines down, widespread across county.
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Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GEORGIA, Lower</u>									
Echols County									
Mayday	16	1555EST			0	0			Thunderstorm Wind (G55)
			Power lines down. Brush fires ignited due to downed lines.						
Camden County									
Harriets Bluff	28	1415EST			0	0			Thunderstorm Wind (G55)
			Large trees down on power lines.						
Glynn County									
Everett	28	1545EST			0	0			Thunderstorm Wind (G60)
			Trees blown down and power poles snapped off over a half mile wide area.						
<u>GEORGIA, North and Central</u>									
Floyd County									
Lindale	04	1950EST			0	0	2K		Thunderstorm Wind (G50)
			The public reported that thunderstorm winds blew down several large trees and several other large limbs. A rose trellis was completely destroyed and some aluminum was ripped off a storage trailer.						
Hall County									
Flowery Branch	07	1831EST 1945EST			0	0	5K		Flash Flood
			The Hall county 911 center reported that flash flooding had resulted in the washout of the Black Jack Road bridge.						
Gordon County									
Calhoun	07	2110EST 2330EST			0	0	5K		Flash Flood
			The Gordon county 911 center reported considerable flooding of roads in Calhoun. Several downtown streets had at least one foot of water flowing over them.						
Gilmer County									
Countywide	07	2130EST 2315EST			0	0	5K		Flash Flood
			The Gilmer county 911 center reported that Old Georgia Highway 5 was completely flooded in Ellijay with nearly a foot of water flowing over the road. Several other highways in the county had places with six inches or more of water flowing over them. Old Georgia Highway 5, along with several others in the county, had to be closed.						
Dade County									
Countywide	11	1650EST 1715EST			0	0	75K		Thunderstorm Wind (G60)
			The Dade county 911 center reported that power lines were down in five different areas of the county and a number of trees were blown down in eight different areas around the county. The Emergency Management Director for Dade county estimated that at least 30 trees were blown down around the county. An amateur radio operator reported that a 500 foot cell tower was also blown down.						
Dade County									
Trenton	11	1650EST			0	0	25K		Lightning
			The Dade county 911 center reported that a house was set on fire by lightning.						
Walker County									
Countywide	11	1650EST			0	0	500K		Thunderstorm Wind (G52)
			The Walker County Messenger reported that literally dozens of trees were down on power lines and roads around the county. The Rossville area was probably the hardest hit. Seven homes were severely damaged when large trees fell on the structures, while at least 27 calls were received by the Walker county Fire and Rescue Department to remove trees blocking roads. Several hundred residents of the county were left without power for several hours during the event.						
Troup County									
La Grange	11	1655EST			0	0	3K		Thunderstorm Wind (G50)
			The Troup county 911 center reported that several trees and power lines were down.						
Coweta County									
Newnan	11	1722EST			0	0	1K		Thunderstorm Wind (G45)
			The Coweta county 911 center reported that a tree was blown down on a power line.						
Coweta County									
Newnan	11	1725EST			0	0			Hail (0.75)
			The Coweta county 911 center reported penny-sized hail.						
White County									
Cleveland	11	1930EST			0	0	15K		Thunderstorm Wind (G50)
			The public reported that several trees were blown down causing roof damage to a couple of structures and other minor property damage.						
Peach County									
2 ESE Miami Vly	12	1600EST			0	0	0.50K		Thunderstorm Wind (G50)
			The public reported that a few trees were blown down on their property east of Miami Valley near Interstate 75.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
GEORGIA, North and Central							
Houston County							
Perry	12	1610EST			0 0	1K	Thunderstorm Wind (G50) The Houston county 911 center reported that several trees were blown down. The Macon Telegraph reported that the down trees and tree limbs resulted in a number of power outages in the county.
Cobb County							
Smyrna	12	1745EST			0 0	2K	Lightning The public reported that lightning struck a residence. While no fire resulted, damage to computer and other electrical equipment resulted.
Cherokee County							
Canton	12	1800EST			0 0	1K	Thunderstorm Wind (G50) The Cherokee county 911 center reported that several trees had been blown down.
Forsyth County							
Cumming	12	1830EST			0 0		Funnel Cloud The Forsyth county Assistant Emergency Management Director reported a funnel cloud with definite rotation.
Forsyth County							
Cumming	12	1830EST			0 0		Hail (0.75) The Forsyth county Assistant Emergency Management Director reported penny-sized hail.
Forsyth County							
Cumming to 5 N Oscarville	12	1830EST			0 0	25K	Lightning The Forsyth county Assistant Emergency Management Director reported that lightning struck a house and set it on fire causing minor to moderate structural damage. The Forsyth County news also reported that lightning struck a tree and Suwanee EMC breaker on Jot'em Down Road near Chestatee
Forsyth County							
3 E Cumming	12	1850EST			0 0	5K	Thunderstorm Wind (G50) The Forsyth county Assistant Emergency Management Director reported that a tree was blown down on a home off Pilgrim Mill Road causing minor structural damage.
Forsyth County							
Cumming	12	1905EST			0 0		Hail (0.75) The Forsyth county Assistant Emergency Management Director reported penny-sized hail.
Forsyth County							
5 N Oscarville	12	1910EST			0 0	3K	Thunderstorm Wind (G50) The Forsyth county Assistant Emergency Management Director reported that several trees were down on power lines.
Lumpkin County							
Dahlonega	12	1920EST			0 0	1K	Thunderstorm Wind (G45) The Lumpkin county 911 center reported that a tree and a nearby electrical transformer were blown down across a road.
Fulton County							
4 N Atlanta to Atlanta	13	1450EST 1530EST			0 0	5K	Flash Flood The Georgia Tech Police Department, as well as the Atlanta Police Department, local news media, and amateur radio operators, reported considerable flooding of streets throughout the downtown Atlanta area, including portions of the Interstate 75/85 Downtown Connector. Some roads had to be briefly closed because of water flowing over the roads and there was at least one incident of a road collapse in the downtown area. Afternoon rush hour traffic was brought to a standstill on the Interstate 75/85 Downtown Connector and Georgia Highway 166 (Lakewood Freeway/Langford Parkway).
Gwinnett County							
Lawrenceville	13	1630EST			0 0	5K	Lightning The Gwinnett Daily Post reported that lightning struck a home on Meadow Walk Lane setting the attic on fire. However, firefighters were able to minimize the damage from the fire.
Barrow County							
Auburn	13	1700EST			0 0	150K	Lightning The Barrow County News reported that lightning struck a pine tree adjacent to a home and set both the tree and the home on fire. The second floor of the home was a complete loss and the first floor suffered extensive water damage.
Wilkes County							
3 S Tignall	13	1730EST			0 0	3K	Thunderstorm Wind (G50) The Wilkes county Emergency Management Director reported that several trees and some power lines were blown down along Georgia Highway 17 North between Tignall and Washington.

Storm Data and Unusual Weather Phenomena

June 2003

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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GEORGIA, North and Central

Troup County

La Grange **14** **1600EST** **0** **0** **20K** **Thunderstorm Wind (G50)**

The Troup county 911 center reported that trees were down on three homes in the city, resulting in minor damage to each of the structures. Some power lines were also blown down as well.

White County

Helen **16** **1640EST** **0** **2** **Lightning**

The White county 911 center reported that two males, one a 9-year old and the other a 44-year old, were injured when struck by lightning. The injuries were reported to be minor.

De Kalb County

Tucker **16** **1825EST**
1830EST **0** **0** **Hail (0.75)**

The public reported penny-sized hail in Tucker near Interstate 285 and LaVista Road.

Clayton County

Jonesboro **16** **2042EST** **0** **0** **Hail (1.75)**

The public reported golf ball-sized hail.

Clayton County

1 W Jonesboro **16** **2045EST**
17 **2045EST** **0** **0** **5K** **Lightning**

The local newspaper for Jonesboro reported that lightning struck the Clayton County sewage transfer plant resulting in the spillage of over 150,000 gallons of treated sewage into the Flint River. This occurred when the lightning rendered the pump at the station inoperable. The spill was not known because the automatic system, which notifies the plant of such failures, was also rendered inoperative by the lightning strike.

Forsyth County

Silver City **16** **2052EST** **0** **0** **0.50K** **Heavy Rain**

The Forsyth county Emergency Management Director reported that very heavy rain from persistent thunderstorms caused flooding in the basement of a home.

Forsyth County

Cumming **16** **2103EST** **0** **0** **Hail (0.88)**

The public reported nickel-sized hail.

Forsyth County

Hightower **16** **2130EST** **0** **0** **1K** **Thunderstorm Wind (G52)**

The Forsyth county Emergency Management Director reported that some trees were blown down.

Chattooga County

Countywide **16** **2150EST** **0** **0** **3K** **Thunderstorm Wind (G50)**

The Summerville News reported that a large number of trees had been blown down across the county by thunderstorm winds, although the majority of the monetary damage was noted in Summerville. The downed trees caused damage to three homes. One home in Summerville suffered extensive damage when a tree fell through the roof. A number of power lines were also brought down as the trees fell. A street sign was blown from a pole in downtown Summerville and a window was blown out a local attorney's office in downtown. The public also reported pea-sized hail during the event.

Gwinnett County

3 NW Buford **16** **2205EST** **0** **0** **Thunderstorm Wind (G52)**

A SkyWarn spotter for the Gwinnett County ARIES reported a wind gust to 60 mph.

Hall County

Flowery Branch **16** **2225EST** **0** **0** **3K** **Thunderstorm Wind (G50)**

The Hall county 911 center reported that several trees and power lines were down.

Cobb County

East Portion **16** **2330EST**
17 **0300EST** **0** **0** **250K** **Flash Flood**

Fox 5 News of Atlanta reported that extensive flooding was occurring across the eastern portion of Cobb county. Nearly two feet of water was flowing over Paper Mill Road at Sope Creek. Johnson Ferry Road near Connemara Drive and Dartmoor Drive was completely underwater. Residents of the West Chase Apartment Homes and Oakhill Town Home Association were stranded when flood waters caused a 20-foot deep and 6-foot wide sink hole causing the closure of Six Flags Parkway. Shallowford and Lassiter Drive in east Cobb county were also flooded. Several roads were washed out and had to be closed.

Storm Data and Unusual Weather Phenomena

June 2003

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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GEORGIA, North and Central

De Kalb County

North Portion	16	2330EST			0	0	500K		Flash Flood
	17	0800EST							

Fox 5 News of Atlanta reported that extensive flooding was occurring in the Brookhaven area. Several hundred people in Brookhaven had to be rescued from their apartments. This flooding was attributed to the rapid rise of Peachtree Creek. In some places the water was 10 feet deep. Several other roads across the northern portion of the county were also flooded, including Clairmont Road and Buford Highway. One resident on Drew Valley Road in Decatur reported that her neighbor's play set washed into her yard over an 8 foot fence.

Fulton County

Sandy Spgs to Atlanta	16	2330EST			0	0	500K		Flash Flood
	17	0800EST							

Fox 5 News of Atlanta reported that extensive flooding was occurring along Northridge Crossing Drive in the area between Sandy Springs and Dunwoody near the De Kalb county border. Several town homes had to be evacuated as water rose up to the level of mailboxes. A number of roads in the north and central portion of the county were flooded with water flowing across the roads. Flooding on Roswell Road resulted in a large sinkhole at one point in the road and washed out a portion of the road in a another location. Peachtree Creek quickly rose to flood stage of 17 feet in a 3 hour period, resulting in the usual flooding of roads, homes, businesses, and other property near the creek.

Gordon County

Redbud	16	2330EST			0	0	1K		Thunderstorm Wind (G50)
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The Gordon county 911 center reported that a few trees were down.

Gwinnett County

Countywide	16	2330EST			0	0	500K		Flash Flood
	17	0630EST							

The Gwinnett county 911 center, as well as the county Skywarn, and local newspapers reported extensive flooding of roads and streets across much of the county. Flash flooding essentially began in the Dacula area as a thunderstorm dumped over one inch of rain per hour between 11 pm EDT Monday the 16th and 130 am EDT Tuesday the 17th. Rainfall of three to five inches was common between midnight EDT and 8 am EDT the 17th across much of the county. By 1251 am EDT, at least 3 inches of water was flowing over Rutherford Road and Superior Road in Dacula, but the road was still passable. By 1:20 am EDT, however, significant flooding was reported on many streets in Dacula as the very heavy rain continued. By 133 am EDT, the intersection of Springdale Road and Georgia Highway 124 in Snellville was four feet under water in Snellville. By 149 am EDT, U.S. Highway 29, Winder Highway, had two feet of water flowing over it and was going to be closed by local law enforcement authorities. Later a 48-inch water line at this location was washed away. A bridge on Hillcrest Road was three feet under water during the height of the storm. In Lilburn, residents of several homes in the Connemara subdivision area at Hillcrest Road and Indian Trail, near Interstate-85, had to be evacuated as flood waters from the Yellow River and Sweetwater Creek stranded them in their neighborhood and threatened their homes. One home in the area reported nearly 2 feet of water flowing through their backyard. A sink hole was reported to have developed on Fence Road in this area. Extensive flooding of roads was also reported in Duluth during the late night and early morning hours. Several homes, about one-quarter mile northeast of U.S. Highway 29 and Sugarloaf Parkway in Lawrenceville, were flooded. All together, 13 roads in the county had to be closed because of flooding. Other structures also suffered damage from the flood waters, including a greenhouse business on Georgia Highway 124, with an estimated loss of \$7,000 dollars, and the historic Alcovy River Gristmill dam, on which the upper three feet of the dam were lost from the force of the flood waters. A sewage pump station near U.S. Highway 78 in Snellville was also rendered inoperable for a brief period by flood waters. One vehicle was destroyed and another suffered major damage from the flood waters. A female resident of Dacula had to be rescued from a 2000 Silverado pickup truck when the truck was submerged in flood waters on Brooks Road off Bramlett Shoals Road. Shortly after the rescue, the vehicle was swept away by the flood waters. A 1999 BMW was also damaged when flood waters rose above the tires and water damaged the interior of the car.

Douglas County

North Portion	17	0000EST 0800EST			0	0	30K		Flash Flood
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The Douglas county Emergency Management Director reported that extensive flooding occurred across the northern portions of the county, especially in the Lithia Springs, Douglasville, and Winston areas. Several homes were flooded and at least eight roads sustained damage, including some with washed out bridges and culverts. The Douglas County Sentinel reported that the Prestley Mill and Slater Mill Road bridges suffered the most damage. Extensive dirt and debris had to be removed from the roadways after the water receded before they could even be used. In addition, the guard rails on the bridge were bent from the force of the rushing water. An off duty National Weather Service employee reported that nearly five inches of rain fell across northern Douglas county between midnight and 5 am EDT.

Gwinnett County

Dacula	17	0020EST			0	0	1K		Lightning
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The Gwinnett county SkyWarn reported that a home in Dacula was struck by lightning. The fire department investigated, but no fire was reported. Damage was confined to electronic equipment. Lightning also was responsible for a sewage leak at a pump station near Snellville as the pump station was briefly rendered inoperable by the lightning strike.

Storm Data and Unusual Weather Phenomena

June 2003

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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GEORGIA, North and Central

Fayette County

2 N Fayetteville to 2 W Fayetteville	17	0345EST 0800EST			0	0	600K		Flash Flood
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The Fayette county 911 center and Emergency Management Director reported that extensive flooding of roads and homes was occurring just west and just north of downtown Fayetteville. At Georgia Highway 85 and Georgia Highway 314, just north of Fayetteville, the road had two feet of water over it. Just west of Fayetteville off Georgia Highway 54 near Gingercake Creek, water rose several feet up on homes causing extensive damage to a number of homes. One home had a portion of a lower wall cave in from the weight and rush of the flood waters. The dam on Pye Lake, also just west of Fayetteville, was also breached from the flood waters. Consequently, several homes in the LaFayette Gardens Home subdivision were flooded and several residents in the Cornwallis and Wetherly Drive area of this subdivision had to be evacuated. At least five vehicles were damaged or destroyed by the flood waters as driveways collapsed and the vehicles fell into or were submerged by the flood waters. Several roads in downtown Fayetteville and nearby adjacent areas, especially to the west and north, sustained significant damage. Portions of the roads were washed out and extensive repairs were required.

Clayton County

Jonesboro	17	0545EST 0800EST			0	0	25K		Flash Flood
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The Clayton county 911 center reported that flash flooding had occurred in the Briargate Subdivision as a result of Briar Creek flooding the local area. Up to eight homes had to be evacuated on Winding Way in the subdivision.

Walker County

Chickamauga to Lookout Mtn	17	1400EST 1530EST			0	0			Heavy Rain
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The Walker county 911 center reported that heavy rain and thunderstorms were resulting in minor flooding across the north portion of the county, north and northwest of Chickamauga.

Catoosa County

Countywide	17	1451EST 1530EST			0	0			Heavy Rain
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The Catoosa county 911 center reported that heavy rain and thunderstorms were resulting in minor street flooding in low lying and poor drainage areas throughout the county.

Coweta County

Dresden to Roscoe	17	2045EST 2230EST			0	0	5K		Flash Flood
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The Coweta county 911 center reported that there was considerable flooding of roads and bridges across the western and northern portions of the county. Water was flowing over the bridges on Boy Scout Road, Georgia Highway 34, and Robert's Road at Caney Creek. Georgia Highway 34 and Robert's Road were both closed as a result. In the northern portion of the county, Roscoe Road was flooded and closed at Wahoo Creek. One vehicle was swept by flood waters into Yellow Jacket Creek. Rainfall totals in excess of 10 inches were reported from areas north and west of Newnan between Newnan and Roscoe.

Douglas County

Countywide	18	0000EST 0300EST			0	0	25K		Flash Flood
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The Douglas county 911 center reported that heavy rain and thunderstorms renewed flooding problems across the county. A number of roads were flooded and closed. A dam failed and washed out a bridge in Chapel Hill, just south of Douglasville. Many of these same roads had been affected by flooding less than 24 hours prior. Twenty-four to 36 hour rainfall totals for much of Douglas county were near 10 inches.

Troup County

La Grange	18	0000EST 0115EST			0	0	50K		Flash Flood
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The Troup county 911 center reported that extensive flooding was occurring in the city. At least 15 roads were flooded and 30 homes had to be evacuated because of flood waters. Water got into a number of homes in the city. Parts of the county reported over 4 inches of rain during the day.

Heard County

Countywide	18	0642EST 0845EST			0	0			Heavy Rain
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The Heard county 911 center reported that there were several areas around the county of minor street flooding from persistent heavy rain.

Troup County

La Grange	18	0700EST 0845EST			0	0	5K		Flash Flood
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The Troup county 911 center reported a number of roads in the La Grange area were flooded as heavy rain and thunderstorms once again moved over the area. While flooding was the worst in La Grange, some flooding was also reported in other parts of the county as well.

Storm Data and Unusual Weather Phenomena

June 2003

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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GEORGIA, North and Central

Carroll County

Countywide	18	1130EST			0	0	250K		Flash Flood
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The Carroll county Emergency Management Director reported that an earthen dam on Lake Dakota near Whitesburg collapsed causing the flooding and closure of Ramsdell Road. Heavy rain flooded a number of roads and bridges across the county and forced the closing of 20 roads around the county. Some of the roads would require a week or more to repair. The Carroll Star News reported that Molette Street in Carrollton was completely washed out. A home in Carrollton was also flooded.

Murray County

Countywide	18	1318EST			0	0	5K		Flash Flood
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The Daily Citizen Newspaper of Dalton and the Chatsworth Times, reported that Murray county suffered extensive flooding from excessive rain. Particularly hard hit was Chatsworth, where flash floods swamped downtown neighborhoods and businesses with water. Dozens of roads were flooded and several, especially in downtown Chatsworth, were closed. Tibbs Bridge Road, leading west to Whitfield county, was over a foot under water. In some downtown areas, the water was 4-feet deep. Several businesses were literally washed out. At one store, flood waters washed nearly half of the store's merchandise into the parking lot. The Murray Plaza Shopping Center was also flooded and the Spring Lakes Golf Course was flooded when an adjacent stream quickly rose out of its banks. Much of the area surrounding the stream was also submerged in water when the creek overflowed its banks. At least two homes were evacuated because of flood waters and one home on Cohutta Street was flooded for the fourth time in less than a year! The 4-foot deep flood waters on Cohutta Street also prevented county firefighters from reaching a heart attack patient in a timely fashion.

Chattooga County

Countywide	18	2100EST			0	0	5K		Flash Flood
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The Chattooga county 911 center reported that a number of roads across the county were flooded, several of which had to be closed. Some businesses in downtown Summerville also sustained damage from flood waters.

Floyd County

North Portion	18	2100EST			0	0	5K		Flash Flood
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The Floyd county 911 center reported that a number of roads were flooded across the northern portion of the county.

Gordon County

Countywide	18	2100EST			0	0	10K		Flash Flood
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The Gordon county 911 center reported that several roads were flooded and closed. Several creeks around the county were also flowing out of their banks.

Fulton County

2 SE Sandy Spgs	28	1757EST			0	0			Heavy Rain
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Trained SkyWarn spotters reported torrential rainfall on Interstate 285 at Georgia Highway 400 resulting in over 2 inches of standing water on the roadway. Traffic was brought to a standstill at the time in this area.

Crisp County

5 W Cordele	29	1400EST			0	0	0.50K		Thunderstorm Wind (G50)
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The Cordele county 911 center reported that two trees were blown down.

Lamar County

Barnesville	30	1412EST			0	0			Hail (0.75)
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The public reported penny-sized hail.

Crawford County

8 NE Knoxville	30	1435EST			0	0	1K		Thunderstorm Wind (G50)
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The Crawford county 911 center reported that a few trees were blown down along U.S. 80 between Sandy Point and the Bibb county line.

Bibb County

5 W Macon	30	1448EST			0	0	5K		Thunderstorm Wind (G50)
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The Bibb county sheriff's office reported that a number of trees were down west of Macon on Columbus Road. The Lamar County Electric Member Cooperative reported that a number of power lines were down as a result.

Fulton County

4 N Atlanta to 5 NW Atlanta	30	1450EST			0	0	5K		Flash Flood
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The public reported that extensive flooding was occurring on the campus and grounds of Georgia Tech University north of Atlanta near the Interstate-75/Interstate-85 split. Water was 2 feet deep on some roads and parking lots on the campus. To the northwest, more flash flooding was noted. A resident on Northside Parkway off Interstate-75 reported up to seven feet of water in their yard, which was a result of an adjacent creek overflowing its banks.

Storm Data and Unusual Weather Phenomena

June 2003

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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GEORGIA, North and Central

Laurens County

3 W Rentz to 4 NE Rentz	30	1520EST 1553EST			0	0	3K		Thunderstorm Wind (G50)
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The Laurens county Emergency Management Director reported that a number of trees were blown down along U.S. Highway 441 just northeast of Rentz and that three trees were down near Georgia Highway 338 between Dexter and Cadwell. The public also reported that some trees were down in Rentz.

Carroll County

East Portion	30	1647EST 1730EST			0	0	5K		Flash Flood
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The Carroll county 911 center reported that a number of roads across the eastern portion of the county were flooded and closed.

Douglas County

Fairplay	30	1655EST 1730EST			0	0			Flash Flood
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The public reported that Georgia Highway 166 was covered with several inches of flowing water.

Crisp County

3 S Coney	30	2045EST			0	0	10K		Thunderstorm Wind (G52)
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A SkyWarn spotter reported that three to four large trees were blown down on North Cedar Creek Road, three telephone poles were snapped in half on Coney Road just south of McKinney Road and a brick sign was blown down. The spotter estimated that wind gusts were between 50 and 70 mph.

GEORGIA, Northeast

Stephens County

Toccoa	11	1300EST			0	0			Thunderstorm Wind (G50)
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Several trees were blown down.

Habersham County

Cornelia	12	1740EST			0	0			Hail (0.75)
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Stephens County

3 SE Toccoa	16	1700EST			0	0			Hail (0.88)
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GEORGIA, Southeast

Chatham County

6 E (Sav)Savannah Intl	03	1630EST 1635EST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down trees across Highway 17 and Quaco road.

Bryan County

6 E Pembroke	16	1745EST 1750EST			0	0			Thunderstorm Wind (G50)
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Thunderstorm winds knocked down trees and signs along highway 204.

GEORGIA, Southwest

Thomas County

Boston	15	2215EST			0	0	10K		Lightning
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Lightning damaged the dome of a local church. Reported by the Thomasville Times.

Lowndes County

Countywide	16	1645EST 1700EST			0	0	2K		Thunderstorm Wind (G50)
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Several trees down reported by the Lowndes County EMA.

GAZ130

Ben Hill

16		2000EST 2100EST			0	0	15K		Flood
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Torrential rains from thunderstorms flooded several county roads and businesses. Reported by the Ben Hill County EMA.

Early County

1 W Blakely to 1 NW Blakely	30	1900EST 1910EST	2	75	0	0	125K		Tornado (F1)
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A tornado touched down near Highway 62, just west of Blakely. The tornado lifted a mobile home off its foundation, destroyed a barn, damaged several homes and uprooted numerous trees. Reported by the Early County Deputy Sheriff.

GULF OF MEXICO

Florida Bay

7 W Marathon	01	1042EST 1045EST			0	0			Waterspout
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Narrow waterspout observed one mile north of the west end of 7 Mile Bridge.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Gulf Side Of The Lower Keys Out 20Nm									
7 W Marathon	01	1042EST 1045EST			0	0			Waterspout
Narrow waterspout observed one mile north of the 7 Mile Bridge.									
Gulf Side Of The Lower Keys Out 20Nm									
3 NE Big Pine Key	01	1200EST 1207EST			0	0			Waterspout
Waterspout observed one mile north of No Name Key.									
W End Of The 7 Mile Bridge To Key W Out 20Nm									
8 E Key West	01	1248EST 1255EST			0	0			Waterspout
Waterspout observed one mile south of Big Coppitt Key. Also observed by trained spotter.									
W End Of The 7 Mile Bridge To Key W Out 20Nm									
11 WSW Big Pine Key	01	1801EST 1804EST			0	0			Waterspout
Waterspout observed 2 miles south of Cudjoe Key.									
Galveston Bay									
Morgans Point	02	1754CST			0	0			Marine Tstm Wind
Measured at Morgans Point PORTS.									
Lake Ponchartrain And Lake Maurepas									
Lkfrnt Arpt New Sw Pass Of The Ms R To Atchafalaya R La Out 20Nm	02	2122CST			0	0			Marine Tstm Wind
Grand Isle Sw Pass Of The Ms R To Atchafalaya R La Out 20Nm	02	2137CST			0	0			Marine Tstm Wind
20 S Venice Pascagoula Ms To Sw Pass Of Ms R 20 To 60Nm	03	0104CST			0	0			Marine Tstm Wind
45 E Venice	03	0446CST			0	0			Marine Tstm Wind
Mobile Bay									
Alabama Port	03	1235CST 1236CST			0	0			Marine Tstm Wind
Tarpon Springs To Suwannee River Fl Out 20Nm									
8 SSW Bayport	03	1840EST			0	0			Marine Tstm Wind
The wind gust was measured by the COMPS weather station near Aripeka.									
Atchafalaya R To Cameron La Out 20Nm									
16 SE Cameron	03	2220CST			0	0			Marine Tstm Wind
Corpus Christi To Baffin Bay									
South Bird Island	04	0545CST			0	0			Marine Tstm Wind
Reported by TCOON site.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Tarpon Springs To Suwannee River Fl Out 20Nm									
Cedar Key	04	0900EST			0	0			Marine Tstm Wind
	Thunderstorm wind gust measured at the Cedar Key CMAN weather station.								
Lake Ponchartrain And Lake Maurepas									
Lkfrnt Arpt New	04	1604CST			0	0			Marine Tstm Wind
Freeport To Matagorda Ship Chnl Out 20Nm									
20 SW Matagorda	05	1400CST			0	0			Marine Tstm Wind
	Measured at Port O'Connor TCOON.								
Pt O'Connor To Aransas Pass									
Port O'Connor	05	1400CST			0	0			Marine Tstm Wind
Matagorda Ship Chnl To Pt Aransas Out 20Nm									
Pltfm 17Se Prt Arnsas	05	1454CST			0	0			Marine Tstm Wind
Pt Aransas To Baffin Bay Tx Out 20Nm									
5 SW Bob Hall Pier	05	1500CST			0	0			Marine Tstm Wind
Corpus Christi To Baffin Bay									
Port Aransas	05	1536CST			0	0			Marine Tstm Wind
Pt Aransas To Baffin Bay Tx Out 20Nm									
Bob Hall Pier	05	1600CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
30 S Dauphin Island	06	0240CST 0242CST			0	0			Marine Tstm Wind
Mobile Bay									
Point Clear	06	0400CST 0402CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms Out 20Nm									
20 S Dauphin Island	06	0400CST 0402CST			0	0			Marine Tstm Wind
Mobile Bay									
1 E Alabama Port	06	1140CST 1141CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms Out 20Nm									
Dauphin Island	06	1140CST 1141CST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Pt O'Connor To Aransas Pass									
6 N Mesquite Bay	06	1522CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms Out 20Nm									
1 S Gulf Shores	10	1255CST 1258CST			0	0			Waterspout
A waterspout was observed over the gulf just south of Gulf Shores. The waterspout remained visible for several minutes before dissipating over the water.									
Lake Ponchartrain And Lake Maurepas									
Lkfrnt Arpt New	11	0932CST			0	0			Marine Tstm Wind
Key W To Dry Tortugas Waters									
Dry Tortugas	11	2232EST			0	0			Marine Tstm Wind
Wind gust 34 knots (39 mph) recorded at Dry Tortugas CMAN station.									
Ocean Reef To Craig Key Fl Out 20Nm									
7 SE Key Largo	12	0130EST			0	0			Marine Tstm Wind
Wind gust 42 knots (48 mph) recorded at Molasses Reef CMAN station.									
Florida Bay									
Flamingo	12	0206EST			0	0			Marine Tstm Wind
Wind gust 37 knots (43 mph) recorded at Flamingo HANDAR station.									
Sw Pass Of The Ms R To Atchafalaya R La Out 20Nm									
Grand Isle	13	0529CST			0	0			Marine Tstm Wind
Tampa Bay									
Old Tampa Bay	13	1853EST 1859EST			0	0			Marine Tstm Wind
The wind gust was measured at the St. Petersburg/Clearwater Airport.									
Galveston Bay									
10 SSE Texas City	13	2037CST			0	0			Marine Tstm Wind
Measured at KGLS.									
High Is To Freeport Tx Out 20Nm									
9 SW Galveston	13	2051CST			0	0			Marine Tstm Wind
Measured at Jamaica Beach.									
High Is To Freeport Tx Out 20Nm									
9 SW Galveston	13	2052CST			0	0			Marine Tstm Wind
Measured at Jamaica Beach.									
Galveston Bay									
South Jetty	13	2100CST			0	0			Marine Tstm Wind
Measured at South Jetty TCOON.									
Corpus Christi To Baffin Bay									
South Bird Island	13	2300CST			0	0			Marine Tstm Wind
Matagorda Ship Chnl To Pt Aransas Out 20Nm									
Pltfm 17Se Prt Arnsas	13	2300CST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Matagorda Ship Chnl To Pt Aransas Tx 20 To 60Nm									
Pt Aransas To Baffin Bay Tx 20 To 60Nm	13	2300CST			0	0			Marine Tstm Wind
30 E Corpus Christi Pt Aransas To Baffin Bay Tx Out 20Nm	13	2300CST			0	0			Marine Tstm Wind
Bob Hall Pier Pt Aransas To Baffin Bay Tx Out 20Nm	13	2300CST			0	0			Marine Tstm Wind
15 S Port Aransas Matagorda Ship Chnl To Pt Aransas Tx 20 To 60Nm	13	2300CST			0	0			Marine Tstm Wind
90 E Port Aransas Bonita Beach To Englewood Fl Out 20Nm	14	0000CST			0	0			Marine Tstm Wind
Charlotte Harbor	14	1709EST 1713EST			0	0			Waterspout
The waterspout touched down near Burnt Store Road and motorists as far away as U.S. Highway 41 pulled off the highway to get a better view.									
Tampa Bay									
Middle Tampa Bay	14	1927EST 1936EST			0	0			Waterspout
The waterspout was reported to be 3 miles south of the MacDill Air Force Base.									
High Is To Freeport Tx Out 20Nm									
High Is	15	0820CST			0	0			Waterspout
Two waterspouts sighted off Crystal Beach.									
Galveston Bay									
3 NW Beach City	15	0836CST			0	0			Marine Tstm Wind
Measured by Coast Guard just outside Houston Ship Channel.									
High Is To Freeport Tx Out 20Nm									
Pleasure Pier	15	0848CST			0	0			Marine Tstm Wind
Measured at Pleasure Pier PORTS.									
Freeport To Matagorda Ship Chnl 20 To 60Nm									
Buoy 42019	15	1100CST			0	0			Marine Tstm Wind
Measured at Buoy 42019.									
Bonita Beach To Englewood Fl Out 20Nm									
7.8 NNW Captiva Pass	15	1022EST 1025EST			0	0			Waterspout
A trained SKYWARN spotter reported the waterspout 1/4 mile offshore of the northern tip of Pine Island from a small rain shower.									
Pascagoula Ms To Sw Pass Of Ms R Out 20Nm									
1 S Biloxi	16	0753CST			0	0			Waterspout
Three waterspouts were observed by the public.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Galveston Bay									
5 N Texas City	17	1214CST			0	0			Waterspout
			Waterspout near Dickinson Bay.						
Englewood To Tarpon Springs Fl Out 20Nm									
4 W Longboat Key	18	1025EST			0	0			Waterspout
			The waterspout was reported by law enforcement.						
Galveston Bay									
West Bay	18	1210CST			0	0			Waterspout
			Two waterspots in the Chocolate Bayou/Chocolate Bay area.						
Englewood To Tarpon Springs Fl Out 20Nm									
8 NW St Petersburg Bea	18	1218EST			0	0			Waterspout
Destin To Pensacola Fl Out 20Nm									
2 S Navarre	19	0800CST 0805CST			0	0			Waterspout
			A large waterspout was observed over the gulf just south of Navarre Beach. The waterspout remained offshore and dissipated over the water.						
Pensacola Fl To Pascagoula Ms Out 20Nm									
Gulf Shores	20	1000CST 1003CST			0	0			Waterspout
			A waterspout was observed over the gulf just south of Gulf Shores. The spout remained over the gulf and dissipated over the open water.						
Destin To Pensacola Fl Out 20Nm									
Pensacola Beach	22	1545CST 1550CST			0	0			Waterspout
			A large waterspout was observed over Pensacola Bay. The spout remained over the bay and dissipated over the water. The spout was visible by many people because of its location in the bay.						
Pensacola Fl To Pascagoula Ms Out 20Nm									
Perdido Key	22	1600CST 1603CST			0	0			Waterspout
			A waterspout was observed just west of Pensacola Pass. The spout remained offshore and dissipated over the open water.						
Apalachicola To Destin Fl Out 20Nm									
7 W Miramar Beach to 6 WSW Miramar Beach	23	1050EST 1100EST			0	0			Waterspout
			Several waterspouts sighted by the public along the coast west of Seaside and just southeast of San Destin. Reported by the Walton County EMA.						
Florida Bay									
1 N Marathon	23	1240EST			0	0			Waterspout
			Waterspout observed one mile north of Marathon.						
Ocean Reef To Craig Key Fl Out 20Nm									
7 SE Key Largo	23	1418EST			0	0			Marine Tstm Wind
			Wind gust 35 knots (40 mph) recorded at Molasses Reef CMAN station.						
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm									
7 S Marathon	25	0314EST			0	0			Marine Tstm Wind
			Wind gust 40 knots (46 mph) recorded at Sombrero Key CMAN station at elevation of 158 feet above sea level.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Key W To Dry Tortugas Waters									
7 SW Key West	25	1208EST			0	0			Marine Tstm Wind
									Wind gust 36 knots (41 mph) recorded at Sand Key CMAN station.
Galveston Bay									
9 N Smith Pt	26	0742CST			0	0			Waterspout
									Waterspout sighted near Oak Island in Trinity Bay.
Galveston Bay									
Eagle Point	26	0758CST			0	0			Waterspout
									Waterspout near Redfish Island (reported by Coast Guard).
Pascagoula Ms To Sw Pass Of Ms R Out 20Nm									
10 S Biloxi	27	1307CST			0	0			Waterspout
									A waterspout was observed near Ship Island.
Pascagoula Ms To Sw Pass Of Ms R Out 20Nm									
.2 S Biloxi	27	1445CST			0	0			Waterspout
									Two waterspouts were observed over Biloxi Bay
Pensacola Fl To Pascagoula Ms Out 20Nm									
Dauphin Island	27	1700CST 1704CST			0	0			Waterspout
									A large waterspout was observed just east of Dauphin Island. The spout moved across the entrance of Mobile Bay before dissipating over the water.
Mobile Bay									
Pinto Island	27	1710CST 1711CST			0	0			Marine Tstm Wind
Key W To Dry Tortugas Waters									
7 SW Key West	27	2120EST 2139EST			0	0			Marine Tstm Wind
									10-minute average wind 36 to 37 knots recorded at Sand Key CMAN station.
Key W To Dry Tortugas Waters									
7 SW Key West	27	2128EST			0	0			Marine Tstm Wind
									Wind gust 45 knots (52 mph) recorded at Sand Key CMAN station.
Gulf Side Of The Lower Keys Out 20Nm									
Key West	27	2130EST			0	0			Marine Tstm Wind
									Wind gust 36 knots (41 mph) recorded at Key West International Airport.
W End Of The 7 Mile Bridge To Key W Out 20Nm									
Key West	27	2130EST			0	0			Marine Tstm Wind
									Wind gust 36 knots (41 mph) recorded at Key West International Airport.
Gulf Side Of The Lower Keys Out 20Nm									
Key West	27	2151EST			0	0			Marine Tstm Wind
									Wind gust 37 knots (43 mph) recorded at Key West International Airport.
W End Of The 7 Mile Bridge To Key W Out 20Nm									
Key West	27	2151EST			0	0			Marine Tstm Wind
									Wind gust 37 knots (43 mph) recorded at Key West International Airport.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Gulf Side Of The Lower Keys Out 20Nm									
6 E Key West	27	2139EST 2155EST			0	0			Marine Tstm Wind
Wind gusts 38 to 42 knots (44 to 48 mph) recorded at Key West Naval Air Facility on Boca Chica Key.									
W End Of The 7 Mile Bridge To Key W Out 20Nm									
6 E Key West	27	2139EST 2155EST			0	0			Marine Tstm Wind
Wind gusts 38 to 42 knots (44 to 48 mph) recorded at Key West Naval Air Facility on Boca Chica Key.									
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm									
7 S Marathon	27	2155EST			0	0			Marine Tstm Wind
Wind gust 50 knots (58 mph) recorded at Sombrero Key CMAN station at 158 feet above sea level.									
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm									
7 S Marathon	27	2203EST			0	0			Marine Tstm Wind
Wind gust 45 knots (52 mph) recorded at Sombrero Key CMAN station at 158 feet above sea level.									
Destin To Pensacola Fl Out 20Nm									
Navarre	28	1010CST 1013CST			0	0			Waterspout
A waterspout was observed over the gulf just south of Navarre Beach. The spout remained offshore and dissipated over the water.									
Englewood To Tarpon Springs Fl Out 20Nm									
Clearwater Beach	28	2114EST			0	0			Marine Tstm Wind
Thunderstorm gust was measured by amateur radio weather station.									
Tarpon Springs To Suwannee River Fl Out 20Nm									
4 SSW Bayport	28	2136EST			0	0			Marine Tstm Wind
Wind gust was measured by an amateur radio weather station.									
Englewood To Tarpon Springs Fl 20 To 60Nm									
9 SSE St Petersburg Be	28	2148EST			0	0			Marine Tstm Wind
Thunderstorm gust measured near the Sunshine Skyway Bridge by a PORTS observation station.									
Englewood To Tarpon Springs Fl Out 20Nm									
14 NNW St Petersburg E	28	2154EST			0	0			Marine Tstm Wind
The thunderstorm gust was measured by an amateur radio weather station along the coast.									
Tampa Bay									
Old Tampa Bay	28	2204EST			0	0			Marine Tstm Wind
Sw Pass Of The Ms R To Atchafalaya R La Out 20Nm									
20 S Venice	29	1358CST			0	0			Marine Tstm Wind
Sw Pass Of The Ms R To Atchafalaya R La Out 20Nm									
20 S Venice	29	1413CST			0	0			Marine Tstm Wind
Englewood To Tarpon Springs Fl Out 20Nm									
4.5 NW Longboat Key	29	1925EST 1941EST			0	0	5K		Marine Tstm Wind
A house boat lost part of its roof and broke loose from its anchorage which damaged the pier.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Ocean Reef To Craig Key Fl Out 20Nm									
7 SE Key Largo	29	2243EST			0	0			Marine Tstm Wind
Wind gust 37 knots (43 mph) recorded at Molasses Reef CMAN station.									
Key W To Dry Tortugas Waters									
Dry Tortugas	30	0057EST			0	0			Marine Tstm Wind
Wind gust 39 knots (45 mph) recorded at Dry Tortugas CMAN station.									
Key W To Dry Tortugas Waters									
7 SW Key West	30	0238EST			0	0			Marine Tstm Wind
Wind gust 35 knots (40 mph) recorded at Sand Key CMAN station.									
Mobile Bay									
Alabama Port	30	0400CST 0401CST			0	0			Marine Tstm Wind
Destin To Pensacola Fl Out 20Nm									
5 S Pensacola Beach	30	0815CST 0817CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms Out 20Nm									
5 S Dauphin Island to 10 S Dauphin Island	30	0930CST 0933CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
20 S Dauphin Island to 40 S Dauphin Island	30	0930CST 0935CST			0	0			Marine Tstm Wind
Destin To Pensacola Fl 20 To 60Nm									
30 S Pensacola Beach to 40 S Pensacola Beach	30	0930CST 0935CST			0	0			Marine Tstm Wind
Destin To Pensacola Fl Out 20Nm									
Destin	30	1035CST 1038CST			0	0			Waterspout
A waterspout was observed over Choctawatchee Bay near the Mid Bay Bridge. The spout remained over the bay and dissipated over the water.									
Pensacola Fl To Pascagoula Ms Out 20Nm									
5 S Dauphin Island to 10 S Dauphin Island	30	1450CST 1453CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
20 S Dauphin Island to 40 S Dauphin Island	30	1450CST 1453CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms Out 20Nm									
10 S Dauphin Island	30	1600CST 1603CST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>GULF OF MEXICO</u>									
Pensacola Fl To Pascagoula Ms Out 20Nm									
Dauphin Island	30	1835CST 1837CST			0	0			Marine Tstm Wind
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
25 S Dauphin Island	30	1835CST 1838CST			0	0			Marine Tstm Wind
Destin To Pensacola Fl 20 To 60Nm									
20 S Destin to 30 S Destin	30	1835CST 1840CST			0	0			Marine Tstm Wind
Destin To Pensacola Fl Out 20Nm									
15 S Destin	30	1930CST 1932CST			0	0			Marine Tstm Wind
Mobile Bay									
Alabama Port	30	2130CST 2330CST			0	0			Marine Tstm Wind
A large area of winds greater that 40 knots covered most of Mobile Bay for a couple of hours as Tropical Storm Bill moved ashore west of our area.									
Pensacola Fl To Pascagoula Ms Out 20Nm									
Dauphin Island to 20 S Perdido Key	30	2130CST 2330CST			0	0			Marine Tstm Wind
A large area of winds greater that 40 knots covered most of the marine area for a couple of hours as Tropical Storm Bill moved ashore west of our area.									
Destin To Pensacola Fl Out 20Nm									
Pensacola Beach to 20 S Destin	30	2130CST 2330CST			0	0			Marine Tstm Wind
A large area of winds greater that 40 knots covered most of the marine area for a couple of hours as Tropical Storm Bill moved ashore west of our area.									
Pensacola Fl To Pascagoula Ms 20 To 60Nm									
20 S Dauphin Island to 50 S Perdido Key	30	2130CST			0	0			Marine Tstm Wind
A large area of winds greater that 40 knots covered most of the offshore marine area for a couple of hours as Tropical Storm Bill moved ashore west of our area.									
Destin To Pensacola Fl 20 To 60Nm									
20 S Pensacola Beach to 50 S Destin	30	2130CST 2330CST			0	0			Marine Tstm Wind
A large area of winds greater that 40 knots covered most of the offshore marine area for a couple of hours as Tropical Storm Bill moved ashore west of our area.									
<u>HAWAII</u>									
Honolulu County									
Haleiwa to Kaneohe	04	1500HST 2000HST			0	0			Heavy Rain
Heavy showers produced ponding of roadways, and small stream and drainage ditch flooding in northern, central and windward parts of Oahu. There were no reports of serious property damage or injuries.									
Kauai County									
6 W Wailua	05	1300HST 1530HST			0	0			Heavy Rain

Storm Data and Unusual Weather Phenomena

June 2003

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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HAWAII

quickly rise from rain that had fallen in central parts of Kauai, near Mt. Waialeale. All the people involved in the outing made in safely back to the mouth of the river, and there was no serious property damage.

Honolulu County

Whitmore Village to
Mililani Town

05	1327HST 1600HST				0	0			Heavy Rain
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Heavy showers and isolated thunderstorms caused small stream and drainage ditch flooding, and ponding of roadways, in central sections of Oahu. No serious property damage or injuries were reported.

Kauai County

Kilauea to
Wailua

05	1332HST 1555HST				0	0			Heavy Rain
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Heavy showers produced ponding of roadways, and small stream and drainage ditch flooding in northeast parts of Kauai. No serious injuries or property damage were reported.

Honolulu County

Kahuku to
Mililani Town

06	1430HST 1617HST				0	0			Heavy Rain
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Heavy showers and thunderstorms caused small stream and drainage ditch flooding, and ponding of roadways, in northern and central areas of Oahu. There were no reports of serious property damage or injuries.

HIZ001>008

Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona - South Hawaii Including Kau

07	0600HST				0	0			Heavy Surf/High Surf
08	0700HST								

A storm low in the southern hemisphere generated surf of 5 to 10 feet along the south-facing shores of all the Hawaiian Islands. No serious injuries or property damage were reported.

Honolulu County

2 NW Whitmore Village

07	1200HST 1615HST				0	0			Wildfire
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A fire burned about 50 acres near Dole Plantation, along a mile stretch of Kamehameha Highway. The roadway was closed for a time because of the blaze. Forty firefighters from ten units fought the brush fire. There were no serious injuries or property damage, and the cause of the blaze was unknown.

Honolulu County

Waialua to
Mililani Town

07	1403HST 1715HST				0	0			Heavy Rain
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Heavy showers and thunderstorms produced ponding of roadways, and small stream and drainage ditch flooding in northern and central sections of Oahu. No serious property damage or injuries were reported.

Kauai County

Hanapepe to
Koloa

07	1421HST 1715HST				0	0			Heavy Rain
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Heavy showers caused small stream and drainage ditch flooding, and ponding of roadways, in southern and southeastern parts of Kauai. There were no reports of serious injuries or property damage.

Honolulu County

3 NE Mililani Town

07	1501HST 1510HST	0	10		0	0			Tornado (F0)
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A weak tornado was seen by a National Weather Service spotter over the Koolau mountain range above Mililani, in central Oahu. The feature began to move southward toward Pearl City and dissipated before being able to do any property damage or cause any injuries.

Honolulu County

Whitmore Village to
Mililani Town

08	1230HST 1530HST				0	0			Heavy Rain
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Heavy showers and thunderstorms produced ponding of roadways, and small stream and drainage ditch flooding in central areas of Oahu. The heavy rain also caused a mudslide that closed Kamehameha Highway between Wahiawa and Mililani for several hours. However, there were no reports of serious property damage or injuries.

Storm Data and Unusual Weather Phenomena

June 2003

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

HIZ001>008

Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona - South Hawaii Including Kau

17	1300HST								
19	1200HST				0	3			Heavy Surf/High Surf

A deep storm low east of New Zealand generated surf of 6 to 16 feet along the south-facing shores of all the islands. The unusually high surf for the south shores of the isles kept lifeguards busy, especially on the 18th of June and mainly on Oahu at Ala Moana Beach Park and Waikiki. The lifeguards rescued around 400 swimmers and surfers, and assisted nearly 800 more. More than 100 surfers had their boards broken by the pounding waves. A small boat was overturned by the high waves as it left the Ala Wai Yacht Harbor, and four people were thrown overboard. All were rescued by the Coast Guard, with one man sustaining minor injuries. The boat harbor was later closed for the rest of the afternoon. Two other individuals were hurt, one on Oahu and the other on Maui. The person on Maui sustained a spinal injury, though its seriousness was not known. No serious property damage was reported.

Maui County

4.5 NW Maunaloa to	25	1330HST							
6.5 NW Kaunakakai	30	1600HST			0	1			Wildfire

Six wildfires blackened about 3000 acres of mostly brush land in inaccessible parts of western and central Molokai. However, one of the blazes did briefly threaten homes in Maunaloa and forced the temporary evacuation of Molokai Ranch campsites. No other homes or structures were threatened by the fires. A helicopter, one of three helping to fight the fires, crashed about 1315 on the 26th of June. The pilot of the aircraft sustained injuries, but they were not life-threatening. Firefighters from Molokai and Maui battled the fires; along with Molokai Ranch crews that used heavy equipment to make fire breaks. The causes of the blazes were unknown, though a fire official said they were suspicious in nature.

IDAHO, Extreme Southeast

Franklin County

Weston	20	0448MST							
		0450MST			0	0	2K	0	Thunderstorm Wind (G52)

Strong microburst winds knocked trees and power lines down in Weston, Idaho.

IDAHO, North

NONE REPORTED.

IDAHO, Northwest

Bonner County

Oldtown	10	1420PST							
					0	0			Hail (1.00)

Bonner County

Priest River	10	1440PST							
					0	0			Hail (0.88)

Bonner County

5 S Sandpoint	10	1515PST							
					0	0			Hail (0.75)

Bonner County

Sandpoint	10	1515PST							
					0	0			Thunderstorm Wind (G60)

Kootenai County

Post Falls	10	1607PST							
					0	0			Hail (1.00)

During the afternoon of June 10th a cluster of thunderstorms formed over northern Idaho. Spotters in Bonner and Kootenai Counties reported hail diameters ranging from 3/4 of an inch to one inch. Gusty downburst winds also accompanied some of these storms with a report of a tree being blown down near Sandpoint and power lines downed near Priest River.

IDAHO, Southeast

Jefferson County

Montevieu	15	1735MST							
		1742MST			0	0			Hail (1.25)

Minidoka County

Paul	18	1835MST							
		1845MST			0	0	20K		Thunderstorm Wind (G75)

Thunderstorm wind overturned a trailer home in Paul.

Butte County

20 SW Arco	19	1427MST							
		1432MST			0	0			Thunderstorm Wind (G60)

69 mph winds at Craters of the Moon National Monument.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IDAHO, Southeast</u>									
Bannock County									
Swanlake	20	1804MST 1810MST			0	0			Hail (0.75)
<u>IDAHO, Southwest</u>									
Elmore County									
Mountain Home Afb	18	1330MST 1340MST			0	0			Thunderstorm Wind (G66)
Wide spread Thunderstorms developed over southwest Idaho ahead of a cold front moving across Eastern Oregon.									
Elmore County									
Mountain Home Afb	19	1325MST 1335MST			0	0			Thunderstorm Wind (G60)
Owyhee County									
3 S Reynolds	19	1840MST 1850MST			0	0			Hail (0.75)
Payette County									
Fruitland	19	1855MST 1910MST			0	0			Thunderstorm Wind (G65)
Gem County									
Emmett	19	1910MST 1920MST			0	0			Thunderstorm Wind (G60)
A very moist upper level trough moving eastward across southern Idaho produced wide spread Thunderstorms over the region. Several Severe Thunderstorms occurred with winds in excess of 60 mph. Hail to three quarters of an inch was reported three miles south of Reynolds Creek in Owyhee county.									
<u>ILLINOIS, Central</u>									
ILZ031									
Woodford									
10		0615CST 0622CST			0	0			High Wind (G52)
High gradient winds blew down numerous trees, tree limbs and power lines. Several sheds and barns were damaged.									
De Witt County									
3 SW Weldon	11	1710CST	0.1	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field. No damage or injuries were reported.									
Sangamon County									
4 N Buffalo	11	1720CST	0.1	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field. No damage or injuries were reported.									
Sangamon County									
3 N Illiopolis	11	1722CST	0.1	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field. No damage or injuries were reported.									
De Witt County									
1 N Weldon	11	1725CST 1726CST	0.2	10	0	0		0	Tornado (F0)
A tornado briefly touched down in a field. It blew down a couple of power lines near the intersection of Illinois Route 10 and Illinois Route 48. No injuries were reported.									
Logan County									
1 SW Mt Pulaski	11	1725CST	0.1	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field. No damage or injuries were reported.									
Macon County									
1 NE Niantic	11	1730CST	0.1	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field. No damage or injuries were reported.									
Logan County									
2 S Cornland	11	1738CST	0.1	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field. No damage or injuries were reported.									
Logan County									
1 SW Lake Fork	11	1738CST	0.1	10	0	0	0	0	Tornado (F0)
A tornado briefly touched down in a field. No damage or injuries were reported.									
Logan County									
Latham	11	1815CST 1915CST			0	0			Flash Flood
Very heavy rain fell in a short amount of time. Several rural roads around Latham were flooded due to the heavy rains.									

Storm Data and Unusual Weather Phenomena

June 2003

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									
Vermilion County									
Potomac	11	1935CST 2035CST			0	0			Flash Flood
			Very heavy rain fell in a short amount of time over the northern portions of Vermilion County. U.S. Route 136 was briefly flooded with 6 to 8 inches of water near Potomac.						
Piatt County									
Countywide	11	1952CST 2052CST			0	0			Flash Flood
			Very heavy rain fell in a short amount of time countywide. Several rural roads were flooded and a couple were washed out.						
Sangamon County									
Springfield	11	2002CST 2100CST			0	0			Flash Flood
			Very heavy rain fell in a short amount of time. This caused several streets in Springfield to become flooded, especially underpasses.						
McLean County									
1 NE Kumler	13	1700CST	0.1	10	0	0		0	Tornado (F0)
			A tornado briefly touched down and blew the roof off of a shed. No injuries were reported.						
Schuyler County									
Brooklyn to 7 ENE Littleton	25	1734CST 1745CST			0	0			Thunderstorm Wind (G55)
			Thunderstorm winds blew down numerous trees and power lines. No injuries were reported.						
Fulton County									
Countywide	25	1745CST 1815CST			0	0			Thunderstorm Wind (G55)
			Severe storms moved across Fulton county, blowing down numerous trees, tree limbs and power lines. Also, the roof of a silo was blown off west of Farmington and the walls of a new gymnasium in the process of being built in Farmington were blown down. No injuries were reported.						
Knox County									
Abingdon	25	1800CST			0	0			Thunderstorm Wind (G52)
Peoria County									
5 W Trivoli to Peoria	25	1800CST 1830CST			0	0			Thunderstorm Wind (G61)
			Thunderstorm winds blew down numerous trees, tree limbs and power lines over the southern half of Peoria county. Several unoccupied cars were destroyed in Peoria due to fallen trees. No injuries were reported.						
Mason County									
5 SW Manito	25	1830CST			0	0			Thunderstorm Wind (G55)
			Several trees were blown down in the Sand Ridge State Forest.						
Tazewell County									
Countywide	25	1830CST 1910CST			0	0			Thunderstorm Wind (G60)
			Thunderstorms winds blew down numerous trees, tree limbs and power lines, especially in the northern half of the county. Several cars in a shopping center parking lot in Morton were damaged due to flying debris. No injuries were reported.						
Woodford County									
Germantown Hills	25	1842CST			0	0			Thunderstorm Wind (G54)
			Several trees were blown down around town.						
Peoria County									
Peoria	28	1504CST			0	0			Thunderstorm Wind (G52)
Tazewell County									
1 N Washington to Washington	28	1522CST 1530CST			0	0			Hail (1.75)
Woodford County									
2 SE Germantown Hills Congerville	28	1526CST 1600CST			0	0			Hail (1.50)
Woodford County									
1 N Congerville to Congerville	28	1557CST 1558CST			0	0			Thunderstorm Wind (G63)
			Thunderstorm winds blew down several large tree limbs.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ILLINOIS, Central</u>									
Peoria County									
1 S Norwood	28	2056CST			0	0			Thunderstorm Wind (G52)
Champaign County									
1 W Broadlands	29	1525CST			0	0			Thunderstorm Wind (G55)
Several trees were blown down.									
Champaign County									
Ogden	29	1530CST 1545CST			0	0			Hail (0.75)
Morgan County									
Meredosia	29	1600CST			0	0			Hail (0.75)
Macon County									
Decatur	29	1702CST 1708CST			0	0			Hail (0.88)
Sangamon County									
Springfield Arpt to .5 S Dawson	29	1705CST 1734CST			0	0			Thunderstorm Wind (G55)
Thunderstorm winds snapped off two power poles near Dawson. Also, numerous tree limbs and power lines were blown down on the north side of Springfield.									
Piatt County									
Cerro Gordo	29	1725CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds blew down several tree limbs and power lines. Also, a shed was damaged and a power pole was blown over.									
<u>ILLINOIS, Northeast</u>									
ILZ032 Livingston									
	10	0700CST 0900CST			0	0			High Wind (G60)
Winds gusting between 60 and 70 mph blew down trees and power lines in Pontiac and Fairbury across southern Livingston county.									
ILZ013 Du Page									
	10	0930CST			0	0	5K		Strong Wind
A one and one half foot diameter tree limb fell onto two cars in Winfield in Dupage county.									
De Kalb County									
2 NE Shabbona Grove to 2.5 NE Shabbona Grove	10	1730CST 1731CST	0.5	50	0	0			Tornado (F0)
A brief tornado touched down about two miles northeast of Shabbona Grove. The tornado damaged some crops but was only on the ground for about one minute.									
ILZ014 Cook									
	24	0800CST			1	0			Excessive Heat
	25	2000CST							
High temperatures reached the lower 90s on June 24th and 25th across Chicago causing one person to die from the heat. M66PH									
Ogle County									
Mt Morris	25	1445CST 1450CST			0	0			Thunderstorm Wind (G60)
A severe thunderstorm blew down trees, tree limbs and power lines across a two block area of Mt. Morris. An estimated 25 trees lost large limbs or were completely blown over. Some damage to cars and siding of homes occurred.									
Kankakee County									
4 W Bonfield	28	1430CST 1435CST			0	0			Hail (1.00)
Kankakee County									
4 W Bonfield	28	1430CST			0	0			Thunderstorm Wind (G50)
Kankakee County									
7 E Kankakee	28	1454CST			0	0			Thunderstorm Wind (G55)
Winnebago County									
Countywide	28	1625CST 1645CST			0	0			Thunderstorm Wind (G55)
Ogle County									
Mt Morris	28	1643CST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
La Salle County									
1 N Ottawa to Ottawa	28	1843CST 1848CST			0	0			Hail (1.00)
La Salle County									
Ottawa	28	1845CST			0	0			Thunderstorm Wind (G50)
Thunderstorms developed across northern Illinois during the afternoon and evening hours of June 28th. Tree limbs were blown down west of Kankakee and large trees were blown down at Illinois Route 1 and Route 17, east of Kankakee. Tree limbs were blown down in Ottawa in LaSalle county at Gentlemen Road and Third Street. Trees and tree limbs were blown down across many parts of Winnebago county. Tree limbs and power lines were blown down in Mt. Morris in Ogle county. Hail was also reported across a few locations. The largest hail, 1.50 inch diameter, fell across parts of southern Grundy county.									
<u>ILLINOIS, Northwest</u>									
Stephenson County									
3 W German Vly	14	1415CST 1417CST	0	50	0	0		1K	Tornado (F0)
Also reported by spotters									
Carroll County									
2.5 W Lanark	14	1420CST 1425CST	0.1	50	0	0		5K	Tornado (F0)
Near Jct US 52/IL 64 & Dame Rd									
Carroll County									
2 SE Mt Carroll	14	1426CST 1431CST	0.1	50	0	0		5K	Tornado (F0)
Just South of Jct IL 40 & Cyclone Ridge Rd									
Carroll County									
2 S Shannon	14	1430CST 1435CST	0.1	50	0	0		5K	Tornado (F0)
Near Jct Locust & Shannon Rte Rds									
Stephenson County									
.5 NE Florence to 3 S Freeport	14	1430CST 1438CST	0.5	50	0	0		15K	Tornado (F0)
Dissipated near IL 26 & Park Rd.									
Stephenson County									
7 SE Freeport	14	1457CST 1501CST			0	0			Funnel Cloud
Stephenson County									
1 SW German Vly	14	1503CST 1505CST	0	50	0	0		1K	Tornado (F0)
Near Montague and Bunker Hill Rds									
A lake breeze front moving west from Lake Michigan interacted with a weak boundary over Northwest Illinois and produced numerous land spouts after showers and thunderstorms developed during the afternoon hours. All touchdowns were in rural locations with only crop damage being reported. Due to the slow movement of the parent storms, numerous people documented the land spouts with photographs and cam corders.									
Carroll County									
Thomson	18	1506CST			0	0	20K		Hail (1.00)
A line of thunderstorms from Waterloo Iowa to Galena Illinois produced pulse severe storms that resulted in localized high wind and hail damage during the afternoon.									
McDonough County									
Countywide	25	1600CST 1800CST			0	0	100K		Heavy Rain
McDonough County									
Colchester	25	1620CST			0	0	20K	1.9M	Thunderstorm Wind (G60)
Power lines down									
McDonough County									
Macomb	25	1630CST			0	0	20K		Thunderstorm Wind (G60)
Trees down									

Storm Data and Unusual Weather Phenomena

June 2003

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, Northwest

McDonough County

Industry 25 1640CST 0 0 20K 1.9M **Thunderstorm Wind (G60)**
Power lines down

McDonough County

Macomb 25 1640CST 0 0 20K **Flash Flood**
1840CST

McDonough County

Bushnell 25 1645CST 0 0 20K 1.9M **Thunderstorm Wind (G60)**
Power lines down

Thunderstorms developed over Southeast Iowa and West Central Illinois during the afternoon and evening hours producing heavy rain and strong winds of 40 to 60 mph. Rainfall of 2 to 5 inches occurred over a period of a few hours with most of it falling in about an hour. Oakland Mills reported 3.65 inches of rain in a 90 minute period. In Mt Pleasant, Iowa several cars became disabled due to high water on city streets, and in Macomb, Illinois the McDonough County Dive Rescue Team stood by as motorists were pulled from cars in the flooded by pass. About 25,000 acres of corn in McDonough County Illinois was flattened.

Bureau County

**3.6 NNW Zearing to
1.6 S La Moille** 28 1330CST 0 0 350K **Hail (1.00)**
1345CST

Thunderstorms moved across Bureau County during the early afternoon and produced hail ranging from dime to quarter size in a swath one mile wide and just over 3 miles long. About 2500 acres were affected with 10% totally destroyed.

ILLINOIS, South

Hamilton County

8 E Mc Leansboro 10 0747CST 0 0 **Thunderstorm Wind (G52)**
A trained spotter estimated winds gusted to 60 MPH.

Perry County

**Pinckneyville to
Du Quoin** 10 1748CST 0 1 **Thunderstorm Wind (G60)**
1755CST

In Pinckneyville, a large tree fell on a mobile home, destroying it. A nearby truck was damaged by a falling tree limb. One person received minor scrapes when he was struck by a falling branch. At a church camp in Perry County, about 15 trees were knocked down, including one that fell through the roof of a camp lodge. Guttering and siding were blown off a home. Just northeast of Pinckneyville, there was extensive damage to outbuildings and barns. A 20-by-30 foot shed door was blown 175 yards into a field. Damage to trees and sheds occurred in DuQuoin. A large tree limb fell on a mobile home just west of Pinckneyville, causing significant damage.

Jefferson County

**Dix to
Mt Vernon** 10 1801CST 0 0 **Thunderstorm Wind (G50)**

Several trees and power lines were blown down in Mount Vernon. One of the trees landed on a vehicle. Trees and antennas were blown down in Dix.

Jackson County

Murphysboro 10 1810CST 0 0 **Thunderstorm Wind (G50)**
A couple of trees were blown down near Murphysboro in Somerset Township.

Franklin County

**Sesser to
West Frankfort** 10 1816CST 0 0 **Thunderstorm Wind (G50)**

Power lines were blown down in several communities west of Interstate 57, including Sesser, Christopher, Mulkeytown, and West Frankfort. Some tree limbs were blown down in Sesser.

Hamilton County

**Mc Leansboro to
Bell Prairie City** 10 1815CST 0 0 **Thunderstorm Wind (G50)**
1830CST

A few power poles were down in Mcleansboro. Trees and limbs were blown down across northern parts of the county from Piopolis to Aden.

Wayne County

3 S Wayne City 10 1825CST 0 0 **Thunderstorm Wind (G50)**
A couple of trees were blown down near the Hamilton County line.

Storm Data and Unusual Weather Phenomena

June 2003

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, South

Edwards County

Albion to West Salem	10	1845CST			0	0			Thunderstorm Wind (G52)
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Wind gusts were estimated near 60 MPH by emergency managers.

A line of thunderstorms moved rapidly east across parts of southern Illinois, producing sporadic reports of wind damage. The storms passed mainly north of a line from Carbondale to the confluence of the Ohio and Wabash Rivers.

Perry County

Tamaroa	11	0001CST			0	0			Thunderstorm Wind (G50)
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Numerous trees were blown down, including two that blocked U.S. Highway 51.

Franklin County

Sesser	11	0028CST 0035CST			0	0			Thunderstorm Wind (G65)
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In Sesser, hundreds of trees and limbs were blown down, a few of which landed on houses and power lines. A large uprooted tree destroyed a house in Sesser, caving in part of the roof and an outside wall. A nearby house received minor damage from branches of the same tree. Several roofs were damaged and numerous tree limbs were blown down on the north side of Sesser, in an area about a half mile long and three blocks wide. An unofficial measured gust of 75 MPH was reported at a fire station.

A line of thunderstorms swept east across parts of southern Illinois for the second time in 6 hours. Wind damage was reported with both lines of storms, which stayed north of the Marion/Carbondale area. This second line of storms weakened rapidly as it crossed Interstate 57.

ILZ081-084

Franklin - Jackson

	12	0700CST			0	0			Flood
	21	1900CST							

Minor flooding of the Big Muddy River occurred. At Murphysboro, where flood stage is 16 feet, the river crested at 25.2 feet on June 17. Some minor flooding affected houses near Bridge Street, and there was flooding of low-lying woods and fields. At Plumfield, where flood stage is 20 feet, the river crested near 23 feet on June 14.

ILZ087

Gallatin

	19	0400CST			0	0			Flood
	25	1800CST							

The Ohio River rose above flood stage at the Shawneetown river gage for several days. The river crested at 35.0 feet, two feet above flood stage. Minor flooding of bottomland fields occurred.

ILLINOIS, Southwest

St. Clair County

1.5 N Dupo to 4 NE Dupo	10	1655CST 1702CST	3.5	75	0	0			Tornado (F0)
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A tornado first caused damage just west of Highway 3 north of Dupo. The roof of one home was partially removed while several large trees were snapped at the base or uprooted. The roof of a nearby garage was also lifted off and tossed 80 yards across Highway 3. The next significant damage occurred along McBride Ave. Four homes suffered roof damage and four mobile homes were damaged with two of them considered destroyed. The tornado crossed Interstate 255 and blew over a tractor trailer truck. The final damage area was just east of I-255 along Stolle Road where several large trees were uprooted or snapped off at the base.

Storm Data and Unusual Weather Phenomena

June 2003

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, Southwest

St. Clair County

1.5 WNW Caseyville to 4 E Caseyville	10	1705CST 1716CST	3.5	150	0	2			Tornado (F2)
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2 x 4 driven through a truck windshield in Caseyville.

A tornado first caused damage along the west side of the town of Caseyville, Illinois along Forest Blvd, just east of Interstate 255. Over twelve witnesses observed the tornado along the leading edge of the bowing squall line as they saw debris tossed several hundred feet into the air. The tornado traveled east-southeast along Forest Blvd and West Lincoln Avenue. Three house trailers were severely damaged by the tornado between 85th and Black Lane. Two injuries occurred in two of the three house trailers. Numerous large trees were severed or downed by the tornado. The roof of a large machine shed on Black Lane was uplifted and displaced several hundred yards to the east. The tornado then ripped through an auto salvage area where several vehicles were overturned, damaged or destroyed. The width of this damage area was 50 to 100 yards wide while damage intensity was rated F1. The tornado continued to travel just a bit south of due east causing damage to two homes and a camper and completely destroying another mobile home. Some of the remains of the mobile home was observed 3/4 mile to the east just west of Highway 157. Pieces of metal were wrapped around snapped power poles while one 2 x 4 board was driven into the front windshield of a pickup truck. The width of this damage area varied from 50 to 75 yards while the damage intensity was rated low-end F2. The tornado continued east and showed a convergence pattern in a nearby wheat field south of West Lincoln Ave. The tornado then caused minor damage to six new homes 100 to 300 yards south of West Lincoln Ave and 1/4 to 1/2 mile west of Highway 159. Roofs from five homes were partially uplifted and tossed 200 to 400 yards downwind to the east. One home under construction was completely destroyed. The width of the damage area varied from 75 to 150 yards. The damage intensity was rated the lower end of F1. The tornado continued east up a ridge just east of Highway 157. Several large trees were snapped or uprooted just east of 157. Additional tree damage was found along Hill Road east of Highway 157. One home on Hill Road sustained minor roof damage. The tornado crossed East O'Fallon Drive and severed or uprooted several large trees. One home sustained minor roof damage while a machine shed and garage was severely damaged. The tornado damage track ended just west of Highway 159. Width of the damage area again varied from 75 to 100 yards while the damage intensity was rated at the lower end of F1.

Monroe County

3 NE Waterloo to 4 ENE Waterloo	10	1710CST 1712CST	2	50	0	0			Tornado (F0)
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An aerial survey conducted by members of the BAMEX (Bow Echo and Mesoscale Convective Vortex Experiment) revealed a small tornado track northeast of Waterloo. The damage occurred in a rural area and was limited to downed trees. The tornado crossed into St. Clair County west of Paderborn.

Monroe County

2 ENE Renault to 3 ENE Renault	10	1711CST 1713CST	1	50	0	0			Tornado (F0)
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An aerial survey conducted by members of the BAMEX (Bow Echo and Convective Mesoscale Convective Vortex Experiment) project revealed a small tornado occurred in a rural area near Renault. Damage was limited to a path of downed trees.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property Crops	Character of Storm
ILLINOIS, Southwest								
St. Clair County								
2 W Paderborn to 3 W Paderborn	10	1712CST 1713CST	1	50	0	0		Tornado (F0)
An aerial survey conducted by members of the BAMEX (Bow Echo and Mesoscale Convective Vortex Experiment) revealed a small tornado track that crossed into St. Clair County west of Paderborn. The damage occurred in a rural area and was limited to downed trees.								
St. Clair County								
Belleville	10	1715CST			0	0		Thunderstorm Wind (G78)
St. Clair County								
(Blv)Scott Afb Belle	10	1720CST			0	0		Thunderstorm Wind (G90)
St. Clair County								
O Fallon	10	1720CST			0	0		Thunderstorm Wind (G78)
St. Clair County								
Shiloh	10	1720CST			0	0		Thunderstorm Wind (G78)
St. Clair County								
Swansea	10	1720CST			0	0		Thunderstorm Wind (G78)
A bow echo storm system created wind gusts up to 100 miles an hour across parts of the Metro East area. The result was numerous trees and power lines down. There was also some minor roof damage and some vehicles that were damaged by the falling trees. At Scott Air Force Base, the base weather station measured a wind gusts of 90 knots. Countless trees were downed or snapped off near the base.								
Randolph County								
Prairie Du Rocher	10	1720CST			0	0		Thunderstorm Wind (G65)
Randolph County								
Ruma	10	1725CST			0	0		Thunderstorm Wind (G61)
Randolph County								
Baldwin	10	1730CST			0	0		Thunderstorm Wind (G61)
Trees and power lines were reported down across the northern part of Randolph County. Damage was reported in Prairie du Rocher, Ruma, and Baldwin. Trees were also down on Highway 154 near Baldwin.								
St. Clair County								
Lebanon	10	1725CST			0	0		Thunderstorm Wind (G70)
Thunderstorm winds downed trees and power lines in Lebanon. Part of the roof of a gasoline/convenience store was blown off which resulted in water damage inside the store. Twelve power poles were damaged along Highway 4 just south of town.								
Clinton County								
4 S Germantown	10	1730CST 1733CST	1.2	40	0	0		Tornado (F0)
A tornado caused brief damage to a farmstead over south-central Clinton County Illinois. The tornado occurred 4 miles south of Germantown Illinois in the Santa Fe flood plain along and north of the Kaskaskia River. A barn, machine shed, and silo sustained the greatest degree of damage while there was minor damage to the farm home. Debris from the farmstead was thrown from 200 yards to 1.4 mile northeast. This tornado occurred approximately 2.0 miles to the east-northeast of another tornado that hit the area on April 4, 2003.								

Storm Data and Unusual Weather Phenomena

June 2003

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

Washington County

7.5 SW Addieville to
3 NE Nashville

10 1735CST 14 60 0 0 Tornado (F1)
1803CST



Barn/machine shed damaged near Plum Hill in Washington County, IL..

The bow echo system on June 10, 2003 spawned another tornado over parts of west-central Washington County, Illinois. This damage path, 14 miles, was long compared to the other tornadoes on that day. Twelve machine sheds, barns, homes, other types of out-buildings sustained varying degrees of damage while numerous trees were along the tornado's path were either severed or uprooted. Debris at several locations along the damage path was driven into the ground 1 to 2 feet deep at 45 to 60 degree angles. In contrast to the other tornadoes on this day, this tornado occurred south of the apex of the bow echo. The width of the damage track varied from 40 to 60 yards. The damage was rated F1 intensity. It is interesting to point out that this tornado track was nearly identical to the damage track of a tornado that occurred in this area with a bow echo event on May 18, 1995.

St. Clair County

Freeburg

10 1735CST 0 0 Thunderstorm Wind (G61)
Amateur radio spotters reported trees down, some of which fell on a couple of mobile homes.

St. Clair County

Mascoutah

10 1735CST 0 0 Thunderstorm Wind (G70)
Thunderstorm wind gusts downed numerous trees and power lines across the area.

Clinton County

New Baden

10 1735CST 0 0 Thunderstorm Wind (G70)

Clinton County

Trenton

10 1735CST 0 0 Thunderstorm Wind (G70)
Thunderstorm wind gusts downed trees and power lines across eastern Clinton County from New Baden to Clinton. In New Baden advertising signs were damaged and the canopy at a gasoline station was damaged.

Clinton County

Breese

10 1745CST 0 0 Thunderstorm Wind (G61)
The Sheriff Department reported numerous trees and power lines down in and around Breese.

Washington County

Okawville

10 1745CST 0 0 Thunderstorm Wind (G70)

Washington County

2 N Nashville

10 1750CST 0 0 Thunderstorm Wind (G75)
Thunderstorm winds caused damage across parts of Washington County. Trees and power lines were down in Okawville and several farm outbuildings in the surrounding area were destroyed. Five trailers and one tractor were blown over at a trucking company on Highway 127 north of Nashville.

Marion County

Centralia

10 1805CST 0 1 Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 2003

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, Southwest</u>									
Marion County									
Sandoval	10	1805CST			0	0			Thunderstorm Wind (G61)
Marion County									
Alma	10	1810CST			0	0			Thunderstorm Wind (G61)
Marion County									
Salem	10	1810CST			0	0			Thunderstorm Wind (G61)
The County Sheriff Department reported numerous trees and power lines down across parts of Marion County. In Centralia, one man suffered minor injuries when the pick-up truck he was driving was struck by a falling tree.									
Randolph County									
Ruma	10	2320CST			0	0			Thunderstorm Wind (G60)
Randolph County									
Percy	10	2330CST			0	0			Thunderstorm Wind (G60)
The County Sheriff reported trees and power lines down in Ruma and Percy.									
Clinton County									
East Central Portion	11	2000CST			0	0			Flash Flood
	12	0200CST							
Randolph County									
East Portion	11	2000CST			0	0			Flash Flood
	12	0200CST							
St. Clair County									
East Portion	11	2000CST			0	0			Flash Flood
	12	0200CST							
Washington County									
West Central Portion	11	2000CST			0	0			Flash Flood
	12	0200CST							
Heavy rain caused flash flooding across parts of southwest Illinois. In St. Clair County, flooding was reported along Highway 4 in Lebanon and Mascoutah, along Highway 13 in Lenzberg, along Highway 159 in Smithton, and Highway 177 in Mascoutah. In Randolph County, flooding occurred along Highway 4 from Tilden to Sparta. In Clinton County, Highway 50 flooded near Aviston as did Highway 161 near Albers. In Washington County, Highway 15 flooded in the western part of the county.									
Calhoun County									
Countywide	25	2345CST			0	0			Flash Flood
	26	0200CST							
Jersey County									
Countywide	25	2345CST			0	0			Flash Flood
	26	0200CST							
Heavy rain caused flash flooding across parts of Calhoun and Jersey County. The southern parts were hardest hit as several county roads were flooded.									
Madison County									
Countywide	26	0100CST			0	0			Flash Flood
		0630CST							
St. Clair County									
Countywide	26	0100CST			0	0			Flash Flood
		0630CST							
Heavy rain caused street and road flooding across much of Madison and St. Clair Counties. Flooding was reported in Alton, Wood River, Edwardsville, and Belleville. In Wood River, mud slides occurred at a construction site resulting in roads being covered by up to 3 feet of mud.									
<u>INDIANA, Central</u>									
Tippecanoe County									
3 SW Lafayette	11	1847EST	0.1	30	0	0			Tornado (F0)
		1850EST							
Tippecanoe County									
2 NE West Lafayette to 1.5 NE West Lafayette	11	1900EST	0.5	30	0	0			Tornado (F0)
		1910EST							
2 weak tornadoes briefly touched down in the Lafayette and West Lafayette area. Radar echoes did not reveal a strong thunderstorm or much rotation. It is believed these may have been rare cold air funnels that touched down. Only a few trees were damaged during the event.									

Storm Data and Unusual Weather Phenomena

June 2003

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, Central</u>									
Warren County									
Williamsport	13	1300EST 1330EST			0	0			Flash Flood
Heavy rain caused flash flooding. There were numerous reports across northern Tippecanoe county and in Warren county near Williamsport.									
INZ071									
Jackson									
	14	1700EST			0	0			Flood
	18	0930EST							
As much as 4 inches of rain fell across south central Indiana on the 13th and 15th through the 16th causing minor flooding along the East Fork of the White River at Seymour. Seymour crested at 16.49 feet (FS - 12 feet) on the 17th.									
INZ029									
Tippecanoe									
	14	1957EST			0	0			Flood
	15	0740EST							
Up to 4 inches of rain fell across the central Indiana on the 12th and 13th causing minor flooding along the Wabash River at Lafayette. The river crested at 11.43 feet (FS - 14 feet) on the 15th.									
INZ043>044									
Vermillion - Parke									
	15	1120EST			0	0			Flood
	16	1730EST							
Up to 4 inches of rain fell across central Indiana on the 12th and 13th causing minor flooding along the Wabash River at Montezuma. The river crested at 14.63 feet (FS - 14 feet) on the 16th.									
Jackson County									
Medora to 15 W Seymour	16	0200EST 0600EST			0	0			Flash Flood
Over 2 inches of rain fell across the county in less than 3 hours. Water was reported over roads in Medora and a car slid of the road 15 miles west of Seymour into a flooded field. The occupant had to be rescued by law enforcement.									
INZ070									
Lawrence									
	19	0630EST 2140EST			0	0			Flood
As much as 4 inches of rain fell across south central Indiana on the 13th and 15th through the 16th causing minor flooding along the East Fork of the White River from Seymour to Riverdale. Riverdale crested at 20.33 feet (FS - 20 feet) on the 19th.									
<u>INDIANA, Northeast</u>									
Allen County									
Ft Wayne	28	1903EST			0	0	0		Thunderstorm Wind (G50)
Law enforcement reported trees down in Fort Wayne.									
Blackford County									
Millgrove	29	1555EST			0	0	0		Thunderstorm Wind (G50)
Law enforcement reported trees and power lines down in Millgrove.									
Jay County									
Portland	29	1620EST			0	0	0		Thunderstorm Wind (G50)
Law enforcement reported power pole snapped in Portland.									
<u>INDIANA, Northwest</u>									
Porter County									
Valparaiso	28	1230CST 1235CST			0	0			Hail (0.75)
Porter County									
Valparaiso	28	1230CST			0	0			Thunderstorm Wind (G50)
Large tree limbs were blown down across parts of eastern Valparaiso.									
<u>INDIANA, South Central</u>									
Harrison County									
Corydon	15	1527EST 1700EST			0	0			Flash Flood
Some streets in downtown Corydon were impassable due to flood waters.									
Perry County									
Branchville	15	1542EST 1631EST			0	0			Flash Flood
Branchville Road near Branchville was covered by deep water and was impassable.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>INDIANA, Southeast</u>									
Franklin County									
2 NE Brookville	15	1109EST 1215EST			0	0			Flash Flood
High water was reported on Fox Run Road.									
Union County									
West College Corner	15	1110EST 1140EST			0	0	50K		Flash Flood
Numerous roads were underwater in town. Several homes had water on the first floor, and the College Corner Union School sustained minor flood damage.									
INZ059-066 Union - Franklin									
	15	1300EST 1515EST			0	0			Flood
Dearborn County									
Bright	15	1515EST 1700EST			0	0			Flash Flood
US Route 52, and State Routes 46 and 1 are were flooded in the eastern part of the county. Slow moving thunderstorms with torrential rainfall caused flooding problems across the lower Whitewater Valley. Three to five inches of rain fell from late morning into the afternoon, with numerous roads flooded and closed across southern Union County south to Brookville.									
INZ073 Ripley									
	16	0120EST 0140EST			0	0			Flood
Strong thunderstorms with heavy rain caused flooding of roadways east of Rexville in Ripley County during the early morning.									
Ripley County									
Versailles	16	0142EST 0300EST			0	0			Flash Flood
Several roads were closed by high water.									
Union County									
Kitchell	16	0630EST 0710EST			0	0			Flash Flood
Numerous roads were flooded and closed across the eastern part of the county.									
Union County									
Liberty	16	0720EST 0830EST			0	0	100K		Flash Flood
State Route 101 was underwater near town, with several other roads in town closed by high water. The Union County Public Library and Edwards Memorial United Methodist Church both sustained basement flooding.									
<u>INDIANA, Southwest</u>									
Gibson County									
Princeton to Francisco	10	1918CST 1929CST			0	0			Thunderstorm Wind (G52)
Several large trees and power lines were blown down in Princeton, Francisco, and Owensville. State Route 64 was blocked by large trees, and cars and homes were damaged by falling trees.									
INZ087 Warrick									
	21	0500CST			0	0			Flood
	22	1800CST							
The Ohio River rose slightly above flood stage at the Newburgh Lock and Dam gage. The crest was a couple inches above the flood stage of 38 feet. Minor flooding of some bottomland fields occurred.									
<u>IOWA, Central</u>									
Boone County									
Ogden	06	1033CST			0	0	10K		Hail (0.75)
Jasper County									
4 NW Colfax	06	1218CST			0	0	10K		Hail (0.75)
Jasper County									
2 SE Mingo	06	1223CST			0	0	10K		Hail (0.75)
Poweshiek County									
Grinnell	06	1307CST			0	0	1K	5K	Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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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IOWA, Central

dew point readings in the upper 60s to mid 70s by the evening hours. The upper air flow was southwesterly with a series of weak upper level disturbances moving along the flow. The jet forcing was favorable as a speed max lifted northeast out of the trough in the southwest U.S. A stationary front extended from northwest Minnesota southwest into Colorado. An MCC developed during the evening over northeast Nebraska, then lifted north and east. As the storms moved into Iowa, they produced heavy rainfall and gusty winds of 40 to 55 MPH in many areas. One segment of the storms became severe in Sac and Calhoun Counties as a beta bow element surged ahead of the main area of thunderstorms. Winds gusted to around 70 MPH northwest of Jolley, toppling several trees and causing some property damage. As the storms passed south of the Pomeroy area they produced wind gusts of around 60 MPH. In Sac County, considerable damage was done in the town of Auburn as wind of 80 to 90 MPH swept through the city. Damage was done to the city buildings with structural damage reported. Bricks were stripped off of the buildings, part of the roof was taken off, and numerous trees were toppled. Debris from an old elevator tin roof near town was blown a full mile south of town by the winds. As the storms moved east, they once again became severe as they moved into Hamilton County. Winds around 75 MPH in the Jewell area blew over a 40 ton grain bin, smashing it against another silo.

Black Hawk County									
2 S Hudson	25	1025CST			0	0	10K		Thunderstorm Wind (G57)
Black Hawk County									
7 SE Hudson	25	1049CST			0	0	25K		Thunderstorm Wind (G61)
Jasper County									
Kellogg	25	1051CST			0	0	5K		Lightning
Tama County									
2 N Tama	25	1110CST			0	0	10K		Thunderstorm Wind (G52)
Tama County									
Tama	25	1110CST			0	0	10K		Thunderstorm Wind (G52)
Marshall County									
Marshalltown	25	1130CST			0	0	3K		Thunderstorm Wind (G50)
Jasper County									
Newton	25	1233CST			0	0	10K		Thunderstorm Wind (G52)
Ringgold County									
5 NNE Mt Ayr	25	1330CST			0	0	5K		Thunderstorm Wind (G52)
Ringgold County									
Redding	25	1410CST			0	0	5K		Thunderstorm Wind (G50)
Polk County									
Johnston	25	1428CST			0	0	4K		Lightning
Ringgold County									
4 S Delphos	25	1445CST			0	0	5K		Thunderstorm Wind (G50)
Marion County									
2 NW Melcher	25	1515CST			0	0	10K		Thunderstorm Wind (G52)
Marion County									
Countywide	25	1715CST 1915CST			0	0	5K		Flash Flood

A very moist and unstable airmass was in place over Iowa. South winds at the surface into the mid levels drew precipitable water values were in excess of 50 mm over the CWA with 850 mb dew point values reported at +19 degrees C. A cold front held nearly stationary during the previous few nights to the northwest of Iowa. The front began to move southeast during the day on the 25th, and moved across the state during the evening hours. Thunderstorms from the previous nights convection north and west of Iowa moved into the state during the morning hours. As temperatures warmed during the morning hours, the atmosphere became very unstable. Temperatures rose into the 80s quickly over central Iowa with dew points at the surface in the low to mid 70s. During the afternoon, temperatures in eastern Iowa rose into the mid 90s. With CAPE values over 3000 J/kg and Lifted Indices around -8 C., the thunderstorms re-intensified rapidly. The initial line of thunderstorms produced scattered severe weather in parts of central and eastern Iowa. There were few reports of any hail as the freezing level was 15,100 feet. Gusty winds were common with the stronger storms producing severe winds. Winds as high as 65 MPH were reported in the Hudson area of Black Hawk County. Roof damage was reported on a farm southeast of Hudson. Trees and power lines were damaged in the Tama area by 60 MPH winds. By early afternoon, a second line of thunderstorms developed in western Iowa along the cold front. In similar fashion to the earlier storms to the east, the second line of thunderstorms produced high winds. The high winds were scattered in nature with most damage limited to trees and power lines. Winds broke windows of a house south of Delphos in Ringgold County. As the thunderstorms moved through Central Iowa, lightning struck the National Weather Service office in Johnston. The office took a direct strike with damage reported to some of the equipment in the office. Heavy rainfall was associated with many of the thunderstorms. Rainfall 3 to 5 inches fell in a 2 hour period over Marion County. In the Melcher-Dallas area, 5.26 inches of rain was recorded. The heavy rainfall caused some flash flooding. Being as antecedent conditions were very dry, the flooding was minor and limited to agricultural areas and low rural roads. A few county roads were closed for a brief period of time due to the flooding. As the storms moved through Jasper County, lightning struck a garage and set it on fire. The fire was contained quickly by the volunteer fire department.

Storm Data and Unusual Weather Phenomena

June 2003

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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IOWA, Central

IAZ004>006-015>016-023>025-033>036-045>047 **Emmet - Kossuth - Winnebago - Palo Alto - Hancock - Pocahontas - Humboldt - Wright - Sac - Calhoun - Webster - Hamilton - Carroll - Greene - Boone**

27	0600CST				0	0	75K	150K	Flood
30	1200CST								

A round of convection developed during the overnight and early morning hours of June 23-24 with all the ingredients in place for severe activity. An MCS traversed the northern 1/3 of the HSA producing severe wind plus heavy rain in some locations. A band of 2 to 3 inches with isolated higher amounts fell across the upper Des Moines river basin in Pocahontas and Humboldt counties, prompting the issuance of Flood Statements for expected minor flooding. The band extended northeast to the Mason City area with 1 to 2 inch amounts. The rainfall area diminished rapidly to the southeast with little or no rainfall south of about Highway 30 across the center of Iowa. Overnight rain gage totals amounted to 3.32" at Rolfe (RLFI4); 2.31" at Pocahontas (POCI4); Algona (AGNI4), 1.69"; Mason City (MCW), 1.54" and Britt (BTII4), 1.50". Extremely warm and humid air surged northward across the upper Midwest with surface dew points reaching 80 degrees in a few locations on the 24th. Another in the series of nocturnal MCSs dropped some moderate rainfall in excess of one inch during the 24 hours ending at 12Z on the 25th mostly in the upper reaches of the Des Moines basin, but the heaviest rainfall fell over far northwest Iowa. Scattered showers and thunderstorms increased in coverage throughout the morning hours of the 25th and some storms became severe with strong primarily strong winds. The very deep moisture in place, with GOES sounder estimates from 2.0 to 2.5" of precipitable water, combined with an unstable atmosphere (LIs -4 to -8) produced very efficient rainstorms. By mid-afternoon Flood Statements for minor flooding were issued for a number of counties including Marion, Wayne, Appanoose, Warren and Polk. Antecedent conditions were quite dry across central and southern Iowa with Flash Flood Guidance over 3 inches in 1 hour in most areas. That factor combined with several breaks in the rainfall pattern prevented a potentially serious flash flood threat from developing. At Knoxville there was two-hour break between 21 and 22Z, where very little rain fell. Street flooding was later reported in Marion County as several rural roads were overtopped with water for a brief period of time. The maximum rainfall accumulations for one hour occurred in central Marion county where the tipping bucket rain gages at English Creek and Knoxville AWOS reaching 1.82" and 1.66". Total rainfall for 24 hours ending 12Z on the 26th was the highest in the HSA so far this year with reports at Dallas (DLLI4) of 5.26"; Oskaloosa (OSKI4), 4.69"; Oskaloosa DCP (OOAI4), 4.67"; Indianola (IDNI4), 4.31" and Pella-KCCI (SPEI4), 4.18". Widespread 2 to 4 inch amounts fell in a band across south central and central Iowa from Decatur County northeast through Mahaska County (see Fig. 1 below). Runoff from the heavy rain caused sharp rises on White Breast and English creeks in Marion County. The flow on English Creek rose from under 10 cfs to 1,580 cfs in only six hours, and it crested at 21.8 feet (2,859 cfs) at 16Z on the 26th. Flooding along English Creek near Knoxville closed several local roads, prompting issuance of a Flood Statement. Another area of 2 to 3 inch rains fell over parts of eastern Boone and western Story counties, rains which contributed to rises on the Des Moines river at Stratford which exceeded flood stage by the morning of the 27th. A fast moving nocturnal MCS dropped southeast across the state during the overnight hours of June 27-28, generating showers and thunderstorms with light to moderate rainfall across the HSA. The heaviest rain fell in the mid and upper Raccoon River basin, where from 1 to 1.5 inches was observed. Highest observed amounts included 1.56" at Jefferson-KCCI (SJEI4); 1.52" at Perry (PERI4); 1.40" at Jefferson (JFFI4); 1.30" at Ames (AESI4), and 1.27" at the NWS in Johnston (DMXI4). Amounts were much lower over the south and around 0.25 to 0.50" fell over portions of northern Iowa. The rains helped to maintain high flows along the North Raccoon River, where minor flooding continued at Jefferson and Perry crested just shy of flood stage. A dry and benign weather pattern took hold across the state from the 28th through the end of the month with pleasant temperatures and little or no rainfall.

IOWA, East Central and Southeast

Buchanan County

Fairbank	04	1100CST			0	0	10K	Hail (0.75)
		1105CST						

5 minute duration

A thunderstorm produced isolated three quarter inch hail in far northern Buchanan County in and around the Fairbank area, causing some crop damage that affected about 50 acres.

IAZ052>054-065

Linn - Jones - Jackson - Cedar

10	0306CST				0	0	800K	200K	High Wind (G51)
	0510CST								

KCID ASOS measured 49 knots

A strong low level jet developed thunderstorms in western Iowa that moved rapidly east. Strong mid level winds allowed a wake low to develop that brought sustained winds of 35 to 45 mph for 15 minutes with gusts to 60 mph to parts of eastern Iowa. A Centurion Aircraft was flipped over at the Cedar Rapids Airport (KCID) where a gust to 49 knots (56 mph) was recorded along with damage to buildings. As the wake low passed just south of the Cedar Rapids Airport, a pressure difference of 5.8 mb (0.17 inches) was observed between KCID and KIOW (Iowa City Airport). Just south of Oxford Junction, a private weather company recorded a 2 mb (0.06 inch) pressure drop in 5 minutes as the wake low approached. The area affected was Southern Linn, Southern Jones, far Northern Cedar, and Southern Jackson counties. Numerous 8 inch tree limbs and power lines were down in Cedar Rapids. Across Southern Jones and Northern Cedar counties, numerous reports of tree limbs and power lines down were reported in or near Martelle, Olin, Wyoming, Oxford Junction, Mechanicsville, Stanwood, and Clarence. In Maquoketa, a 12 foot tree limb just missed a house and a garage.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>IOWA, Northwest</u>									
Woodbury County									
Sergeant Bluff	09	1920CST			0	0	100K		Thunderstorm Wind (G61) Thunderstorm winds caused tree damage, with branches and other tree debris littering streets. The winds also blew down power lines and caused power outages.
Woodbury County									
3 NE Sergeant Bluff	09	1920CST	0.1	50	0	0			Tornado (F0) A brief tornado caused no reported damage.
Woodbury County									
1 E Sioux City	09	1922CST			0	0			Hail (0.75)
Woodbury County									
Sioux City	09	1923CST			0	0			Hail (1.25)
Woodbury County									
Sioux City	09	1925CST			0	0			Thunderstorm Wind (G61) Thunderstorm winds caused widespread tree damage, littering streets and yards with branches and other tree debris. Trees 8 to 12 inches in diameter were twisted off 10 feet above the ground.
Woodbury County									
Sioux City	09	1935CST			0	0	20K		Thunderstorm Wind (G61) Thunderstorm winds blew two semis off a road.
Woodbury County									
Sioux City	09	1945CST 2230CST			0	0	100K		Flash Flood Very heavy rain caused severe and widespread flooding of streets and low areas. Water around two feet deep was reported at numerous locations, with one police officer reporting chest deep water as he assisted occupants of a stalled van. Numerous other vehicles were also stranded.
Woodbury County									
(Sux)Sioux City Arpt	09	1954CST			0	0			Thunderstorm Wind (G50)
Woodbury County									
Sioux City	09	1955CST			0	0			Hail (1.00)
Woodbury County									
1 S Sergeant Bluff	09	1957CST			0	0			Hail (1.00)
Woodbury County									
Salix	09	2005CST			0	0			Hail (1.00)
Woodbury County									
4 SE Bronson	09	2015CST			0	0			Hail (0.75)
Woodbury County									
1 W Hornick	09	2018CST			0	0			Hail (1.00)
Woodbury County									
3 NE Hornick	09	2020CST			0	0			Hail (1.00)
Woodbury County									
Smithland	09	2036CST			0	0			Hail (1.00)
Woodbury County									
1 E Smithland	09	2055CST			0	0			Hail (1.75)
Clay County									
2 S Dickens	17	1622CST			0	0			Hail (0.88) Large hail covered the ground. The hail, combined with winds gusting to 55 mph, damaged corn and bean crops ion the area, but the amount of crop damage was not known.
Woodbury County									
4 SE Bronson	23	2030CST			0	0			Hail (1.00)
Woodbury County									
1 W Merville	23	2125CST			0	0			Hail (0.88)
Plymouth County									
Kingsley	23	2136CST			0	0			Hail (0.75)
Cherokee County									
Washta	23	2145CST 2150CST			0	0	20K		Thunderstorm Wind (G61) Thunderstorm winds caused tree damage, including up to four inch diameter trees blown down. Minor damage to homes also occurred.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>IOWA, Northwest</u>									
Cherokee County									
Cherokee	23	2150CST			0	0	20K		Lightning
	Lightning caused a house fire which damaged the roof and ceiling of a home.								
Woodbury County									
Correctionville	23	2151CST 2252CST	0.1	50	0	0			Tornado (F0)
	A brief tornado caused no reported damage.								
Buena Vista County									
Albert City	23	2215CST			0	0			Hail (1.75)
	Large hail caused an unknown amount of damage to vehicles and windows.								
Woodbury County									
Sioux City	23	2215CST 2222CST			0	0	100K		Thunderstorm Wind (G61)
	Thunderstorm winds caused widespread tree damage, especially in the northern part of Sioux City. Several trees were blown down, and numerous limbs and smaller tree debris were blown down and littered streets and yards. Power lines were blown down, and resulting power outages affected an estimated 2,500 customers. The roof of a commercial building housing multiple businesses was blown off. Several homes sustained roof damage, and the porch of a home was damaged.								
Plymouth County									
Kingsley	23	2230CST			0	0			Thunderstorm Wind (G52)
	Thunderstorm winds caused tree damage, including some trees and large branches blown down.								
Cherokee County									
3 SW Larrabee	23	2240CST			0	0			Hail (1.75)
Cherokee County									
Larrabee	23	2245CST			0	0			Thunderstorm Wind (G61)
	Thunderstorm winds caused tree damage, including several trees blown down.								
O'Brien County									
1 N Sutherland	23	2300CST			0	0			Hail (0.75)
Ida County									
Holstein	23	2315CST			0	0	20K		Thunderstorm Wind (G61)
	Thunderstorm winds caused tree and power line damage. Several trees were blown down, including a large tree which blocked U.S. Highway 59. The downed power lines resulted in power outages.								
Plymouth County									
Le Mars	23	2315CST			0	0	100K		Thunderstorm Wind (G61)
	Thunderstorm winds caused widespread tree damage, including several trees and numerous large limbs and branches blown down. Tree debris damaged the roofs of at least three homes. The siding of a manufacturing business building was ripped off by the wind. Power lines were downed by wind and falling tree debris, resulting in power outages.								
Buena Vista County									
4 SW Marathon	23	2340CST			0	0			Thunderstorm Wind (G52)
	Thunderstorm winds caused an unknown amount of crop damage.								
Ida County									
2 W Galva	23	2355CST			0	0			Thunderstorm Wind (G61)
	Thunderstorm winds caused tree damage, including several trees blown down. The winds also blew down road signs.								
Woodbury County									
Sioux City	24	0024CST			0	0	100K		Thunderstorm Wind (G61)
	Thunderstorm winds blew over a semi, caused roof damage to several buildings, and caused tree damage, including several trees blown down.								
Woodbury County									
Pierson	24	0206CST 0500CST			0	0			Flash Flood
	Heavy rainfall of around five inches resulted in flooding of small creeks...streets...and other low areas. The flash flooding included Pierson Creek, which rose rapidly out of its banks.								
Cherokee County									
South Portion	24	0230CST 0500CST			0	0			Flash Flood
	Very heavy rain caused flooding of roads...croplands...and other low areas. Over five inches of rain was reported at Aurelia and Meridan, with just less than three inches of rain in Cherokee. The flash flooding included Willow Creek, which rose rapidly out of its banks.								

Storm Data and Unusual Weather Phenomena

June 2003

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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IOWA, Northwest

Ida County

Northwest Portion	24	0230CST 0500CST			0	0			Flash Flood
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Heavy rainfall of up to five inches caused flooding of small creeks, cropland, and other low areas. The flash flooding included Ashton Creek, which rose rapidly out of its banks.

Lyon County

10 SW Rock Rapids to 9.9 SW Rock Rapids	24	2212CST 2213CST	0.1	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage.

Sioux County

Rock Vly	24	2232CST			0	0			Thunderstorm Wind (G52)
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Lyon County

Inwood	24	2232CST			0	0			Thunderstorm Wind (G52)
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Plymouth County

4 SW Hinton	25	0250CST 0500CST			0	0			Flash Flood
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Heavy rainfall caused Perry Creek to rise quickly to just over its banks. Other low places including some roads were also flooded.

Woodbury County

Correctionville	25	0315CST 0500CST			0	0			Flash Flood
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Heavy rain caused the little Sioux River to rise rapidly to just out of its banks. Several low areas including some roads were also flooded.

Cherokee County

5 SW Cherokee	25	0315CST 0500CST			0	0			Flash Flood
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Heavy rain caused the Little Sioux River to rise rapidly to just out of its banks. Other low areas including some roads were also flooded.

Woodbury County

2 SE (Sux)Sioux City Ar	27	1938CST			0	0			Thunderstorm Wind (G52)
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IOWA, Southwest

Monona County

Whiting	09	2017CST			0	0			Hail (0.88)
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Monona County

Onawa	09	2033CST			0	0			Hail (0.75)
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Monona County

Mapleton	09	2045CST			0	0			Hail (0.75)
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Pottawattamie County

6 ESE Minden	18	1500CST			0	0			Hail (0.75)
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Fremont County

Hamburg	22	0834CST			0	0			Hail (0.75)
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Shelby County

2 N Shelby	22	1130CST			0	0			Hail (1.00)
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Shelby County

Harlan	22	1150CST			0	0			Hail (0.88)
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IAZ043-055>056-069-079 Monona - Harrison - Shelby - Pottawattamie - Mills

	23	0000CST 0245CST			0	0			High Wind (G35)
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Sustained winds of 30 to 40 mph with occasional gusts of 50 mph or even isolated wind gusts of 60 mph occurred over a large part of east central Nebraska and western Iowa during the very early morning hours on June 23. Although thunderstorms moved across much of this same area prior to the onset of the winds, the winds occurred relatively far removed from the thunderstorms and were probably due a large part from other factors like the current surface gradient.

The winds caused sporadic damage, such as downing several trees and signs. Some relatively minor building damage was also observed. OPPD reported that 5000 customers in east central Nebraska lost their power at the height of the storm. Other power companies over the region reported smaller outages. Overall, however, the damage was generally not too widespread nor too severe.

Although higher wind gusts were estimated to have occurred across these counties, the highest measured wind gusts included 45 mph at Tekamah and Fremont, 43 mph at Lincoln and 40 mph at Omaha Eppley-Airfield. This was on top of sustained winds in the 30 to 40

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>IOWA, Southwest</u>									
Mills County									
Silver City	24	1620CST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gusts estimated at over 60 mph blew down a barn near Silver City. The winds were accompanied by dime size hail.
Mills County									
Silver City	24	1620CST			0	0			Hail (0.75)
Mills County									
1 N Mineola	24	1645CST			0	0			Hail (0.75)
Pottawattamie County									
Council Bluffs	24	1650CST			0	0			Thunderstorm Wind (G50)
									A thunderstorm wind gust estimated at 60 mph downed a large tree in Council Bluffs.
Pottawattamie County									
10 E Council Bluffs	24	1653CST 1654CST	0.3	30	0	0			Tornado (F0)
									A trained spotter reported a brief touchdown of a tornado in an open field around 10 miles east of Council Bluffs. The tornado was also spotted by air traffic controllers at Omaha Eppley Airfield.
Pottawattamie County									
Treynor	24	1720CST			0	0			Hail (1.00)
<u>KANSAS, East</u>									
Douglas County									
2 ESE Big Spgs	02	0430CST			0	0	20K		Lightning
									Lightning struck a house and started a fire that did major damage to the residence.
Washington County									
5 N Morrowville	10	0015CST			0	0			Hail (0.75)
Osage County									
Overbrook	10	1217CST			0	0			Funnel Cloud
									A law enforcement officer reported a funnel cloud near Overbrook.
Lyon County									
4 S Emporia	10	1535CST			0	0			Hail (1.75)
Dickinson County									
Enterprise	12	0248CST			0	0	80K		Thunderstorm Wind (G60)
									Strong winds blew a steel roof off a business onto some power lines.
Dickinson County									
Chapman	12	0507CST			0	0			Thunderstorm Wind (G60)
Jackson County									
3 NW Delia	15	1525CST			0	0			Thunderstorm Wind (G50)
Pottawatomie County									
St Marys	15	1543CST			0	0			Hail (0.88)
Pottawatomie County									
St Marys	15	1548CST			0	0			Hail (0.75)
Wabaunsee County									
3 SSW Wabaunsee	22	0832CST			0	0			Hail (1.00)
Wabaunsee County									
Paxico	22	0855CST			0	0			Hail (0.75)
Pottawatomie County									
5 SE Westmoreland	22	0858CST			0	0			Hail (0.88)
Pottawatomie County									
Emmett	22	1002CST			0	0			Hail (0.75)
Jackson County									
7 S Soldier	22	1042CST			0	0			Hail (0.88)
Jackson County									
7 S Soldier	22	1057CST			0	0			Hail (1.00)
Pottawatomie County									
5 NW St Marys	22	1059CST			0	0			Hail (0.88)
Jefferson County									
Valley Falls	22	1140CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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, East</u>									
Jefferson County									
2 E Ozawkie	22	1228CST			0	0			Thunderstorm Wind (G55)
Brown County									
2 NW Fairview	22	1312CST			0	0			Hail (1.00)
Brown County									
1 W Fairview	22	1313CST			0	0			Hail (1.25)
Brown County									
1 E Morrill	22	1315CST			0	0			Hail (1.25)
Thunderstorms developed over parts of east central Kansas early in the morning of the 22nd and gradually moved northeast into northeast Kansas later in the morning. Some of the storms became severe and produced numerous reports of large hail. One strong wind report was also received.									
Republic County									
1 N Courtland	22	1912CST 1913CST	0.5	50	0	0	50K		Tornado (F0)
A tornado touched down in rural areas near Courtland and moved northeast about one half mile and struck a farm before dissipating. Several outbuildings at the farm were damaged.									
Republic County									
5 NE Courtland to 6 NE Courtland	22	1920CST 1922CST	1	75	0	0	20K		Tornado (F0)
A second tornado touched down northeast of Courtland, moved northeast for a mile and damaged some power poles and power lines before dissipating.									
Republic County									
4 NNE Courtland to 7 NNE Courtland	22	1930CST 1937CST	3	150	0	0	125K		Tornado (F1)
The third in a series of tornadoes touched down northeast of Courtland and traveled 3 miles and damaged 2 homes before dissipating.									
Republic County									
1 SE Republic	22	1958CST			0	0			Hail (1.75)
Republic County									
1 SE Republic to 3 E Republic	22	1958CST 2002CST	2	150	0	0	60K		Tornado (F1)
A fourth tornado touched down near Republic and moved northeast for 2 miles and damaged a home before dissipating.									
Republic County									
3 N Courtland	22	2000CST			0	0			Thunderstorm Wind (G62)
Republic County									
3 NE Republic to 7 NE Republic	22	2010CST 2019CST	4	450	0	0	80K		Tornado (F2)
A tornado struck 3 miles northeast of Republic and moved northeast 4 miles and destroyed a house in its path before it dissipated near the Nebraska border.									
Republic County									
4 W Munden	22	2117CST 2118CST	0.5	50	0	0	5K		Tornado (F0)
A tornado touched down 4 miles west of Munden and blew a sheriffs car into the ditch before dissipating.									
Republic County									
4 NW Munden	22	2122CST			0	0			Hail (1.25)
Republic County									
Republic	22 23	2235CST 0330CST			0	0	3.4M	750K	Flash Flood
Thunderstorms persisted over north and west parts of Republic county the night of the 22nd. Rainfall amounts in excess of 12 inches were reported in some areas. The resulting runoff caused flash flooding. Water was 3 to 4 feet deep on some roadways and vehicles were washed off roadways and rescue efforts made of the vehicles occupants. Several roads were completely washed out. Two homes were destroyed by the floodwaters. Deer and cattle were reported swimming. Some people were stranded in homes and in need of rescue. Fields were flooded and there was severe crop damage. The runoff caused the Republican River to rise quickly and overflow. It was reported to be 1 mile wide in places. The river crested at 15 feet at Scandia early in the morning of the 23rd. Flood stage is 10 feet.									
KSZ009-020									
Washington - Cloud									
	23	0330CST			0	0	0	20K	Flood
	24	0800CST							
Heavy rains from thunderstorms in Nebraska caused the Little Blue River and Mill Creek to overflow in the northwest part of the county. Extensive crop damage was the result.									
Thunderstorms developed over Republic county the evening of the 22nd and persisted into the early morning hours of the 23rd.									

Storm Data and Unusual Weather Phenomena

June 2003

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

of the thunderstorms in the same location led to flash flooding in Republic County as well as the Republican River to flood and do considerable crop damage.

Pottawatomie County

Wamego 25 1215CST 0 0 Hail (0.88)

Shawnee County

Topeka 27 1648CST 0 0 Hail (0.75)

Douglas County

Lecompton 27 1710CST 0 0 Hail (1.00)

Douglas County

Lawrence 27 1730CST 0 0 Hail (0.75)

Cloud County

10 S Concordia 28 2031CST 0 0 Hail (1.00)

Cloud County

6 N Glasco 28 2046CST 0 0 Thunderstorm Wind (G52)

Cloud County

6 N Glasco 28 2050CST 0 0 Thunderstorm Wind (G54)

Cloud County

7 ESE Glasco 28 2100CST 0 0 Hail (0.88)

Cloud County

6 N Glasco 28 2110CST 0 0 Hail (1.00)

Cloud County

Clyde 28 2124CST 0 0 Hail (1.00)

Republic County

Scandia 28 2138CST 0 0 Hail (0.88)

Republic County

2 SSW Agenda 28 2141CST 0 0 Hail (0.75)

Republic County

1 S Scandia 28 2145CST 0 0 Hail (1.00)

Washington County

Greenleaf 28 2214CST 0 0 Hail (0.75)

Washington County

Greenleaf 28 2222CST 0 0 Hail (0.75)

Washington County

1 SW Greenleaf 28 2225CST 0 0 Hail (1.00)

Washington County

1 E Palmer 28 2233CST 0 0 Flash Flood
2300CST

Heavy rain produced runoff that flooded highway K-9 near Palmer.

Cloud County

6 W Clyde 28 2235CST 0 0 Hail (0.88)

Thunderstorms developed the evening of the 28th over north central Kansas. Some became severe and produced numerous reports of large hail and damaging winds. Heavy rains also produced some flooding in southern Washington county.

KANSAS, Extreme Southeast

Crawford County

4 S Walnut 25 1820CST 0 0 Thunderstorm Wind (G60)

KANSAS, North Central

Rooks County

9 N Damar 09 2020CST 0 0 0 125K Hail (0.88)

Rooks County

5 S Plainville 09 2205CST 0 0 0 0 Thunderstorm Wind (G56)

Rooks County

5 SW Plainville 09 2225CST 0 0 0 0 Hail (0.75)

Severe thunderstorms moving into north-central Kansas provided more "bark than bite" to the region during the late evening hours. Though the storms did produce some wind and hail in southwest Rooks county, the most severe weather was unleashed just to the west of Rooks county.

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Jewell County									
4 NW Lovewell	22	2130CST			0	0	0	0	Hail (0.75)
Jewell County									
Lovewell Res	22	2145CST			0	0	0	0	Hail (1.00)
Jewell County									
Countywide	22	2255CST			0	0	1.5M	3M	Flash Flood
	23	0500CST							
Jewell County									
Mankato	22	2313CST			0	0	0	0	Hail (0.75)
Phillips County									
15 N Agra	23	0007CST	0.2	30	0	0	0	0	Tornado (F0)
A brief tornado was observed in northeast Phillips county. The tornado was seen by law enforcement personnel.									
Jewell County									
Formoso	23	0033CST			0	0	0	0	Hail (1.00)
Smith County									
12 NW Smith Center	23	0045CST	0.2	20	0	0	0	0	Tornado (F0)
A brief tornado observed by a law enforcement officer and did no damage.									
Smith County									
5 NW Reamsville	23	0050CST	0.2	20	0	0	0	0	Tornado (F0)
The same law enforcement officer saw another brief tornado along Highway 8 northwest of Reamsville. Again, no damage was reported.									
A torrent of rain was unleashed on the eastern half of Jewell county on June 22. Over 9 inches of rain fell at Lovewell Reservoir. Flash flooding was reported near the campground just downstream on the White Rock Creek. Two men escaped injury despite being stranded by flood waters. The men were attempting to reach a house on fire around 3 am. The men were driving a road grader. The grader was swept off a bridge by the raging flood waters. The two men sat on a wheel of the grader until 6 am before the water receded enough to rescue them safely. No one was home in the house the men were trying to reach, but it was destroyed by the fire. The flooding caused severe county road and bridge damage in eastern Jewell county. The highway in the Formoso area was flooded for a time. Later that night, tornadoes were reported by both law enforcement and the public in Smith and Phillips counties. Given the tornadoes occurred in very rural areas, no damage was reported.									
Osborne County									
3 S Portis	28	1955CST			0	0	0	75K	Hail (1.25)
Smith County									
Lebanon	28	1955CST			0	0	25K	125K	Hail (1.75)
Osborne County									
Countywide	28	2000CST 2200CST			0	0	15K	0	Heavy Rain
Rooks County									
3 S Palco	28	2010CST			0	0	0	0	Hail (0.88)
Osborne County									
3 N Osborne	28	2025CST			0	0	0	50K	Hail (1.00)
Rooks County									
2 S Stockton	28	2045CST			0	0	0	75K	Hail (1.25)
Osborne County									
Alton	28	2102CST			0	0	0	75K	Hail (1.25)
Rooks County									
12 NE Plainville	28	2115CST			0	0	0	50K	Hail (1.00)
Mitchell County									
5 S Glen Elder	28	2143CST			0	0	0	0	Hail (0.88)
Thunderstorms across north-central Kansas dumped heavy rain and hail. The strongest thunderstorm was north of Osborne, and dropped golf ball size hail and from 1 to 3 inches of rain. Runoff from small streams and creeks resulted in minor flooding in rural areas. A county road near the Shade Bend Golf Course near Osborne was impassable for a time due to high water. Officially, Portis reported 2.50 inches and Osborne 1.60 inches of rain. Thunderstorms also rumbled across parts of Rooks, Mitchell and Smith counties.									
<u>KANSAS, Northeast</u>									
Johnson County									
1 SSW Edgerton	10	1620CST			0	0			Hail (0.75)
Johnson County									
Lenexa	10	1643CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Johnson County									
Leawood	10	1646CST			0	0			Hail (1.25)
Leavenworth County									
3 S Tonganoxie	12	1830CST 2130CST			0	0			Flash Flood
Water reported over road due to heavy rains. Several stalled cars.									
Wyandotte County									
Kansas City	12	1850CST			0	0			Heavy Rain
Minor street flooding around Turkey Creek due to heavy rains.									
Leavenworth County									
Tonganoxie	12	1920CST 2220CST			0	0			Flash Flood
Water over Highway 24.									
Leavenworth County									
3 SW Jarbalo	22	1254CST			0	0			Hail (0.75)
Johnson County									
Shawnee	22	1355CST			0	0			Thunderstorm Wind (G57)
Large trees reported down.									
Johnson County									
3 SE De Soto	22	1411CST			0	0			Hail (0.88)
Johnson County									
Lenexa	22	1435CST			0	0			Thunderstorm Wind (G63)
Johnson County									
Olathe	22	1435CST			0	0			Hail (1.25)
Johnson County									
Olathe	22	1440CST			0	0			Hail (1.50)
Johnson County									
Olathe	22	1443CST			0	0	150K		Hail (2.75)
Johnson County									
Lenexa	22	1448CST			0	0	50K		Hail (2.50)
Johnson County									
Lenexa	22	1448CST			0	0			Thunderstorm Wind (G57)
Several tree limbs down.									
Johnson County									
Overland Park	22	1510CST			0	0	200K		Hail (3.00)
Johnson County									
Overland Park	22	1515CST 1815CST			0	0			Flash Flood
3 inches of rain in less than a hour flooded streets and stopped traffic.									
Johnson County									
Overland Park	22	1515CST			0	0			Hail (2.50)
Doniphan County									
Bendena	25	1400CST			0	0			Thunderstorm Wind (G61)
Doniphan County									
Troy	25	1405CST			0	0			Thunderstorm Wind (G61)
Large tree reported down.									
Miami County									
3 NW Fontana	29	1530CST			0	0			Hail (1.00)
Also several trees snapped near Route 7.									
<u>KANSAS, Northwest</u>									
Sherman County									
6 SW Goodland	01	1306MST 1309MST	0.5	20	0	0			Tornado (F0)
Sherman County									
6 S Ruleton	01	1308MST 1310MST	0.3	20	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

June 2003

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, Northwest</u>									
Sherman County									
6 S Ruleton	01	1310MST 1312MST	0.3	20	0	0			Tornado (F0)
Sherman County									
Goodland	01	1337MST			0	0			Thunderstorm Wind (G61)
Large tree down at 10th and Broadway in Goodland.									
Greeley County									
11 SW Tribune	01	1511MST			0	0			Hail (1.00)
Three weak tornadoes were reported in Sherman county during the afternoon of June 1st. The tornadoes formed on a slow-moving surface boundary, and were part of a larger episode of landspout type tornadoes which occurred on this day. All tornadoes were weak and occurred over open country with minimal or no damage.									
Sherman County									
3 W Goodland	04	0953MST 0954MST	0.1	20	0	0			Tornado (F0)
Brief touchdown. No damage.									
Sherman County									
5 S Goodland	04	1011MST	0.1	20	0	0			Tornado (F0)
Brief touchdown. No damage.									
Decatur County									
Dresden	09	1454MST			0	0			Hail (0.75)
Norton County									
2 W Lenora	09	1720MST			0	0			Hail (1.25)
Graham County									
20 NW Hill City	09	1743MST			0	0			Hail (2.75)
Graham County									
18 NW Hill City to 16 NW Hill City	09	1745MST 1800MST	2	75	0	0			Tornado (F0)
Tornado touched down over open fields and lasted approximately 15 minutes. Witnessed by many local residents, storm chasers and NWS employees. No damage reported. Storm/tornado movement was southeast at 7-8 mph.									
Sherman County									
12 SW Goodland	09	1745MST			0	0			Thunderstorm Wind (G56)
Ten inch tree limbs down.									
Sherman County									
12 S Ruleton	09	1750MST			0	0			Thunderstorm Wind (G52)
Graham County									
9 NW Hill City	09	1803MST			0	0			Hail (1.00)
Sherman County									
14 E Goodland	09	1805MST			0	0			Thunderstorm Wind (G52)
Graham County									
12 NW Hill City to 11 NW Hill City	09	1812MST	1	20	0	0			Tornado (F0)
Needle-like tornado touched down for 5 minutes over open fields. No damage reported.									
Graham County									
7 NE Hill City	09	1850MST			0	0			Hail (2.00)
Gove County									
8 SW Grinnell	09	1907MST			0	0			Hail (0.75)
Logan County									
5 S Oakley	09	1907MST			0	0			Hail (1.00)
Graham County									
Nicodemus	09	1908MST			0	0			Hail (0.88)
Sheridan County									
16 NE Hoxie	09	1945MST			0	0			Hail (0.75)
Graham County									
8 N Penokee	09	1955MST			0	0			Hail (0.75)
Gove County									
12 SE Gove	09	2030MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Greeley County									
7 NE Tribune	11	1720MST			0	0			Hail (0.75)
Cheyenne County									
St Francis	11	1851MST			0	0			Hail (0.75)
Decatur County									
Oberlin	11	1947MST			0	0			Thunderstorm Wind (G52)
Decatur County									
Oberlin	11	1950MST			0	0			Hail (0.75)
Decatur County									
Oberlin	11	1950MST			0	0			Thunderstorm Wind (G52)
Sheridan County									
Hoxie	11	2016MST			0	0			Thunderstorm Wind (G68)
Sheridan County									
1 NE Hoxie	11	2017MST			0	0			Thunderstorm Wind (G51)
Gove County									
2.5 SE Park	11	2030MST			0	0	39.6K		Thunderstorm Wind (G65)
Seven towers of irrigation system blown over by strong thunderstorm winds. Center pivot still standing.									
Sherman County									
9 NE Edson	12	1718MST			0	0			Hail (1.00)
Sherman County									
10 S Goodland	12	1749MST			0	0			Hail (0.88)
Wallace County									
14 NNE Sharon Spgs	12	2045MST			0	0			Hail (0.88)
Wichita County									
4 E Leoti	12	2110MST			0	0			Hail (0.75)
Cheyenne County									
13 S St Francis	13	1223MST			0	0			Hail (0.88)
Wallace County									
5 W Sharon Spgs	13	1655MST			0	0			Hail (0.75)
Greeley County									
8 SE Tribune	13	1755MST			0	0			Hail (0.75)
Sherman County									
5 NNW Kanorado	14	1633MST 1638MST	0.5	25	0	0			Tornado (F0)
Tornado associated with a supercell thunderstorm touched down over open country with no damage reported. Parent thunderstorm was moving southwest at 5 mph.									
Cheyenne County									
15 NW St Francis	20	1904MST			0	0			Hail (1.00)
Wichita County									
7 NE Lydia	23	1734MST			0	0			Hail (1.75)
Wichita County									
Leoti	23	1740MST			0	0			Thunderstorm Wind (G52)
Wichita County									
Leoti	23	1752MST			0	0			Hail (1.00)
Wichita County									
13 SE Leoti	23	1755MST			0	0			Thunderstorm Wind (G52)
Decatur County									
Oberlin	23	1820MST			0	0			Hail (1.00)
Decatur County									
4 NE Oberlin	23	1822MST			0	0			Hail (0.75)
Logan County									
Oakley	23	1826MST			0	0			Thunderstorm Wind (G61)
Logan County									
Monument	23	1828MST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Thomas County									
15 SE Colby	23	1830MST			0	0			Thunderstorm Wind (G65)
			Large outbuilding lost its roof.						
Logan County									
4 N Monument	23	1832MST			0	0			Thunderstorm Wind (G52)
Logan County									
Oakley	23	1832MST			0	0			Hail (2.75)
Logan County									
Oakley	23	1832MST			0	0			Hail (1.25)
Logan County									
Oakley	23	1834MST			0	0			Hail (2.75)
Logan County									
4 N Monument	23	1837MST			0	0			Hail (0.88)
Gove County									
8 W Grinnell	23	1845MST			0	0			Hail (1.00)
Graham County									
Morland	23	1845MST			0	0			Thunderstorm Wind (G65)
Sheridan County									
Angelus	23	1845MST			0	0			Thunderstorm Wind (G61)
Thomas County									
Rexford	23	1858MST			0	0			Thunderstorm Wind (G52)
Rawlins County									
16 S Atwood	23	1900MST			0	0			Thunderstorm Wind (G52)
			3-inch diameter tree branches down.						
Decatur County									
Oberlin	23	1916MST			0	0			Hail (0.75)
Sheridan County									
6 SE Hoxie	23	1924MST			0	0			Thunderstorm Wind (G65)
			Half of barn roof blown off by thunderstorm winds. 3-inch diameter tree limbs down.						
Sheridan County									
10 NE Hoxie	23	1932MST			0	0			Thunderstorm Wind (G56)
Decatur County									
Norcatour	23	1933MST			0	0			Hail (2.50)
Rawlins County									
6 N Mc Donald	27	1515MST			0	0			Hail (0.75)
Wallace County									
7 S Wallace	27	1530MST			0	0			Hail (1.25)
Greeley County									
11 NE Tribune	27	1550MST			0	0			Hail (0.88)
Thomas County									
4 W Colby	27	1612MST			0	0			Hail (0.75)
Wichita County									
Selkirk	27	1615MST			0	0			Hail (1.75)
Wichita County									
2 SE Selkirk	27	1625MST			0	0			Hail (1.00)
Thomas County									
8.3 SSW Mingo	27	1645MST			0	0			Hail (1.75)
Thomas County									
14 SSW Colby	27	1650MST			0	0			Hail (0.75)
Logan County									
1 S Page City	27	1700MST			0	0			Hail (0.75)
Greeley County									
11 SE Tribune	27	1705MST			0	0			Hail (1.00)
Greeley County									
18 SE Tribune	27	1715MST			0	0			Hail (2.50)

Storm Data and Unusual Weather Phenomena

June 2003

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, Northwest</u>									
Greeley County									
14 SE Tribune	27	1720MST			0	0			Hail (1.75)
Logan County									
20 SSW Oakley	27	1720MST			0	0			Hail (1.00)
Logan County									
7 S Monument	27	1722MST			0	0			Hail (2.75)
			1/4-1/2 inch diameter hail covering the ground.						
Thomas County									
15 SSE Brewster	27	1740MST			0	0			Hail (0.75)
Logan County									
18 SE Russell Spgs	27	1844MST			0	0			Hail (2.50)
Wallace County									
3 SW Weskan	28	1840MST			0	0			Hail (1.00)
Greeley County									
14 N Tribune	28	1850MST			0	0			Hail (1.00)
Wallace County									
16 W Sharon Spgs	28	1857MST			0	0			Hail (1.75)
Greeley County									
.5 N Tribune	28	1902MST	0.2	20	0	0			Tornado (F0)
			Brief touchdown just north of town. No damage or injuries.						
Greeley County									
Tribune	28	1915MST			0	0			Thunderstorm Wind (G52)
Cheyenne County									
10 SSW Bird City	28	1917MST			0	0			Hail (0.75)
Rawlins County									
Atwood	28	1950MST			0	0			Hail (0.75)
Rawlins County									
13 S Atwood	28	2115MST	0.3	25	0	0			Tornado (F1)
			Apparent tornado touched down briefly at a farmstead just north of the Thomas county-Rawlins county line. Debris was blown from east to west with the line of storms moving from the northwest. One outbuilding destroyed and the tin and wood debris was blown into a second outbuilding causing considerable damage...plus shifting the building one foot to the west. The resident's home received only minor damage. A pickup truck was damaged including a broken windshield from debris. A nail was driven into a wooden window frame, and several long, wooden sticks were partially driven into a dirt road.						
Graham County									
9 NW Studley	28	2130MST			0	0			Hail (1.50)
Graham County									
1 W St Peter	28	2146MST			0	0			Hail (1.00)
Graham County									
1 W St Peter	28	2146MST			0	0			Thunderstorm Wind (G52)
			A line of severe thunderstorms moved from the northwest during the evening of the 28th. Numerous reports of golfball-sized hail were received from east central Colorado into Northwest Kansas. Two brief tornadoes were reported, one producing no damage north of Tribune Kansas and a second producing low end F1 damage 13 miles south of Atwood, Kansas.						
<u>KANSAS, Southeast</u>									
Sumner County									
Wellington	05	2200CST			0	0			Flash Flood
	06	0000CST							
			Fair Street barricaded between 1st and Lincoln Streets.						
Allen County									
3 W Iola	10	1515CST			0	0			Hail (0.75)
Woodson County									
6 S Yates Center	10	1515CST			0	0			Hail (0.75)
Allen County									
Iola	10	1519CST			0	0			Hail (0.75)
Allen County									
Iola	10	1520CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

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, Southeast</u>									
Allen County									
Iola	10	1521CST			0	0			Hail (0.75)
Chase County									
Matfield Green	10	1530CST			0	0			Hail (1.00)
Russell County									
Luray	11	2320CST			0	0			Thunderstorm Wind (G53)
		Measured by a KSNW weatherlab site.							
Harvey County									
Burrton	12	0035CST			0	0			Hail (0.88)
Reno County									
Hutchinson	12	0040CST			0	0			Thunderstorm Wind (G54)
Rice County									
Bushton	12	0106CST			0	0			Hail (0.88)
Reno County									
Hutchinson	12	0132CST			0	0			Thunderstorm Wind (G53)
Butler County									
Whitewater	25	1315CST			0	0			Hail (0.88)
Butler County									
Whitewater	25	1315CST			0	0			Thunderstorm Wind (G52)
Butler County									
4 N Towanda	25	1343CST			0	0			Hail (0.75)
Butler County									
1 N Benton	25	1348CST			0	0			Hail (0.75)
Butler County									
Towanda	25	1348CST			0	0			Thunderstorm Wind (G52)
Butler County									
3 E El Dorado	25	1408CST			0	0			Thunderstorm Wind (G52)
Butler County									
El Dorado	25	1410CST			0	0			Thunderstorm Wind (G61)
		Tree damage.							
Sedgwick County									
3 E Derby	25	1415CST			0	0			Hail (0.88)
Sedgwick County									
3 E Derby	25	1415CST			0	0			Hail (1.00)
Montgomery County									
Caney	25	1726CST			0	0	5K		Thunderstorm Wind (G61)
		Tree uprooted, knocking down adjacent power line.							
Butler County									
4 S Benton	25	1350CST			0	0			Hail (0.75)
Butler County									
Rose Hill	25	1418CST			0	0			Hail (0.75)
Butler County									
Rose Hill	25	1420CST			0	0			Hail (1.75)
Butler County									
3 E Rose Hill	25	1420CST			0	0			Hail (1.75)
Sedgwick County									
4 NE Derby	25	1447CST			0	0			Hail (1.75)
Sumner County									
2 NW Drury Station	25	1505CST			0	0			Thunderstorm Wind (G52)
Sumner County									
2 SE Ashton	25	1510CST			0	0			Thunderstorm Wind (G61)
Cowley County									
3 S Rainbow Bend	25	1520CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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, Southeast</u>									
Cowley County									
Winfield	25	1530CST 1830CST			0	0	10K		Flash Flood
Around 3 inches of rain, occurring within a span of approximately 2 hours, caused flash flooding, reaching depths that nearly submerged some vehicles. The flash flooding flowed into the basement of one home; the basement flooding to a depth of nearly 15 inches.									
Cowley County									
7 E Arkansas City	25	1555CST			0	0			Hail (1.00)
Elk County									
5 W Howard	25	1610CST			0	0			Thunderstorm Wind (G61)
Cowley County									
Arkansas City	25	1618CST			0	0			Thunderstorm Wind (G52)
Cowley County									
Winfield	25	1620CST			0	0	5K		Thunderstorm Wind (G52)
Part of a facade was torn from a furniture store and wrapped around a light pole.									
Elk County									
Howard	25	1620CST			0	0			Thunderstorm Wind (G61)
Trees uprooted.									
Chautauqua County									
3 E Cedar Vale	25	1644CST			0	0			Thunderstorm Wind (G52)
Chautauqua County									
4 S Sedan	25	1705CST			0	0			Thunderstorm Wind (G52)
Montgomery County									
2 N Tyro	25	1743CST			0	0			Thunderstorm Wind (G52)
Neosho County									
St Paul	25	1820CST			0	0			Thunderstorm Wind (G52)
Butler County									
1 S Andover	25	1357CST			0	0			Hail (0.75)
Marion County									
1 NW Lost Spgs	28	0628CST			0	0			Hail (0.75)
Chase County									
1 N Strong City	28	0642CST			0	0			Hail (0.75)
Chase County									
5 SW Cottonwood Falls	28	0702CST			0	0			Hail (0.75)
Chase County									
6 SW Cottonwood Falls	28	0716CST			0	0			Hail (1.00)
Chase County									
6 SW Cottonwood Falls	28	0716CST			0	0			Thunderstorm Wind (G61)
Chase County									
8 S Cottonwood Falls	28	0721CST			0	0			Hail (1.00)
Chase County									
Matfield Green	28	0744CST			0	0			Hail (0.75)
Chase County									
Matfield Green	28	0744CST			0	0			Thunderstorm Wind (G61)
Butler County									
Cassoday	28	0816CST			0	0			Thunderstorm Wind (G61)
Co-op observer.									
Russell County									
2 S Russell	29	0005CST			0	0			Hail (0.75)
Russell County									
Russell	29	0022CST			0	0			Hail (0.75)
Ellsworth County									
5 N Ellsworth	29	0130CST 0330CST			0	0			Flash Flood
High water flowing across Highway 14.									

Storm Data and Unusual Weather Phenomena

June 2003

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, Southeast</u>									
Harvey County									
4 S Newton	29	0220CST			0	0			Hail (0.75)
Sedgwick County									
Wichita	29	0315CST			0	0			Hail (0.88)
Saline County									
Salina	29	0340CST 0500CST			0	0	50K		Flash Flood
									Unspecified number of vehicles abandoned.
<u>KANSAS, Southwest</u>									
Hamilton County									
4 W Syracuse	01	1555CST			0	0			Hail (0.75)
Hamilton County									
4 W Syracuse	01	1605CST			0	0			Hail (1.00)
Hamilton County									
3 S Syracuse	01	1625CST			0	0			Thunderstorm Wind (G52)
Stanton County									
2 SE Big Bow	01	1640CST			0	0			Hail (0.75)
Stanton County									
Big Bow	01	1648CST			0	0			Hail (1.00)
Hamilton County									
Syracuse	01	1650CST			0	0			Hail (0.75)
Grant County									
9 NW Ulysses	01	1710CST			0	0	0.50K		Thunderstorm Wind (G61)
									Large grain car was blown over.
Kearny County									
Lakin	01	1715CST			0	0			Thunderstorm Wind (G70)
									Large tree limbs were blown down all over town.
Kearny County									
Deerfield	01	1724CST			0	0			Thunderstorm Wind (G58)
									The wind gust was recorded by a weather lab
Kearny County									
14 N Deerfield	01	1730CST			0	0			Thunderstorm Wind (G52)
Finney County									
8 W Holcomb	01	1735CST			0	0			Thunderstorm Wind (G52)
Kearny County									
Deerfield	01	1735CST			0	0			Thunderstorm Wind (G52)
Ford County									
Dodge City Arpt	01	1736CST			0	0			Thunderstorm Wind (G51)
									The wind gust was recorded by backup wind equipment.
Finney County									
2 N Garden City	01	1748CST			0	0			Thunderstorm Wind (G50)
Finney County									
Garden City	01	1749CST			0	0			Thunderstorm Wind (G55)
									The wind gust was recorded at a weather lab site
Finney County									
Garden City	01	1750CST			0	0			Thunderstorm Wind (G52)
Finney County									
13 W Kalvesta	01	1810CST			0	0			Thunderstorm Wind (G52)
Gray County									
9 NE Cimarron	01	1830CST			0	0	1.5K		Thunderstorm Wind (G60)
									Several power poles were blown down.
Meade County									
1 W Meade	01	1905CST			0	0			Thunderstorm Wind (G54)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Ellis County									
1 S Catharine	04	1415CST	0	20	0	0	0	0	Tornado (F0)
Hodgeman County									
12 SW Jetmore	04	1640CST	0	20	0	0	0	0	Tornado (F0)
Both of the tornadoes were the result of a very brief contact with the ground. The atmosphere was cool and very moist with very weak shear in the boundary layer. Although condensation was evident at the ground for just seconds, the likelihood of wind above 30 mph was extremely low.									
Morton County									
6 SE Richfield	09	1850CST			0	0			Hail (1.00)
Meade County									
6 SE Meade	09	1925CST			0	0			Hail (1.00)
Meade County									
4 SE Fowler	09	1952CST			0	0			Hail (1.00)
Clark County									
4 S Minneola	09	1955CST			0	0			Hail (0.75)
Clark County									
4 S Minneola	09	1955CST			0	0			Thunderstorm Wind (G61)
Meade County									
5 NE Fowler	09	1955CST			0	0			Hail (0.88)
Clark County									
16 E Minneola	09	2005CST			0	0			Hail (0.75)
Ford County									
3 W Bucklin	09	2030CST			0	0			Hail (1.00)
Kiowa County									
7 S Greensburg	09	2048CST			0	0			Hail (0.88)
Scott County									
10 NW Scott City	09	2100CST			0	0			Hail (0.75)
Scott County									
13 NE Scott City	09	2105CST			0	0			Hail (0.88)
Lane County									
4 N Healy	09	2115CST			0	0			Hail (0.88)
Scott County									
15 NE Scott City	09	2130CST			0	0			Hail (1.00)
Trego County									
2 E Ogallah	09	2215CST			0	0			Hail (0.75)
Pratt County									
2 N Sawyer	10	1627CST			0	0			Hail (0.75)
Pratt County									
3 N Sawyer	10	1645CST			0	0			Hail (0.75)
Barber County									
6 NE Sun City	10	1705CST			0	0			Hail (0.75)
Pratt County									
2 S Coats	10	1705CST			0	0			Hail (0.75)
Hamilton County									
Coolidge	11	1650CST			0	0			Hail (0.75)
Hamilton County									
3 ESE Coolidge	11	1800CST 2000CST			0	0			Flash Flood
Water was flowing over county roads									
Seward County									
21 N Liberal	11	2015CST			0	0			Hail (1.00)
Seward County									
3 SW Kismet	11	2025CST			0	0			Hail (1.00)
Ellis County									
Yocemento	11	2255CST			0	0			Thunderstorm Wind (G56)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Ellis County									
Hays	11	2325CST			0	0			Thunderstorm Wind (G52)
Ellis County									
Schoenchen	11	2330CST			0	0			Thunderstorm Wind (G52)
Ellis County									
1 W Catharine	11	2340CST			0	0			Hail (0.88)
Grant County									
8 SW Ulysses	13	0010CST			0	0			Hail (0.88)
Grant County									
Ulysses	13	0018CST			0	0			Hail (0.88)
Seward County									
7 S Hayne	13	1430CST			0	0			Hail (0.75)
Seward County									
3 NE Liberal	13	1430CST			0	0			Hail (0.75)
Grant County									
5 N Hickok	13	1657CST			0	0			Hail (0.75)
Grant County									
5 E Ulysses	13	1702CST			0	0			Hail (0.75)
Grant County									
6 SE Ulysses	13	1720CST			0	0			Hail (0.75)
Grant County									
3 N Ulysses	13	1725CST			0	0			Hail (0.75)
Grant County									
Ulysses	13	1745CST			0	0			Hail (0.75)
Stevens County									
2 W Hugoton	13	1820CST			0	0			Hail (2.00)
Stevens County									
Hugoton	13	1820CST			0	0			Hail (2.00)
Stevens County									
9 S Hugoton	13	1830CST			0	0			Hail (1.75)
Morton County									
10 E Richfield	13	1845CST			0	0			Hail (1.00)
Stevens County									
7 SW Hugoton	13	1855CST			0	0			Hail (1.50)
Stevens County									
10 S Hugoton	13	1910CST			0	0			Hail (0.75)
Morton County									
10 W Richfield to 9 W Richfield	13	1925CST 1930CST	1	40	0	0	0	0	Tornado (F0)
This tornado did not hit anything to damage but by all accounts was truly a weak tornado.									
Ford County									
3 SE Dodge City	14	1530CST 1630CST			0	0			Flash Flood
Water was reported over 112th road, 1 mile se of the bypass									
Kearny County									
14 SW Lake Mc Kinney	19	1830CST 1930CST			0	0			Flash Flood
Water was reported over many county roads.									
Morton County									
5 NE Elkhart	23	1705CST			0	0			Hail (0.88)
Morton County									
1 NE Richfield	23	1710CST			0	0			Hail (0.88)
Stanton County									
10 SSW Big Bow	23	1730CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
<u>KANSAS, Southwest</u>									
Grant County									
9 NW Ulysses	23	1749CST			0	0			Hail (1.75)
Hamilton County									
Syracuse	23	1758CST			0	0			Thunderstorm Wind (G55)
The wind was recorded at a weatherlab site.									
Kearny County									
16 SW Lakin	23	1800CST			0	0			Hail (0.88)
Kearny County									
3 W Lakin	23	1815CST			0	0			Hail (1.00)
Scott County									
6 S Modoc	23	1845CST			0	0			Hail (1.50)
Scott County									
11 NW Scott City	23	1900CST			0	0			Hail (0.75)
Scott County									
11 NW Scott City	23	1900CST			0	0			Thunderstorm Wind (G52)
Seward County									
Liberal	23	1920CST			0	0			Thunderstorm Wind (G57)
Three inch diameter tree limbs were blown down.									
KSZ078									
Ford									
	23	2012CST			0	0			High Wind (G53)
Non thunderstorm winds spread across the county with a peak wind of 61 mph recorded by backup wind equipment at the Dodge City airport.									
Haskell County									
5 S Sublette	23	2020CST			0	0			Thunderstorm Wind (G70)
Large tree limbs were blown down.									
Meade County									
12 NW Meade	23	2030CST			0	0			Thunderstorm Wind (G52)
Meade County									
7 NW Fowler	23	2040CST			0	0			Thunderstorm Wind (G52)
Hamilton County									
7 NE Syracuse	27	1828CST			0	0			Hail (1.25)
Hamilton County									
7 NE Syracuse	27	1832CST			0	0			Hail (2.00)
Hamilton County									
10 NE Syracuse	27	1838CST			0	0			Hail (2.50)
Hamilton County									
4 NW Kendall	27	1938CST			0	0			Hail (3.00)
No reports of damage, but there should have been.									
Scott County									
9 W Scott State Park	27	1940CST			0	0			Hail (1.25)
Siding was ruined at this location which is 1 mile west of Pence.									
Scott County									
12 N Modoc	27	1945CST			0	0			Hail (1.75)
Scott County									
7 N Modoc	27	2000CST			0	0			Hail (0.75)
Hamilton County									
10 S Kendall	27	2023CST			0	0			Hail (1.75)
Stanton County									
10 N Big Bow	27	2044CST			0	0			Hail (2.00)
Finney County									
Friend	27	2055CST			0	0			Hail (1.25)
Finney County									
2 E Friend	27	2057CST			0	0			Hail (1.00)
Scott County									
7 SE Shallow Water	27	2101CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Finney County									
19 N Garden City	27	2108CST			0	0			Hail (1.75)
Stanton County									
1 NE Big Bow	27	2115CST			0	0			Hail (1.00)
Stanton County									
Big Bow	27	2117CST			0	0			Hail (3.00)
Finney County									
7 NE Garden City	27	2135CST			0	0			Hail (1.75)
Morton County									
11 NE Richfield	27	2210CST			0	0			Hail (0.75)
Pratt County									
3 SW Pratt	28	0620CST			0	0			Hail (0.75)
Comanche County									
15 SSE Coldwater	28	0755CST			0	0			Hail (1.00)
Comanche County									
14 SE Coldwater	28	0755CST			0	0			Hail (1.00)
Clark County									
12 WNW Ashland	28	1605CST			0	0			Hail (0.75)
Clark County									
12 NW Ashland	28	1612CST			0	0			Hail (2.00)
Clark County									
12 W Ashland	28	1612CST			0	0			Hail (1.75)
Clark County									
12 N Englewood	28	1618CST			0	0			Hail (1.75)
Ford County									
Bloom	28	1619CST			0	0			Hail (1.00)
Clark County									
12 N Englewood	28	1624CST			0	0			Hail (4.50)
			The house at this location was severely damaged.						
Ford County									
15 S Dodge City	28	1625CST			0	0			Hail (2.50)
Clark County									
7 NW Acres	28	1627CST			0	0			Hail (2.00)
Ford County									
8 SE Dodge City	28	1635CST			0	0			Hail (1.75)
Meade County									
4 S Fowler	28	1650CST			0	0			Hail (1.00)
Clark County									
8 N Englewood	28	1655CST			0	0			Hail (0.88)
Clark County									
3 S Minneola	28	1658CST			0	0			Hail (0.75)
Clark County									
Englewood	28	1702CST			0	0			Hail (1.00)
Meade County									
10 E Meade	28	1705CST			0	0			Hail (1.75)
Meade County									
6 SE Fowler	28	1715CST			0	0			Hail (4.00)
Ford County									
4 W Dodge City	28	1720CST			0	0			Hail (1.00)
Ford County									
Dodge City	28	1725CST			0	0			Hail (1.75)
Ford County									
Dodge City	28	1727CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Gray County									
8 SE Montezuma	28	1727CST			0	0			Hail (1.00)
Ford County									
1 W Dodge City	28	1730CST			0	0			Hail (2.00)
Ford County									
Dodge City	28	1735CST			0	0			Hail (1.00)
Ford County									
Dodge City	28	1739CST			0	0			Hail (1.00)
Ford County									
Dodge City	28	1740CST			0	0			Hail (1.75)
Ford County									
Dodge City	28	1741CST			0	0			Hail (1.00)
Meade County									
8 S Meade	28	1741CST			0	0			Hail (0.88)
Ford County									
Dodge City	28	1742CST			0	0			Hail (1.00)
Ford County									
Dodge City Arpt	28	1744CST			0	0			Hail (0.88)
Gray County									
7 SE Montezuma	28	1748CST			0	0			Hail (1.00)
Ness County									
21 SE Ness City	28	1748CST			0	0			Hail (1.75)
Hamilton County									
2 W Coolidge	28	1800CST			0	0			Hail (4.50)
Softball size hail reported near the state line.									
Hodgeman County									
Hanston	28	1800CST			0	0			Hail (1.00)
Meade County									
14 SW Meade	28	1805CST			0	0			Hail (1.75)
Meade County									
15 SW Meade	28	1819CST			0	0			Hail (2.00)
Windows were knocked out by the hail									
Pratt County									
3 SW Pratt	28	1820CST			0	0			Hail (0.75)
Seward County									
3 SE Kismet	28	1835CST			0	0			Hail (0.88)
Seward County									
9 E Liberal	28	1855CST			0	0			Hail (0.88)
Ness County									
8 NE Beeler	28	1900CST			0	0			Hail (0.88)
Seward County									
6 E Liberal	28	1905CST			0	0	2K		Thunderstorm Wind (G70)
Power lines were blown down.									
Seward County									
8 E Liberal	28	1918CST			0	0			Hail (1.75)
Gray County									
9 S Charleston	28	1928CST			0	0			Hail (0.75)
Seward County									
1 SE Liberal	28	1930CST			0	0			Hail (0.88)
Seward County									
1 E Liberal	28	1938CST			0	0			Hail (0.75)
Seward County									
Liberal	28	1940CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

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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KANSAS, Southwest

Seward County

Liberal	28	1940CST			0	0	8M		Thunderstorm Wind (G78)
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A tremendous storm rolled in from the east (HP supercell). The combination of the 80 to 100 mph wind and hail bigger than golf balls produced at least eight million dollars in damage. This occurred six weeks after another devastating storm that produced around \$20 million in damage.

Ellis County

Ellis	28	1941CST			0	0			Hail (1.00)
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Trego County

1 S Riga	28	1942CST			0	0			Hail (2.00)
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Seward County

Liberal	28	1945CST			0	0			Hail (0.75)
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Seward County

Liberal	28	1945CST			0	0			Hail (1.75)
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Ellis County

Ellis	28	1950CST			0	0			Hail (1.75)
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Ellis County

Ellis	28	2000CST			0	0	1.5M		Hail (2.75)
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Trego County

9 N Ogallah	28	2004CST			0	0			Hail (1.00)
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Stevens County

Hugoton	28	2005CST			0	0			Hail (1.75)
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Stevens County

Feterita	28	2010CST			0	0			Hail (0.75)
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Stevens County

18 NW Hugoton	28	2011CST			0	0			Hail (0.75)
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Hamilton County

10 S Kendall	28	2023CST			0	0			Hail (1.75)
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Seward County

Liberal	28	2055CST			0	0			Flash Flood
	29	0513CST							

Flash flooding occurred following the devastating hail and wind storm. Nearly all streets in and around Liberal were flooded. Several cars were stranded. A field overflowed onto highway 83 north of town.

KENTUCKY, Central

Allen County

Countywide to Scottsville	11	1626EST			0	0			Thunderstorm Wind (G50)
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Barren County

Austin	11	1637EST			0	0			Thunderstorm Wind (G50)
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Barren County

Tracy	11	1637EST			0	0			Thunderstorm Wind (G50)
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Barren County

Glasgow	11	1648EST			0	0			Thunderstorm Wind (G50)
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Trees were downed by thunderstorm winds over much of South Central Kentucky.

Madison County

Countywide	14	1330EST 1425EST			1	0	2K		Flash Flood
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A vehicle was attempting to cross a low water bridge over Drowning Creek near Panola in eastern Madison County. The creek was well above the bridge and traveling swiftly. The vehicle was swept away by flood waters. The driver and an adult passenger were rescued, but a 6 year old child was missing, and recovered several days later. Elsewhere, there was minor street flooding in the city of Richmond. F6VE

Franklin County

Countywide	14	1620EST 1845EST			0	0	5K		Flash Flood
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Several roadways over the northern half of the county were impassable. The roads included parts of Flat Creek Road, Bald Knob Road, and Highway 421. Some vehicles were stalled out in the flood waters. A propane tank dislodged and was floating on Bald Knob Road.

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Oldham County									
Pewee Vly	14	2100EST 2230EST			0	0			Flash Flood
			Several roads were impassable and closed due to high water.						
Scott County									
Georgetown	15	1517EST 1600EST			0	0			Flash Flood
			Parts of Sims Road were impassable due to high water.						
Simpson County									
Countywide	15	2240EST 2330EST			0	0			Flash Flood
			High water was reported over Stephenson Road 5 miles north of Franklin, and also over Morgantown Road in the central part of the county.						
Warren County									
Bowling Green	15	2305EST 2340EST			0	0			Flash Flood
			Flood waters covered intersections at 6th and State Streets and 6th and College Streets near Western Kentucky University.						
Warren County									
Bowling Green Arpt	16	2245EST			0	0			Thunderstorm Wind (G50)
Marion County									
Loretto	17	2020EST 2300EST			0	0			Flash Flood
			Near Loretto, three mobile homes were washed into a nearby creek. Five people were rescued, one with injuries. A bridge was washed out at Wimsatt Road.						
Washington County									
Countywide	17	2020EST 2300EST			0	0			Flash Flood
			High water covered several county roads.						
<u>KENTUCKY, Eastern</u>									
Lee County									
Zachariah	03	0240EST			0	0	0	0	Hail (0.88)
KYZ068									
Rockcastle	07	0825EST 1030EST			0	0	0	0	Flood
			Rockcastle County 911 reported that United States Highway 25 North near the town of Conway was covered with water and impassable.						
KYZ058									
Estill	07	0834EST 1030EST			0	0	0	0	Flood
			The Irvine Police Department reported water over a few roads near Irvine. These roads were closed and impassable due to the high water. These roads included Roberts Road, Dark Hollow Road, and Congleton Road.						
Magoffin County									
5 S Salyersville	11	1123EST			0	0	0	0	Hail (0.75)
Magoffin County									
Royalton	11	1124EST			0	0	0	0	Hail (1.75)
Magoffin County									
Lakeville	11	1132EST			0	0	2K	0	Thunderstorm Wind (G65)
			Trees and power lines were down.						
Magoffin County									
2.5 S Royalton	11	1152EST			0	0	0	0	Thunderstorm Wind (G50)
			A tree was down across Kentucky Highway 7.						
Magoffin County									
Mason	11	1205EST 1400EST			0	0	0	0	Flash Flood
			Eight inches of water were over the road on Kentucky Highway 7.						

Storm Data and Unusual Weather Phenomena

June 2003

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, Eastern</u>									
Magoffin County									
2 SE Salyersville	11	1220EST 1500EST			0	0	0	0	Flash Flood
There were 10 to 12 inches of running water located 2 and a half miles up Guncreek Road, off of Kentucky Highway 1888. Also, there was a mudslide blocking part of the road.									
Magoffin County									
Royalton	11	1230EST 1800EST			0	0	5K	0	Flash Flood
A house trailer was knocked off of its blocks on Guncreek Road. The water was two feet deep in some places. Water was over Burning Fork Road and houses were cut off from any traffic. The Licking River was over Kentucky Highway 7.									
Perry County									
4 W Hazard	11	1235EST			0	0	0	0	Hail (0.75)
The principal of Big Creek Elementary School reported three quarter inch diameter hail.									
Knott County									
Fisty	11	1258EST			0	0	0	0	Hail (0.75)
Three quarter inch diameter hail was reported from a person at Clear Creek Free Church.									
Pike County									
Ransom	11	1338EST			0	9	9K	0	Hail (2.00)
Two inch diameter hail was reported on Blackberry Road.									
Johnson County									
8 NE Paintsville	11	1352EST 1600EST			0	0	0	0	Flash Flood
High water was over Patterson Creek Road.									
Pike County									
Majestic	11	1355EST			0	0	0	0	Hail (0.75)
Martin County									
6 SE Inez	11	1414EST 1600EST			0	0	0	0	Flash Flood
Water was over Kentucky Highway 2032.									
Harlan County									
8 W Harlan to 8 N Harlan	11	2034EST 2045EST			0	0	0	0	Thunderstorm Wind (G60)
A tree was down at Wallins Creek on Kentucky Highway 219 and also across United States Highway 421 in Bledsoe.									
Whitley County									
Rye	13	1720EST			0	0	1K	5K	Thunderstorm Wind (G70)
On Hi-Top Road, five apple trees and one oak tree were down. Also, a wind vane on a house was down.									
Whitley County									
Barton	13	1727EST			0	0	0	0	Hail (0.75)
Clay County									
Manchester	14	1200EST 1800EST			0	0	5K	0	Flash Flood
Kentucky Highway 11 was blocked by high water. Beech Creek Road was flooded. Six inches of water were flowing over the city streets of Manchester. Four feet of water covered the city park. Also, there was flooding in City Hall.									
Perry County									
Hardburly	14	1300EST 1430EST			0	0	0	0	Flash Flood
One foot of water was flowing over the road at Jakes Creek Branch. One residence was evacuated.									
Estill County									
Irvine	14	1345EST 1800EST			0	0	10K	0	Flash Flood
A nursing home on Rice Street was evacuated with 12 to 18 inches of water inundating the building. Three homes along Broadway and River drive were evacuated. One grocery store was flooded, and a sundry store had over a foot of water in it.									
Morgan County									
Blaze	14	1435EST 1600EST			0	0	0	0	Flash Flood
About 500 feet of Blaze Road (Kentucky Highway 3420) was flooded from a nearby small creek.									

Storm Data and Unusual Weather Phenomena

June 2003

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, Eastern</u>									
Estill County									
Irvine	15	1100EST 1400EST			0	0	0	0	Flash Flood
Kentucky Highways 594 and 3328 were flooded.									
Clay County									
2 S Manchester	15	1750EST 1950EST			0	0	0	0	Flash Flood
Six inches of water were flowing across Kentucky Highway 1999.									
Magoffin County									
Salyersville	15	1810EST 2045EST			0	0	0	0	Flash Flood
Kentucky Highway 40 had 6 inches of water flowing over it.									
Jackson County									
Mc Kee	15	1830EST 2100EST			0	0	0	0	Flash Flood
Ten inches of water were flowing across United States Highway 421.									
Clay County									
Countywide	15	1830EST 2045EST			0	0	0	0	Flash Flood
Kentucky Highway 3432 had one foot of water flowing over it, and the road was impassable. Other roads across the county had significant water flowing across them.									
Perry County									
1 S Buckhorn	16	1430EST 1930EST			0	0	0	0	Flash Flood
Kentucky Highway 2022 had 8 to 10 inches of water flowing across it from the flooding of Squabble Creek.									
Knox County									
2 N Barbourville	16	1453EST 1630EST			0	0	0	0	Flash Flood
Several homes were flooded and one garaged was damaged due to high water. Several culverts were washed out and trees were down due to the high water.									
Menifee County									
Frenchburg	16	1530EST 1700EST			0	0	0	0	Flash Flood
There was one foot of water flowing across United States Route 460.									
Johnson County									
Paintsville	16	1530EST 1800EST			0	0	0	0	Flash Flood
More than six inches of water flowed across Mill Branch Road.									
Montgomery County									
2 W Jeffersonville to Mt Sterling	16	1544EST 1900EST			0	0	0	0	Flash Flood
Several roads were closed due to high water, including Lever Road, Whitaker Lane, and Kidville Road. Also, six inches of water were flowing over Kentucky Highway 11 in three areas south of Mount Sterling. Highway 11 was closed due to this high water.									
Fleming County									
Grange City	16	1549EST 1800EST			0	0	0	0	Flash Flood
Kentucky Highway 111 was under water.									
Floyd County									
Dotson to David	16	1558EST 1800EST			0	0	1.2M		Flash Flood
Flood waters damaged several county roads, drains, and bridges. Water was flowing across Kentucky Highway 114 near Dotson. A couple of house trailers were submerged in flood waters. There were also several mudslides in the area.									
Leslie County									
Confluence	16	1602EST 1730EST			0	0	0	0	Flash Flood
Flowing water washed out a road.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Eastern</u>									
Bath County									
Owingsville	16	1630EST 1800EST			0	0	5K	0	Flash Flood
Water flooded several business in Owingsville. Also, water was over United States Route 60 and Kentucky Route 1269 about 3 to 4 miles east of Owingsville.									
Rowan County									
Farmers	16	1715EST 1845EST			0	0	0	0	Flash Flood
Several roads were closed in the western part of the county due to high water.									
Breathitt County									
1.5 N Dalesburg	16	1718EST 1730EST			0	0	0	0	Flash Flood
Water covered Kentucky Highway 315.									
Elliott County									
Sandy Hook	16	1830EST 1930EST			0	0	0	0	Flash Flood
A restaurant was flooded.									
Morgan County									
Wrigley	17	0450EST 0700EST			0	0	3K	0	Flash Flood
One foot of water was flowing across Kentucky Highways 7 and 711. Trees were being washed out and taking out power lines.									
Elliott County									
Countywide	17	0515EST 0730EST			0	0	220K		Flash Flood
Flood waters damaged several roads and bridges. Fast flowing water closed Kentucky Highway 7.									
Perry County									
Bulan	17	0700EST 1200EST			0	0	0	0	Flash Flood
Several roads near Bulan and Busy were flooded, including Big Creek Road and Kentucky Highway 15.									
Knott County									
Hindman	17	0902EST 1030EST			0	0	0	0	Flash Flood
Water was flowing across Kentucky Highway 60.									
Pike County									
Dorton to Marrowbone	17	0946EST 1330EST			0	0	2.8M	0	Flash Flood
Several roads and sewer systems were destroyed from incessant heavy rainfall across especially the southern part of the county.									
Floyd County									
Grethel to Melvin	17	0946EST 1103EST			0	0	0	0	Flash Flood
Several roads were under water, including 6 to 8 inches over Kentucky Route 979 near Grethel.									
Leslie County									
Countywide	17	0948EST 1200EST			0	0	50K		Flash Flood
Roads were flooded across the county.									
Breathitt County									
Lost Creek	17	1500EST 1530EST			0	0	0	0	Flash Flood
Kentucky Highway 476 was impassable due to one half foot of water flowing over the road.									
Bell County									
Chenoa	18	1003EST 1006EST	0.5	45	0	0	0	0	Tornado (F0)
A tornado touched down near Chenoa Lake and blew several large trees down. The tornado then became a waterspout over Chenoa Lake and sent water approximately 200 feet into the air before dissipating minutes later.									
Laurel County									
1 N Greenmount	18	1415EST 1630EST			0	0	0	0	Flash Flood
Kentucky Highway 30 was covered with swift flowing water, about 1 mile from the Jackson County line.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Eastern</u>									
Laurel County									
London	18	1628EST 1930EST			0	0	0	0	Flash Flood
There were 8 to 12 inches of water flowing over Tobacco Road at 4th and 9th Street.									
Clay County									
4 N Manchester to Manchester	18	1800EST 2000EST			0	0	0	0	Flash Flood
There were 8 to 10 inches of water flowing over United States Highway 421 and 12 to 15 inches of water flowing over Little Goose Road.									
Whitley County									
Corbin	30	1350EST 1600EST			0	0	0	0	Flash Flood
There were 8 to 12 inches of water over the Cumberland Parkway.									
Whitley County									
2 SW Corbin	30	1350EST			0	0	0	0	Hail (0.75)
<u>KENTUCKY, Northeast</u>									
Carter County									
Countywide	16	1715EST 1830EST			1	0	15K		Flash Flood
Localized downpours of 2 inches flooded roads around Hitchens. Three spelunkers were in one of the caves around Carter Caves. They were walking in a underground stream, heading toward a cave exit. They were about 20 feet from the exit, when a 4 to 5 foot surge of water entered the cave. The first hiker, a 23 year old man, was knocked down and carried back into the cave. His body was later recovered about 300 feet back into the cave. M23OT									
Carter County									
Hitchens	17	0515EST 0700EST			0	0	20K		Flash Flood
Little Fork flooded and closed Route 1, south of Grayson.									
Boyd County									
Rush	17	1715EST 1930EST			0	0	100K		Flash Flood
On the order of 15 homes were evacuated along Rush Creek. The East Fork also flooded. Three pumping stations were damaged by flood waters.									
Carter County									
Grayson to Williams Creek	17	1800EST 1930EST			0	0	200K		Flash Flood
Williams Creek flooded roads. About a dozen homes were flooded around Grayson.									
<u>KENTUCKY, Northern</u>									
Mason County									
Maysville	16	1430EST 1520EST			0	0			Flash Flood
Two roads were flooded in town.									
<u>KENTUCKY, Southwest</u>									
Carlisle County									
Milburn	10	1030CST			0	0			Thunderstorm Wind (G50)
Large tree limbs and a tree were blown down. Highway 80 was blocked.									
Hickman County									
Clinton to 3 E Clinton	10	1048CST			0	0			Thunderstorm Wind (G50)
Several trees were blown down in and just east of Clinton. One of the trees landed on a trailer. Power lines were down in Clinton.									
Calloway County									
4 N New Concord	10	1135CST			0	0			Thunderstorm Wind (G52)
Pontoon boats were flipped over, and there was roof damage to a shed. Several large trees over a foot in diameter were knocked down. The damage occurred just off of Highway 280, at a boat dock on an inlet of Kentucky Lake. A line of thunderstorms moved southeast across the Mississippi River from Missouri, producing isolated wind damage from the Clinton area to as far east as Kentucky Lake.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Southwest</u>									
Carlisle County									
Cunningham to Milburn	11	0500CST 1100CST			0	0			Heavy Rain
Water was over a few roads, including Kentucky Highway 80 and U.S. Highway 62. Highway 62 was closed at mile marker 3. A rural road near Cunningham that frequently floods during heavy rain was also closed.									
Christian County									
Hopkinsville	11	0700CST 1000CST			0	0			Heavy Rain
Water was over several roads in the Hopkinsville area, however, no major traffic disruptions occurred.									
Mccracken County									
Countywide	11	0700CST 1700CST			0	0			Heavy Rain
Heavy rain caused Champion Creek to rise over its banks, flooding a secondary road. A few other typical flood-prone spots on roads in the county had water on them.									
Daviess County									
Owensboro	11	0800CST 1600CST			0	0			Heavy Rain
Many streets and intersections that typically flood were under water. Although no road closings were reported, a car stalled in deep water near the National Guard armory, requiring assistance from police.									
Graves County									
Mayfield to Sedalia	11	0800CST 1100CST			0	0			Flash Flood
Flash flooding of Red Duck Creek occurred in Mayfield. Extensive street flooding occurred in Mayfield, with nearly a dozen city streets impassable. A small bridge was washed out on Byrd Road, which is a county road near the Mayfield airport. Water was reported over the bridge of another rural road. Highway 58 was closed near mile marker 1. Highway 97 was closed between Sedalia and Tri-City, as were a couple of lesser-travelled roads in the county. Most of the flooding problems were in the southern half of the county, including Mayfield.									
Marshall County									
Benton	11	0800CST 1700CST			0	0			Heavy Rain
A flood-prone area on the east side of Benton became flooded, prompting the evacuations of three residences.									
Calloway County									
Countywide	11	1200CST 1700CST			0	0			Heavy Rain
Water was over a few roads in the county. Kentucky Highway 94 was closed near mile marker 20, and Kentucky 299 was closed between mile markers 4 and 5.									
Fulton County									
Countywide	11	1200CST 1700CST			0	0			Heavy Rain
Kentucky Highway 94 was closed near mile marker 25, a location prone to flooding during heavy rain.									
Hickman County									
Countywide	11	1200CST 1700CST			0	0			Heavy Rain
Water was over a few roads in the county. Kentucky Highway 58 was closed near mile marker 20, and Kentucky 1283 was closed near mile marker 1.									
Marshall County									
2 W Briensburg to 1.8 W Briensburg	11	1820CST 1821CST	0.2	80	0	0	35K		Tornado (F1)
A mobile home was pushed two to three feet off its pier foundation, nearly pulling tie downs out of the ground. Part of the wooden deck with an attached metal awning was thrown 200 feet across a roadway. Another part of the deck crashed into a corner of the mobile home and a pickup truck, causing substantial damage to both. A heavy wooden shed with some heavy equipment in it was flipped over. A utility trailer was moved several feet. Deck furniture and the metal roof from a carport were blown away. A dog was injured. Peak winds were estimated near 75 MPH. The damage location was about a half mile south of the intersection of Highway 795 and Foust Sledd Road, which is less than a mile west of the Purchase Parkway.									
KYZ021									
Muhlenberg	13	0300CST			0	0			Flood
14	1800CST								
The Green River rose above flood stage at the Paradise Power Plant gage for a couple of days. The river crested a few inches above flood stage, causing minor flooding of low-lying fields near the river.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Southwest</u>									
Caldwell County									
2 NW Cobb	17	0030CST 0400CST			0	0			Flash Flood
Millwood Creek overflowed its banks onto Harmony Church Road. A vehicle was swept off the road and into the creek. The vehicle came to rest against some trees, and the man driving it was able to climb onto the roof. The fire department located the man a few hours later and rescued him with ladders. The flash flood was caused by a nearly stationary isolated thunderstorm.									
McLean County									
Island	17	0100CST 0400CST			0	0			Heavy Rain
Kentucky Highway 2110 was under water in an area that occasionally floods during heavy rain. A car and a semi became stranded along the flooded section of roadway. Both drivers escaped unassisted. A small isolated thunderstorm was nearly stationary in the southeast part of McLean County, producing heavy rainfall amounts.									
<u>LAKE ERIE</u>									
Avon Point To Willowick Oh									
Avon Point to Willowick	08	1400EST 1530EST			0	0			Marine Tstm Wind
Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border									
Avon Point to Willowick	08	1400EST 1530EST			0	0			Marine Tstm Wind
Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border									
Vermilion to Avon Point	08	1400EST 1530EST			0	0			Marine Tstm Wind
Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border									
Willowick to Geneva-On-The-Lake	08	1400EST 1530EST			0	0			Marine Tstm Wind
The Islands To Vermilion Oh									
The Islands to Vermilion	08	1400EST 1530EST			0	0			Marine Tstm Wind
Vermilion To Avon Point Oh									
Vermilion to Avon Point	08	1400EST 1530EST			0	0			Marine Tstm Wind
Willowick To Geneva On The Lake Oh									
Willowick to Geneva-On-The-Lake	08	1400EST 1530EST			0	0			Marine Tstm Wind
A strong thunderstorm moved east across Lake Erie and produced wind gusts in excess of 35 knots. A 42 knot gust was measured at the Fairport Harbor Lighthouse.									
Conneaut Oh To Ripley Ny									
Ripley Ny	08	1545EST 1700EST			0	0			Marine Tstm Wind
Geneva On The Lake Oh To Conneaut Oh									
Geneva-On-The-Lake to Conneaut	08	1545EST 1700EST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>LAKE ERIE</u>									
Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border									
Conneaut to Ripley Ny	08	1545EST 1700EST			0	0			Marine Tstm Wind
Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border									
Geneva-On-The-Lake to Conneaut	08	1545EST 1700EST			0	0			Marine Tstm Wind
Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border									
Willowick to Geneva-On-The-Lake	08	1545EST 1700EST			0	0			Marine Tstm Wind
Strong thunderstorms moved quickly east across Lake Erie and produced wind gusts well in excess of 35 knots. A 62 knot gust was measured at the Ashtabula Lighthouse.									
Avon Point To Willowick Oh									
Avon Point to Willowick	26	1515EST 1700EST			0	0			Marine Tstm Wind
Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border									
Avon Point to Willowick	26	1515EST 1700EST			0	0			Marine Tstm Wind
Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border									
The Islands to Vermilion	26	1515EST 1700EST			0	0			Marine Tstm Wind
Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border									
Vermilion to Avon Point	26	1515EST 1700EST			0	0			Marine Tstm Wind
The Islands To Vermilion Oh									
The Islands to Vermilion	26	1515EST 1700EST			0	0			Marine Tstm Wind
Vermilion To Avon Point Oh									
Vermilion to Avon Point	26	1515EST 1700EST			0	0			Marine Tstm Wind
Strong thunderstorms moved northeast across Lake Erie and produced wind gusts in excess of 35 knots.									
Geneva On The Lake Oh To Conneaut Oh									
Geneva-On-The-Lake to Conneaut	26	1700EST 1830EST			0	0			Marine Tstm Wind
Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border									
Geneva-On-The-Lake to Conneaut	26	1700EST 1830EST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

June 2003

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

LAKE ERIE

**Le Willowick To
Geneva On The Lake
Oh Byd 5Nm Offshore
To Intl Border**

Willowick to Geneva-On-The-Lake	26	1700EST 1830EST			0	0			Marine Tstm Wind
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**Willowick To Geneva
On The Lake Oh**

Willowick to Geneva-On-The-Lake	26	1700EST 1830EST			0	0			Marine Tstm Wind
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Strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots. A 35 knot gust was measured at the Ashtabula Lighthouse.

**Le Detroit R Lt To
Reno Beach Oh Byd
5Nm Offshore To Intl
Border**

Maumee Bay to Reno Beach	28	1930EST 2030EST			0	0			Marine Tstm Wind
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**Le Reno Beach To The
Islands Oh Byd 5Nm
Offshore To Intl Border**

Reno Beach to The Islands	28	1930EST 2030EST			0	0			Marine Tstm Wind
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**Maumee Bay To Reno
Beach Oh**

Maumee Bay to Reno Beach	28	1930EST 2030EST			0	0			Marine Tstm Wind
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**Reno Beach To The
Islands Oh**

Reno Beach to The Islands	28	1930EST 2030EST			0	0			Marine Tstm Wind
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Strong thunderstorms moved east across the western basin of Lake Erie and produced wind gusts in excess of 35 knots.

LAKE HURON

**Inner Saginaw Bay &
Sw Of Pt Au Gres To
Bay Port Mi**

Saginaw River Mouth	08	1630EST			0	0			Marine Tstm Wind
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**Outer Saginaw Bay &
Sw Of Alabaster To Pt
Austin Mi**

Bay Port	08	1630EST			0	0			Marine Tstm Wind
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**Inner Saginaw Bay &
Sw Of Pt Au Gres To
Bay Port Mi**

Saginaw River Mouth	28	1536EST			0	0			Marine Hail
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**Inner Saginaw Bay &
Sw Of Pt Au Gres To
Bay Port Mi**

Saginaw River Mouth	28	1536EST			0	0			Marine Tstm Wind
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**Outer Saginaw Bay &
Sw Of Alabaster To Pt
Austin Mi**

Bay Port	28	1536EST			0	0			Marine Hail
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**Outer Saginaw Bay &
Sw Of Alabaster To Pt
Austin Mi**

Bay Port	28	1536EST			0	0			Marine Tstm Wind
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Storm Data and Unusual Weather Phenomena

June 2003

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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LAKE MICHIGAN

Calumet Hbr II To Gary In

Gary Harbor	18	1550CST			0	0			Marine Tstm Wind
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Grand Haven To Whitehall Mi

Muskegon Harbor	27	1900EST 1910EST			0	0			Marine Tstm Wind
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A 39 knot wind gust was measured at the Muskegon coastal great lakes observing station at 7 p.m. EST.

LAKE ST CLAIR

Detroit River

Belle Isle	28	1840EST			0	0			Marine Tstm Wind
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Lake St Clair (U.S. Portion)

St. Clair Shores	28	1840EST			0	0			Marine Tstm Wind
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Lake St Clair (U.S. Portion)

St. Clair Shores to New Baltimore	28	1845EST			0	0			Marine Tstm Wind
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Lake St Clair (U.S. Portion)

St. Clair Shores to New Baltimore	28	1858EST			0	0			Marine Tstm Wind
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Detroit River

Belle Isle	29	1600EST			0	0			Marine Tstm Wind
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Lake St Clair (U.S. Portion)

Grosse Pointe	29	1600EST			0	0			Marine Tstm Wind
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LAKE SUPERIOR

Upr Ent Of Portage Canal To Manitou Is Mi

Copper Harbor	25	0630EST			0	0			Marine Tstm Wind
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The Copper Harbor ASOS (P59) recorded a wind gust of 53 knots.

LOUISIANA, Northeast

Concordia Parish

Clayton to 2 E Clayton	02	1400CST 1407CST			0	0	25K		Thunderstorm Wind (G55)
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Several trees and powerlines were blown down along highway 569.

Concordia Parish

Wildsville	03	1420CST			0	0	1K		Thunderstorm Wind (G50)
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Several large limbs were blown down.

Catahoula Parish

Harrisonburg	11	1400CST			0	0	1K		Thunderstorm Wind (G50)
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A few large limbs were blown down.

Catahoula Parish

Larto	12	0740CST			0	0	2K		Thunderstorm Wind (G50)
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A few trees were blown down.

Concordia Parish

Deer Park	12	0810CST			0	0	10K		Thunderstorm Wind (G50)
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A few trees and powerlines were blown down.

Concordia Parish

Frogmore	13	1500CST			0	0	10K		Thunderstorm Wind (G55)
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Numerous trees were blown down.

Catahoula Parish

Countywide	15	1235CST			0	0	15K		Thunderstorm Wind (G55)
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Numerous trees were blown down.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<u>LOUISIANA, Northeast</u>							
Tensas Parish							
6 NW St Joseph	15	1300CST			0 0	5K	Thunderstorm Wind (G50)
			Numerous large limbs were blown down on powerlines.				
Franklin Parish							
5 W Wisner	15	1305CST			0 0	5K	Thunderstorm Wind (G50)
			A few trees were blown down.				
Morehouse Parish							
2 NW Bonita	17	1245CST 1340CST			0 0	1K	Flash Flood
			Heavy rains caused a few rural streets to flood.				
Morehouse Parish							
Countywide	17	1540CST 1700CST			0 0	5K	Flash Flood
			Heavy rains caused several streets to flood across the parish.				
West Carroll Parish							
Countywide	17	1600CST 1625CST			0 0	10K	Flash Flood
			Heavy rains caused several rural roads to become impassable due to water covering the road.				
West Carroll Parish							
Epps	18	1845CST			0 0	30K	Thunderstorm Wind (G50)
			A mobile home was damaged as a large tree fell onto it.				
<u>LOUISIANA, Northwest</u>							
Grant Parish							
8 N Williana	02	1420CST			0 0		Thunderstorm Wind (G52)
			Several large trees down along Highway 167.				
Caddo Parish							
Shreveport	10	1805CST			0 0		Thunderstorm Wind (G55)
			Numerous trees and power lines down.				
Claiborne Parish							
Homer	10	2015CST			0 0		Thunderstorm Wind (G55)
			Several large trees down.				
Claiborne Parish							
Homer	10	2015CST			0 0	120K	Thunderstorm Wind (G55)
			Numerous trees down. Two homes were heavily damaged from fallen trees.				
Lincoln Parish							
Ruston	11	1519CST			0 0		Hail (1.00)
Lincoln Parish							
6 NE Ruston	11	1610CST			0 0		Hail (1.00)
Union Parish							
Farmerville	11	1710CST			0 0		Hail (1.00)
Red River Parish							
Coushatta	14	1645CST			0 0		Thunderstorm Wind (G55)
			Numerous trees down.				
Sabine Parish							
Negreet	14	1803CST			0 0		Thunderstorm Wind (G52)
			Several large trees down.				
Caddo Parish							
7 SE Shreveport	14	2055CST			0 0		Thunderstorm Wind (G52)
			Large limbs on roof and several large trees toppled.				
Red River Parish							
Coushatta	16	1430CST			0 0		Thunderstorm Wind (G60)
			Wall blown down and roof blown off an automobile dealership. Sign blown down at a grocery store. Numerous powerlines and trees down.				

Storm Data and Unusual Weather Phenomena

June 2003

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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LOUISIANA, Northwest

Caddo Parish

7 S Shreveport

16 1600CST **0 0** **Lightning**

Lightning struck an oil tank during a thunderstorm, setting off a blaze that consumed four tanks and burned a power line before three dozen firefighters brought the flames under control. A column of black smoke could be seen from almost 10 miles away as it billowed more than a mile in the air. Underground pipelines that feed oil to the tanks had to be shut off before firefighters could begin fighting the fire, which was located at the junction of state highways 1 and 175 south of Shreveport. The tanks were declared a total loss. The area is sparsely populated and no people were endangered by the fire or its residual effects, authorities said.

Natchitoches Parish

Natchitoches

17 1400CST **0 0** **50K Lightning**

Lightning caused a fire at the University Columns Apartments at NSU. There were no reports of injuries.

Union Parish

Farmerville

17 1425CST **0 0** **Flash Flood**

1730CST

Several streets flooded and barricaded in town.

Natchitoches Parish

Natchitoches

17 1520CST **0 0** **Flash Flood**

1720CST

Several streets flooded and closed.

Ouachita Parish

West Monroe

17 1630CST **0 0** **Flash Flood**

2000CST

Several streets under high water including State Highway 34 which was closed.

Ouachita Parish

West Monroe

17 1715CST **0 0** **Flash Flood**

2030CST

High water reported in a subdivision near the Brownville Community.

LOUISIANA, Southeast

Terrebonne Parish

3 NE Dulac

05 1515CST **0 0** **Funnel Cloud**

A funnel cloud was observed between Dulac and Chauvin.

Assumption Parish

7 W Paincourtville

11 0530CST **0 0** **125K Flash Flood**

1100CST

Heavy rainfall of 6 to 8 inches in a short period of time caused the flooding of 50 homes, 5 businesses and one governmental building around Pierre Part.

Pointe Coupee Parish

New Roads

12 0843CST **0 0** **1.5K Thunderstorm Wind (G50)**

Several trees were blown down.

Iberville Parish

Plaquemine

12 0900CST **0 0** **1.5K Thunderstorm Wind (G50)**

Several trees were blown down.

Ascension Parish

Prairieville

12 0930CST **0 0** **1.5K Thunderstorm Wind (G50)**

Several trees were knocked down.

Livingston Parish

**Holden to
Livingston**

12 0930CST **0 0** **2K Thunderstorm Wind (G50)**

Several trees were knocked down in an area from Holden to Livingston.

Iberville Parish

St Gabriel

12 0930CST **0 0** **1.5K Thunderstorm Wind (G50)**

Several trees were blown down.

St. Tammany Parish

Folsom

12 1026CST **0 0** **1.5K Thunderstorm Wind (G50)**

Several trees were blown down.

Tangipahoa Parish

**Hammond to
Ponchatoula**

12 1040CST **0 0** **2K Thunderstorm Wind (G50)**

Several trees and power lines were knocked down in an area from Hammond to Ponchatoula.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>LOUISIANA, Southeast</u>									
Plaquemines Parish									
Alliance	13	0400CST			0	0			Thunderstorm Wind (G50)
	Several power poles were knocked down by thunderstorm winds.								
Pointe Coupee Parish									
6 NW New Roads	15	1203CST	0.2	20	0	0			Tornado (F0)
	A weak tornado briefly touched down in a sugar cane field causing no damage.								
East Baton Rouge Parish									
Baton Rouge	15	1250CST			0	0	2K		Thunderstorm Wind (G50)
	Several trees were blown down.								
Tangipahoa Parish									
2 W Kentwood	15	1410CST			0	0	1K		Thunderstorm Wind (G50)
	Power lines were knocked down.								
St. Helena Parish									
2 N Liverpool	15	1415CST			0	0	2K		Thunderstorm Wind (G50)
	Trees and power lines were blown down.								
Tangipahoa Parish									
5 E Kentwood	15	1440CST			0	0	2K		Thunderstorm Wind (G50)
	Several trees were blown down.								
St. Tammany Parish									
2 N Covington	15	1545CST			0	0	2K		Thunderstorm Wind (G50)
	Several trees were blown down.								
Orleans Parish									
New Orleans	19	1130CST 1400CST			0	0	150K		Flash Flood
	Rainfall amounts of up to six inches in a 90 minute time period resulted flooding of numerous streets and a few homes and businesses in areas of New Orleans. The French Quarter, the Central Business District, and the Uptown area were particularly hard hit. Numerous cars were flooded.								
Orleans Parish									
New Orleans	24	1200CST 1300CST			0	0			Heavy Rain
	Rainfall amounts of more than two inches in less than an hour resulted in the flooding of several streets in portions of New Orleans including the French Quarter and Central Business District.								
Lafourche Parish									
5 SW Raceland	27	1300CST			0	0	25K		Heavy Rain
	Heavy rainfall caused a metal canopy to collapse on a car below causing severe damage to the vehicle and trapping the driver inside.								

Storm Data and Unusual Weather Phenomena

June 2003

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

LOUISIANA, Southeast

LAZ038>040-050-058>070 **Tangipahoa - Washington - St. Tammany - Livingston - St. John The Baptist - Upper Lafourche - St. Charles - Upper Jefferson - Orleans - Upper Plaquemines - Upper St. Bernard - Upper Terrebonne - Lower Terrebonne - Lower Lafourche - Lower Jefferson - Lower Plaquemines - Lower St. Bernard**

30	0600CST 2359CST			0	0	34M	Tropical Storm
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Tropical Storm Bill developed in the southern Gulf of Mexico on Sunday, June 29, 2003, then moved steadily northward toward the Louisiana coast. Tropical Storm Bill moved into southeast Louisiana south of Houma around 2000CST on Monday, June 30, 2003 then moved north northeast across southeast Louisiana and at midnight was entering south Mississippi. The lowest pressure recorded in southeast Louisiana was 995.4 mb at the Louisiana Universities Marine Consortium (LUMCON) facility near Cocodrie. Storm surge of 3 to 5 feet above normal was common along the southeast Louisiana coast and Lake Pontchartrain. The maximum storm surge was 5.8 ft (datum NAVD88) at the LUMCON facility. Sustained winds of 35 to 45 mph were common across the area. The maximum one minute sustained wind was 48 kt (53 mph) at LUMCON and the maximum gust was 54 knots (62 mph) at the NWS automated wind gage at the north end of the Lake Pontchartrain Causeway in Mandeville. Storm total rainfall (approximately 48 hours) was 6 to 10 inches. The maximum measured rainfall was 10.16 inches at Folsom. Significant river flooding developed during the first five days of July as a result of the heavy rainfall and will be described in the July Storm Data.

Three confirmed tornadoes touched down in southeast Louisiana. One of those tornadoes touched down near Reserve causing extensive damage to a private school and mobile home park. One woman and three small children were injured but fortunately, not seriously.

The collective effects of Tropical Storm Bill in southeast Louisiana resulted in four injuries and approximately \$44 million in property damage in the parishes of Jefferson, Livingston, Lafourche, Orleans, Plaquemine, St. Bernard, St. Charles, St. John the Baptist, St. Tammany, Tangipahoa, and Washington. Specifically, the three tornadoes resulted in 4 injuries and an estimated \$2 million in property damage; property damage from the strong winds was estimated at 31 million, storm surge flooding along the coast and tidal lakes caused 4.0 million in damage and heavy rainfall, river flooding, and flash flooding caused \$7 million in damage. Damage estimates are based on the Louisiana Insurance Department's estimate of \$22 million in insured losses (included FEMA flood insurance claims) increased by a factor of two to account for uninsured losses.

Jefferson Parish

Countywide	30	1000CST 1300CST			0	0	130K	Flash Flood
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Orleans Parish

Countywide	30	1000CST 1300CST			0	0	130K	Flash Flood
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Plaquemines Parish

Countywide	30	1000CST 1300CST			0	0	130K	Flash Flood
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St. Bernard Parish

Countywide	30	1000CST 1300CST			0	0	130K	Flash Flood
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St. Bernard Parish

Delacroix	30	1100CST	0.2	30	0	0	5K	Tornado (F0)
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A tornado touched down destroying a boat house.

St. John The Baptist Parish

Reserve	30	1110CST	0.2	40	0	4	2M	Tornado (F1)
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A tornado touched down briefly near Reserve striking a private high school and a mobile home park. Several buildings at the private school were damaged including on classroom building where one half of the building was completely demolished. Around 20 trailers were heavy damaged or destroyed. One mobile home was lifted into the air and deposited 30 yards away. One woman and three children inside the mobile home were injured, but fortunately not seriously. There were several eyewitnesses to the short lived tornado episode.

Orleans Parish

Lake Catherine	30	1145CST	0.2	30	0	0	5K	Tornado (F0)
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A weak tornado touched down in the Lake Catherine area tearing off portion of roof and damaging an auto.

St. Tammany Parish

Countywide	30	1320CST 2000CST			0	0	500K	Flash Flood
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Rainbands from Tropical Storm Bill resulted in intense rainfall overwhelming drainage capacity. Roadways were severely flooded and some automobiles were flooded.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>LOUISIANA, Southeast</u>									
LAZ038-040-058-060>063-066>070	Tangipahoa - St. Tammany - St. John The Baptist - St. Charles - Upper Jefferson - Orleans - Upper Plaquemines - Lower Terrebonne - Lower Lafourche - Lower Jefferson - Lower Plaquemines - Lower St. Bernard								
	30	1400CST 2330CST			0	0	4.1M		Storm Surge
	Tropical Storm Bill caused storm surge flooding of 3 to 5 feet above normal across coastal southeast Louisiana including Lake Pontchartrain. Representative peak tide gage readings included LUMCON near Cocodrie 5.8 ft (datum NAVD88), Grand Isle 3.12ft (datum MLLW), Mandeville 5.04 ft (datum NGVD). At Montegut, Terrebonne Parish, a levee that had not been fully repaired from damage sustained during Hurricane Lili was breached with many homes being flooded. Storm surge flooding occurred in areas outside of the hurricane protection system including; Grand Isle, lower portions of Lafourche, Terrebonne, St. Bernard and Plaquemines Parish. Though not severe, many roadways were flooded for a short period of time. Storm surge flooding also occurred along Lake Pontchartrain with roadways, and a few homes and businesses flooded from the Mandeville area to Slidell.								
Tangipahoa Parish									
South Portion	30	1630CST 2100CST			0	0			Flash Flood
<u>LOUISIANA, Southwest</u>									
Vernon Parish									
7 W Lacamp	02	1625CST			0	0			Hail (0.88)
Avoyelles Parish									
8 N Simmesport	03	1740CST			0	0	2K		Thunderstorm Wind (G50)
	Several trees were blown down.								
Beauregard Parish									
Ragley	03	1847CST			0	0	5K		Thunderstorm Wind (G50)
	Crossarms of powerline poles torn off near South Beauregard High School.								
Calcasieu Parish									
Gillis	03	1910CST			0	0			Hail (1.75)
Calcasieu Parish									
3 W Sulphur	03	2010CST			0	0			Hail (1.75)
Jefferson Davis Parish									
Lacassine	03	2011CST			0	0	150K		Thunderstorm Wind (G50)
	A construction company had the roof and one wall blown down. A mobile home nearby had its roof torn off. Several trees and power lines were blown down.								
Cameron Parish									
10 SE Grand Lake	03	2125CST			0	0			Hail (0.75)
St. Mary Parish									
Berwick	11	1005CST			0	0	2K		Thunderstorm Wind (G50)
	Trees were blown down.								
St. Mary Parish									
Franklin	11	1035CST 1130CST			0	0	5K		Flash Flood
	Around ten inches of rain fell in less than six hours, resulting in serious street flooding in Franklin and along Highway 182.								
Iberia Parish									
3 NE New Iberia	11	1115CST 1200CST			0	0	100K		Flash Flood
	Around eight inches of rain in two hours resulted in a dirt bridge being washed away near New Iberia. 34 homes were flooded in the Loreauville area.								
St. Landry Parish									
Lawtell	12	0934CST			0	0	50K		Thunderstorm Wind (G50)
	A barn was destroyed and fence blown down in Lawtell. A mobile home was overturned near Opelousas, and a tree was blown down.								
Avoyelles Parish									
Center Pt	12	0940CST			0	0	2K		Thunderstorm Wind (G50)
	Trees were blown down.								
Lafayette Parish									
Carencro	12	1008CST			0	0	2K		Thunderstorm Wind (G50)
	Trees and power lines were blown down.								
St. Martin Parish									
Breaux Bridge	12	1040CST			0	0	5K		Thunderstorm Wind (G50)
	Trees were blown down.								

Storm Data and Unusual Weather Phenomena

June 2003

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, Southwest</u>									
Vernon Parish									
4 W Anacoco	12	1435CST			0	0	2K		Thunderstorm Wind (G50)
			Trees and power lines were blown down.						
Vernon Parish									
Leesville	12	1453CST			0	0			Hail (0.88)
Avoyelles Parish									
Effie	12	1610CST			0	0	2K		Thunderstorm Wind (G50)
			Trees were blown down on Highway 115.						
Vernon Parish									
3 N Evans	13	1503CST			0	0	2K		Thunderstorm Wind (G50)
			Trees were blown down on Highway 111.						
Vernon Parish									
Leesville	13	1530CST			0	0	2K		Thunderstorm Wind (G50)
			Trees were blown down.						
<u>MAINE, North</u>									
Aroostook County									
Ashland									
	27	1658EST			0	0			Thunderstorm Wind (G52)
			Power lines were blown down from estimated wind gusts of 52 knots (60 mph). Between 800 and 900 customers lost power for up to 11 hours.						
Penobscot County									
3 W Millinocket									
	27	1710EST			0	0			Thunderstorm Wind (G52)
			Large tree limbs were blown down in the vicinity of Smith Pond from estimated wind gusts of 52 knots (60 mph).						
Penobscot County									
5 W Millinocket									
	27	1715EST			0	0			Thunderstorm Wind (G52)
			Large tree limbs were blown down in the vicinity of South Twin Lake from estimated wind gusts of 52 knots (60 mph).						
Aroostook County									
Washburn									
	27	1724EST			0	0			Thunderstorm Wind (G50)
Aroostook County									
Caribou									
	27	1725EST			0	0			Thunderstorm Wind (G56)
			Estimated wind gusts of 56 knots (65 mph) uprooted or snapped many trees of varying sizes and broke large branches across the entire town. Two trees fell on a car. Structural damage was also reported to roofs and porches. A small ultra-light plane was flipped at the airport. The strong winds and falling trees also brought down many power lines. Between 2200 and 2300 customers lost power for up to 10 hours. The strong gusts lasted several minutes.						
Aroostook County									
Presque Isle									
	27	1727EST			0	0			Thunderstorm Wind (G52)
			Estimated wind gusts of 52 knots (60 mph) toppled three 30 foot flag poles. Several trees and many large branches were also blown down. Between 600 and 700 customers lost power for several hours. The strong gusts lasted several minutes.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MAINE, North</u>									
Aroostook County									
Connor	27	1730EST			0	0			Thunderstorm Wind (G56)
Estimated wind gusts of 56 knots (65 mph) uprooted or snapped trees of varying sizes and broke many large branches. The roof was blown off a porch and a camper was overturned. Power lines were also blown down.									
Aroostook County									
New Sweden	27	1730EST			0	0			Thunderstorm Wind (G52)
Power lines were blown down from estimated wind gusts of 52 knots (60 mph). Between 1700 and 1800 customers lost power for up to 8 hours.									
Aroostook County									
Woodland Center	27	1730EST			0	0			Thunderstorm Wind (G52)
Trees and power lines were blown down from estimated wind gusts of 52 knots (60 mph).									
Aroostook County									
Ft Fairfield	27	1735EST			0	0			Thunderstorm Wind (G52)
Power lines were blown down from estimated wind gusts of 52 knots (60 mph). Between 800 and 900 customers lost power for up to 5 hours.									
Aroostook County									
Sherman	30	1410EST			0	0			Hail (1.25)
Aroostook County									
Wytopitlock	30	1500EST			0	0			Thunderstorm Wind (G52)
Five trees were blown down from estimated winds of 52 knots (60 mph) in the vicinity of Wytopitlock Lake.									
<u>MAINE, South</u>									
York County									
Acton	27	1345EST			0	0			Thunderstorm Wind (G50)
York County									
Alfred	27	1415EST			0	0			Thunderstorm Wind (G50)
Oxford County									
Rumford	27	1451EST			0	0			Hail (1.75)
Oxford County									
Rumford	27	1451EST			0	0			Thunderstorm Wind (G60)
Franklin County									
Wilton	27	1530EST			0	0			Thunderstorm Wind (G50)
Severe thunderstorms moving through western Maine produced damaging winds and hail in parts of the state. In York County, winds brought down wires and/or poles in Acton, Shapleigh, and Alfred. In Rumford, the winds downed trees, caused a hanger at Dyer Airport to collapse, and damaged several planes. Lightning from the storms ignited several small fires in the area around Rumford. Trees were also reported down in the Wilton/Industry area.									
Kennebec County									
Vassalboro	30	1320EST			0	0			Hail (1.75)
Kennebec County									
China	30	1330EST			0	0			Hail (0.75)
Waldo County									
Freedom	30	1346EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MAINE, South</u>									
Waldo County									
Knox	30	1400EST			0	0			Hail (1.00)
Waldo County									
Searsmont	30	1500EST			0	0			Thunderstorm Wind (G50)
Severe thunderstorms moved through Kennebec and Waldo Counties between 2 and 5 pm. The storms produced a wind gust of 45 kts at the Waterville Airport and downed trees in Freedom and Searsmont. The storms also produced mostly small hail across the area, however, penny-sized hail was reported in China, quarter-sized hail was reported in Knox, and golf ball-size hail was reported in Vassalboro.									
<u>MARYLAND, Central</u>									
MDZ003>007- 009>011-013>014- 016>018			Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert						
	01	0400EST 1300EST			0	0	6.5K		Strong Wind
A strong cold front moved through the region during the early morning hours of the 1st. After the front passed, winds gusted up to 50 MPH through early afternoon. The gusty winds downed a number of trees region wide because the ground was saturated from recent heavy rains. Measured wind gusts included 43 MPH at Frederick, 42 MPH at Annapolis, 41 MPH at Waldorf, and 40 MPH at Martin State Airport near Baltimore. In Montgomery County, several tree branches were downed. A large tree fell onto a house in Aspen Hill. Another large tree significantly damaged a home in Bethesda. In Baltimore, a large tree was downed onto a parked car on Lake Avenue.									
Frederick County									
Countywide	03	1945EST 2100EST			0	0			Flash Flood
Many roads were flooded.									
Washington County									
Countywide	03	1945EST 2200EST			0	0			Flash Flood
Many roads were flooded and a water rescue was required.									
MDZ003>004									
Washington - Frederick									
	03	2100EST			0	0			Flood
	06	0400EST							
Thunderstorms with very heavy rainfall moved through North Central Maryland during the evening of the 3rd. Several creeks and streams flooded and a number of roads were inundated by water after 2 to 4 inches of rain fell in just a few hours. In Washington County, six roads were closed by flooding in the Hagerstown and Leitersburg areas. They included Battletown Road, Cress Pond Road, Broadfording Road, Misty Meadow Road, and Lehman's Mill Road. One person had to be rescued after their car was caught in floodwaters on Battletown Road. Flooded basements were also reported in a few communities. Conococheague Creek rose above its bankful stage of 8 feet at Fairview around 8:30 PM on the 3rd. It crested at 14.1 feet at 11:45 AM on the 4th and fell below bankful stage at 5 AM on the 6th. The river spilled over onto Wishard Road and nearby low lying areas around Fairview. In Frederick County, at least eight roads were closed by flooding in the northern portion of the county.									
Anne Arundel County									
Countywide	07	0600EST 1500EST			0	0			Heavy Rain
Prince George'S County									
Countywide	07	0600EST 1500EST			0	0			Heavy Rain
St. Mary'S County									
Countywide	07	0600EST 1500EST			0	0			Heavy Rain
Montgomery County									
Countywide	07	0800EST 1500EST			0	0			Flash Flood
Howard County									
Countywide	07	0900EST 1200EST			0	0			Flash Flood
Frederick County									
Countywide	07	0930EST 1500EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
MARYLAND, Central									
MDZ003>004		Washington - Frederick							
	07	1245EST			0	0			Flood
	09	0745EST							
		The Conococheague Creek overflowed its banks.							
Harford County									
Countywide	07	1530EST			0	0			Flash Flood
		1730EST							
		Showers and thunderstorms with very heavy rainfall moved through central Maryland between mid morning and mid afternoon. Two to three inches of rain accumulated during this time causing roads and waterways to flood. In Washington County, At Fairview, Conococheague Creek rose above its bankful stage of 8 feet at 11:45 AM on the 7th. It crested at 11 feet at 12:45 AM on the 8th and fell below bankful stage at 8:45 AM on the 9th. Much of Wishard Road was flooded along the river. In Frederick County, At Frederick, the Monocacy River rose above its flood stage of 15 feet at 8 AM on the 8th. It crested at 15.1 feet at 10 AM and fell below flood stage at 11:30 AM. Water inundated the sewage treatment plant in Frederick. Carroll Creek, a tributary of the Monocacy River, overflowed onto Gas House Pike. Heavy rainfall caused street flooding in Libertytown. Sixteen other county roads were closed by flooding countywide. In Montgomery County, street flooding was reported in Chevy Chase. Rockville Pike (Route 355) between Rockville and Bethesda was also flooded. In Kensington, Beach Drive was closed by high water between Connecticut Avenue and Stoneybrooke Drive. In Germantown, Great Seneca Creek flooded the intersection of Brink and Blunt roads. Twenty other county roads were also flooded. In Howard County, Furnace Avenue and South Entrance Road were closed by high water. In the western portion of the county five additional roads were flooded including Carrs Mill Road, Warfield Road, and Route 108 near Columbia. In Harford County, the intersection of routes 136 and 7 in Belcamp was flooded. Several basements were flooded in the vicinity. In Prince George's County, Route 50 was flooded near the exit for Route 301 after a storm drain was unable to keep up with the heavy downpours. In addition, all of the floodgates had to be opened at the T. Howard Duckett Dam along the Patuxent River when the waterway flooded. A 120-unit apartment building complex in Laurel was voluntarily evacuated because the open floodgates threatened to flood the access road to the complex.							
Montgomery County									
Countywide	11	1915EST			0	0			Lightning
		2015EST							
		Several homes caught fire after being struck by lightning.							
Montgomery County									
Countywide	11	1945EST			0	0	2K		Thunderstorm Wind (G50)
		2015EST							
		Many trees and wires were downed.							
Howard County									
Countywide	11	2030EST			0	0	2K		Thunderstorm Wind (G50)
		Trees and wires were downed in Columbia and Ellicott City.							
Prince George'S									
County									
Hyattsville	11	2030EST			0	0	0.10K		Thunderstorm Wind (G50)
		Trees and wires were downed.							
Charles County									
La Plata	11	2045EST			0	0	0.50K		Thunderstorm Wind (G50)
		Trees were downed just south of town.							
St. Mary'S County									
3 W Mechanicsville	11	2100EST			0	0	0.50K		Thunderstorm Wind (G50)
		Trees were downed onto Route 236.							
Calvert County									
Huntingtown	11	2135EST			0	0	0.50K		Thunderstorm Wind (G50)
		A tree was downed.							
		Thunderstorms with high winds and frequent lightning moved through Central and Southern Maryland during the evening of the 11th. In Montgomery County, trees and wires were downed in several locations. In addition, a handful of homes caught fire after being hit by lightning in Rockville, Germantown, and Takoma Park. In Howard County, trees were downed in Columbia and Ellicott City. In Prince George's County, trees and wires were downed in Hyattsville. In Calvert County, a few trees were downed in Huntingtown. A house on Coring Drive in Huntingtown was struck by lightning. In Charles County, trees were downed south of La Plata. In St. Mary's County, trees were downed onto Route 236 three miles west of Mechanicsville.							
St. Mary'S County									
Countywide	12	1620EST			0	0	2K		Thunderstorm Wind (G50)
		1630EST							
		Trees were downed, including one which fell onto a house.							

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MARYLAND, Central</u>									
Frederick County									
Countywide	12	1625EST 1645EST			0	0	1K		Thunderstorm Wind (G50)
									Trees and wires were downed.
Montgomery County									
Rockville	12	1625EST			0	0	1K		Thunderstorm Wind (G50)
									Trees were downed onto Sleepy Hollow Lane.
Charles County									
La Plata	12	1630EST			0	0	2K		Thunderstorm Wind (G50)
									Many trees were downed south of town.
Prince George'S County									
Countywide to Palmer Park	12	1630EST 1730EST			0	0			Lightning
									Several homes and a commercial structure were struck by lightning and two serious fires resulted.
Montgomery County									
Silver Spg	12	1635EST			0	0	1K		Thunderstorm Wind (G50)
									Trees were downed onto Shannondale Drive and Pretoria Drive.
Anne Arundel County									
Countywide	12	1700EST 1900EST			0	0			Heavy Rain
Anne Arundel County									
Countywide	12	1700EST 1800EST			0	0			Lightning
									Five homes were struck by lightning.
Baltimore County									
Countywide	12	1700EST 1930EST			0	0			Flash Flood
									A stream overflowed its banks and roads and basements were flooded.
Baltimore City (C)									
Baltimore	12	1700EST 1930EST			0	0			Flash Flood
									Six roads were flooded.
Prince George'S County									
Andrews Afb	12	1700EST			0	0			Thunderstorm Wind (G72)
									A wind gust of 83 MPH was recorded. The time was estimated.
Prince George'S County									
Countywide	12	1700EST 1900EST			0	0			Flash Flood
									Roads were flooded and several water rescues were conducted.
Anne Arundel County									
North Portion	12	1715EST 1730EST			0	0	2K		Thunderstorm Wind (G50)
									Trees and power lines were downed.
Prince George'S County									
Greenbelt	12	1715EST			0	0	1K		Thunderstorm Wind (G50)
									Trees were downed onto the Baltimore-Washington Parkway near the intersection of Route 410.
Carroll County									
Countywide	12	1800EST 1900EST			0	0			Flash Flood
									A county road was flooded.
Carroll County									
Countywide	12	1800EST 1915EST			0	0			Flash Flood
									A stream overflowed its banks in Westminster.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MARYLAND, Central</u>									
Frederick County									
Countywide	12	1800EST			0	0			Lightning
Two homes were struck by lightning.									
Harford County									
Countywide	12	1800EST 2200EST			0	0			Heavy Rain
Montgomery County									
Countywide	12	2015EST 2115EST			0	0			Flash Flood
Several roads were flooded.									
Thunderstorms with very heavy rainfall, frequent lightning, and damaging winds moved through central Maryland during the afternoon and evening of the 12th. Several locations reported downed trees and power lines in addition to flooding. In Frederick County, trees and wires were downed in Urbana and Green Valley. Up to 40 trees were downed in New Market, including some which had to be cleared from roads. A tree fell onto a house on Lewisdale Road in Hyattstown. A home in New Midway and in New Market were struck by lightning. In Carroll County, a county road was inundated with water. A stream that runs through Wakefield Valley Golf Course in Westminster overflowed onto low lying areas. In Baltimore County, a stream overflowed its banks and a road and several basements were flooded in Towson. An observer in Towson recorded 2.52 inches of rain and two inches of this total fell in 45 minutes. Five roads were flooded in Parkville. In Baltimore, six roads were flooded. In addition, pea sized hail fell in Towson and Baltimore. An observer in Kingsville recorded 1.8 inches of rain in 2 hours. In Harford County, 2.06 inches of rain was recorded in Fallston. A handful of basements were flooded. Hail of unknown size also fell.									
In Montgomery County, trees were downed onto Sleepy Hollow Lane in Rockville. Trees were also downed onto Shannondale Drive and Pretoria Drive in Silver Spring and in the communities of Brookeville and Laytonsville. A wind gust of 60 MPH was reported in Germantown. Route 355 in Gaithersburg was closed by high water. A low water bridge on Hyattstown Road near Prescott Road was underwater. Little Seneca Creek overflowed its banks, reaching a stage of 8.1 feet at Dawsonville around 9 PM. Flood stage at this location is 8 feet. Goshen Branch near Damascus also flooded. A handful of motorists were caught in rising water and had to be rescued by emergency personnel. Rescuers also rescued a dog that was caught on a rock in the raging Potomac River near Old Angler's Inn. In addition, a few homes were struck by lightning. A 30 vehicle pileup on Interstate 270 near Montrose Road was also blamed on the storm. In Anne Arundel County, trees and power lines were downed in Riviera Beach, Annapolis, Arnold and Cape St. Claire. Some roads were blocked and four homes were slightly damaged by the fallen trees. Large trees and power lines were also downed along College Parkway and Alameda Parkway. A wind gust of 43 MPH was recorded in Shadyside and a gust of 41 MPH was recorded in Annapolis. Lightning struck five houses and a few trees across the county. In Prince George's County, a wind gust of 83 MPH was recorded at Andrews Air Force Base. A gust of 49 MPH was recorded in Bladensburg and a gust of 42 MPH was recorded in Landover. Trees were downed onto the Baltimore-Washington Parkway near the intersection of Route 410 in Greenbelt. The intersection of Route 450 and Greenvale Parkway was flooded in Landover Hills. In Mt. Rainer, Queens Chapel Road and other low lying areas were flooded. Fire fighters had to rescue several drivers from their cars countywide. Countywide, several homes and a commercial structure were struck by lightning and two serious fires were reported. In Charles County, many trees were downed south of La Plata. A wind gust of 41 MPH was recorded in Waldorf. In St. Mary's County, trees were downed in Thompson's Corner, Compton, Chaptico, Country Lakes, and Mechanicsville. A home in Compton was damaged by a felled tree.									
Montgomery County									
Germantown	13	1635EST			0	0			Thunderstorm Wind (G52)
A 60 MPH wind gust was estimated.									
Montgomery County									
Brookeville to Laytonsville	13	1750EST			0	0	1K		Thunderstorm Wind (G50)
Trees were downed.									
Howard County									
Glenwood	13	1800EST			0	0	1K		Thunderstorm Wind (G50)
Trees were downed.									
Montgomery County									
North Portion	13	1830EST 1930EST			0	0			Flash Flood
Route 108 and Woodfield Road in Damascus were flooded.									
Carroll County									
Countywide	13	1840EST 1940EST			0	0			Flash Flood
Flood waters covered a bridge on Route 97 in Mayberry.									
Harford County									
Countywide	13	1840EST 1940EST			0	0			Flash Flood
Flooding was reported in Fallston, Whiteford, and Norrisville.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MARYLAND, Central									
Washington County									
Countywide	13	1840EST 1940EST			0	0			Flash Flood
	Flooding was reported in Hagerstown and Williamsport.								
Baltimore City (C)									
Baltimore	13	1850EST			0	0	1K		Thunderstorm Wind (G50)
	Several trees were downed.								
Baltimore City (C)									
Baltimore	13	1900EST 2000EST			0	1	500K		Flash Flood
	Cars and homes were damaged after several streets were flooded by rapidly rising water. Motorists had to be rescued or swam to safety. A woman was injured when she fell through a floor that was weakened by flooding.								
Baltimore County									
Countywide	13	1905EST			0	0	2K		Thunderstorm Wind (G50)
	Trees were downed in Parkville and Towson.								
Baltimore County									
Countywide	13	1915EST 2015EST			0	0			Flash Flood
	Flooding was reported.								
Howard County									
Countywide	13	1920EST 2020EST			0	0			Flash Flood
	Several roads were closed due to flooding and mudslides in the Lisbon area.								
Anne Arundel County									
Harwood	13	2000EST			0	0	40K		Lightning
	A lightning strike caused a fire which severely damaged the attic of a home. Thunderstorms with very heavy downpours and gusty winds moved through North Central Maryland for the third straight day on the 13th. In Washington County, an underpass was flooded in Hagerstown. Roads were also flooded in Williamsport. In Montgomery County, a 60 MPH gust was reported in Germantown. Trees were downed in Brookeville and Laytonsville. Route 108 and Woodfield Road in Damascus were flooded after 3 inches of rain fell. In Howard County, trees were downed in Glenwood. Several roads were closed by flooding or mudslides in the Lisbon area. In Anne Arundel County, a home on Polling House Road in Harwood was struck by lightning three times. The attic of the home was largely destroyed by the resulting fire. In Baltimore County, several trees were downed in Baltimore, Towson, and Parkville. Severe flash flooding was reported in the northeast part of Baltimore. Two streets became rushing rapids, washing several cars hundreds of yards away. Several motorists had to be rescued from their cars or had to swim to safety. The hardest hit areas included Hillen Road, 35th Street, and Aisquith Street near 25th Street. The wall of water reached a height of 10 feet near the intersection of Hillen Road and 35th Street. A pile of vehicles found in this location after the water receded testified to the power of the flood. One woman was injured at this same intersection after flooding weakened the floor in the first level of her home and she fell through when it collapsed. Numerous other homes were damaged by flood waters in this part of town as well. At the intersection of Aisquith Street and 25th Street, the wall of water reached 6 feet in height. Six cars were stuck in water beneath a railroad overpass. Minor street flooding was reported at the intersection of Northern Parkway and Walther Boulevard. Street flooding was also reported in Parkville and Towson. In Carroll County, flood waters covered a bridge along Route 97 in Mayberry. In Harford County, flooding was reported in Whiteford, Norrisville, and other low lying areas along the Pennsylvania border. Flash flooding was also reported in Fallston where several feet of water was seen rushing down roads and basements were flooded.								
Montgomery County									
Countywide	14	1500EST 1600EST			0	0			Heavy Rain
Prince George'S County									
Laurel	14	1515EST			0	0	0.50K		Thunderstorm Wind (G50)
	A few trees were downed.								
Charles County									
Waldorf	14	1545EST			0	0	1K		Thunderstorm Wind (G50)
	Trees were downed.								
Prince George'S County									
Accokeek	14	1547EST			0	0	0.50K		Thunderstorm Wind (G50)
	Large tree limbs were downed.								
Charles County									
Cobb Is	14	1600EST			0	0	1K		Thunderstorm Wind (G50)
	Trees were downed.								

Storm Data and Unusual Weather Phenomena

June 2003

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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MARYLAND, Central

Scattered thunderstorms with high winds and heavy rainfall moved through the suburbs of Washington D.C. during the afternoon of the 14th. In Prince George's County, large trees were downed at the intersection of Brooklyn Bridge Road and Supplee Lane in Laurel. Large tree branches were downed in Accokeek. In Montgomery County, heavy downpours caused water to collect on Beach Drive. In Charles County, trees were downed in Waldorf and Cobb Island.

Montgomery County

Brookeville	19	0200EST 0300EST			0	0			Flash Flood
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Ready Creek overflowed its banks. The time was estimated.

Frederick County

Countywide	19	1810EST 1910EST			0	0			Flash Flood
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Several roads and basements were flooded. Two sinkholes closed New Design Road in Frederick.

Prince George's County

Countywide	19	1900EST 2100EST			0	0			Heavy Rain
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Montgomery County

Countywide	19	1910EST 2010EST			0	0			Flash Flood
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Many roads were flooded.

Howard County

West Portion	19	1945EST 2045EST			0	0			Flash Flood
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Many roads were flooded.

Two rounds of heavy rainfall occurred across the northern Washington D.C. suburbs on the 19th. The first batch hit during the pre-dawn hours and the next occurred during the evening. The 1st round of storms mainly affected Montgomery County and the second round affected Montgomery, Frederick, and Howard counties. In Montgomery County, Ready Creek in Brookeville overflowed its banks during the early morning storm. The remainder of the flooding occurred during the 2nd storm. In Rockville, a vehicle became stalled in high water at the intersection of Norbeck Road and Avery Road. Many roads were flooded in the Laytonsville area. In Kensington, Beach Drive was flooded. Cars were also stalled in high water in Gaithersburg. A total of 2.09 inches of rain was recorded in Potomac. In Frederick County, several small roads were flooded in Frederick. A handful of vehicles became stalled in high water, including those trying to cross West Patrick Street near West Frederick Middle School. Also in Frederick, a sinkhole that was 30 feet wide and 12 feet deep formed on New Design Road, forcing the closure of the busy thoroughfare. One person was injured when their car drove over the forming sinkhole. Later in the evening, a second sinkhole about 12 feet wide formed nearby. In Howard County, many roads were under water in the western portion of the county. In Prince George's County, 2.11 inches of rain was recorded at the Patuxent Filtration Plant in Laurel.

Montgomery County

Countywide	20	1035EST 1830EST			0	0			Flash Flood
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Waterways and roads were flooded.

Howard County

Countywide	20	1130EST 1300EST			0	0			Flash Flood
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Lime Kiln Road was flooded.

Baltimore City (C)

Baltimore	20	1300EST 1400EST			0	0			Heavy Rain
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Harford County

Countywide	20	1400EST 1730EST			0	0			Flash Flood
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Five roads were flooded.

Another round of showers and thunderstorms with heavy rainfall moved through Central Maryland during the afternoon of the 20th. For the 2nd straight day, flooding was reported. In Montgomery County, 10 Mile Creek overflowed onto Clarksburg Road at the intersection of West Old Baltimore Road. A water rescue was reported where 10 Mile Creek crossed West Old Baltimore Road near Clarksburg. Rock Creek and Sligo Creek also overflowed their banks in the southeast portion of the county, flooding Sligo Road and Beach Drive. New Design Road and Arbor Road were also flooded. The saturated soil allowed trees to fall onto Little Falls Parkway in Bethesda and Fernwood at Greentree. In Howard County, Lime Kiln road was flooded just west of Scaggsville near the intersection of Browns Ridge Road. Lime Kiln road also flooded in Fulton at the intersection of Route 216. In Harford County, the following intersections were flooded: Nobles Mill Road and Trap Church Road, Janice Court and Old Joppa Road, and Shucks Road and Route 22. Water retention ponds overflowed onto Route 7 in Riverside and Edwards Lane near Churchville. In Baltimore County, minor street flooding was reported in Baltimore. A total of 2.28 inches of rain was recorded in Parkton.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MARYLAND, Central</u>									
Baltimore County									
Countywide	21	1530EST 1700EST			0	0			Flash Flood
Roads were flooded and small streams overflowed their banks.									
Harford County									
Belcamp	21	1610EST			0	0			Hail (0.75)
Penny sized hail fell.									
Harford County									
South Portion	21	1635EST 1735EST			0	0			Flash Flood
Roads were flooded by small streams in Abingdon.									
Baltimore City (C)									
Baltimore	21	1830EST 1930EST			0	0			Flash Flood
High water covered Interstate 95. Streets were flooded on the east side of town. Showers and thunderstorms with heavy downpours and hail moved through the Baltimore metropolitan area during the late afternoon and early evening hours of the 21st. In Baltimore County, several streams overflowed onto roads in the Towson area. In Baltimore, some streets were flooded on the east side of the city. High water was also reported on Interstate 95 in town. In Harford County, streams overflowed onto roads in Abingdon. Penny sized hail fell in Belcamp.									
Charles County									
North Portion	27	1413EST			0	0	2K		Thunderstorm Wind (G50)
Trees and power lines were downed between White Plains and Waldorf.									
Prince George'S County									
Oxon Hill	27	1420EST			0	0	1K		Thunderstorm Wind (G50)
Wires and trees were downed.									
Prince George'S County									
Bowie	27	1435EST			0	0	0.50K		Thunderstorm Wind (G50)
A tree was downed onto a telephone cable. The time was estimated.									
Calvert County									
Owings	27	1438EST			0	0	0.50K		Thunderstorm Wind (G50)
Trees were downed. A thunderstorm with high winds moved through South Central Maryland during the afternoon of the 27th. In Prince George's County, a tree and wires were downed in Oxon Hill. A tree was blown across a telephone cable in Bowie. In Charles County, trees and power lines were downed between White Plains and Waldorf. In Calvert County, trees were downed in Owings. Pea sized hail was reported in Owings and Dunkirk.									
Harford County									
2 N Forest Hill	30	1530EST			0	0	10K		Thunderstorm Wind (G52)
A downburst of wind downed several trees and power lines and blew over a shed. A thunderstorm with high winds moved through Harford County during the afternoon of the 30th. A down burst of winds estimated around 60 MPH downed trees and power lines just north of Forest Hill. The hardest hit area was along Walters Mill Road near the intersection of Gibson Road. Nine pine trees were snapped in half by the high winds. In addition, a shed was blown over and a window screen was blown off. Trees and power lines were also downed in the Chestnut Hill Road area.									
Montgomery County									
Potomac to 3 SE Potomac	30	2220EST 2230EST			0	0	20K		Thunderstorm Wind (G70)
A downburst of winds estimated up to 80 MPH downed numerous trees and power lines.									
Montgomery County									
Potomac	30	2222EST			0	0			Hail (1.75)
Quarter to golfball sized hail was reported in Potomac Village.									
Montgomery County									
Southeast Portion	30	2230EST 2330EST			0	0			Flash Flood
Rock Run overflowed its banks. A thunderstorm with very heavy rainfall, damaging winds, and large hail moved through Montgomery County around 11:30 PM on the 30th. The hardest hit area was in and around Potomac where a downburst of winds estimated up to 80 MPH downed over 150 trees. The first area hit by the storm was just west of Potomac along Riverwood Drive where trees were downed onto a concrete wall. The next area that received tree damage was along Falls Road between River Road and Bells Mill Road. In the Potomac Village area,									

Storm Data and Unusual Weather Phenomena

June 2003

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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MARYLAND, Central

numerous trees were downed onto yards and a few landed on buildings. In addition, Potomac Village sustained damage from hail between quarter and golfball size. Plants at the library and at personal residences were stripped to their stems and the windows of a local grocery store were broken. Wind damage continued southeast of town with downed trees being reported at the intersection of River Road and Persimmon Tree Road and on Falls Bridge Lane. Downed trees were also reported between Kentsdale Drive and River Road. Next, the storm downed numerous trees on two golf courses southeast of town. TPC at Avenel lost 23 large trees and Congressional Country Club reported 96 felled trees. Scattered tree damage continued on a southeast path to near Bethesda before ending. In addition to the wind and hail damage, very heavy rainfall caused Rock Run to overflow its banks at the TPC at Avenel golf course. Five holes went underwater as Rock Run spilled out of its banks, and it took two days to clear the debris from the course. In addition, flooding was reported on River Road, Persimmon Tree Road, Bradley Boulevard, and Brickyard Road near Potomac. Rainfall totals included 2.64 inches near Gaithersburg, 2.20 inches in Rockville, and 2.04 inches in Potomac.

MARYLAND, Northeast

Talbot County

1 SE St Michaels	11	2137EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm pulled down several large limbs near St. Michaels.

Queen Anne'S County

Stevensville	12	1715EST			0	0			Thunderstorm Wind (G52)
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A severe thunderstorm knocked down trees and wires in Stevensville.

Talbot County

St Michaels	12	1721EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm tore down large tree limbs in Saint Michaels.

Queen Anne'S County

Centreville to 10 SE Centreville	12	1743EST 1755EST			0	0			Thunderstorm Wind (G52)
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Numerous trees and wires were knocked down by a severe thunderstorm from Centreville southward in Queen Anne's County.

Kent County

1 SE Rock Hall	12	1748EST			0	0			Thunderstorm Wind (G50)
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A severe thunderstorm knocked down several trees and numerous power lines in and around Skinners Neck.

Cecil County

Perryville	12	1800EST			0	0			Thunderstorm Wind (G52)
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A severe thunderstorm knocked down a couple of trees in Perryville and Port Deposit.

Cecil County

Rising Sun to Calvert	14	1500EST			0	0			Thunderstorm Wind (G52)
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A severe thunderstorm knocked down a few trees in both Rising Sun and Calvert.

Caroline County

Countywide	20	1100EST 1700EST			0	0			Heavy Rain
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Kent County

Countywide	20	1100EST 1700EST			0	0			Heavy Rain
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Queen Anne'S County

Countywide	20	1100EST 1700EST			0	0			Heavy Rain
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Talbot County

Countywide	20	1100EST 1700EST			0	0			Heavy Rain
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A slow moving low pressure system at both the surface and aloft helped trigger heavy rain along the Eastern Shore during the afternoon of the 20th. Storm totals averaged between 1.0 and 2.5 inches, most of which fell during the afternoon. This caused poor drainage flooding including Maryland State Route 444 in Locust Grove (Kent County). Storm totals included 2.25 inches in Stevensville (Queen Anne's County) and 1.60 inches in Federalsburg (Caroline County).

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals ranged from 5.3 inches in Talbot County to 9.4 inches in Cecil County. Average is around 3.6 inches. The June monthly precipitation total at the Baltimore-Washington International Airport was 6.96 inches, 3.53 inches wetter than normal. The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Tobacco farmers were

Storm Data and Unusual Weather Phenomena

June 2003

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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MARYLAND, Northeast

generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

MDZ008

Cecil

20	1900EST	0	0	Flood
21	0300EST			

A slow moving low pressure system at both the surface and aloft helped trigger heavy rain in Cecil County during the afternoon of the 20th. Storm totals averaged between 1.5 and 3.0 inches, most of which fell during the afternoon. This caused poor drainage flooding as well as flooding along many streams and creeks. The Big Elk Creek flooded along Delaware Avenue in Elkton. Workers had to clear debris that accumulated under the bridge after flood waters receded.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, the June monthly precipitation total for Cecil County was 9.4 inches in Cecil County. Normal is around 3.6 inches. The June monthly precipitation total at the Baltimore-Washington International Airport was 6.96 inches, 3.53 inches wetter than normal. The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Tobacco farmers were worrying about mold. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

MDZ008-012-015-019>020

Cecil - Kent - Queen Annes - Talbot - Caroline

24	0900EST	0	0	Excessive Heat
27	2000EST			

The first run of excessive heat and humidity of the summer season occurred during the work week of June 24th. The highest temperatures and heat indices occurred on the 26th. This was a marked contrast from the unseasonably cool and wet June prior to this week. Temperatures and moisture levels eased after a cold front moved through the region during the day on the 27th. The excessive heat contributed to four fish kills along the Eastern Shore. The fish kills occurred on the tributaries of the Miles and Avon Rivers in Talbot County and affected schools of killifish, silversides, carp, white perch and mummy chugs. It was believed the combination of the sudden blistering heat, nutrient runoff because of the heavier rain earlier in the month and a bloom of phytoplankton (which removes oxygen) killed the fish. The temperature spike might have also shocked the fish. Highest temperatures included 95 degrees in Stevensville (Queen Anne's County), 93 degrees in Salisbury (Wicomico County), the Baltimore-Washington International Airport and Easton (Talbot County).

Talbot County

St Michaels to
Cordova

27	1510EST	0	0	Thunderstorm Wind (G52)
	1550EST			

A severe thunderstorm knocked down numerous trees and power lines from Saint Michaels eastward through Easton and Cordova in Talbot County. Two downed trees damaged one home in Cordova.

Caroline County

Denton

27	1557EST	0	0	Thunderstorm Wind (G52)
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A severe thunderstorm tore down several trees and wires in Denton.

MARYLAND, South

NONE REPORTED.

MARYLAND, West

NONE REPORTED.

MASSACHUSETTS, Central and East

MAZ024

Nantucket

01	1022EST	0	0	High Wind (G52)
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A gale center passing southeast of New England brought strong northerly winds to Cape Cod and the Islands. A peak gust of 60 mph was recorded at Nantucket Memorial Airport. No damage was reported.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MASSACHUSETTS, Central and East</u>									
Hampshire County									
South Hadley	23	1705EST 1800EST			0	0	15K		Flash Flood
Hampden County									
Holyoke to West Springfield	23	1715EST 1725EST			0	0	5K		Thunderstorm Wind (G50)
Hampden County									
Springfield	23	1725EST			0	0			Hail (0.75)
An isolated severe thunderstorm produced dime sized hail in Springfield, and downed tree limbs and large branches in Holyoke and West Springfield. An estimated wind gust to 58 mph was reported at Westover Air Force Base in Chicopee. Earlier, the storm also dumped 2.25 inches of rain in 30 minutes, as reported by a trained spotter, resulting in one road being washed out in South Hadley.									
Essex County									
Ipswich	27	1434EST			0	0	5K		Thunderstorm Wind (G50)
Essex County									
Beverly	27	1505EST			0	0			Hail (0.75)
Essex County									
Beverly	27	1510EST			0	0	10K		Thunderstorm Wind (G50)
A severe thunderstorm downed trees in Ipswich. A second severe storm dropped dime sized hail in Beverly and downed one tree and several large tree limbs.									
Hampden County									
Palmer	30	1440EST			0	0	5K		Thunderstorm Wind (G50)
Worcester County									
West Brookfield to Sturbridge	30	1445EST 1450EST			0	0	10K		Thunderstorm Wind (G50)
An isolated severe thunderstorm downed a tree and large branches in Palmer, then downed several large trees in West Brookfield and Sturbridge. Most of the damage in Sturbridge was concentrated near the intersection of Interstate 84 and the Mass Pike.									
<u>MASSACHUSETTS, West</u>									
Berkshire County									
Becket	23	1550EST 1630EST			0	0			Flash Flood
Berkshire County									
Becket	23	1705EST 1800EST			0	0	1K		Flash Flood
Isolated thunderstorms developed during the afternoon of June 23 over the Berkshires. With very weak winds aloft, these thunderstorms remained nearly stationary and dumped very heavy rainfall over a small area. The result was flash flooding in the town of Becket where some roads flooded. Later, more rains overflowed a pond in that town, causing minor property damage to basements. Minor road washouts took place between Chester and Huntington on Route 20.									
<u>MICHIGAN, East</u>									
Midland County									
Midland	08	1530EST			0	0	0.50K		Thunderstorm Wind (G50)
Law enforcement reported power lines blown down.									
Livingston County									
1 SE Fowlerville to 2 E Fowlerville	08	1558EST 1614EST	1	100	0	0	5K		Tornado (F1)
A tornado touched down near the intersection of Van Ripper and Cemetery roads. The tornado then lifted near the intersection of Grand River and Owosso roads. This tornado caused extensive tree damage and tore some shingles off of several homes.									
Saginaw County									
Saginaw	08	1615EST			0	0	0.50K		Thunderstorm Wind (G50)
Law enforcement reported power lines blown down.									
Bay County									
Bay City	08	1630EST			0	0			Thunderstorm Wind (G50)
Law enforcement reported a large tree blown down.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MICHIGAN, East</u>									
Genesee County									
5 N Fenton to 2 SW Grand Blanc	08	1635EST 1648EST	3	100	0	0	300K		Tornado (F1)
A tornado touched down in Camp Copneconic and produced extensive tree damage. The tornado then traveled northeast into southern Grand Blanc Township. The tornado hit Spring Oak subdivision on the north side of Baldwin Road approximately one mile east of Fenton road. The tornado completely destroyed the garage and front porches of three homes. Several homes had their garage walls destroyed. Several other homes had shingle and siding damage. The tornado continued through Aspen subdivision, where two homes sustained roof and garage damage. Several other homes in the subdivision lost shingles and siding. The tornado continued to the intersection of McWain and Pollock roads. Several homes sustained damage due to falling trees. The Michigan room on one home was destroyed. The tornado lifted just northeast of McWain road. An official storm survey conducted by the National Weather Service estimated winds between 100 and 110 mph.									
Lapeer County									
Lapeer	08	1734EST 1735EST	0.1	50	0	0			Tornado (F0)
Law enforcement and two trained spotters witnessed a brief tornado touchdown. No damage was observed with this tornado.									
Livingston County									
5 N Gregory	08	1835EST			0	0			Hail (1.00)
Shiawassee County									
Bancroft	08	1854EST			0	0			Thunderstorm Wind (G50)
Law enforcement reported two large trees blown down.									
Livingston County									
1 SE Brighton	08	1900EST			0	0			Hail (1.00)
Livingston County									
1 SE Brighton	08	1900EST			0	0			Thunderstorm Wind (G52)
Shiawassee County									
Byron	08	1905EST			0	0			Thunderstorm Wind (G50)
Law enforcement reported a large tree blown down.									
Genesee County									
2 W Flint	08	1915EST			0	0			Thunderstorm Wind (G52)
Genesee County									
Flint	08	1925EST			0	0			Thunderstorm Wind (G64)
Oakland County									
Bloomfield Hills	08	1932EST			0	0			Hail (0.75)
Genesee County									
1 W Davison	08	1935EST			0	0			Thunderstorm Wind (G52)
A strong upper level low moved across southern Michigan during the early evening of the 8th. This system triggered numerous thunderstorms across the region, some of which produced damaging winds and large hail. Three tornadoes also occurred during the evening. Commemoration ceremonies to mark the 50th anniversary of the deadliest tornado in Michigan history (one of the top ten in U.S. history) was ongoing in Beecher, north of Flint in Genesee county. Ironically, a tornado struck the southern portion of Genesee county at the same time the commemoration ceremonies were underway.									
Midland County									
5 SE Oil City	28	1445EST			0	0			Thunderstorm Wind (G50)
A trained spotter reported several large tree limbs blown down.									
Bay County									
Bay City	28	1536EST			0	0			Hail (0.75)
Bay County									
Bay City	28	1536EST			0	0	1K		Thunderstorm Wind (G55)
Thunderstorm winds blew several trees down and knocked a porch wall down.									
Washtenaw County									
2 SW Chelsea	28	1711EST			0	0			Hail (1.00)
Washtenaw County									
Dexter	28	1734EST			0	0			Thunderstorm Wind (G50)
Wayne County									
Livonia	28	1815EST			0	0			Thunderstorm Wind (G50)
Off Duty NWS employee reported two eight inch diameter tree limbs blown down.									

Storm Data and Unusual Weather Phenomena

June 2003

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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MICHIGAN, East

A low pressure system moved through western and northern Lower Michigan on the 28th. Thunderstorms developed early in the day over Lake Michigan and continued to develop along a warm front which was draped across the Tri Cities and Thumb region during the early afternoon. The warm front moved north of the area, and was then followed by a cold front which pushed through Southeast Michigan during the early evening. Marginally severe winds and hail occurred with this system.

Wayne County

Livonia	29	1410EST			0	0			Thunderstorm Wind (G50)
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A trained spotter reported trees blown down.

Oakland County

2 N Farmington	29	1413EST			0	0			Thunderstorm Wind (G50)
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A trained spotter reported trees blown down.

Oakland County

Berkley	29	1415EST			0	0			Thunderstorm Wind (G50)
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A trained spotter reported trees blown down.

Wayne County

Detroit	29	1600EST			0	0			Thunderstorm Wind (G50)
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Local media reported trees blown down.

MICHIGAN, Extreme Southwest

St. Joseph County

6 NW Three Rivers	08	1315EST			0	0	0		Thunderstorm Wind (G50)
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Law enforcement reported trees and power lines down northwest of Three Rivers.

Cass County

Dowagiac	28	1515EST			0	0	0		Thunderstorm Wind (G50)
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Law enforcement reported trees and power lines down in Dowagiac.

Cass County

Dowagiac	28	1519EST			0	0	0		Thunderstorm Wind (G50)
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Law enforcement reported a large tree limb down in Dowagiac.

Cass County

6 SE Cassopolis	28	1520EST			0	4	0		Thunderstorm Wind (G50)
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Law enforcement reported a large tree fell on a church tent injuring 4 people, one seriously.

Cass County

5 ESE Vandalia	28	1528EST			0	0	0		Thunderstorm Wind (G50)
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Law enforcement reported large trees down southeast of Vandalia.

St. Joseph County

Three Rivers	28	1544EST			0	0	0.75K		Thunderstorm Wind (G50)
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Law enforcement reported railroad crossing arms broken by thunderstorm winds in Three Rivers.

Branch County

1 NE Bronson	28	1618EST			0	0	0		Thunderstorm Wind (G50)
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Law enforcement reported large tree limbs down just northeast of Bronson.

Hillsdale County

1 NW Litchfield	28	1630EST			0	0	0		Thunderstorm Wind (G50)
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Law enforcement reported large trees down across roads northwest of Litchfield.

Hillsdale County

1 E Litchfield	28	1635EST			0	0	0		Thunderstorm Wind (G50)
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Law enforcement reported trees and power lines down east of Litchfield.

MICHIGAN, North

Wexford County

3 W Cadillac to 3 N Cadillac	08	1330EST			0	0			Hail (0.75)
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Kalkaska County

10 S Kalkaska	08	1410EST			0	0	5K		Thunderstorm Wind (G55)
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A barn roof was torn off and blown 200 yards to the northeast. A number of trees were downed.

Gladwin County

Gladwin	08	1530EST			0	0			Hail (0.88)
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Ogemaw County

4 NE West Branch	08	1600EST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

June 2003

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>									
Grand Traverse County									
Fife Lake	08	1620EST			0	0			Hail (0.75)
Wexford County									
2 S Cadillac	08	1725EST			0	0			Hail (0.75)
Missaukee County									
Mc Bain	08	1735EST			0	0			Hail (0.75)
Thunderstorms developed in the afternoon just ahead of a cold front, associated with a strong late spring storm system in the northern Great Lakes. Only one storm produced wind damage, with the rest of the severe weather taking the form of marginally large hail.									
Gladwin County									
5 NE Hockady	18	1620EST			0	0			Hail (0.75)
A severe thunderstorm developed when a weak cold front intersected a lake breeze moving inland from Lake Huron.									
Gladwin County									
1 S Beaverton	28	1414EST			0	0			Thunderstorm Wind (G50)
A tree and numerous utility lines were downed.									
Gladwin County									
2 N Gladwin	28	1414EST			0	0			Thunderstorm Wind (G50)
A large tree was downed across M-18. A supercell developed along a warm front as it moved north into east-central Lower Michigan. This storm caused pockets of wind damage in Gladwin County.									
<u>MICHIGAN, Upper</u>									
Keweenaw County									
Copper Harbor	25	0630EST			0	0			Thunderstorm Wind (G55)
Three trees were blown down. Scattered showers and thunderstorms moved over the western counties of Upper Michigan early on June 25th in advance of a strong cold front that moved in from the west. One thunderstorm blew down three trees in Copper Harbor then moved back into Lake Superior.									
<u>MICHIGAN, West</u>									
Allegan County									
Allegan	08	1240EST 1255EST			0	0	50K	50K	Hail (1.75)
Reports of one to as large as one and three quarters inch diameter hail were received from Allegan.									
Allegan County									
Dorr to Wayland	08	1304EST 1315EST			0	0	25K	25K	Hail (1.00)
One inch diameter hail was reported in Dorr and three quarters inch hail fell in Wayland.									
Kent County									
Kentwood to Ada	08	1308EST 1320EST			0	0	100K	25K	Hail (1.25)
Three quarters to one inch diameter hail was reported in Kentwood. The same storm produced a report of one and one quarters inch hail in Cascade and three quarters inch hail in Ada as it moved east across southern Kent county.									
Mecosta County									
Barryton	08	1415EST			0	0	20K	20K	Hail (0.75)
A report of three quarters inch hail was received from Barryton.									
Ionia County									
Ionia	08	1417EST			0	0	25K	20K	Hail (0.75)
Three quarters inch diameter hail was reported five miles northwest of Ionia. An isolated report from the same location indicated that a lone tree had been blown down.									
Clare County									
Clare	08	1450EST			0	0	30K	25K	Hail (1.00)
A report of one inch diameter hail was received from Clare.									
Grafton County									
Perrinton	08	1450EST			0	0	20K	20K	Hail (0.75)
A severe thunderstorm produced three quarters inch diameter hail in Perrinton.									
Clinton County									
Hubbardston	08	1500EST			0	0	10K		Thunderstorm Wind (G53)
Several large tree limbs were blown down three miles east of Hubbardston.									

Storm Data and Unusual Weather Phenomena

June 2003

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, West</u>									
Ingham County									
Leslie	08	1500EST			0	0	15K		Thunderstorm Wind (G53)
A severe thunderstorm wind gust blew a tree down and also blew some siding and shingles off of a home five miles northeast of Leslie.									
Kalamazoo County									
Kalamazoo	08	1630EST			0	0	25K		Thunderstorm Wind (G53)
A tree was blown down onto a house in Kalamazoo.									
Lake County									
Baldwin	08	1635EST			0	0	20K	20K	Hail (0.75)
Three quarters inch diameter hail was reported three miles south of Baldwin.									
Osceola County									
Tustin	08	1651EST	0.1	30	0	0			Tornado (F0)
A very brief touchdown of a tornado was received from Rose Lake. The touchdown only lasted for a few seconds and no damage was observed.									
Barry County									
Delton	08	1707EST			0	0	10K		Thunderstorm Wind (G53)
Two trees were blown down by a severe thunderstorm wind gust in Delton.									
Eaton County									
Bellevue to Grand Ledge	08	1725EST 1736EST			0	0	20K	20K	Hail (0.75)
Three quarters inch hail was reported in Bellevue and also two miles east of Grand Ledge.									
Osceola County									
Tustin	08	1728EST			0	0	20K	20K	Hail (0.75)
A report of three quarters inch hail was received two miles east southeast of Tustin.									
Eaton County									
Mulliken	08	1745EST	0.2	30	0	0	2K		Tornado (F0)
A very brief tornado touchdown was reported in Mulliken, where a wooden swingset was displaced ten feet, the tops of two large pine trees were snapped off, and several five to six inch diameter limbs were blown down. The tornado was classified as a F0.									
Ingham County									
Leslie	08	1805EST			0	0	20K		Thunderstorm Wind (G60)
A severe thunderstorm wind gust blew several trees down, removed some shingles from homes, and blew a few bricks across a street five miles east of Leslie.									
Kent County									
Cedar Spgs	28	1200EST			0	0	1K		Thunderstorm Wind (G53)
A severe thunderstorm wind gust blew a two hundred pound jungle gym over and moved it fifty feet.									
Montcalm County									
Edmore	28	1230EST			0	0	1K		Thunderstorm Wind (G53)
Several large tree limbs were blown down one mile northwest of Edmore.									
Isabella County									
Mt Pleasant	28	1317EST			0	0	2K		Thunderstorm Wind (G53)
Severe thunderstorm wind gusts blew down a tree in Mt. Pleasant, and also five miles east of Mount Pleasant.									
Isabella County									
Shepherd	28	1414EST			0	0	25K	25K	Hail (1.75)
One and three quarters inch diameter hail was reported in Shepherd.									
Van Buren County									
Paw Paw to Mattawan	28	1426EST 1431EST			0	0	25K	25K	Hail (0.88)
Seven eighths inch diameter hail was reported with a severe thunderstorm in Paw Paw, and a tree was blown down in Mattawan.									
Isabella County									
Winn	28	1450EST			0	0	25K	25K	Hail (1.75)
A severe thunderstorm produced one and three quarters inch diameter hail in Winn.									
Calhoun County									
Tekonsha	28	1615EST			0	0	2K		Thunderstorm Wind (G53)
Several eight inch diameter tree limbs and branches were blown down in Tekonsha.									
Jackson County									
Pulaski to Jackson	28	1638EST 1650EST			0	0	15K		Thunderstorm Wind (G53)
Several trees were blown down in Pulaski, Spring Arbor, and Jackson.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MICHIGAN, West</u>									
Jackson County									
Napoleon	28	1705EST			0	0	5K		Thunderstorm Wind (G53)
	Severe thunderstorm wind gusts blew down several trees in Napoleon.								
<u>MINNESOTA, Central and South Central</u>									
Stevens County									
6 N Chokio	22	1649CST			0	0			Hail (0.75)
Douglas County									
4 W Carlos	22	1810CST			0	0			Hail (0.88)
Todd County									
6 SSW Eagle Bend	22	1844CST			0	0			Hail (0.75)
Pope County									
4 SW Glenwood	22	1850CST	0.1	25	0	0	10K		Tornado (F1)
	Brief touchdown on the southeast shore of Lake Minnewaska. Tornado flipped over a camper and knocked down trees, some of which fell on the roof of a cabin.								
Pope County									
3 SE Glenwood	22	1853CST			0	0			Funnel Cloud
	Videotaped by storm chasers.								
Blue Earth County									
6 SW St Clair	23	0200CST			0	0			Hail (1.00)
Ramsey County									
St Paul	23	0300CST			0	0			Thunderstorm Wind (G50)
	Tree down on Gateway Trail near Westminster.								
Nicollet County									
4 S Norseland	23	0630CST			0	0			Hail (0.75)
Redwood County									
Walnut Grove to Revere	23	0645CST 0655CST			0	0			Hail (0.88)
	Minor damage to corn.								
Stevens County									
10 W Donnelly	23	1142CST			0	0	11M		Hail (1.75)
	Hail storms pummeled bean, corn and wheat fields of about 60 farmers in Stevens County June 21-24. Damage amount compiled by Stevens County Emergency Management.								
Stevens County									
5 W Donnelly	23	1148CST			0	0			Hail (0.75)
Douglas County									
6 S Brandon to Brandon	23	1215CST 1230CST			0	0	2M		Hail (1.75)
	Numerous fields in two townships were hit with golf ball size hail along with winds around 45 knots. Crop losses estimated by Douglas County agriculture officials.								
Pope County									
Lowry	23	1231CST			0	0			Hail (0.75)
Douglas County									
Garfield	23	1233CST			0	0			Hail (0.75)
Douglas County									
(Axn)Chndlr Fld Alxn	23	1239CST			0	0			Thunderstorm Wind (G64)
	Numerous trees down around Alexandria, especially around Lake Carlos and Lake Le Homme Dieu. Some fell on cars and houses. Measured sustained wind reached 47 knots at 1239 CST.								
Todd County									
5 SW Gutches Grove	23	1254CST			0	0			Hail (0.75)
Douglas County									
Brandon	23	1300CST			0	0			Thunderstorm Wind (G55)
	Two foot diameter trees blown down. Grain bin blown down.								
Todd County									
4 SW Clarissa to Clarissa	23	1315CST 1320CST			0	0			Thunderstorm Wind (G50)
	Scattered trees down, including one on a vehicle.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MINNESOTA, Central and South Central									
Todd County									
4 N Browerville	23	1320CST			0	0			Hail (0.88)
Swift County									
Murdock	23	1335CST			0	0			Hail (1.75)
Hail fell on newly planted crops.									
Stearns County									
Brooten	23	1405CST			0	0			Hail (0.75)
Kandiyohi County									
New London	23	1500CST			0	0			Hail (1.00)
Stearns County									
3 W Paynesville	23	1518CST			0	0			Hail (0.75)
Mcleod County									
8 NW Hutchinson	23	1812CST			0	0			Hail (0.88)
Douglas County									
Miltona	23	2015CST			0	0			Thunderstorm Wind (G55)
Numerous trees down around Miltona and Lake Irene, including one on a garage and another on a deck. One tree was blown down onto a van, but the family inside the van was not injured.									
Kandiyohi County									
New London	23	1530CST 1700CST			0	0			Flash Flood
Flooding occurred in northern portion of county. New London recieved three inches of rain in 30 minutes. Parking lots and interseptions were flooded in Spicer.									
Douglas County									
Alexandria	23	1640CST 1900CST			0	0			Flash Flood
County wide flooding. Several inches of rainfall. Highway 27 was flooded northwest of Kensington. Street flooding and roads under water in Alexandria and Nelson.									
Todd County									
Long Prairie	23	1700CST 1900CST			0	0			Flash Flood
Several secondary and township roads washed out. Highway 71 between Browerville and Long Prairie was under water.									
MN Z041>043									
Douglas - Todd - Morrison									
	23	1900CST			0	0	6M	2M	Flood
	27	0700CST							
County wide flooding. Several periods of heavy rain produced 8 to 12 inches across much of Douglas county. Numerous roads were under water in the Alexandria, Nelson, and Carlos areas. Some cars actually floated in Alexandria and a few houses were flooded. Three feet of water was in the Alexandria Hospital's boiler room after the sewer system overloaded. Some roads were still flooded near the Long Prairie River until the morning of June 26.									
Brown County									
Hanska	23	2355CST			0	0			Thunderstorm Wind (G52)
Several trees down.									
Mcleod County									
Brownnton	24	0045CST			0	0			Thunderstorm Wind (G50)
Tree blown down onto house.									
Sibley County									
Arlington	24	0045CST			0	0			Thunderstorm Wind (G50)
Ten inch diameter tree felled.									
Scott County									
Spring Lake	24	0120CST			0	0			Thunderstorm Wind (G55)
Boatlift lifted out of the water and blown over a dock then about 200 feet down the shore to another house.									
Carver County									
Waconia	24	0130CST			0	0			Thunderstorm Wind (G50)
Twelve inch diameter tree toppled.									
Hennepin County									
Eden Prairie	24	0130CST			0	0			Thunderstorm Wind (G50)
Six inch tree top down at Valley View and Dell.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MINNESOTA, Central and South Central									
Hennepin County									
Minneapolis	24	0140CST			0	0			Thunderstorm Wind (G52)
			Several trees down in northeast Minneapolis.						
Ramsey County									
Maplewood	24	0150CST			0	0			Thunderstorm Wind (G50)
			Large branches down. Few trees down blocking road.						
Washington County									
Mahtomedi to Stillwater	24	0150CST 0200CST			0	0			Thunderstorm Wind (G50)
			Numerous large branches down along with a few trees and power lines.						
Stevens County									
8 S Chokio	24	1458CST			0	0			Hail (1.00)
Stevens County									
Chokio	24	1502CST			0	0			Hail (0.75)
Stevens County									
Morris	24	1508CST			0	0			Hail (0.75)
Pope County									
3 S Cyrus	24	1525CST			0	0			Hail (1.00)
Pope County									
6 W Starbuck to 4 W Starbuck	24	1535CST 1540CST			0	0			Hail (1.75)
Stearns County									
4 W Sauk Centre	24	1550CST			0	0			Hail (0.88)
Pope County									
Glenwood	24	1553CST			0	0			Hail (0.88)
Todd County									
4 ESE West Union	24	1600CST			0	0			Hail (0.75)
Pope County									
Glenwood	24	1610CST			0	0			Hail (0.75)
Pope County									
5 S Starbuck	24	1655CST	0.1	25	0	0			Tornado (F0)
			Brief touchdown on north side of Glacial Lakes State Park. Few trees damaged.						
Yellow Medicine County									
5 WNW Granite Falls	24	1755CST			0	0			Thunderstorm Wind (G50)
			Several eight inch branches down.						
Hennepin County									
Long Lake	24	1800CST			0	0			Hail (0.75)
Pope County									
Glenwood	24	1800CST			0	0			Hail (0.75)
Pope County									
5 SW Starbuck	24	1815CST			0	0			Hail (2.00)
McLeod County									
1 S Stewart to Stewart	24	1819CST 1823CST			0	0			Hail (1.00)
Pope County									
Starbuck	24	1820CST			0	0			Hail (1.75)
Meeker County									
3 NE Forest City	24	1835CST			0	0			Hail (1.00)
Renville County									
6 N Buffalo Lake	24	1900CST			0	0			Hail (0.75)
McLeod County									
5 S Hutchinson	24	1910CST			0	0			Hail (1.00)
McLeod County									
1 W Hutchinson	24	1910CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MINNESOTA, Central and South Central									
Mille Lacs County									
Milaca	24	1915CST			0	0			Thunderstorm Wind (G52)
			Few trees down, including one on a car and truck.						
Sherburne County									
2 E Big Lake	24	1915CST			0	0			Thunderstorm Wind (G50)
			Several trees down.						
Wright County									
Buffalo	24	1915CST			0	0			Thunderstorm Wind (G50)
			Several eight inch branches down in northern part of Buffalo.						
Chippewa County									
Montevideo to 4 E Montevideo	24	1920CST 1925CST			0	0			Hail (1.00)
Yellow Medicine County									
Hanley Falls	24	1925CST			0	0			Hail (1.75)
			Golf ball size hail landed on the trucks being used by the local fire department during weather spotting.						
McLeod County									
Heatwole	24	1929CST			0	0			Hail (0.75)
Wright County									
3 NW Monticello	24	1930CST			0	0			Thunderstorm Wind (G52)
			Few trees down.						
Yellow Medicine County									
1 S Granite Falls to Granite Falls	24	1933CST			0	0			Hail (1.75)
Chisago County									
Chisago City to Center City	24	1935CST 1945CST			0	0	500K		Thunderstorm Wind (G55)
			Scattered trees toppled.						
Yellow Medicine County									
6 NW Granite Falls to 6.2 NW Granite Falls	24	1938CST 1939CST	0.2	50	0	0			Tornado (F0)
			Brief touchdown on the southwest side of the Minnesota River, with minor tree damage. The tornado then crossed into Chippewa County at 1939 CST.						
Chippewa County									
1.5 SE Wegdahl to 1 NE Wegdahl	24	1939CST 1943CST	2.8	50	0	0			Tornado (F0)
			Tornado moved from Yellow Medicine County into Chippewa County at 1939 CST. A roof was blown off a shed, several trees were downed, and two gravity boxes were pushed into the side of a building.						
Chisago County									
4 NE Stacy	24	1950CST	0.3	25	0	0			Tornado (F0)
			About one dozen trees were felled. Minor damage to a house.						
McLeod County									
4 E Hutchinson	24	1952CST			0	0			Hail (1.00)
McLeod County									
4 E Hutchinson	24	1952CST			0	0			Thunderstorm Wind (G50)
			Five inch diameter branches downed.						
Kandiyohi County									
6 E Lake Lillian to 6 ESE Lake Lillian	24	2025CST			0	0			Thunderstorm Wind (G52)
			Scattered trees down. This was the beginning of a large swath of wind damage that extended into Meeker, Renville and McLeod Counties between 2025 and 2110 CST. Winds in this wide swath were from the west-northwest.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MINNESOTA, Central and South Central									
Renville County									
5 NW Churchill to 3 E Lakeside	24	2025CST 2055CST			0	0	6M	4M	Thunderstorm Wind (G65)
A wide swath of wind originated in Kandiyohi County and swept across Meeker, Renville and McLeod Counties. Numerous trees were downed, sheds and outbuildings blown over, several barns were flattened, and grain bins blown over. About 50 farmsteads were damaged across an approximate area of 30 to 40 square miles.									
McLeod County									
7 NW Hutchinson to 6 SW Hutchinson	24	2055CST 2110CST			0	0			Thunderstorm Wind (G60)
This was the last of the damage from a wide swath of wind that swept across Kandiyohi, Meeker and Renville Counties, beginning at 2025 CST in those counties. Scattered trees and power lines were downed, as were a few sheds and outbuildings.									
Hennepin County									
Maple Grove	24	2200CST			0	0			Hail (1.00)
Hennepin County									
Edina to Richfield	24	2222CST 2232CST			0	0			Thunderstorm Wind (G60)
Hundreds of trees downed from Edina to Richfield, including across south Minneapolis and Bloomington. Many trees fell on cars and houses while many other trees blocked roads.									
Hennepin County									
Minneapolis/St Paul	24	2227CST			0	0			Thunderstorm Wind (G62)
Wind equipment at MSP International Airport measured 73 mph. At another part of the airfield, NWS ASOS recorded a peak gust of 51 knots. Seventeen commercial aircraft were either moved or partially damaged.									
Hennepin County									
Maple Grove to Plymouth	24	2230CST			0	0			Thunderstorm Wind (G52)
Numerous trees down.									
Hennepin County									
Minneapolis	24	2258CST			0	0			Thunderstorm Wind (G52)
A few trees downed.									
Ramsey County									
St Paul	24	2300CST			0	0			Thunderstorm Wind (G52)
Several trees down. Flagpole blown off a building.									
Renville County									
3 W Bird Island	24	2340CST			0	1			Thunderstorm Wind (G60)
A children's playhouse was lifted and blown some distance, where it landed on a truck being driven along Highway 212. One man was slightly injured when some of the smashed glass landed in his eye.									
Kandiyohi County									
7 ESE Blomkest	24	2348CST			0	0			Hail (0.75)
Renville County									
Hector	24	2348CST			0	0			Thunderstorm Wind (G55)
Several trees down.									
Martin County									
Sherburn	24	2355CST			0	0			Thunderstorm Wind (G50)
Measured by Skywarn spotter.									
McLeod County									
Hutchinson	25	0000CST			0	0			Thunderstorm Wind (G55)
Numerous large oak trees toppled.									
Sibley County									
Winthrop	25	0000CST			0	0			Thunderstorm Wind (G55)
Numerous trees down, including some on a camper, a house and a garage.									
Meeker County									
3 SE Dassel	25	0015CST			0	0			Thunderstorm Wind (G50)
Several six inch diameter branches down.									
Sibley County									
4 E New Auburn	25	0025CST			0	0			Thunderstorm Wind (G55)
Scattered trees felled.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MINNESOTA, Central and South Central									
Renville County									
8 SSW Buffalo Lake to 5 S Buffalo Lake	24	1746CST 1755CST	4.2	100	0	0	500K		Tornado (F1)
									The first of five tornadoes to hit the Buffalo Lake area this evening, the tornado hit three farmsteads before crossing into Sibley County at 1755 CST. Trees were knocked down, sheds and outbuildings destroyed, a grain dryer was overturned, a grain bin and silo were destroyed, and houses sustained minor damage.
Sibley County									
11 NNW Gibbon to 11.3 NNW Gibbon	24	1755CST 1756CST	0.3	100	0	0			Tornado (F1)
									This tornado moved in from Renville County at 1755, then dissipated as it moved alongside a farmstead. A few trees were knocked down, and there was minor property damage.
Sibley County									
12 N Gibbon to 12.1 N Gibbon	24	1830CST 1831CST	0.1	50	0	0			Tornado (F0)
									The second tornado in a series touched down briefly in Sibley County before crossing into Renville County at 1831 CST.
Renville County									
2.5 ESE Buffalo Lake to 4 E Buffalo Lake	24	1831CST 1845CST	2.9	50	0	0			Tornado (F0)
									This second tornado entered Renville County at 1831 CST, then remained nearly stationary in an open field for about 10 minutes. Then it began moving northeast again, crossing Highway 212, then looping back to the south as the tornado roped out. The only damage was to some power lines and transformers.
Sibley County									
10 NNW Gibbon to 13 NNW Gibbon	24	1833CST 1845CST	3.5	880	0	0	1M		Tornado (F2)
									The third tornado in a series touched down in Sibley County and moved straight north, occasionally stalling in place for minutes at a time. It heavily damaged two farmsteads, where all outbuildings and sheds were destroyed, and the houses sustained significant damage. It entered Renville County at 1845 CST and then into Buffalo Lake.
Renville County									
1 S Buffalo Lake to 1 N Buffalo Lake	24	1845CST 1850CST	2	880	0	5	14M		Tornado (F2)
									This third tornado entered Renville County at 1845 CST and entered the city of Buffalo Lake, where damage was significant. Five people sustained minor injuries. Roofs were blown off the Lutheran Church, as well as a number of homes and businesses. Sheds and garages were blown down, a grain elevator was destroyed, and hundreds of trees were broken. Video and a storm survey determined the tornado was multiple vortex. 29 houses were damaged beyond repair, 51 sustained major damage, and 120 more suffered minor damage.
Sibley County									
12 NNW Gibbon to 12.5 NNW Gibbon	24	1910CST 1912CST	0.5	100	0	0			Tornado (F1)
									The fourth tornado in a series developed 20 minutes after Buffalo Lake was hit. It touched down briefly in Sibley County, tracked across an open field before moving into Renville County at 1912 CST.
Renville County									
1 SE Buffalo Lake to 1 ESE Buffalo Lake	24	1912CST 1915CST	1	100	0	0	500K		Tornado (F1)
									This fourth tornado entered Renville County at 1912 CST and hit portions of one farmstead. Sheds, outbuildings and grain bins were damaged, a barn was flattened, and a number of trees were downed. The tornado dissipated before it reached Highway 212.
Renville County									
1.5 NE Churchill to 4 NNE Churchill	24	1939CST 1947CST	2.5	100	0	0			Tornado (F0)
									The fifth and final tornado in two hours to hit the Buffalo Lake area touched down 7 miles north of Buffalo Lake, or 1.5 miles northeast of Churchill. It traveled straight north, occasionally downing trees.
Kandiyohi County									
5 SSW Kandiyohi	24	1847CST	0.1	25	0	0			Tornado (F0)
									This was the first of five tornadoes from one supercell in Kandiyohi County, all of which were videotaped by a storm chaser. This first tornado touched down briefly in an open field.
Kandiyohi County									
4 SSW Kandiyohi	24	1849CST 1851CST	0.2	100	0	0			Tornado (F0)
									The second of five tornadoes touched down in an open field.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MINNESOTA, Central and South Central									
Kandiyohi County									
4 S Kandiyohi	24	1853CST 1856CST	0.2	50	0	0			Tornado (F0)
									The third tornado in a series also touched down in an open field. A few trees downed.
Kandiyohi County									
4 S Kandiyohi	24	1858CST	0.1	50	0	0			Tornado (F0)
									The fourth tornado was another brief touchdown in an open field.
Kandiyohi County									
4 SE Kandiyohi to 2 SSE Kandiyohi	24	1903CST 1907CST	3	50	0	0			Tornado (F1)
									The fifth and final tornado from the same supercell moved straight north for two miles, then turned and moved from east to west for one mile as it roped out. During its northward trek, it damaged three farmsteads, knocking down sheds, outbuildings and trees. While traveling west, it moved across corn and bean fields.
Kandiyohi County									
5 S Atwater to 4.9 S Atwater	24	1915CST 1916CST	0.1	50	0	0			Tornado (F0)
									This was the sixth tornado on this day to touch down in Kandiyohi County, although the other five tornadoes were from a different supercell. This tornado tore across open fields then moved into Meeker County at 1916 CST. A few trees were felled.
Meeker County									
5 SW Grove City to 4.6 SW Grove City	24	1916CST 1918CST	0.4	50	0	0			Tornado (F0)
									This tornado originated in Kandiyohi County, moving into Meeker County at 1916 CST. It tracked across open fields, damaging only a few trees.
Pope County									
Glenwood	24	1900CST 2300CST			0	0			Flash Flood
									County wide flooding. After two bouts of heavy rain on June 22 and 23, three to four additional inches fell, resulting in widespread street and basement flooding in Glenwood. The sewer system was also overloaded. Four families in the northwest section of Glenwood were evacuated when the water level reached a depth of four feet in their neighborhood.
Kandiyohi County									
Willmar to Atwater	24 25	2030CST 0200CST			0	0			Flash Flood
									County wide flooding. Four to eight inches were common across the region, with a number of county and township roads under water. Basements were flooded in the city of Kandiyohi, along with 12 blocks under water in Atwater. A number of cars were stalled due to flooding in a corridor from Wilmar to Atwater. Many crops were also under water.
Chisago County									
North Branch to Taylors Falls	24 25	2100CST 0200CST			0	0			Flash Flood
									County wide flooding. Four to eight inches of rainfall were reported across the county. Some township roads were covered by water, with closures widespread along Highway 95 between North Branch and Taylors Falls. Highway 15 was also closed near Almelund.
Mcleod County									
Hutchinson	24 25	2100CST 0200CST			0	0			Flash Flood
									County wide flooding. Five to ten inches of rain were reported, including one unofficial report of 10 inches about 6 miles northwest of Hutchinson. A number of township and secondary roads were flooded, crops were under water, and a bridge was closed near Biscay.
Meeker County									
Cedar Mills to Cosmos	24 25	2100CST 0200CST			0	0			Flash Flood
									County wide flooding. Five to ten inches of rain were reported across much of Meeker, with the heaviest rainfall amounts across the southern tier. Ten inches were registered between Cedar Mills and Cosmos, along with 5 to 7 inches common from Lake Minnie Belle to Grover City. A number of roads were flooded, and many crops were under water.
Renville County									
Buffalo Lake	24 25	2100CST 0200CST			0	0			Flash Flood
									Flooding occurred in the northeastern portion of Renville county. Four to eight inches of rain were common, resulting in some township roads under water. Seven and one half inches of rain was reported 5 miles north of Buffalo Lake. Many crops were under water.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MINNESOTA, Central and South Central									
Wright County									
Alberville	24	2145CST			0	0			Flash Flood
	25	0200CST							
County wide flooding. Six to twelve inches of rain were unofficially recorded across much of Wright county. The heaviest rainfall was in the eastern portions of the county. Many streets were impassable in the areas around Alberville, Otsego, and St Michael. Some roads were washed out. Many basements were flooded, including a few where the water level reached the basement ceiling. Sandbagging of homes was necessary at the Albert Villas in Alberville. Many crops were under water.									
Hennepin County									
Rogers to Plymouth	24	2230CST			0	0			Flash Flood
	25	0200CST							
County wide flooding observed with 5 to 10 inches reported in western and northern sections of Hennepin. The maximum amount of rain (10 inches), was recorded in Rogers, and in Hassen Township. A house along the South side of the Crow River was surrounded by water. A storage barn on the property, which contained classic automobiles, was swamped with two feet of water. Many basements and streets were also flooded in Maple Grove, Rogers, Plymouth, and Champlin. The intersection of Highway 100 and France Avenue in Brooklyn Center was also closed.									
Sherburne County									
Elk River	24	2230CST			0	0			Flash Flood
	25	0200CST							
The Southern portion of Sherburne county flooded. Five to ten inches of precipitation were common, including 8.19 inches measured in Elk River. Some township roads were washed out, along with street flooding in and near Elk River. Low Lying areas near the Elk River were also flooded.									
Washington County									
Forest Lake to Hugo	24	2330CST			0	0			Flash Flood
	25	0200CST							
County wide flooding. Three to five inches of rain caused many roads and basements to flood in the Forest Lake and Hugo areas.									
Ramsey County									
St Paul	25	0000CST 0200CST			0	0			Flash Flood
County wide flooding. Three to six inches of rain fell within a few hours, which resulted in numerous reports of street and basement flooding. Several feet of water covered Larpenteur Avenue between Hamline and I-94.									
Watsonwan County									
4 S St James	27	1620CST			0	0			Hail (0.88)
40 acres of beans shredded.									
Watsonwan County									
Odin	27	1636CST			0	0			Hail (0.75)
Martin County									
1 W Fairmont	27	1657CST			0	0			Hail (1.75)
Martin County									
Welcome	27	1657CST			0	0			Thunderstorm Wind (G52)
Semi blown over on Interstate 90.									
Martin County									
Fairmont	27	1700CST			0	0			Hail (1.75)
Martin County									
Fairmont	27	1700CST			0	0			Thunderstorm Wind (G55)
Roof off part of garage in northeast section of Fairmont. Several trees down, including one on a house.									
Freeborn County									
Manchester	27	1817CST			0	0			Hail (0.75)
Benton County									
6 W Foley	28	1433CST			0	0	500K		Hail (0.75)
Crop losses estimated by Extension Office and ASCS Office.									
Wright County									
8 W Monticello	28	1917CST			0	0			Hail (2.00)
Hennepin County									
Corcoran	28	1958CST			0	0			Funnel Cloud
Hennepin County									
Greenfield	28	1958CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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, Northeast</u>									
Itasca County									
5 NE Marcell	17	1445CST			0	0			Hail (0.75)
Itasca County									
3 S Calumet	17	1550CST			0	0			Thunderstorm Wind (G50)
Eight inch diameter trees were blown down.									
Itasca County									
Grand Rapids	17	1555CST			0	0			Hail (0.75)
Lake County									
8 W Silver Bay	17	1800CST			0	0			Hail (0.75)
Pine County									
1 N Hinckley	17	1947CST			0	0			Hail (1.00)
Crow Wing County									
Cross Lake	22	2015CST			0	0			Lightning
A cabin received moderate damage to its deck, siding, and insulation after being struck by lightning.									
Itasca County									
Orth	28	1522CST			0	0			Hail (1.75)
Cass County									
3 N Outing	28	1650CST			0	0			Hail (0.75)
Cass County									
Outing	28	1657CST			0	0			Hail (1.75)
Aitkin County									
Hassman	28	1749CST			0	0			Hail (0.75)
Cass County									
1 SW Outing	28	1732CST	0.1	15	0	0	0		Tornado (F0)
A brief waterspout touched down on Roosevelt Lake.									
<u>MINNESOTA, Northwest</u>									
Otter Tail County									
Erhard	05	1425CST			0	0			Hail (0.75)
Otter Tail County									
Erhard	05	1425CST			0	0			Thunderstorm Wind (G60)
Tree branches were blown down.									
Roseau County									
12 N Greenbush	05	1757CST			0	0			Hail (0.75)
Roseau County									
11 NW Greenbush	05	1835CST			0	0			Hail (0.75)
Roseau County									
4 SW Wannaska	06	1230CST			0	0			Hail (0.75)
Clay County									
3 S Georgetown	06	1508CST			0	0			Hail (0.75)
Polk County									
6 NNE Mc Intosh	06	1528CST			0	0			Hail (0.75)
Clay County									
Moorhead	06	1529CST			0	0			Hail (0.88)
Becker County									
7 WSW Ogema	06	1537CST 1541CST	0.5	25	0	0			Tornado (F0)
A tornado briefly touched down in an open field.									
Clay County									
Moorhead	06	1545CST			0	0			Hail (0.75)
The hail occurred over downtown Moorhead.									
Becker County									
5 W Ogema	06	1556CST 1559CST	0.2	25	0	0			Tornado (F0)
A brief touchdown was reported.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MINNESOTA, Northwest</u>									
Norman County									
Twin Vly	06	1640CST			0	0			Hail (0.75)
Clay County									
Moorhead	06	1645CST 1715CST			0	0			Flash Flood
Slow moving thunderstorms dropped 2 to 4 inches of rain in 10 minutes. The water rose as high as car tires on 30th Avenue South.									
Polk County									
East Grand Forks	17	0130CST 0145CST			0	0			Flash Flood
Street flooding up to 2 feet deep was reported along 5th Avenue NW, 20th Street NW, and Central Avenue. A car was totalled near Cabelas due to a stopped drain when the water level rose 2.5 feet high.									
Clay County									
4 N Georgetown	21	2100CST			0	0			Thunderstorm Wind (G52)
Tree limbs were blown down.									
Polk County									
Crookston	21	2115CST			0	0			Thunderstorm Wind (G52)
A 6 inch diameter tree was blown down.									
Pennington County									
Thief River Falls	21	2130CST			0	0			Thunderstorm Wind (G52)
Large tree branches were blown down. A 17 foot boat and a trailer were blown about a half a block.									
Norman County									
Gary	21	2135CST			0	0			Hail (0.88)
Polk County									
6 N Erskine	21	2137CST			0	0			Thunderstorm Wind (G50)
Large branches were blown down north of Erskine. A nearby MN DOT RWIS site measured a 50 knot wind gust.									
Red Lake County									
3 S Brooks	21	2137CST			0	0			Thunderstorm Wind (G50)
Large branches were blown down. A nearby MN DOT RWIS site measured a 50 knot wind gust.									
Mahnomen County									
Mahnomen	21	2155CST			0	0			Thunderstorm Wind (G50)
Large branches were blown down and power outages were reported.									
Polk County									
4 S Trail	21	2215CST			0	0			Thunderstorm Wind (G50)
Large branches were blown down.									
Clay County									
1 S Downer	22	1615CST			0	0			Thunderstorm Wind (G52)
Tree limbs were blown down.									
Grant County									
4 W Hoffman	22	1715CST			0	0			Hail (0.75)
Grant County									
Hoffman	22	1719CST			0	0			Hail (0.75)
Clay County									
1 E Glyndon	22	1800CST 1900CST			0	0			Flash Flood
The MN Highway Patrol reported water over Highway 10.									
Clay County									
Moorhead	22	1800CST 1830CST			0	0			Flash Flood
Street flooding was reported in south Moorhead.									
Clearwater County									
15 S Bagley	22	1800CST			0	0			Thunderstorm Wind (G65)
A 20 inch diameter tree was blown across Highway 92.									
Grant County									
Ashby	23	1200CST 1300CST			0	0			Flash Flood
Street flooding was reported.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property Damage	Crops	
MINNESOTA, Northwest									
Grant County									
Barrett	23	1200CST			0	1	10K		Lightning
A 7 year-old girl was injured after lightning struck her family's home. The lightning hit a television antenna, cracked the ceiling, and burned a wall behind the girl. The strike also started a fire in the dining room. The girl suffered minor burns on her back and right shoulder.									
Grant County									
Hoffman	23	1215CST			0	0			Thunderstorm Wind (G70)
Several trees were uprooted and numerous branches were blown down.									
Otter Tail County									
7 W Urbank	23	1225CST			0	0			Thunderstorm Wind (G55)
Several large tree branches were blown down.									
Otter Tail County									
7 ENE Parkers Prairie	23	1315CST			0	0			Hail (0.75)
Grant County									
2 N Elbow Lake	23	1330CST 1430CST			0	0			Flash Flood
Water flowed across Highway 59.									
Otter Tail County									
Parkers Prairie	23	1330CST 1400CST			0	0			Flash Flood
Street flooding was reported.									
Grant County									
8 SW Wendell	24	0130CST			0	0			Hail (0.88)
Grant County									
7 SW Wendell	24	0135CST			0	0			Thunderstorm Wind (G65)
The west door of a shed was blown in and pieces of roof were scattered for a third of a mile into a field.									
Grant County									
Wendell	24	0200CST 0245CST			0	0			Flash Flood
Street flooding was reported.									
Polk County									
3 E Fertile	24	1945CST			0	0			Hail (0.88)
Clay County									
4 N Georgetown	24	2230CST			0	0			Thunderstorm Wind (G70)
Trees were blown down.									
Norman County									
Perley	24	2230CST			0	0	25K		Thunderstorm Wind (G87)
Numerous large trees were blown down. A row of 10 wooden power poles were also snapped off. Roofing and gutters were torn off two homes.									
Norman County									
Hendrum	24	2233CST			0	0	750K		Hail (0.88)
Wind driven hail destroyed several sections of crops in southwest Norman county.									
Norman County									
6 E Perley	24	2240CST			0	0			Thunderstorm Wind (G74)
An NDAWN mesonet wind sensor measured a 85 mph wind gust.									
Norman County									
3 E Syre	24	2250CST			0	0			Thunderstorm Wind (G55)
6 inch diameter branches were blown down.									
Clay County									
Moorhead	24	2305CST			0	0			Thunderstorm Wind (G60)
Trees were blown down and power outages were reported.									
Grant County									
5 S Hoffman	25	0500CST 0630CST			0	0			Flash Flood
Water flowed over several rural roads.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MINNESOTA, Northwest</u>									
Wilkin County									
Breckenridge	25	0500CST 0630CST			0	0			Flash Flood
Water flowed over Highway 75 near the overpass.									
Wilkin County									
Kent	25	0500CST 0700CST			0	0			Flash Flood
Water filled the underpass on Highway 75 near Kent.									
Hubbard County									
Park Rapids	26	2325CST			0	0	0.40K		Lightning
Lightning struck the NOAA weather radio tower and knocked the broadcast off the air.									
MN Z029									
Wilkin									
	27	0850CST			0	0			Flood
	30	2359CST							
Several rounds of thunderstorms brought 5 to 8 inches of rain to portions of Wilkin county. The underpass along highway 75 near Kent had water over the road for several days. The county also reported water over other rural roads.									
Wilkin County									
4 E Kent	27	1958CST			0	0			Hail (0.75)
Roseau County									
Greenbush	28	1420CST 1425CST			0	0			Hail (0.75)
Beltrami County									
4 SE Kelliher	28	1445CST			0	0			Hail (0.75)
Polk County									
1 N East Grand Forks	28	1630CST 1634CST			0	0			Hail (0.75)
Marshall County									
10 W Argyle	28	1820CST			0	0			Hail (0.75)
<u>MINNESOTA, Southeast</u>									
Mower County									
3 S Rose Creek	04	1550CST 1553CST			0	0			Funnel Cloud
A funnel cloud was reported by the public near Rose Creek.									
Wabasha County									
Lake City	07	1330CST			0	0			Funnel Cloud
There were several reports of funnel clouds over Lake City and Lake Pepin.									
Wabasha County									
Elgin	24	0242CST			0	0			Hail (1.00)
Mower County									
Rose Creek	27	1812CST			0	0			Hail (1.00)
Mower County									
Adams	27	1818CST			0	0			Hail (0.75)
Mower County									
Austin	27	1900CST			0	0			Funnel Cloud
Mower County									
Lyle	27	1906CST			0	0			Thunderstorm Wind (G52)
Thunderstorms near the Minnesota Iowa border produced hail the size of dimes and quarters. Spotters estimated wind gusts of 60 mph near Lyle (Mower County), while a funnel cloud was reported near Austin (Mower County) by KAAL-TV.									
<u>MINNESOTA, Southwest</u>									
Cottonwood County									
7 N Westbrook	23	0622CST			0	0			Hail (0.75)
Murray County									
2 N Avoca	23	0757CST			0	0			Hail (0.75)
Pipestone County									
6 SW Pipestone	23	2343CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 2003

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, Southwest</u>									
Lincoln County									
13 E Hendricks	24	1638CST	0.1	50	0	0			Tornado (F0)
			A brief tornado caused no reported damage.						
Rock County									
Jasper	24	1806CST			0	0			Hail (2.00)
Pipestone County									
Pipestone	24	1820CST			0	0			Hail (0.88)
Pipestone County									
Pipestone	24	1825CST			0	0			Hail (1.75)
Lincoln County									
2 S Lake Benton	24	1850CST			0	0			Hail (0.88)
Lyon County									
2 W Russell	24	1858CST			0	0			Hail (0.75)
Lyon County									
Ghent	24	1908CST			0	0			Hail (1.75)
Lyon County									
Cottonwood	24	1923CST			0	0			Hail (1.75)
Rock County									
Jasper	24	2200CST			0	0			Thunderstorm Wind (G61)
Lincoln County									
Lake Benton	24	2220CST			0	0			Thunderstorm Wind (G61)
Pipestone County									
2 SW Pipestone	27	1528CST			0	0			Hail (0.88)
Cottonwood County									
Jeffers	27	1550CST 1600CST			0	0			Hail (1.00)
			Large hail severely damaged crops in the area, particularly corn, with bruising of stalks being the main damage. The hail also dented some vehicles. The amount of damage was not known.						
Nobles County									
Dundee	27	1605CST 1615CST			0	0			Hail (0.75)
			Large hail caused severe damage to corn and soybean crops in the area. The amount of crop damage was not known.						
Cottonwood County									
3 W Mountain Lake to 3 E Mountain Lake	27	1610CST 1620CST			0	0	200K	1M	Hail (1.00)
			Large hail severely damaged crops, especially corn. Many fields were deemed a total loss. The wind blown hail also damaged vehicles, cracked windows, and damaged the siding of homes. At least one greenhouse was heavily damaged. The hail was blown into drifts several inches high in many places.						
Cottonwood County									
Mountain Lake	27	1615CST			0	0	1M		Thunderstorm Wind (G61)
			Thunderstorm winds caused widespread tree damage, including numerous trees blown down. Falling trees damaged roofs of houses and destroyed the topper of a pickup truck, and severely damaged another pickup. Power lines were blown down, resulting in power outages. A large storage shed was destroyed. The roof of a house was blown off, and other roof damage to structures was reported.						
Jackson County									
Okabena	27	1625CST			0	0			Hail (0.75)
Nobles County									
3 S Lismore	27	1625CST			0	0			Hail (0.75)
<u>MINNESOTA, West</u>									
NONE REPORTED.									
<u>MINNESOTA, West Central</u>									
Traverse County									
3 S Dumont	05	1235CST			0	0			Hail (0.75)
Traverse County									
Browns Vly	22	1604CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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, West Central</u>									
Big Stone County									
14 NW Ortonville	23	2000CST			0	0			Hail (1.00)
Big Stone County									
10 NW Ortonville	23	2015CST			0	0			Hail (0.88)
Traverse County									
5 SW Tintah	24	0120CST			0	0			Hail (0.75)
Big Stone County									
1 W Clinton	24	1430CST			0	0			Hail (1.75)
<u>MISSISSIPPI, Central</u>									
Jefferson County									
Countywide	02	1405CST			0	0	10K		Thunderstorm Wind (G55)
A few trees and powerlines were blown down.									
Adams County									
Natchez	02	1410CST			0	0	10K		Thunderstorm Wind (G50)
A few trees were blown down.									
Claiborne County									
Countywide	02	1445CST			0	0	10K		Thunderstorm Wind (G55)
A few trees and powerlines were blown down.									
Bolivar County									
Cleveland	02	1550CST 1551CST	0.3	50	0	0	150K		Tornado (F0)
A weak tornado touched down in Cleveland and tore off an awning on a building at a lumber yard, then proceeded towards the local Wal-Mart and destroyed the garden section. Finally, several windows were blown out of a local hotel.									
Sharkey County									
Rolling Fork	02	1615CST			0	0	1K		Thunderstorm Wind (G50)
Several large limbs were blown down across the area.									
Hinds County									
Jackson	02	1620CST 1640CST			0	0	100K		Thunderstorm Wind (G60)
Thunderstorm winds produced widespread wind damage across the city of Jackson. Numerous trees and powerlines were blown down across several locations through the city. A traffic light was blown away at Clinton Blvd and Interstate 220. Several windows were blown out at Millsaps College on State Street.									
Madison County									
1 E Canton	02	1630CST			0	0	50K		Thunderstorm Wind (G60)
A roof was blown off a structure along with numerous trees blown down.									
Lowndes County									
Columbus	02	1635CST			0	0	1K		Hail (0.75)
Sunflower County									
Inverness	02	1635CST			0	0	20K		Thunderstorm Wind (G55)
Numerous trees were blown down. One tree fell on a house causing major damage.									
Humphreys County									
3 N Belzoni	02	1645CST			0	0	15K		Thunderstorm Wind (G55)
Numerous trees and powerlines were blown down.									
Rankin County									
Florence	02	1650CST			0	0	1K		Hail (0.75)
Attala County									
Wamba	02	1653CST			0	0	100K		Thunderstorm Wind (G55)
Thunderstorm winds damaged 3 mobile homes along highway 19.									
Rankin County									
Countywide	02	1659CST 1725CST			0	0	150K		Thunderstorm Wind (G60)
Thunderstorm winds blew down numerous trees and powerlines across Rankin county. Trees were blown down across many streets with a few trees falling on structures.									
Leflore County									
Countywide	02	1700CST			0	0	20K		Thunderstorm Wind (G55)
Several powerlines were blown down with a few of them snapped.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, Central</u>									
Jefferson County									
Union Church	02	1715CST			0	0	10K		Thunderstorm Wind (G50)
A few trees were blown down. One tree was blown down across highway 28 and blocked the road.									
Leflore County									
Minter City	02	1715CST			0	0	1K		Hail (0.75)
Leflore County									
Morgan City	02	1715CST			0	0	5K		Thunderstorm Wind (G50)
A couple of trees were blown down.									
Leake County									
Countywide	02	1728CST 1750CST			0	0	30K		Thunderstorm Wind (G55)
Numerous trees were blown down across the county. A few trees were blown down in Thomastown, Singleton and in Walnut Grove.									
Lincoln County									
14 SE Brookhaven	02	1730CST			0	0	50K		Thunderstorm Wind (G55)
A building was damaged by thunderstorm winds.									
Madison County									
Flora	02	1730CST			0	0	15K		Thunderstorm Wind (G55)
Numerous trees were blown down.									
Scott County									
4 SE Forest	02	1730CST			0	0	5K		Thunderstorm Wind (G50)
A few trees were blown down.									
Rankin County									
Brandon	02	1735CST			0	0	1K		Hail (0.75)
Rankin County									
Brandon	02	1742CST			0	0	10K		Hail (1.00)
Attala County									
Countywide	02	1745CST			0	0	10K		Thunderstorm Wind (G55)
Several trees were blown down across the county.									
Lincoln County									
Countywide	02	1745CST			0	0	15K		Thunderstorm Wind (G55)
A few powerlines were blown down.									
Carroll County									
Countywide	02	1800CST			0	0	15K		Thunderstorm Wind (G55)
A few powerlines were blown down.									
Grenada County									
Grenada	02	1800CST			0	0	10K		Thunderstorm Wind (G53)
A few trees and powerlines were blown down.									
Lawrence County									
3 N Monticello	02	1800CST			0	0	25K		Thunderstorm Wind (G55)
Numerous trees and powerlines were blown down.									
Attala County									
Ethel	02	1802CST			0	0	15K		Thunderstorm Wind (G50)
A few large oak trees were blown down.									
Montgomery County									
Countywide	02	1810CST			0	0	15K		Thunderstorm Wind (G55)
A few powerlines were blown down.									
Choctaw County									
3 E French Camp	02	1815CST			0	0	5K		Thunderstorm Wind (G50)
A few trees were blown down.									
Neshoba County									
Countywide	02	1815CST			0	0	20K		Thunderstorm Wind (G55)
Numerous trees and powerlines blown down across the county.									
Rankin County									
5 N Brandon	02	1815CST			0	0	15K		Thunderstorm Wind (G55)
A few large oak trees were blown down in Fannin Landing Circle and highway 471.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<u>MISSISSIPPI, Central</u>							
Simpson County							
4 W Magee	02	1815CST			0 0	20K	Thunderstorm Wind (G55)
A few powerlines were blown down.							
Jefferson Davis County							
Prentiss	02	1820CST			0 0	25K	Thunderstorm Wind (G55)
Several trees and powerlines were blown down along highway 84.							
Leake County							
Thomastown	02	1820CST 1830CST			0 0	100K	Thunderstorm Wind (G55)
Thunderstorm winds damaged a roof to a post office and church. In addition to the roof damage, numerous trees were blown down.							
Attala County							
5 S Kosciusko	02	1830CST			0 0	5K	Thunderstorm Wind (G50)
A few trees were blown down.							
Rankin County							
Central Portion	02	1830CST			0 0	5K	Thunderstorm Wind (G50)
A few trees were blown down on Monterey road.							
Scott County							
7 E Forest	02	1830CST			0 0	5K	Thunderstorm Wind (G50)
A few trees were blown down.							
Webster County							
Pellez	02	1830CST			0 0	15K	Thunderstorm Wind (G55)
A few powerlines were blown down.							
Oktibbeha County							
Starkville	02	1835CST			0 0	15K	Thunderstorm Wind (G55)
Several trees were blown down, a few in the city and more just N of Starkville. Three trees were blown down on the campus of Mississippi State University.							
Simpson County							
Countywide	02	1850CST			0 0	15K	Thunderstorm Wind (G55)
Numerous trees were blown down across the county.							
Covington County							
Mt Olive	02	1900CST			0 0	10K	Thunderstorm Wind (G53)
Several trees were blown down along with a portion of a fence.							
Smith County							
6 N Lemon	02	1903CST			0 0	1K	Thunderstorm Wind (G50)
Lincoln County							
7 N Brookhaven	02	1910CST			0 0	5K	Thunderstorm Wind (G50)
A few trees were blown down across some roads.							
Noxubee County							
Macon	02	1915CST			0 0	20K	Thunderstorm Wind (G55)
Several powerlines blown down.							
Rankin County							
6 E Florence	02	1915CST			0 0	5K	Thunderstorm Wind (G50)
A few trees were blown down.							
Clay County							
Pheba	02	1930CST			0 0	70K	Thunderstorm Wind (G60)
Several trees were blown down around town, along with a few homes sustaining roof damage.							
Jasper County							
6 E Bay Spgs	02	1930CST			0 0	20K	Thunderstorm Wind (G55)
Several trees and powerlines were blown down along county road 23.							
Lowndes County							
Countywide	02	1930CST			0 0	15K	Thunderstorm Wind (G50)
Several trees were blown down across the county.							
Newton County							
Hickory	02	1930CST			0 0	1K	Hail (0.75)
Leake County							
Countywide	02	1935CST			0 0	20K	Thunderstorm Wind (G55)
Numerous trees were blown down.							

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
MISSISSIPPI, Central									
Smith County									
3 S Trenton	02	1940CST			0	0	10K		Thunderstorm Wind (G50)
			A few trees and powerlines were blown down.						
Scott County									
Countywide	02	1945CST			0	0	15K		Thunderstorm Wind (G55)
			A few powerlines were blown down.						
Newton County									
Hickory	02	1950CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Newton County									
Chunky	02	2005CST			0	0	1K		Hail (0.75)
Lauderdale County									
Meridian	02	2020CST 2030CST			0	0	40K		Thunderstorm Wind (G55)
			Numerous trees were blown down across the city. One large tree was blown down on a house and another large tree was blown down on a van. In addition, very large limbs were down all across city roads.						
Clarke County									
Quitman	02	2045CST			0	0	30K		Thunderstorm Wind (G55)
			Numerous trees and powerlines blown down.						
Noxubee County									
1 S Macon	02	2100CST			0	0	20K		Thunderstorm Wind (G55)
			A few powerlines were blown down.						
Marion County									
1 S Columbia	03	1625CST			0	0	10K		Thunderstorm Wind (G50)
			Several large limbs and a few powerlines were blown down.						
Forrest County									
Hattiesburg	03	1633CST			0	0	5K		Thunderstorm Wind (G50)
			Several large limbs and one powerline were blown down.						
Smith County									
Taylorville	03	1820CST			0	0	1K		Hail (0.75)
Lincoln County									
Caseyville	10	1725CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down in NW Lincoln County.						
Copiah County									
2 SW Bowerton	10	1745CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Warren County									
10 S Vicksburg	11	0900CST			0	0	20K		Thunderstorm Wind (G55)
			Numerous trees and a few powerlines were blown down in the Letourneau community.						
Simpson County									
Martinville	11	0940CST			0	0	5K		Thunderstorm Wind (G50)
			Numerous large limbs blown down with tree debris blown across Good Hope road.						
Jasper County									
Montrose	11	1030CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Clarke County									
Stonewall	11	1055CST			0	0	1K		Thunderstorm Wind (G50)
Carroll County									
Jefferson	11	1100CST			0	0	1K		Thunderstorm Wind (G50)
Montgomery County									
Winona	11	1100CST			0	0	20K		Thunderstorm Wind (G55)
			Several trees and powerlines were blown down.						
Newton County									
Decatur	11	1100CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, Central</u>									
Kemper County									
Scooba	11	1120CST			0	0	1K		Thunderstorm Wind (G50)
			Several large limbs were blown down.						
Lauderdale County									
Meridian	11	1120CST			0	0	10K		Thunderstorm Wind (G50)
			A few trees and powerlines were blown down.						
Webster County									
Clarkson	11	1125CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Clay County									
2 N Montpelier	11	1145CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Oktibbeha County									
Countywide	11	1150CST 1200CST			0	0	15K		Thunderstorm Wind (G50)
			Numerous trees blown down across the county.						
Lowndes County									
Columbus	11	1230CST			0	0	30K		Thunderstorm Wind (G55)
			Numerous trees and powerlines were blown down.						
Sunflower County									
Parchman	11	1500CST			0	0	1K		Thunderstorm Wind (G50)
Webster County									
Mantee	11	1545CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Bolivar County									
Shelby	11	1635CST 1700CST			0	0	5K		Flash Flood
			Heavy rains cause several streets to flood.						
Grenada County									
2 W Hardy	11	1730CST			0	0	1K		Hail (0.75)
Bolivar County									
Shelby	11	1749CST			0	0	1K		Thunderstorm Wind (G50)
			Two trees were blown down.						
Bolivar County									
Countywide	11	1800CST			0	0	20K		Thunderstorm Wind (G55)
			Several powerlines blown down across the northern portion of the county.						
Sunflower County									
1 S Minot	11	1800CST			0	0	1K		Thunderstorm Wind (G50)
Grenada County									
Countywide	11	1830CST			0	0	10K		Thunderstorm Wind (G50)
			A few powerlines blown down across the county.						
Bolivar County									
Cleveland	11	1835CST 2000CST			0	0	10K		Flash Flood
			Heavy rains caused several streets to flood.						
Bolivar County									
Shelby	11	1835CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Bolivar County									
Cleveland	11	1915CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Clay County									
Countywide	11	1930CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Grenada County									
Grenada	11	1930CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, Central</u>									
Sunflower County									
Countywide	11	1930CST			0	0	10K		Thunderstorm Wind (G50)
	A few powerlines blown down across the county.								
Leflore County									
Greenwood	11	1945CST			0	0	10K		Thunderstorm Wind (G53)
	Numerous trees were blown down.								
Grenada County									
Grenada	11	2000CST 2100CST			0	0	10K		Flash Flood
	Heavy rains caused a few streets to flood.								
Leflore County									
1 E Greenwood	11	2005CST			0	0	1K		Hail (0.75)
Carroll County									
Vaiden	11	2020CST			0	0	1K		Hail (0.75)
Leflore County									
Greenwood	11 12	2035CST 0030CST			0	0	10K		Flash Flood
	Heavy rains caused several streets to flood.								
Bolivar County									
1 E Skene	11	2114CST			0	0	1K		Hail (0.75)
Sunflower County									
Inverness	11	2130CST			0	0	15K		Thunderstorm Wind (G55)
	A few powerlines were blown down.								
Sharkey County									
Rolling Fork	11	2250CST			0	0	1K		Thunderstorm Wind (G50)
Adams County									
Sibley	12	0830CST			0	0	20K		Thunderstorm Wind (G55)
	Several trees and powerlines were blown down.								
Smith County									
1 S Raleigh	12	1050CST			0	0	1K		Thunderstorm Wind (G50)
Marion County									
2 S Sandy Hook	12	1115CST			0	0	15K		Thunderstorm Wind (G50)
	A few trees and powerlines were blown down on Highway 35 S at Hurricane road.								
Adams County									
Sibley	12	1545CST			0	0	1K		Thunderstorm Wind (G50)
	A few trees were blown down in the southern part of the county.								
Copiah County									
Countywide	13	1445CST			0	0	10K		Thunderstorm Wind (G55)
	Numerous trees were blown down in the western portion of the county.								
Copiah County									
Countywide	13	1510CST			0	0	10K		Thunderstorm Wind (G55)
	Numerous trees were blown down in the northern portion of the county.								
Hinds County									
Countywide	13	1545CST			0	0	10K		Thunderstorm Wind (G55)
	Numerous trees were blown down.								
Hinds County									
Jackson	13	1545CST 1600CST			0	0	1K		Flash Flood
	Heavy rains caused several streets to flood.								
Simpson County									
Countywide	13	1545CST			0	0	20K		Thunderstorm Wind (G55)
	Numerous trees and powerlines were blown down across the county.								
Rankin County									
Pearl to Flowood	13	1550CST 1552CST			0	0	1K		Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, Central</u>									
Adams County									
Countywide	13	1600CST			0	0	10K		Thunderstorm Wind (G55)
	Numerous trees were blown down.								
Madison County									
Canton	13	1630CST			0	0	15K		Thunderstorm Wind (G55)
	A few powerlines were blown down.								
Rankin County									
5 E Florence	13	1630CST			0	0	1K		Thunderstorm Wind (G50)
	Several large limbs were blown down.								
Jasper County									
3 SE Heidelberg	13	1650CST 1800CST			0	0	10K		Flash Flood
	Heavy rains caused a portion of Highway 11 to be covered with water. Due to the high water, a car drove into the ditch.								
Newton County									
Union	13	1727CST			0	0	1K		Thunderstorm Wind (G50)
	Two trees were blown down.								
Newton County									
Decatur	13	1747CST			0	0	15K		Thunderstorm Wind (G55)
	A few trees and powerlines were blown down.								
Lauderdale County									
Hookston	13	1800CST			0	0	10K		Thunderstorm Wind (G55)
	A few powerlines were blown down.								
Lamar County									
2 E Sumrall	14	1330CST			0	0	1K		Thunderstorm Wind (G50)
Forrest County									
Central Portion	14	1340CST			0	0	1K		Thunderstorm Wind (G50)
Lamar County									
Oak Grove	14	1434CST 1600CST			0	0	5K		Flash Flood
	Heavy rains caused a few streets to flood.								
Rankin County									
2 S Star	14	1514CST 1620CST			0	0	10K		Flash Flood
	Heavy rains caused a portion of Highway 49 to be covered with water.								
Lincoln County									
Brookhaven	15	1310CST 1500CST			0	0	200K		Flash Flood
	A slow moving thunderstorm dumped very heavy rain over Brookhaven. Ten homes were flooded along with numerous streets under water.								
Lincoln County									
1 E Brookhaven	15	1310CST			0	0	2K		Thunderstorm Wind (G50)
	A few trees were blown down.								
Claiborne County									
4 S Port Gibson	15	1325CST			0	0	1K		Thunderstorm Wind (G50)
	Several large limbs were blown down.								
Lincoln County									
3 E Brookhaven	15	1400CST			0	0	2K		Thunderstorm Wind (G50)
	A few trees were blown down.								
Madison County									
Ridgeland	15	1520CST			0	0	1K		Thunderstorm Wind (G50)
	Several large limbs were blown down.								
Madison County									
Madison to Canton	15	1524CST 1630CST			0	0	10K		Flash Flood
	Heavy rains caused numerous streets to flood in Madison and Canton. Two feet of water was covering a portion of Heritage Drive.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, Central</u>									
Hinds County									
Jackson	15	1525CST 1630CST			0	0	5K		Flash Flood
			Heavy rains caused several streets to flood in the city of Jackson.						
Covington County									
Mt Olive	15	1530CST			0	0	1K		Hail (0.75)
Smith County									
Mize	15	1610CST			0	0	2K		Thunderstorm Wind (G50)
			A few trees were blown down.						
Rankin County									
Pelahatchie	15	1615CST 1700CST			0	0	2K		Flash Flood
			Heavy rains caused a few streets to flood.						
Scott County									
Morton	15	1645CST			0	0	5K		Thunderstorm Wind (G50)
			A few trees were blown down near Highway 13.						
Scott County									
Morton	15	1700CST 1740CST			0	0	2K		Flash Flood
			Heavy rains caused a few streets to flood.						
Newton County									
Decatur	15	1715CST			0	0	1K		Thunderstorm Wind (G50)
			Several large limbs were blown down.						
Holmes County									
Gwin	17	1300CST 1430CST			0	0	200K		Flash Flood
			Very heavy rains caused 13 homes in Gwin to flood.						
Grenada County									
2 S Grenada	17	1400CST 1425CST			0	0	15K		Flash Flood
			Heavy rains caused numerous county roads to flood. Highway 51 also had water running over it.						
Washington County									
Greenville	17	1445CST 1530CST			0	0	10K		Flash Flood
			Heavy rains caused several streets to flood.						
Bolivar County									
Cleveland	17	1500CST 1530CST			0	0	10K		Flash Flood
			Heavy rains caused numerous streets to flood in west Cleveland.						
Sunflower County									
Drew	17	1515CST 1600CST			0	0	50K		Flash Flood
			Heavy rains caused 2 homes to flood and West Park street to be closed. Numerous other streets were also flooded.						
Noxubee County									
5 E Macon	18	2010CST			0	0	8K		Thunderstorm Wind (G50)
			A few powerlines were down due to large limbs falling over the lines.						
Forrest County									
Hattiesburg	21	1600CST 1630CST			0	0	30K		Flash Flood
			Heavy rains caused water to enter 1 building on the campus Southern Mississippi University. Several streets were also flooded.						
Rankin County									
1 NE Thomasville	26	2200CST 2300CST			0	0	10K		Flash Flood
			Heavy rains caused a portion of Star road to flood.						
Forrest County									
Hattiesburg	27	1345CST 1430CST			0	0	1K		Flash Flood
			Heavy rains caused a few streets to flood near the fire department.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, Central</u>									
Lauderdale County									
Meridian	29	1745CST 1830CST			0	0	1K		Flash Flood
Heavy rains caused a few streets to flood.									
Clarke County									
Stonewall	30	0300CST 0600CST			0	0	30K		Flash Flood
Heavy rains caused a few streets to flood. A portion of highway 320, near Stonewall, was underwater. Due to the rising water, some county owned equipment was flooded.									
Grenada County									
Grenada	30	0800CST 0900CST			0	0	5K		Flash Flood
A few streets were flooded along with some secondary roads in the county.									
MSZ046-051>052- 056>058-064>066- 072>074	30	1300CST 2359CST			0	0	100K		Tropical Storm
Tropical Storm Bill made landfall in S Louisiana, just to the SW of Houma, around 2 PM on June 30th. The storm then moved to the NE as it slowly weakened into a Tropical Depression. The center of the system basically tracked along Interstate 59 before moving into Alabama around 6 AM, July 1st. Heavy rainfall with the system resulted in several reports of flash flooding. Forty-eight hour rainfall totals ranged between 3 and 7 inches, mainly across SE portions of Mississippi. Gradient wind gusts between 30 and 40 mph combined with saturated soils to down numerous trees very close to center's track. Damage from Bill was an estimated \$100,000.									
Lamar County									
Sumrall	30	2015CST 2300CST			0	0	10K		Flash Flood
Heavy rains caused several streets to flood in the city.									
Forrest County									
11 S Hattiesburg	30	2025CST 2300CST			0	0	10K		Flash Flood
Heavy rains caused numerous roads and streets to be flooded. A portion of highway 11 was reported underwater for a brief time.									
Marion County									
5 E Columbia	30	2100CST 2230CST			0	0	2K		Flash Flood
A few secondary roads were flooded.									
Jones County									
2 NE Ovett	30	2140CST 2350CST			0	0	5K		Flash Flood
Several roads were underwater.									
Lawrence County									
6 W Monticello	30	2200CST 2330CST			0	0	2K		Flash Flood
Several secondary roads were underwater.									
<u>MISSISSIPPI, North</u>									
Monroe County									
Prairie	02	1910CST 1915CST			0	0	5K		Thunderstorm Wind (G60)
A wall from a building was blown down.									
Monroe County									
Countywide	02	1930CST 1945CST			0	0	10K		Thunderstorm Wind (G60)
Numerous trees were blown down across the county.									
De Soto County									
Cockrum	11	1100CST 1105CST			0	0	20K		Thunderstorm Wind (G60)
Several homes had roof damage. Some trees were knocked down.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, North</u>									
Pontotoc County									
Ecu	11	1130CST 1135CST			0	0	10K		Thunderstorm Wind (G60)
									A barn had its roof partially torn off. Several trees were knocked down.
Lee County									
Saltillo	11	1138CST 1150CST			0	0	5K		Thunderstorm Wind (G55)
									A few trees were blown down.
Chickasaw County									
1 S Houston	11	1140CST 1150CST			0	0	15K		Thunderstorm Wind (G60)
									Several homes had their roofs blown off. Some trees were knocked down.
Itawamba County									
Sand Spgs	11	1145CST 1150CST			0	0	5K		Thunderstorm Wind (G55)
									Some trees were blown down.
Tishomingo County									
Belmont	11	1145CST 1150CST			0	0	5K		Thunderstorm Wind (G55)
									A few trees were knocked down.
Lee County									
Saltillo	11	1205CST 1210CST			0	0	5K		Thunderstorm Wind (G55)
									Some trees were knocked down.
Tunica County									
Tunica	11	1315CST 1320CST			0	0	0.05K		Hail (0.88)
Tunica County									
5 N Tunica	11	1340CST 1350CST			0	0	0.15K		Hail (1.00)
Panola County									
Batesville to Courtland	11	1500CST 1510CST			0	0	5K		Thunderstorm Wind (G55)
									Some trees were knocked down.
Panola County									
Batesville	11	1528CST 1535CST			0	0	5K		Thunderstorm Wind (G55)
									Several trees were blown down.
Panola County									
Batesville	11	1530CST 1700CST			0	0	5K		Flash Flood
									A few roads were washed out.
Panola County									
Batesville	11	1530CST 1535CST			0	0	0.05K		Hail (0.88)
Lafayette County									
Oxford	11	1545CST 1550CST			0	0	10K		Thunderstorm Wind (G55)
									Some trees and power lines were blown down.
Panola County									
Batesville	11	1545CST 1550CST			0	0	5K		Thunderstorm Wind (G55)
									Several trees were knocked down.
Yalobusha County									
Water Vly	11	1550CST 1555CST			0	0	0.05K		Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, North</u>									
Yalobusha County									
Water Vly	11	1607CST 1615CST			0	0	0.05K		Hail (0.88)
Yalobusha County									
Water Vly	11	1607CST 1615CST			0	0	5K		Thunderstorm Wind (G55)
A few trees were knocked down.									
Lafayette County									
Paris	11	1609CST 1615CST			0	0	15K		Thunderstorm Wind (G60)
Numerous trees and power lines were blown down.									
Union County									
Fairfield	11	1615CST 1620CST			0	0	10K		Thunderstorm Wind (G55)
Some trees and power lines were blown down.									
Panola County									
Rock Hill	11	1620CST 1625CST			0	0	5K		Thunderstorm Wind (G55)
Several trees were blown down.									
Calhoun County									
8 E Bruce	11	1630CST 1635CST			0	0	5K		Hail (0.88)
Some cars were damaged by hail.									
Calhoun County									
8 E Bruce	11	1630CST 1635CST			0	0	10K		Thunderstorm Wind (G55)
Some trees and power lines were knocked down.									
Calhoun County									
Calhoun City	11	1635CST 1640CST			0	0	10K		Thunderstorm Wind (G60)
A small building was damaged. Several trees were blown down.									
Chickasaw County									
15 N Okolona	11	1635CST 1640CST			0	0	10K		Thunderstorm Wind (G55)
Several trees and power lines were knocked down.									
Chickasaw County									
Okolona	11	1635CST 1640CST			0	0	10K		Thunderstorm Wind (G55)
Some trees and power lines were blown down.									
Itawamba County									
Fulton to 6 E Fulton	11	1655CST 1705CST			0	0	10K		Thunderstorm Wind (G55)
Many trees were knocked down.									
Tallahatchie County									
Paynes	11	1705CST 1710CST			0	0	5K		Thunderstorm Wind (G55)
A shed was blown down.									
Tishomingo County									
Belmont	11	1725CST 1730CST			0	0	1K		Thunderstorm Wind (G50)
Numerous large tree limbs were blown down.									
Monroe County									
5 N Aberdeen	11	1730CST 1735CST			0	0	10K		Thunderstorm Wind (G55)
Numerous trees were blown down.									
Yalobusha County									
Oakland	11	1750CST 1755CST			0	0	5K		Thunderstorm Wind (G55)
A few trees were blown down.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSISSIPPI, North</u>									
Tallahatchie County									
Countywide	11	1812CST 1830CST			0	0	5K		Thunderstorm Wind (G55)
									Several trees were knocked down across the county.
Tallahatchie County									
Philipp	11	1946CST 1950CST			0	0	1K		Thunderstorm Wind (G50)
									Some large tree limbs were blown down.
<u>MISSISSIPPI, South</u>									
Pearl River County									
10 SW Poplarville	12	1115CST			0	0	1.5K		Thunderstorm Wind (G50)
									Several trees were knocked down.
Harrison County									
10 N Pass Christian	12	1230CST			0	0	3K		Thunderstorm Wind (G50)
									Thunderstorm winds caused damage at a flea market. Chairs and a canopy were blown onto the Interstate.
Pike County									
Countywide	15	1345CST 1600CST			0	0			Flash Flood
									Heavy rainfall resulted in considerable flooding of rural and secondary roadways.
Pike County									
Mc Comb	15	1430CST 1445CST			0	0	2K		Thunderstorm Wind (G50)
									Several trees were blown down.
MSZ077-080>082									
Pearl River - Hancock - Harrison - Jackson									
	30	0800CST 2359CST			0	0	4M		Tropical Storm
									Tropical Storm Bill developed in the southern Gulf of Mexico on Sunday, June 29, 2003 then moved steadily northward toward the Louisiana coast. Tropical Storm Bill moved into southeast Louisiana south of Houma around 2000 CST on Monday, June 30, 2003 then moved north northeast across southeast Louisiana and at midnight was entering south Mississippi. The affects of Tropical Storm Bill began in south Mississippi during the morning hours and continued into the early morning of July 1, 2003. The lowest pressure recorded from land stations in Mississippi was 1006.4 mb at Keesler Air Force Base in Biloxi. The maximum recorded sustained wind was 37 knots (43 mph) at the Gulfport Airport. The highest recorded wind gust in Mississippi was 45 knots (52 mph) occurring at both Gulfport Airport and Keesler Air Force Base. The greatest storm surge along the Mississippi coast was 4.99 ft MLLW recorded at the NOAA tide gage in Waveland. The highest storm total rainfall (approximately 48 hours) was 9.49 inches at Van Cleave. River flooding which developed as a result of the heavy rainfall crested in early July and will be described in July Storm Data.
									The collective effect of Tropical Storm Bill in coastal Mississippi resulted in no injuries or fatalities and approximately \$5 million dollars in property damage in south Mississippi. Specifically the one tornado resulted in \$5 thousand dollars in damage, property damage from the strong winds was estimated at \$2 million dollars, storm surge flooding resulted in 1 million dollars in damage, and heavy rainfall causing flash flooding and river flooding caused 2 million dollars in damage. Storm damages are estimated and further updates on more definitive dollar damage cost will be updated in later storm data issuances.
Pearl River County									
Countywide	30	1345CST 2100CST			0	0	500K		Flash Flood
Hancock County									
Countywide	30	1500CST 2100CST			0	0	500K		Flash Flood
MSZ070>071									
Pike - Walthall									
	30	1600CST 2200CST			0	0	150K		Strong Wind
									Strong winds associated with the Tropical Storm Bill combined saturated soil conditions caused trees to be blown down in several locations. Approximately 34 roads were blocked by fallen trees and two homes were damaged.
Hancock County									
Waveland	30	1840CST	0.2	30	0	0	1K		Tornado (F0)

Storm Data and Unusual Weather Phenomena

June 2003

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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MISSISSIPPI, South

MISSISSIPPI, Southeast

Greene County

Leakesville	03	1445CST 1447CST			0 0	5K	Thunderstorm Wind (G50)
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High winds from a thunderstorm blew down several trees southeast of Leakesville.

George County

Movella	30	2025CST 2027CST			0 0	5K	Thunderstorm Wind (G50)
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High winds from thunderstorms blew down several trees west of Movella.

Greene County

Vernal	30	2055CST 2058CST			0 0	5K	Thunderstorm Wind (G50)
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High winds from thunderstorms blew down several trees near Vernal.

George County

Countywide	30	2100CST 2359CST			0 0		Flash Flood
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Heavy rainfall from Tropical Storm Bill caused many secondary streets across the county to flood. Rainfall totals of four to seven inches were estimated in a six hour period. The heavy rainfall began in the evening and spread across the county by late evening. The flooding continued for several hours and ended around midnight as the heavy rain moved north out of the county.

Perry County

Countywide	30	2100CST 2359CST			0 0		Flash Flood
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Heavy rainfall from Tropical Storm Bill caused many secondary streets across the county to flood. Rainfall totals of four to seven inches were estimated in a six hour period. The heavy rainfall began in the evening and spread across the county by late evening. The flooding continued for several hours and ended around midnight as the heavy rain moved north out of the county.

Stone County

Countywide	30	2100CST 2359CST			0 0		Flash Flood
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Heavy rainfall from Tropical Storm Bill caused many secondary streets across the county to flood. Rainfall totals of four to seven inches were estimated in a six hour period. The heavy rainfall began in the evening and spread across the county by late evening. The flooding continued for several hours and ended around midnight as the heavy rain moved north out of the area.

George County

5 NE Lucedale	30	2115CST 2117CST			0 0	5K	Thunderstorm Wind (G50)
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High winds from thunderstorms blew down several trees northeast of Lucedale.

Greene County

Pisgah	30	2130CST 2134CST			0 0	5K	Thunderstorm Wind (G50)
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High winds from thunderstorms blew down several trees near Pisgah

MISSOURI, East

Osage County

Meta	10	1455CST			0 0		Hail (1.50)
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Storm spotters reported silver dollar size hail.

Callaway County

Fulton	10	1500CST			0 0		Thunderstorm Wind (G55)
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Callaway County

Holts Summit	10	1500CST			0 0		Thunderstorm Wind (G55)
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Callaway County

New Bloomfield	10	1500CST			0 0		Hail (0.75)
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Thunderstorm winds downed trees and power lines across parts of Callaway County. Trees and power lines were down in Fulton and Hold Summit. Three quarter inch hail was reported in New Bloomfield.

Osage County

Meta	10	1520CST			0 0		Thunderstorm Wind (G51)
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The County Sheriff reported large tree limbs down from thunderstorm winds.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MISSOURI, East									
Crawford County									
Cuba	10	1540CST			0	0			Thunderstorm Wind (G60)
The County Sheriff reported several trees and power lines down.									
Crawford County									
Cuba	10	1555CST			0	0			Thunderstorm Wind (G60)
Crawford County									
Bourbon	10	1605CST			0	0			Hail (0.75)
A second severe thunderstorm downed trees and damaged some advertising signs in Cuba. Storm spotters reported 3/4 inch hail in Bourbon.									
Warren County									
3 S Warrenton	10	1605CST			0	0			Thunderstorm Wind (G60)
The County Sheriff reported several large trees down on Highway U south of Warrenton.									
Franklin County									
Washington	10	1610CST			0	0			Thunderstorm Wind (G55)
Franklin County									
Labadie	10	1615CST			0	0			Thunderstorm Wind (G55)
Thunderstorm wind gusts downed trees and power lines in Washington and Labadie.									
St. Charles County									
Wentzville	10	1615CST			0	0			Hail (1.00)
St. Charles County									
New Melle	10	1620CST			0	0			Thunderstorm Wind (G60)
St. Charles County									
O Fallon	10	1630CST			0	0			Thunderstorm Wind (G55)
St. Charles County									
St Peters	10	1635CST			0	0			Thunderstorm Wind (G55)
A severe thunderstorm which took on a bowing structure caused wind damage across a large part of St. Charles County. Trees and power lines were down in the New Melle area and scattered trees were also reported down in O'Fallon and St. Peters. One inch hail was reported in Wentzville.									
Warren County									
1 N Marthasville	10	1620CST			0	0			Thunderstorm Wind (G60)
The County Sheriff reported numerous trees and power lines down in the Marthasville area.									
St. Louis County									
Jennings	10	1650CST			0	0			Thunderstorm Wind (G55)
The County Police reported trees down.									
Jefferson County									
Imperial	10	1650CST			0	0			Thunderstorm Wind (G60)
The County Sheriff reported numerous trees and power lines down in the Imperial area.									
St. Louis County									
Affton	10	1700CST			0	0			Thunderstorm Wind (G61)
St. Louis County									
Lemay	10	1700CST			0	0			Thunderstorm Wind (G61)
St. Louis County									
Fenton	10	1705CST			0	0			Thunderstorm Wind (G61)
St. Louis County									
1 N Fenton	10	1705CST			0	0			Thunderstorm Wind (G61)
A bowing thunderstorm produced wind damage across south St. Louis County. Part of the roof of a Bed and Breakfast Inn was blown off and also damaged by large trees that were blown down. Several power poles were taken down by the fallen trees as well. Signs along Interstate 44 in Fenton were blown down and the roof of a hotel was damaged. Trees were blown down just north of Fenton. A 36 inch diameter tree fell across Tesson Ferry Road in the Affton area blocking four of the five traffic lanes and severing several power lines.									
Jefferson County									
Barnhart	10	1700CST			0	0			Thunderstorm Wind (G60)
The County Sheriff reported trees down.									
Jefferson County									
Arnold	10	1700CST			0	0			Thunderstorm Wind (G55)
The public reported trees and power lines down.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSOURI, East</u>									
St. Louis County									
Richmond Hgts	10	1710CST			0	0			Thunderstorm Wind (G55)
	The public reported trees down in Richmond Heights.								
St. Francois County									
Bonne Terre	10	1735CST			0	0			Thunderstorm Wind (G61)
	The public reported trees down.								
Franklin County									
Countywide	10	1735CST 2100CST			0	0			Flash Flood
	Heavy rain caused flooding on several county roads.								
St. Charles County									
Central Portion	10	1745CST 2100CST			0	0			Flash Flood
	Heavy rain caused several roads in St. Charles County to become impassable. St. Peters/Howell and Central School Road had up to 2 feet of water flowing across them due to the rain.								
St. Louis County									
North Portion	10	1800CST 2115CST			0	0			Flash Flood
	Heavy rain caused flash flooding across the north part of St. Louis County. Missouri Bottom Road was reported flooded as was Lindbergh Boulevard near Lambert St. Louis International Airport.								
St. Louis (C)									
St Louis	10	1830CST 2130CST			0	0			Flash Flood
	Heavy rain caused flooding on several streets in St. Louis. Flooding was reported on Riverview Boulevard, Hall Street, and Skinker Avenue.								
Crawford County									
North Portion	10 11	2100CST 0200CST			0	0			Flash Flood
	Heavy rain caused flash flooding across the north portion of Crawford County. Highway N southeast of Bourbon was closed due to flooding.								
Boone County									
North Portion	12	1830CST 2100CST			0	0			Flash Flood
Monroe County									
Countywide	12	1830CST 2100CST			0	0			Flash Flood
	Heavy rain caused flash flooding across parts of Boone and Monroe Counties. Parts of Highways 151 and 24 in western Monroe County were reported flooded. In Boone County, flooding was reported primarily across the northern half of the county. Highways Z and K were reported flooded as were several streets in Columbia.								
Marion County									
Hannibal	25	1745CST			0	0			Lightning
	A lightning strike was responsible for a large portion of Hannibal losing power. Lightning struck a main feed line resulting in the temporary loss of power from two substations. Power was off for about 45 minutes.								
Moniteau County									
Clarksburg	25	1800CST			0	0			Thunderstorm Wind (G55)
	Thunderstorm wind gusts downed several trees and power lines. About half of the town lost power during the storm. The roof of the concession stand at a baseball field was also blown off.								
Audrain County									
East Portion	25 26	1900CST 0100CST			0	0			Flash Flood
Ralls County									
Central Portion	25 26	1900CST 0100CST			0	0			Flash Flood
	Heavy rain caused flooding across parts of Audrain and Ralls County. Highway 54 and 19 near the West Fork of the Cuivre River in Audrain County flooded. In Ralls County, Highway V at the Salt River was flooded and closed.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSOURI, East</u>									
Lincoln County									
East Central Portion	25	1945CST			0	0			Flash Flood
	26	0500CST							
Heavy rain caused flash flooding mainly across eastern Lincoln County. Highway 79 between Winfield and Foley was reported flooded.									
Boone County									
North Portion	25	2030CST			0	0			Flash Flood
	26	0200CST							
Heavy rain caused flooding across the north part of Boone County. Several street and roads in Centralia were flooded.									
Callaway County									
Fulton	25	2200CST			0	0			Lightning
Callaway County									
Kingdom City	25	2200CST			0	0			Lightning
Lightning strikes were responsible for power outages in Fulton and Kingdom City. Some businesses and residents were without power for up to 4 hours.									
St. Charles County									
East Portion	25	2215CST			0	0			Flash Flood
	26	0600CST							
St. Louis County									
Countywide	25	2215CST			0	0			Flash Flood
	26	0600CST							
St. Louis (C)									
St Louis	25	2215CST			0	0			Flash Flood
	26	0600CST							
Heavy rain caused flooding across parts of St. Charles and St. Louis County and the City of St. Louis. Numerous streets in the Metro area were flooded until the next morning causing problems for morning commuters. In particular, numerous streets were reported flooded in Creve Coeur and Maryland Heights and the City of St. Louis.									
Warren County									
Countywide	25	2230CST			0	0			Flash Flood
	26	0330CST							
Heavy rain caused flash flooding across much of Warren County. Interstate 70 became virtually impassable in several places due to high water.									
Warren County									
Marthasville	26	1715CST			0	0			Thunderstorm Wind (G55)
Warren County									
Wright City	26	1715CST			0	0			Thunderstorm Wind (G60)
Thunderstorms winds downed a couple of large trees in Marthasville. In Wright City, a couple of outbuildings were destroyed near Interstate 70 and Highway F.									
<u>MISSOURI, Lower</u>									
Dunklin County									
Kennett	11	0345CST			0	0	10K		Thunderstorm Wind (G50)
		0350CST							
Several trees were knocked down. One home was damaged.									
Dunklin County									
Clarkton	30	1300CST			0	0	1K		Flash Flood
		1500CST							
Several streets were flooded.									
<u>MISSOURI, Northeast</u>									
Clark County									
1 S Alexandria	25	1645CST			0	0	10K	4.8M	Thunderstorm Wind (G60)
A line of strong storms moved across Clark County in the late afternoon damaging 20,000 acres of crops (17,000 corn and 3,000 wheat) near the Alexandria area.									
<u>MISSOURI, Northwest</u>									
Andrew County									
Savannah	10	0156CST			0	0			Hail (0.75)
Jackson County									
Grain Vly	10	0345CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MISSOURI, Northwest									
Saline County									
Marshall	10	0408CST			0	0			Hail (0.88)
Pettis County									
Longwood	10	0430CST			0	0			Thunderstorm Wind (G52)
Macon County									
2 S Macon	10	1555CST			0	0			Hail (0.75)
Ray County									
4 N Hardin to 5 NE Hardin	12	1525CST 1527CST	1	50	0	0	30K		Tornado (F0)
Tornado touched down 4 miles north of Hardin and moved one mile northeast before lifting. The tornado damaged power lines, sheds, roofs and one business.									
De Kalb County									
6 E Clarksdale	12	1618CST 2000CST			0	0			Flash Flood
Water over road on Route O from county roads J to N.									
Chariton County									
Salisbury	12	2020CST 2320CST			0	0			Flash Flood
Water over Highway 24 and Highway 129.									
Randolph County									
Clifton Hill	12	2020CST 2320CST			0	0			Flash Flood
Highway 24 briefly closed due to high water from heavy rains.									
Saline County									
Malta Bend	12	2020CST 2320CST			0	0			Flash Flood
High water on Highway 65 and H Highway due to heavy rains.									
Howard County									
5 NE Fayette	12 13	2113CST 0013CST			0	0			Flash Flood
Many county road closures due to heavy rains.									
MOZ040-054									
Howard - Henry									
	12 13	1900CST 2300CST			0	0			Flood
Heavy rains caused minor flooding for both the South Grand River near Urich and Moniteau Creek near Fayette.									
Jackson County									
Kansas City	22	1510CST			0	0			Hail (0.75)
Cass County									
Peculiar	25	1240CST			0	0			Hail (0.75)
Mercer County									
7 SE South Lineville	25	1255CST			0	0			Hail (0.75)
Cass County									
Belton	25	1300CST			0	0			Thunderstorm Wind (G52)
Numerous large branches down and several trees split.									
Clay County									
Liberty	25	1310CST			0	0	1K		Thunderstorm Wind (G52)
Several trees and power lines down.									
Clay County									
Avondale	25	1320CST			0	0			Thunderstorm Wind (G52)
Tree reported down.									
Jackson County									
Kansas City	25	1330CST			0	0			Thunderstorm Wind (G52)
Trees down in the Longview Lake area.									
Nodaway County									
Skidmore	25	1330CST			0	0			Thunderstorm Wind (G52)
Numerous large branches down.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSOURI, Northwest</u>									
Grundy County									
Brimson	25	1337CST			0	0			Thunderstorm Wind (G52)
Clinton County									
Cameron	25	1345CST			0	0			Thunderstorm Wind (G61)
			Many tree and tree limbs reported down.						
Linn County									
Bucklin	25	1345CST			0	0			Thunderstorm Wind (G52)
Daviess County									
1 W Gallatin	25	1400CST			0	0			Thunderstorm Wind (G52)
Daviess County									
Pattonsburg	25	1400CST			0	0			Thunderstorm Wind (G52)
Grundy County									
Trenton	25	1415CST			0	0			Thunderstorm Wind (G52)
			Tree 5 to 10 inches in diameter blown down.						
Mercer County									
Princeton	25	1416CST			0	0			Thunderstorm Wind (G52)
Macon County									
Atlanta	25	1541CST			0	0			Thunderstorm Wind (G52)
Chariton County									
Salisbury	29	1612CST			0	0			Thunderstorm Wind (G52)
Chariton County									
Salisbury	29	1620CST			0	0			Hail (1.00)
Chariton County									
Salisbury	29	1630CST			0	0			Hail (0.88)
Randolph County									
Clifton Hill	29	1700CST			0	0			Hail (0.75)
<u>MISSOURI, Southeast</u>									
Mississippi County									
3 W Charleston	10	0958CST			0	0			Thunderstorm Wind (G55)
			A farm building was destroyed. A car wash was partially unroofed. Some trees and large limbs were blown down.						
Cape Girardeau County									
Jackson to Cape Girardeau	11	1100CST 1700CST			0	0			Heavy Rain
			Parts of U.S. Highway 61 and Highway D flooded, but the water receded quickly. In Jackson, an intersection on East Main Street was closed by flooding, and a bridge on East Independence was closed when water temporarily flowed across it.						
Scott County									
Scott City	11	1100CST 1700CST			0	0			Heavy Rain
			Clogged drainage ditches contributed to the flooding of residential areas in Scott City. Basement flooding was reported.						
<u>MISSOURI, Southwest</u>									
Morgan County									
1 NW Barnett	05	1530CST			0	0			Hail (1.75)
St. Clair County									
Osceola	10	0453CST			0	0			Hail (0.88)
Pulaski County									
Dixon	10	0535CST			0	0			Hail (0.88)
Benton County									
5 N Warsaw	10	0545CST			0	0			Hail (0.75)
Webster County									
Marshfield	10	0600CST			0	0			Hail (0.75)
Webster County									
4 N Marshfield	10	0602CST			0	0			Hail (0.88)
Hickory County									
3 E Preston	10	0730CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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									
St. Clair County									
4 S Osceola	10	1320CST			0	0			Hail (0.88)
Benton County									
Cole Camp	10	1330CST			0	0			Hail (0.75)
Camden County									
Barnumton	10	1405CST			0	0			Hail (0.88)
Miller County									
Eldon	10	1431CST			0	0			Hail (0.88)
Camden County									
Sunrise Beach	10	1435CST			0	0			Hail (1.00)
Morgan County									
7 S Gravois Mills	10	1445CST			0	0			Hail (0.88)
Pulaski County									
1 NE Dixon	10	1458CST			0	0			Hail (0.75)
Camden County									
Climax Spgs	10	1504CST			0	0			Hail (0.88)
Maries County									
Brinktown	10	1512CST			0	0			Thunderstorm Wind (G65)
Maries County									
Vienna	10	1515CST			0	0			Thunderstorm Wind (G65)
Miller County									
Iberia	10	1517CST			0	0			Hail (0.88)
Camden County									
5 N Camdenton	10	1535CST			0	0			Hail (0.88)
Miller County									
Lake Ozark	10	1542CST 1600CST			0	0	10K		Flash Flood
Flash flooding induced from training thunderstorms inundated a section of a road that eventually washed away.									
Camden County									
4 W Osage Beach	10	1607CST			0	0			Hail (1.00)
Miller County									
6 SW Eldon	10	1630CST 1700CST			0	0			Flash Flood
Torrential downpours caused the Spring Creek to flood over onto roads and low lying areas near the creek.									
Maries County									
Vichy	10	1700CST			0	0			Hail (0.75)
Newton County									
Neosho	10	1720CST			0	0			Hail (0.75)
Newton County									
Neosho	10	1730CST			0	0			Thunderstorm Wind (G65)
Newton County									
Neosho	10	1730CST 1900CST			0	0			Flash Flood
Training thunderstorms over the city of Neosho induced flash flooding within the city. Sand bagging procedures were performed around the hospital and other buildings in the downtown area.									
Camden County									
6 NW Camdenton	10	1735CST			0	0			Hail (0.88)
Newton County									
Granby	10	1735CST			0	0			Hail (0.88)
Lawrence County									
4 E Pierce City	10	1850CST			0	0			Hail (0.75)
Lawrence County									
Chesapeake	10	1853CST			0	0			Hail (0.75)
Barry County									
(Umn)Monett	10	1900CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
MISSOURI, Southwest									
Greene County									
Republic	10	1906CST			0	0			Hail (0.75)
Greene County									
(Sgf)Springfield Arpt	10	1915CST			0	0			Hail (0.75)
Greene County									
Springfield	10	1915CST			0	0			Thunderstorm Wind (G65)
Miller County									
4 N Bagnell	10	1920CST			0	0			Hail (0.75)
Webster County									
Fordland	10	1945CST			0	0			Thunderstorm Wind (G65)
Miller County									
Lake Ozark	10	1949CST 2030CST			0	0			Flash Flood
Law enforcement officials reported a bridge flooded over from the Osage River.									
Webster County									
Fordland	10	2000CST			0	0			Thunderstorm Wind (G65)
Miller County									
Lake Ozark	10	2000CST 2100CST			0	0			Flash Flood
Heavy rains produced widespread flash flooding through Miller County. Law enforcement officials observed several low water crossings and bridges that were flooded over.									
Christian County									
Nixa	10	2005CST			0	0			Thunderstorm Wind (G65)
Wright County									
7 NW Hartville	10	2015CST			0	0			Thunderstorm Wind (G60)
Wright County									
Norwood	10	2038CST			0	0			Hail (0.75)
Wright County									
3 E Hartville	10	2046CST 2130CST			0	0			Flash Flood
Storm chaser observed flash flood waters inundating highway 38.									
Texas County									
Houston	10	2105CST			0	0			Thunderstorm Wind (G65)
Texas County									
6 N Houston	10	2106CST			0	0			Thunderstorm Wind (G80)
Texas County									
Licking	10	2116CST			0	0			Thunderstorm Wind (G60)
Camden County									
Camdenton	10	2130CST 2230CST			0	0			Flash Flood
Several low water crossing and low lying areas were flooded over in areas near Camdenton.									
Newton County									
Neosho	10 11	2330CST 0100CST			0	0	20K		Flash Flood
Training thunderstorms produced flash flooding within the city that flooded numerous homes and businesses.									
Webster County									
5 SW Northview	12	1813CST 2000CST			0	0			Flash Flood
Numerous flooded roadways were observed by storm spotters.									
Christian County									
Ozark	12	1820CST			0	0			Thunderstorm Wind (G65)
Barton County									
Lamar	25	1923CST			0	0			Thunderstorm Wind (G60)
Polk County									
Pleasant Hope	25 26	1925CST 1925CST			0	0			Thunderstorm Wind (G65)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MISSOURI, Southwest</u>									
Barton County									
Lamar	25	1930CST			0	0			Thunderstorm Wind (G60)
Dallas County									
3 SE Buffalo	25	1936CST			0	0			Thunderstorm Wind (G65)
Dade County									
Greenfield	25	1945CST			0	0			Thunderstorm Wind (G65)
Webster County									
1 SE Marshfield	30	1105CST			0	0			Hail (0.75)
Greene County									
Springfield	30	1335CST			0	0			Thunderstorm Wind (G65)
Greene County									
Springfield	30	1350CST 1530CST			0	0			Flash Flood
A stationary thunderstorm developed directly over the city of Springfield that produced nearly four inches of rain in one hour. Major flash flooding occurred in streets and low lying areas. No fatalities occurred from this event, however, several water rescues had to be performed.									
Greene County									
Springfield	30	1425CST			0	0			Hail (1.00)
Christian County									
2 N Ozark	30	1437CST			0	0			Hail (1.75)
Christian County									
2 N Ozark	30	1440CST			0	0			Hail (0.88)
Greene County									
Springfield	30	1440CST			0	0			Hail (1.00)
Barry County									
Shell Knob	30	1455CST			0	0			Hail (0.75)
Christian County									
1 N Ozark	30	1505CST			0	0			Thunderstorm Wind (G65)
Christian County									
1 N Ozark	30	1535CST 1630CST			0	0			Flash Flood
An amateur radio operator observed several roads north of Ozark that were inundated with flash flood waters.									
Stone County									
Reeds Spg	30	1605CST 1700CST			0	0			Flash Flood
Several roads in the community of Reeds Spring were inundated with flash flood waters from slow moving thunderstorms.									
Miller County									
Eldon	30	1615CST			0	0			Thunderstorm Wind (G65)
Barry County									
Cassville	30	1630CST 1800CST			0	0			Flash Flood
Slow moving thunderstorms produced flash flooding within the city of Cassville. Several low water bridges in the area were also inundated.									
<u>MONTANA, Central</u>									
MTZ008									
Beaverhead									
01		0000MST			0	0			Flood
03		1800MST							
Flooding on the Big Hole River in Beaverhead County continued into early June. The river crested just under 7 feet on June 1st. Flooding occurred along the river, and in the streams feeding into the Big Hole River. Several rural roads were washed out.									
MTZ055									
Gallatin									
01		0000MST			0	0			Flood
02		1800MST							
Flooding continued on the Gallatin River near Logan in early June. The river crested by the early morning hours of June 1st, at 8.3 feet.									
MTZ015									
Madison									
01		0000MST			0	0			Flood
05		1800MST							
Flooding continued through the first week of June for locations near the Jefferson River. Flooding did occur in rural farmland areas. The									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MONTANA, Central</u>									
Glacier County									
6 SW Cutbank	10	1330MST			0	0			Hail (1.75)
A severe thunderstorm produced 1.75 inch hail at Cut Bank 6SW.									
Pondera County									
10 E Dupuyer	10	1345MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Dupuyer 10E.									
Glacier County									
10 SE Cutbank	10	1405MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Cut Bank 10SE.									
Teton County									
7 NE Dutton	10	1500MST			0	0			Hail (1.75)
A severe thunderstorm produced 1.75 inch hail at Dutton 7NE.									
Teton County									
17 E Dutton	10	1520MST			0	0	10K	20K	Hail (0.88)
A severe thunderstorm produced 0.88 inch hail at Dutton 17E. Hail damage occurred to cars, roofs, and crops.									
Chouteau County									
20 NW Carter	10	1535MST			0	0			Hail (1.00)
A severe thunderstorm produced 1.00 inch hail at Carter 20NW.									
Chouteau County									
Carter	10	1617MST			0	0			Hail (0.88)
A severe thunderstorm produced 0.88 inch hail in Carter.									
Chouteau County									
15 N Highwood	10	1630MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Highwood 15N.									
Chouteau County									
15 N Highwood	10	1630MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Highwood 15N.									
Chouteau County									
5 W Shonkin	10	1700MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Shonkin 5W. Hail was 2 inches deep. Tree damage occurred due to strong winds and hail.									
Chouteau County									
7 S Geraldine	10	1745MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Geraldine 7S.									
Cascade County									
2 W Sandcoulee	10	1830MST			0	0			Hail (1.75)
A severe thunderstorm produced 1.75 inch hail at Sand Coulee 2W.									
Cascade County									
Tracy	10	1830MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail in Tracy.									
Cascade County									
Tracy	10	1830MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust in Tracy.									
Fergus County									
16 N Denton	10	1845MST			0	0			Hail (1.00)
A severe thunderstorm produced 1.00 inch hail at Denton 16N.									
Fergus County									
16 N Denton	10	1845MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Denton 16N.									
Cascade County									
3 SW Belt	10	1850MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Belt 3SW.									
Chouteau County									
10 SE Highwood	10	1935MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Highwood 10SE. Numerous tree branches were knocked down.									
Meagher County									
3 NW Martinsdale	15	1535MST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MONTANA, Central</u>									
A severe thunderstorm produced 1.75 inch hail at Martinsdale 3NW.									
Meagher County 3 NW Martinsdale	15	1539MST 1555MST			0	0			Hail (1.00)
A severe thunderstorm produced 1.00 inch hail at Martinsdale 3NW.									
Judith Basin County Windham	15	1629MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail in Windham.									
Fergus County Denton	15	1735MST			0	0			Hail (1.25)
A severe thunderstorm produced 1.25 inch hail in Denton.									
Fergus County 11 NE Denton	15	1805MST			0	0			Hail (1.50)
A severe thunderstorm produced 1.50 inch hail at Denton 11NE.									
Judith Basin County 7 SW Utica	15	2008MST			0	0			Hail (1.00)
A severe thunderstorm produced 1.00 inch hail at Utica 7SW.									
Cascade County 15 SW Cascade	15	2220MST			0	0	1K		Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Cascade 15SW. Some minor crop damage did occur.									
Glacier County 12 WNW Cutbank	18	1615MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Cut Bank 12WNW.									
Toole County 10 SW Shelby	18	1745MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Shelby 10SW.									
Pondera County 13 NE Valier	18	1745MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Valier 13NE.									
Pondera County 14 SE Valier	18	1910MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Valier 14SE.									
Teton County Choteau	19	1520MST			0	0			Hail (1.00)
A severe thunderstorm produced 1.00 inch hail in Choteau.									
Lewis And Clark County 18 SE Augusta	19	1520MST			0	0			Thunderstorm Wind (G50)
A severe thunderstorm produced a 58 mph wind gust at Augusta 18SE.									
Lewis And Clark County 18 SE Augusta	19	1530MST			0	0			Thunderstorm Wind (G53)
A severe thunderstorm produced a 61 mph wind gust at Augusta 18SE.									
Teton County Choteau	19	1540MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail in Choteau.									
Pondera County Valier	19	1545MST			0	0			Hail (1.00)
A severe thunderstorm produced 1.00 inch hail in Valier.									
Cascade County 1 NE Simms	19	1550MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Simms 1NE.									
Cascade County 1 W Ulm	19	1600MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Ulm 1W.									
Cascade County Sun River	19	1600MST			0	0	60K		Thunderstorm Wind (G61)
A severe thunderstorm produced an estimated 70 mph wind gust at Sun River. A mobile home was destroyed.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MONTANA, Central</u>									
Cascade County									
Sandcoulee	19	1600MST 1800MST			0	0	250K		Flash Flood
A severe thunderstorm moved northeast across Central Cascade County during the evening hours of the 19th. One to two inches of rain fell in 30 minutes as the storm moved through. Flash flooding did occur in the towns of Sand Coulee and Tracy. Water flooded 25 homes and left roadways filled with mud and debris.									
Teton County									
7 W Fairfield	19	1605MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Fairfield 7W. Numerous tree branches were knocked down.									
Teton County									
12 NE Power	19	1630MST			0	0			Thunderstorm Wind (G61)
A severe thunderstorm produced a 70 mph wind gust at Power 12NE.									
Cascade County									
Centerville	19	1640MST			0	0			Thunderstorm Wind (G53)
A severe thunderstorm produced a 61 mph wind gust in Centerville.									
Blaine County									
11 S Chinook	19	1815MST			0	0			Thunderstorm Wind (G60)
A severe thunderstorm produced a 69 mph wind gust at Chinook 11S.									
Hill County									
Havre	19	1956MST			0	0			Thunderstorm Wind (G50)
A severe thunderstorm produced a 58 mph wind gust in Havre.									
Blaine County									
Hogeland	19	1958MST			0	0			Thunderstorm Wind (G87)
A severe thunderstorm produced a 100 mph wind gust in Hogeland.									
Lewis And Clark County									
Wolf Creek	20	1045MST			0	0	10K		Thunderstorm Wind (G61)
A severe thunderstorm produced a 70 mph wind gust in Wolf Creek. A gas station sign was blown over and destroyed.									
Teton County									
7 W Fairfield	20	1135MST			0	0			Thunderstorm Wind (G61)
A severe thunderstorm gust resulted in damage to a mobile home and trees.									
Cascade County									
1 N Vaughn	20	1154MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Vaughn 1N.									
Pondera County									
12 SE Conrad	20	1158MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Conrad 12SE.									
Chouteau County									
25 NW Ft Benton	20	1215MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Fort Benton 25NW.									
Pondera County									
Brady	20	1220MST			0	0			Hail (1.00)
A severe thunderstorm produced 1.00 inch hail in Brady.									
Liberty County									
12 S Chester	20	1325MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Chester 12S, breaking a few house windows.									
Judith Basin County									
1 S Geyser	20	1326MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Geyser 1S.									
Hill County									
Inverness	20	1335MST			0	0			Thunderstorm Wind (G66)
A severe thunderstorm produced a 76 mph wind gust in Inverness.									
Hill County									
9 S Gildford	20	1345MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Gildford 9S.									
Hill County									
11 S Havre	20	1345MST			0	0	200K		Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Havre 11S, blowing over a semi trailer.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MONTANA, Central</u>									
Hill County									
12 N Hingham	20	1350MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Hingham 12N.									
Hill County									
Havre	20	1430MST 1440MST			0	0			Hail (1.50)
A severe thunderstorm produced 1.00 to 1.50 inch hail in Havre. Wind gusts to 56 mph were measured in Havre during this storm.									
Blaine County									
15 N Chinook	20	1455MST			0	0			Thunderstorm Wind (G52)
A severe thunderstorm produced a 60 mph wind gust at Chinook 15N. 2 Power poles were knocked down.									
Chouteau County									
6 N Big Sandy	20	1455MST			0	0			Thunderstorm Wind (G69)
A severe thunderstorm produced an 80 mph wind gust at Big Sandy 6N.									
Fergus County									
7 W Suffolk	20	1520MST			0	0			Hail (0.75)
A severe thunderstorm produced 0.75 inch hail at Suffolk 7W.									
<u>MONTANA, East</u>									
Valley County									
3 N Hinsdale	05	1400MST			0	0			Hail (0.75)
Phillips County									
Saco	05	1628MST			0	0			Thunderstorm Wind (G52)
Valley County									
40 SW Glasgow Intl Arpt	05	1751MST			0	0			Thunderstorm Wind (G56)
Prairie County									
8 S Terry	15	1400MST			0	0			Hail (0.75)
Prairie County									
12 SE Terry	15	1430MST			0	0			Hail (1.00)
Petroleum County									
5 N Teigen	19	1545MST			0	0			Hail (0.75)
Petroleum County									
Winnett	19	1710MST			0	0			Hail (0.75)
Petroleum County									
7 SE Winnett	19	1735MST			0	0			Hail (0.88)
Garfield County									
5 SE Jordan	19	2020MST 2027MST			0	0			Hail (0.75)
McCone County									
18 N Circle	20	1430MST			0	0			Hail (1.00)
Richland County									
15 NW Sidney	20	1600MST			0	1			Lightning
A 46 year old man was struck by lightning on a motorcycle on Highway 200 approximately 10 miles west of Sydney. The man was burned on his left shoulder. The lightning exited at the ball of his right foot. He was treated at the hospital and released the next day.									

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Roosevelt County									
15 N Wolf Pt	20	1700MST			0	0			Hail (1.00)
Roosevelt County									
15 N Wolf Pt	20	1700MST			0	0	5K		Thunderstorm Wind (G50)
			Thunderstorm wind gusts blew a shed over and did roof damage to a house.						
Roosevelt County									
15 E Bredette	20	1800MST			0	0			Hail (0.75)
Roosevelt County									
Poplar	20	2119MST			0	0			Thunderstorm Wind (G52)
Valley County									
34 SW Ft Peck	30	1800MST			0	0			Thunderstorm Wind (G52)
Garfield County									
23 NE Jordan	30	1902MST			0	0			Thunderstorm Wind (G52)
McCone County									
30 NNW Brockway	30	1945MST			0	0			Thunderstorm Wind (G52)
Garfield County									
3 W Van Norman	30	2000MST			0	0			Thunderstorm Wind (G52)
Roosevelt County									
4 NW Wolf Pt	30	2015MST			0	0			Hail (0.75)
<u>MONTANA, South</u>									
Musselshell County									
6 NE Musselshell	03	1959MST			0	0			Hail (0.88)
Big Horn County									
1 W Hardin	03	2230MST			0	0			Hail (0.75)
Golden Valley County									
2 N Ryegate	10	1504MST			0	0			Hail (2.00)
Golden Valley County									
6 E Ryegate	10	1528MST			0	0			Hail (0.75)
Fallon County									
25 NW Baker	15	1530MST			0	0			Hail (0.75)
Fallon County									
3 S Plevna	15	1610MST			0	0			Hail (0.75)
Wheatland County									
9 S Harlowton	15	1800MST			0	0			Hail (1.00)
Sweet Grass County									
17 NW Melville	20	1413MST			0	0			Hail (0.75)
Yellowstone County									
Shepherd	20	1720MST			0	0			Hail (0.75)
Yellowstone County									
Shepherd	20	1722MST			0	0			Hail (1.00)
Yellowstone County									
Shepherd	20	1724MST			0	0			Hail (0.88)
			Dime to nickel sized hail almost covering ground						
Yellowstone County									
2 N Shepherd	20	1726MST			0	0			Hail (0.75)
Yellowstone County									
20 E Billings	20	1835MST			0	0			Hail (0.88)
			.88 inch hail near Ballantine						
Carter County									
17 E Alzada	21	2055MST			0	0			Hail (0.75)
Stillwater County									
4 NW Molt	22	1400MST			0	0			Hail (1.00)
Yellowstone County									
3 NW Billings	22	1410MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Yellowstone County									
3 NW Billings	22	1410MST			0	0			Thunderstorm Wind (G60)
Stillwater County									
Molt	22	1420MST			0	0			Hail (0.75)
.75 inch hail covering ground									
Powder River County									
Broadus	22	1450MST			0	0			Hail (0.75)
Powder River County									
Broadus	22	1500MST			0	0			Hail (1.00)
Powder River County									
12 NE Broadus	22	1505MST			0	0			Hail (1.00)
1.00 inch hail covering ground									
Musselshell County									
Delphia	30	1820MST			0	0			Hail (0.75)
<u>MONTANA, West</u>									
MTZ005									
Missoula / Bitterroot Valleys									
01		0000MST			0	0			Flood
03		0630MST							
Minor flooding occurred along the entire reach of the Bitterroot River the first week of June. Warm temperatures melted above normal snow pack, producing flood waters along county roads adjacent to the river as well as fishing access sites. The river crested a foot and half above the flood stage the morning of June 1st.									
Lake County									
5 NW Arlee	10	1435MST			0	0			Thunderstorm Wind (G63)
Lake County									
Pablo	10	1438MST			0	0			Thunderstorm Wind (G52)
Lake County									
1 S Ronan	10	1457MST			0	0			Hail (0.88)
Strong thunderstorm moved through Lake County between 230 PM and 300 PM MST, producing damaging winds and large hail. Near Arlee, a semi truck north bound on highway 93, was blown off the highway. As the storm passed through Pablo, power lines and trees were knocked down. Near Ronan, nickel size hail damaged a home owner's yard.									
Ravalli County									
Conner	19	1250MST			0	0			Hail (1.00)
Ravalli County									
Sula	19	1258MST			0	0			Hail (0.75)
Ravalli County									
3 ENE Sula	19	1300MST			0	0			Thunderstorm Wind (G52)
Missoula County									
8 W Missoula	19	1340MST			0	0			Hail (0.75)
Missoula County									
5 NW Missoula	19	1350MST			0	0			Hail (1.75)
Missoula County									
12 NNW Missoula	19	1355MST			0	0	30K		Thunderstorm Wind (G60)
Missoula County									
5 SE Missoula	19	1430MST			0	0			Lightning
Missoula County									
Seeley Lake	19	1440MST			0	0			Thunderstorm Wind (G52)
Strong thunderstorms moved through Ravalli and Missoula Counties between 1250 PM and 240 PM MST, producing large hail and damaging winds. In southern Ravalli County near Sula and Conner, thunderstorms produced three quarter to one inch diameter hail and large branches were blown off a willow tree. Northwest of Missoula near the Wye, a severe thunderstorm produced golf ball size hail, which damaged the Kinderhaus Montessori School's pizza garden. As the storm traveled north over Evaro Hill, it blew a roof off a home which also damaged a parked vehicle. Crop damage was also reported from hail. A Pattee Canyon house was severely damaged from a lightning caused fire. Near Seeley Lake, strong thunderstorm winds blew down trees, which fell onto a home.									
<u>NEBRASKA, Central</u>									
Keya Paha County									
11 NNW Springview	09	1615CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
<u>NEBRASKA, Central</u>									
Keya Paha County									
2 W Burton	09	1630CST			0	0			Hail (0.75)
Custer County									
6 NW Merna	09	1655CST			0	0			Hail (0.75)
Keya Paha County									
10 S Mills	09	1658CST 1700CST	0.1	20	0	0			Tornado (F0)
The tornado touched down briefly in an open field.									
Keya Paha County									
24 E Springview	09	1700CST			0	0	5K		Hail (1.75)
Custer County									
12 N Broken Bow	09	1740CST			0	0	1K	2K	Hail (1.25)
Custer County									
12 N Broken Bow	09	1750CST			0	0	3K	1K	Hail (1.75)
Custer County									
5 W Sargent to 5 WSW Sargent	09	1759CST 1810CST	0.1	10	0	0			Tornado (F0)
The tornado touched down briefly in an open pasture.									
Holt County									
6 NNW Stuart to 7 NNE Stuart	09	1805CST 1814CST	2	30	0	0	5K		Tornado (F0)
The tornado snapped off mature trees and broke numerous large branches as it touched down in an open field. As the tornado then moved across a county road, it broke off several power poles. The tornado again damaged and uprooted trees in a small shelter belt as it moved east of the county road.									
Holt County									
6 ENE Atkinson	09	1812CST	0.5	20	0	0	25K		Tornado (F0)
The tornado broke power poles and mature trees, damaged a house roof on a farmstead, and moved a detached garage off of its foundation.									
Custer County									
4 SW Sargent	09	1820CST	0.1	10	0	0			Tornado (F0)
The tornado made a brief touchdown in an open pasture.									
Holt County									
4 N Emmet to 2 N Page	09	1830CST 1930CST	23	880	0	0	5.7M	1.3M	Tornado (F3)
As the tornado initially touched down, it encountered a farmstead and destroyed three barns, a detached garage, and 3 large metal grain binds, and also ripped off a portion of the house roof, broke windows, and uprooted and snapped off 90% of the trees around the farmstead. As the tornado moved southeast, it hit two more farmsteads where it completely overturned a modular home, destroyed barns, snapped off nearly all trees. Further along the path to the southeast, the tornado threw farm machinery one quarter mile into a grove of trees. Then it hit another farm where it ripped off an attached garage on a house, broke most windows in the house, moved an old home off its foundation 2 feet, and killed one cow and extensively injured 14 other cows. A barn was also destroyed at a dairy farm across the road to the southeast. The tornado then moved southeast mainly across farmland destroying fields of corn and soybeans, overturning 200 hundred center pivot irrigation systems, snapping off 1,000 power poles, and breaking off numerous large trees. As the tornado passed 3 miles north of O'Neill, it destroyed storage sheds at numerous homesteads. Baseball size hail associated with the storm punctured holes in vinyl siding and broke windows and skylights in homes. Finally just before dissipating 2 miles north of Page, the tornado lifted the front porch on a home which then took off the roof and one exterior wall of the home.									
Holt County									
6 NE Emmet	09	1835CST	0.1	20	0	0	5K		Tornado (F0)
This tornado snapped off numerous trees and power poles as it moved east-southeast.									
Custer County									
2 NW Comstock to 2 NE Comstock	09	1840CST 1858CST	4	580	0	0	25K	10K	Tornado (F1)
The tornado touched down in an open field and then moved east through a corn field overturning a pivot irrigation system and snapping off hundreds of large tree limbs in the adjacent shelter belt. The tornado also destroyed a barn and grain bins at a nearby farm. The tornado then crossed the county road just 2 miles north of Comstock and destroyed another barn, overturned another pivot irrigation system, and broke off several power poles. As the tornado continued to move east, it broke off and uprooted numerous trees. Baseball size hail associated with the storm broke many windows in homes near the path of the tornado and also in the town of Comstock.									
Custer County									
4 NE Ansley to 8 NE Ansley	09	1930CST 1935CST			0	0	4K		Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

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

NEBRASKA, Central

Lincoln County									
North Platte	09	2015CST			0	0	14K		Lightning
	Lightning struck a tree on the west side of North Platte. The tree fell on the roof of a house and a parked car damaging both.								
Perkins County									
12 NW Grant	11	1510MST			0	0			Hail (0.75)
Lincoln County									
2 E North Platte	11	1653CST			0	0			Hail (1.00)
Cherry County									
45 SSW Merriman	11	1704CST			0	0			Hail (1.00)
Rock County									
Bassett	11	1718CST			0	0	40K	3K	Hail (1.75)
Lincoln County									
6 S Brady	11	1733CST			0	0			Hail (0.88)
Lincoln County									
7 E Brady	11	1805CST			0	0			Hail (0.88)
Rock County									
9 NNE Rose	11	1832CST	0.1	10	0	0			Tornado (F0)
	The tornado touched down in an open pasture.								
Rock County									
12 NE Rose	11	1838CST			0	0			Hail (1.00)
Blaine County									
15 NNW Brewster	11	1840CST	0.1	10	0	0			Tornado (F0)
		1842CST							
	There was a brief tornado touchdown in an open field.								
Blaine County									
5 NE Brewster	11	1844CST			0	0			Hail (1.00)
Brown County									
30 S Ainsworth	11	1855CST			0	0			Hail (0.88)
Rock County									
6 E Bassett	11	1857CST	0.1	10	0	0			Tornado (F0)
		1900CST							
	The tornado touched down in an open field.								
Frontier County									
20 WSW Stockville	11	1913CST			0	0			Hail (0.75)
Frontier County									
17 SW Stockville	11	1920CST			0	0			Hail (0.88)
Rock County									
3 SE Bassett to 3 E Bassett	11	1920CST			0	0	20K	20K	Hail (1.75)
Brown County									
22 S Ainsworth	11	1925CST			0	0			Hail (0.88)
Rock County									
10 NE Rose	11	1934CST			0	0			Hail (0.88)
Rock County									
32 SSE Bassett	11	1937CST	0.2	10	0	0			Tornado (F0)
	The tornado made a brief touchdown in open rangeland.								
Custer County									
6 SSW Anselmo	12	1830CST			0	0	2K		Hail (1.00)
Custer County									
13 NW Anselmo	12	1905CST			0	0	2K		Hail (1.00)
Blaine County									
10 NE Dunning	12	1930CST			0	0	5K	5K	Hail (1.75)
Blaine County									
3 SE Dunning	12	1931CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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, Central</u>									
Garden County									
Oshkosh	12	2134MST			0	0	10K		Hail (1.00)
Lincoln County									
1 N Wallace	13	0336CST 0600CST			0	0	1K	15K	Flash Flood
Water accumulated from slow moving storms and caused Highway 25 to be flooded by three feet of water.									
Arthur County									
10 NW Arthur	14	1640MST			0	0	5K		Hail (1.75)
Brown County									
8 N Ainsworth	16	1315CST			0	0			Hail (0.88)
Perkins County									
6 NW Madrid	20	1640MST			0	0			Thunderstorm Wind (G52)
Keith County									
5 SW Ogallala	20	1726MST			0	0			Hail (0.75)
Deuel County									
10 N Big Spgs	20	1730MST			0	0	5K	10K	Hail (1.00)
Deuel County									
10 N Big Spgs	20	1730MST			0	0			Thunderstorm Wind (G52)
Chase County									
8 NE Lamar	20	1750MST			0	0		5K	Thunderstorm Wind (G61)
The winds broke off large tree limbs at a farmstead.									
Keith County									
5 ENE Brule	20	1755MST			0	0			Thunderstorm Wind (G52)
Sheridan County									
3 E Lakeside	20	1800MST			0	0			Hail (0.75)
Deuel County									
4 W Big Spgs	20	1808MST			0	0			Thunderstorm Wind (G56)
Garden County									
12 SW Oshkosh	20	1816MST 1818MST	0.1	10	0	0			Tornado (F0)
The tornado made a brief touchdown in open rangeland.									
Keith County									
8 NW Ogallala	20	1827MST			0	0			Hail (0.75)
Garden County									
6 NW Lewellen to 7 NNW Lewellen	20	1828MST 1830MST	1.5	100	0	0	100K	8K	Tornado (F2)
The tornado touched down near the North Platte River and destroyed an old barn and snapped off trees before moving north across Highway 26 and taking down power poles. After moving across the highway, it destroyed three outbuildings, three grain bins, a large machine shed, and a two car detached garage and broke off numerous large trees at a farmstead. It continued to move north-northeast and destroyed three wind mills and three center pivot irrigation systems and threw 1/2 ton hay bales one quarter mile into a corn field.									
Chase County									
2 N Lamar	20	1830MST			0	0		10K	Thunderstorm Wind (G56)
Deuel County									
11 NW Big Spgs	20	1830MST	0.1	10	0	0			Tornado (F0)
A weak tornado made a brief touchdown in an open field.									
Garden County									
5 NW Lewellen	20	1830MST	0.2	20	0	0	5K	3K	Tornado (F0)
The tornado touched down in a corn field on the north side of Highway 26. An outbuilding from a farmstead to the south of the touchdown area was shifted off its foundation. Also, the front deck of a home to the northeast received minor damage.									
Garden County									
2 E Lewellen	20	1840MST	0.1	10	0	0	80K		Tornado (F0)
A tornado touched down briefly just to the south of railroad tracks near State Highway 92. As the tornado touched down, it destroyed a grain bin at a local farmstead, broke off a power pole near the railroad tracks, and picked up hay bales that were near to the railroad tracks. The tornado and the debris hit the side of a westbound Union Pacific train and caused 22 empty coal cars to derail. Debris from the hay bales and grain bin were carried north-northeast across State Highway 92 and into an open pasture.									
Chase County									
6 SSE Lamar	20	2010MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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, Central</u>									
Keya Paha County									
22 WNW Springview	21	1930CST			0	0			Thunderstorm Wind (G52)
Brown County									
3 W Ainsworth	21	2210CST			0	0			Thunderstorm Wind (G50)
Brown County									
Ainsworth	21	2305CST			0	0			Thunderstorm Wind (G50)
A large tree was uprooted from the wind.									
Keya Paha County									
West Portion	22	0100CST 0300CST			0	0	30K		Flash Flood
Two paved county roads, Norden Road and Old Melch Road, south and southwest of Norden, respectively, were washed out.									
Cherry County									
Valentine	22	0110CST 0300CST			0	0	3K		Flash Flood
Numerous streets were under water.									
Custer County									
5 N Mason City	23	0400CST			0	0			Hail (0.88)
Custer County									
5 E Arnold	23	0515CST			0	0	4K	10K	Hail (1.75)
Blaine County									
6 ESE Brewster	23	0610CST			0	0			Hail (0.75)
Rock County									
6 SW Rose	23	0635CST			0	0			Hail (0.88)
Loup County									
12 NNE Taylor	23	0654CST			0	0			Hail (1.00)
Blaine County									
6 ENE Brewster	23	0700CST			0	0			Hail (0.88)
Brown County									
31 S Johnstown	23	0707CST			0	0			Hail (0.75)
Holt County									
O Neill	23	0849CST			0	0			Hail (1.00)
Holt County									
1 E Emmet	23	0905CST			0	0			Hail (0.75)
Holt County									
4 NW Atkinson	23	0910CST			0	0			Hail (0.75)
Holt County									
8 NW O Neill to 8 NNW O Neill	23	0915CST 0918CST			0	0	6K	15K	Hail (1.75)
Boyd County									
1 E Gross	23	1028CST			0	0			Hail (1.00)
Holt County									
6 WNW Inman	23	1915CST			0	0	5K	10K	Hail (1.75)
Holt County									
6 WNW Inman	23	1915CST			0	0	2K	5K	Thunderstorm Wind (G52)
A large tree was uprooted with the storm.									
Holt County									
5 SE O Neill	23	1930CST			0	0	20K	30K	Hail (3.00)
Holt County									
8 E O Neill	23	1940CST			0	0	15K	25K	Hail (1.75)
Chase County									
Enders to 6 SSE Enders	23	2002MST 2010MST			0	0			Hail (1.00)
Frontier County									
16 SE Stockville	23	2010CST			0	0	5K	10K	Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

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, Central</u>									
Frontier County									
Stockville	23	2100CST			0	0			Hail (1.00)
Hayes County									
5 E Hayes Center to 7 E Hayes Center	23	2100CST 2105CST			0	0			Hail (0.88)
Hayes County									
5 NE Hayes Center	23	2115CST			0	0			Hail (0.75)
Frontier County									
Curtis	23	2116CST			0	0	5K		Thunderstorm Wind (G61)
There was significant tree damage from the storm.									
Frontier County									
18 SW Stockville	23	2121CST	0.1	10	0	0	5K		Tornado (F0)
The tornado made a brief touchdown which snapped off a couple of power poles.									
Custer County									
2 E Mason City	23	2130CST			0	0			Hail (0.88)
Custer County									
2 E Mason City	23	2130CST			0	0	5K	10K	Thunderstorm Wind (G52)
The winds broke off numerous large tree limbs and sheared off the tops of trees. Shingles were also torn off homes in the area.									
Perkins County									
8 SSE Elsie	23	2130CST			0	0			Hail (1.00)
Hayes County									
9 ENE Hayes Center	23	2134CST			0	0	3K	15K	Hail (1.25)
Custer County									
Mason City	23	2205CST			0	0			Hail (0.88)
Custer County									
Mason City	23	2205CST			0	0	3K	5K	Thunderstorm Wind (G61)
There were numerous large tree limbs knocked down by the wind.									
Garden County									
Mumper	23	2215MST			0	0			Hail (0.88)
Holt County									
O Neill	23	2220CST			0	0			Hail (0.75)
Holt County									
O Neill	23	2220CST			0	0	10K		Lightning
The lightning struck the Holt County Courthouse which then took out the law enforcement radios for a period of time.									
Garfield County									
19 N Burwell	23	2245CST			0	0			Thunderstorm Wind (G61)
The wind broke off tree tops.									
Logan County									
16 NE Stapleton	23	2300CST			0	0			Hail (0.75)
Sheridan County									
20 NNE Ellsworth	23	2300MST			0	0			Hail (1.00)
Holt County									
6 WSW Atkinson	23	2315CST			0	0			Hail (0.75)
Keya Paha County									
18 WNW Springview	24	0000CST			0	0			Hail (1.00)
Sheridan County									
11 N Antioch	24	0000MST			0	0	10K		Thunderstorm Wind (G61)
The winds broke off a ten inch diameter tree limb which fell on a house damaging the roof. A skylight in the house was also broken from wind blown hail.									
Cherry County									
Valentine	24	0145CST 0330CST			0	0			Flash Flood
Slow moving thunderstorms produced street flooding around the town.									
Chase County									
3 N Wauneta	24	1545MST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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, Central</u>									
Lincoln County									
1 NW Wellfleet	24	1610CST			0	0	5K	5K	Hail (1.75)
Lincoln County									
12 S North Platte	24	1630CST			0	0			Hail (0.88)
Lincoln County									
1 S North Platte to 2 S North Platte	24	1633CST 1635CST			0	0	10K		Hail (1.00)
Chase County									
Wauneta	24	1635MST			0	0	15K	30K	Hail (1.75)
Lincoln County									
North Platte	24	1640CST			0	0	15K		Hail (1.50)
Hayes County									
4 NW Hamlet	24	1648CST			0	0			Hail (0.75)
Hayes County									
5 WNW Hamlet	24	1702CST			0	0	3K	30K	Hail (1.75)
Lincoln County									
North Platte	24	1705CST			0	0			Hail (0.75)
Wind gusts to 55 mph also occurred with the storm.									
Logan County									
5 W Stapleton	24	1708CST			0	0	2K	3K	Hail (1.75)
Lincoln County									
5 S North Platte	24	1710CST			0	0	5K		Hail (1.25)
Lincoln County									
2 E North Platte	24	1710CST			0	0	5K		Hail (1.25)
Lincoln County									
6 NNE Maxwell	24	1744CST	0.1	10	0	0			Tornado (F0)
A supercell moved across the area and produced a weak tornado that briefly touched down in open rangeland.									
Thomas County									
10 S Thedford	24	1744CST			0	0	2K		Hail (2.00)
Custer County									
8 SSW Arnold to 7 SSE Arnold	24	1800CST 1805CST	2	30	0	0	50K	25K	Tornado (F0)
A long lived supercell that moved from south central Lincoln County to northeast Lincoln County produced a tornado in Lincoln County near the Lincoln and Custer County line which then moved into Custer County. After entering Custer County, storm chasers and ranchers watched the tornado as it moved through corn fields and destroyed 2 center pivot irrigation systems.									
Lincoln County									
19 NNE Brady	24	1800CST	0.1	30	0	0			Tornado (F0)
A long lived supercell that moved from south central Lincoln County to northeast Lincoln County produced a tornado in open rangeland in northeast Lincoln County near the Lincoln and Custer County line. After touching down, the tornado then moved into Custer County producing damage to 2 center pivot irrigation systems as it moved across corn fields.									
Lincoln County									
14 S Maxwell	24	1810CST	0.1	10	0	0	50K		Tornado (F0)
A supercell produced a weak tornado that hit a farmstead shifting the garage off its foundation and damaging one wall of the garage, tearing off a small section of the house roof, breaking large limbs off surrounding trees, and lifting a nearby camper and throwing it into a fence.									
Blaine County									
Brewster	24	1835CST			0	0	10K		Hail (1.25)
Brown County									
17 S Ainsworth	24	1835CST			0	0			Hail (0.75)
Lincoln County									
21 N Maxwell	24	1837CST			0	0			Hail (0.88)
Logan County									
6 S Stapleton	24	1837CST			0	0			Hail (0.88)
Rock County									
Bassett	24	1840CST			0	0			Thunderstorm Wind (G52)
The storm knocked down large tree limbs around town.									

Storm Data and Unusual Weather Phenomena

June 2003

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, Central</u>									
Rock County									
5 S Newport	24	1842CST			0	0			Hail (1.00)
Brown County									
6 S Ainsworth	24	1843CST			0	0			Hail (0.88)
Boyd County									
5 SE Naper	24	1845CST			0	0			Hail (0.88)
Rock County									
9 S Bassett	24	1848CST			0	0			Thunderstorm Wind (G61)
The winds broke off several large tree branches.									
Brown County									
25 S Johnstown	24	1854CST			0	0			Hail (0.88)
Hayes County									
8 N Hayes Center	24	1900CST			0	0			Hail (0.75)
Rock County									
4 N Rose	24	1904CST	0.1	20	0	0			Tornado (F0)
A weak tornado touched down in open rangeland.									
Custer County									
1 NE Arnold	24	1905CST			0	0			Hail (0.75)
Lincoln County									
7 NE Wellfleet	24	1905CST			0	0	2K	3K	Hail (1.50)
Rock County									
Newport to 12 N Newport	24	1905CST			0	0	15K		Thunderstorm Wind (G65)
Outflow from thunderstorms broke off large tree branches and destroyed an old barn.									
Rock County									
8 S Bassett	24	1925CST	0.1	10	0	0			Tornado (F0)
A weak tornado broke large branches off trees. Some of the branches were found hanging from a nearby power line.									
Lincoln County									
7 SW Wellfleet	24	1935CST			0	0	3K	15K	Hail (1.75)
Keya Paha County									
3 E Mills	24	1948CST	0.1	20	0	0	30K	15K	Tornado (F0)
A tornado moved across a farmstead and produced major damage to a mechanics shop, a garage, and a grain bin. Numerous mature trees were also snapped off or uprooted.									
Hayes County									
10 E Hayes Center	24	2005CST	0.1	10	0	0			Tornado (F0)
The tornado touched down in open rangeland.									
Frontier County									
3 W Maywood	24	2020CST			0	0	5K	20K	Hail (1.50)
Holt County									
Swan Lake	24	2030CST			0	0			Thunderstorm Wind (G52)
Holt County									
8 SW Amelia	24	2039CST			0	0			Thunderstorm Wind (G52)
Holt County									
2 E Atkinson	24	2045CST			0	0	7K		Thunderstorm Wind (G65)
Wind gusts from thunderstorms broke windows in homes and snapped off numerous large tree limbs.									
Custer County									
3 S Oconto to Oconto	24	2055CST 2100CST			0	0	30K		Thunderstorm Wind (G52)
Thunderstorm winds snapped off numerous large tree limbs. Four homes sustained damage from falling trees.									
Frontier County									
North Central Portion	24	2100CST 2300CST			0	0	20K	25K	Flash Flood
Runoff from thunderstorms that kept redeveloping over the area combined with flood waters rushing into the area from upstream in southeast Lincoln County to cause flash flood conditions in the Wells Canyon area, 5 miles north-northwest of Curtis, and in the Fox Creek area. A 25 feet wide by 8 feet deep portion of a rural road was washed away in the Wells Canyon area. Fox Creek, from Moorefield through Curtis, overflowed its banks significantly as water rushed into it from upstream.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEBRASKA, Central</u>									
Lincoln County									
Southeast Portion	24	2100CST 2300CST			0	0	2K	15K	Flash Flood
									Thunderstorms that kept developing over the area caused normally dry creeks and low lying areas to fill with water. Water up to 2 feet deep in some locations flowed over rural roads.
Holt County									
O Neill	24	2110CST			0	0			Thunderstorm Wind (G56)
									Numerous trees were uprooted or snapped off by the thunderstorm outflow winds.
Holt County									
1 E Emmet	24	2112CST			0	0			Hail (0.75)
Frontier County									
Curtis	24	2130CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds knocked down large tree limbs through town.
Loup County									
2 N Taylor	24	2130CST	0.1	10	0	0			Tornado (F0)
									The tornado touched down briefly in open rangeland.
Frontier County									
Stockville	24	2150CST			0	0			Thunderstorm Wind (G52)
									Outflow from thunderstorms broke off large tree limbs.
Rock County									
10 SE Bassett	24	2152CST	0.1	20	0	0			Tornado (F0)
									The tornado made a brief touchdown over open rangeland.
Frontier County									
Stockville	24	2200CST			0	0	8K		Lightning
									Lightning struck a tree near the Frontier County Courthouse and blew the tree apart. A 12 foot section of the tree was thrown 67 feet where 2 feet of it stuck in the ground. The lightning strike also knocked out the computer system in the courthouse.
Frontier County									
Eustis	24	2210CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm outflow broke off several large tree limbs.
Deuel County									
1 E Chappell to 4 NE Chappell	28	1710MST			0	0			Hail (1.00)
Chase County									
19 WSW Imperial	28	1920MST			0	0			Hail (0.75)
Chase County									
Wauneta	28	1940MST			0	0			Thunderstorm Wind (G52)
Cherry County									
Eli	30	2115CST			0	0	20K	5K	Hail (1.75)
									Golf ball size hail covered the ground.
Cherry County									
Eli	30	2125CST			0	0	8K	3K	Hail (1.25)
<u>NEBRASKA, East</u>									
Knox County									
Santee	09	1702CST			0	0			Hail (0.75)
Cedar County									
4 W Belden	09	1708CST			0	0			Hail (0.75)
Cedar County									
6 NW Fordyce	09	1710CST 1715CST			0	0			Hail (0.88)
									Hail up to nickel size fell for around 5 minutes near the Knox county border northwest of Fordyce.
Knox County									
Santee	09	1718CST 1721CST			0	0			Hail (1.75)
Cedar County									
Belden	09	1728CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEBRASKA, East</u>									
Knox County									
1 NE Lindy	09	1730CST	0.1	40	0	0			Tornado (F0)
A brief touchdown of a small tornado was reported by law enforcement officials near Lindy.									
Knox County									
Bloomfield	09	1740CST			0	0			Thunderstorm Wind (G55)
Thunderstorm wind gusts estimated at over 60 mph downed large tree limbs and power lines in town.									
Cedar County									
Coleridge	09	1749CST			0	0			Hail (2.00)
Hail up to 2 inches in diameter caused vehicle and siding damage in town.									
Cedar County									
6 W Obert	09	1813CST			0	0			Hail (1.75)
Knox County									
Santee	09	1817CST			0	0			Hail (0.75)
Knox County									
4 W Crofton	09	1828CST			0	0			Hail (1.00)
Heavy rain was also reported with the hail with 2.5 inches falling in 60 minutes.									
Cedar County									
Wynot	09	1830CST 1850CST			0	0			Hail (0.75)
Hail slightly larger than dime size fell for 20 minutes in Wynot, which also reported 3 inches of rain in a 90 minute period.									
Cedar County									
Hartington	09	1832CST 1850CST			0	0			Hail (1.75)
The hail damaged cars in town and also drifted like snow.									
Cedar County									
6 SE Hartington	09	1837CST	0	40	0	0			Tornado (F0)
A brief touchdown of a tornado in an open field southeast of Hartington was reported by law enforcement personnel.									
Cedar County									
Obert	09	1838CST			0	0			Hail (1.75)
Damage to cars due to golfball size hail was reported in town.									
Cedar County									
Hartington to Belden	09	1900CST 2330CST			0	0			Flash Flood
Heavy rain caused flash flooding of many county roads in Cedar county, mainly between Hartington and Belden. Water also briefly crossed, and caused the temporary closure of Highway 20 west of Laurel, Highway 57 south of Hartington and Highway 15 north of Laurel. Several county road culverts had to be replaced, and one county road 1/2 mile east of the junction of 571 Ave and 879 road was washed out. Rainfall amounts included 3.5 inches 5 miles north of Laurel, 3.1 inches at Wynot and 2.5 inches at Hartington, all falling in around a 2 hour period.									
Cedar County									
Coleridge	09	1915CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds estimated at around 60 mph downed power lines in town.									
Cedar County									
Laurel	09	1918CST			0	0			Thunderstorm Wind (G50)
Thunderstorm wind gusts estimated at around 60 mph broke branches off of trees in Laurel.									
Antelope County									
Orchard	09	1930CST			0	0			Hail (1.75)
Thurston County									
Pender	09 10	1930CST 0030CST			0	0			Flash Flood
Heavy rainfall caused flash flooding of streets and small creeks in and near Pender with some roads briefly closed. Radar estimated that rainfall totals around Pender were in the 3 to 5 inch range over a several hour period during the late evening hours of June 9th.									
Thurston County									
Emerson to 2 S Emerson	09	1935CST 1945CST			0	0			Thunderstorm Wind (G60)
Thunderstorm wind gusts estimated at 70 mph downed large trees and power lines from Emerson to just south of town. A local newspaper stated that "not a yard or street was spared" from the debris, and fallen trees closed Highway 9 for a while. The fallen trees also caused damage to several houses in the area.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEBRASKA, East</u>									
Thurston County									
12 WNW Thurston	09	1935CST			0	0			Thunderstorm Wind (G60) Thunderstorm wind gusts estimated at 70 mph blew down a few center pivots, grain bins and trees northwest of Thurston. A few outbuildings were also damaged.
Antelope County									
1 SW Orchard to 4 N Orchard	09	1943CST 1949CST	5	100	0	0			Tornado (F0) A tornado destroyed a small farm outbuilding 4 miles north of Orchard. The tornado caused other minor outbuilding and tree damage along a path from just southwest of Orchard to around 4 miles north of town.
Thurston County									
Winnebago	09	2010CST			0	0			Hail (0.88) Hail up to nickel size was accompanied by very heavy rain which reduced the visibility down to zero for a while.
Thurston County									
Thurston	09	2030CST			0	0			Hail (0.88)
Thurston County									
Thurston	09	2030CST			0	0			Thunderstorm Wind (G55) Thunderstorm wind gusts estimated at 65 mph downed power lines and arm size in diameter tree limbs in Thurston. The winds were accompanied by nickel size hail.
Burt County									
Decatur	09	2035CST			0	0			Hail (0.75)
Boone County									
Cedar Rapids	09	2040CST			0	0			Thunderstorm Wind (G50) Thunderstorm wind gusts estimated at around 60 mph caused tree damage in town.
Thurston County									
Pender	09	2100CST			0	0			Hail (1.00) The large hail was accompanied by thunderstorm wind gusts estimated at 60 mph.
Thurston County									
Pender to 5 NE Pender	09	2100CST			0	0			Thunderstorm Wind (G50) Thunderstorm wind gusts estimated at around 60 mph downed some large tree limbs and power lines in town. A house northeast of town received major damage when a tree fell on it.
Wayne County									
East Portion	09	2100CST 2330CST			0	0			Flash Flood Heavy rain caused flash flooding of county roads in parts of Wayne county during the evening hours of June 9, mainly east of Wayne.
Platte County									
4 E Duncan	09	2110CST			0	0			Hail (0.88)
Butler County									
4 NW Rising City	09	2135CST			0	1			Thunderstorm Wind (G60) Thunderstorm wind gusts estimated at 70 mph downed power poles and trees northwest of Rising City. The winds flipped a semi-tractor trailer hauling playground equipment near the junction of highways 92 and 81 causing minor injuries to a passenger. Around 1600 customers lost power in Butler county due to downed power lines.
Butler County									
Dwight	09	2142CST			0	0			Thunderstorm Wind (G50) Thunderstorm winds estimated at around 60 mph downed trees in Dwight.
Seward County									
Seward	09	2144CST			0	0			Hail (0.75)
Lancaster County									
Lincoln	09	2215CST			0	0			Thunderstorm Wind (G50) Thunderstorm wind gusts estimated at around 60 mph downed a few tree branches and power lines in town.
Lancaster County									
Hickman to Panama	09 10	2300CST 0200CST			0	0			Flash Flood Rainfall of 3.5 to 4.5 inches in the southeast part of Lancaster county caused some flash flooding from around Hickman toward Panama. Upper Salt Creek flooded the city park in Hickman and a few county roads in the area.
Lancaster County									
Lincoln	09	2319CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEBRASKA, East</u>									
Lancaster County									
Panama	09	2354CST			0	0			Hail (0.75)
Nemaha County									
1 SE Julian	10	0010CST			0	0			Thunderstorm Wind (G50)
Thunderstorm wind gusts estimated at 60 mph caused wind damage to several trees near Julian.									
Butler County									
3 S Bruno	17	1428CST			0	0			Hail (0.75)
Lancaster County									
4 NE Davey	18	1400CST			0	0			Thunderstorm Wind (G50)
Thunderstorm wind gusts estimated at around 60 mph broke off some tree limbs near Davey.									
Lancaster County									
2 NE Raymond to Raymond	18	1420CST			0	0			Hail (0.75)
Hail up to 3/4 inch was reported in and near Raymond.									
Sarpy County									
Papillion	22	1005CST			0	0			Hail (0.75)
Nemaha County									
Johnson	22	1215CST			0	0			Hail (0.75)
Nemaha County									
4 N Johnson	22	1215CST			0	0	6K		Thunderstorm Wind (G50)
Thunderstorm wind gusts estimated at around 60 mph broke a 22 inch in diameter tree off and blew it through the roof of a trailer house.									
Lancaster County									
Lincoln	22	2155CST			0	0			Hail (0.75)
Reported near Yankee Hill Rd and South 25th Street.									
Lancaster County									
2 W Davey	22	2217CST			0	0			Hail (0.75)
Lancaster County									
5 W Waverly	22	2219CST			0	0			Hail (0.75)
Lancaster County									
Lincoln to 3 E Lincoln	22	2222CST 2225CST			0	0			Hail (0.75)
Hail around 3/4 inches in diameter was reported at several places in and near north Lincoln including 48th and Havelock and 162nd and Adams.									
Johnson County									
Elk Creek	23	0000CST			0	0			Thunderstorm Wind (G50)
Thunderstorm wind gusts estimated at 60 mph broke a large tree limb which fell on a roof causing damage in town.									
NEZ015-031-033>034-043>045-050>053-065>068									
Thurston - Madison - Cuming - Burt - Colfax - Dodge - Washington - Butler - Saunders - Douglas - Sarpy - Seward - Lancaster - Cass - Otoe									
	23	0000CST 0245CST			0	0			High Wind (G50)
Sustained winds of 30 to 40 mph with occasional gusts of 50 mph or even isolated wind gusts of 60 mph occurred over a large part of east central Nebraska and western Iowa during the very early morning hours on June 23. Although thunderstorms moved across much of this same area prior to the onset of the winds, the winds occurred relatively far removed from the thunderstorms and were probably due a large part from other factors like the current surface gradient.									
The winds caused sporadic damage, such as downing several trees and signs. Some relatively minor building damage was also observed. OPPD reported that 5000 customers in east central Nebraska lost their power at the height of the storm. Other power companies over the region reported smaller outages. Overall, however, the damage was generally not too widespread nor too severe.									
Although higher wind gusts were estimated to have occurred across these counties, the highest measured wind gusts included 45 mph at Tekamah and Fremont, 43 mph at Lincoln and 40 mph at Omaha Eppley-Airfield. This was on top of sustained winds in the 30 to 40 mph range. These strong winds lasted around 3 hours.									
Richardson County									
Humboldt	23	0010CST			0	0			Thunderstorm Wind (G50)
A thunderstorm wind gust estimated at around 60 mph caused some tree damage in town.									

Storm Data and Unusual Weather Phenomena

June 2003

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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NEBRASKA, East

NEZ088

Jefferson

23	0500CST				0	0	137.9K		Flood
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24	1600CST								
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Rainfall of 3 to 4 inches fell over most of Jefferson county from June 22 into June 23 with Fairbury reporting 3.34 inches on the 23rd. Just to the west of Jefferson county, in the Little Blue basin, a nearly stationary supercell dropped, by some estimates, a foot of rain during the night of the 22nd and morning of the 23rd. The heavy rainfall caused the Little Blue River to flood around the Fairbury area. Water backed up into the business district in town causing some damage. Flood waters also closed a 2 mile stretch of Highway 15 and a 30 mile stretch of highway 8 west of Fairbury. The flooding also halted the Union Pacific Railroad operations near town when the track flooded. The Little Blue at Fairbury first went over its 15 foot flood stage at 600 am cdt on 6/23/03 and didn't drop back below its flood stage until 500 pm on the 24th. The river crested at 21.4 feet shortly after midnight on the 24th.

Fema declared Jefferson county eligible for federal disaster assistance.

Pierce County

Osmond

23	1912CST				0	0			Thunderstorm Wind (G50)
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Thunderstorm winds estimated at around 60 mph downed large tree branches in Osmond.

Knox County

Bloomfield

23	1940CST				0	0			Hail (0.75)
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Antelope County

2 N Royal

23	2000CST	0	20		0	0			Tornado (F0)
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A trained weather spotter reported a brief touchdown of a tornado in open country near Royal.

Cedar County

Fordyce

23	2001CST 2010CST				0	0			Hail (2.00)
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Hail up to 2 inches in diameter was reported in Fordyce.

Knox County

Creighton

23	2030CST				0	0			Thunderstorm Wind (G55)
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Thunderstorm wind gusts estimated at over 60 mph downed a few trees and power lines in Creighton.

Knox County

Wausa

23	2035CST				0	0			Thunderstorm Wind (G50)
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Thunderstorm winds gusts estimated at 60 mph caused wind damage in town, mainly because of large tree branches breaking.

Platte County

3 S Duncan to 2 S Duncan

23	2038CST 2040CST				0	0			Hail (1.00)
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Cedar County

6 W Coleridge to 7 ENE Coleridge

23	2043CST 2058CST	13	1200		1	0	3.7M		Tornado (F4)
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An eventual f4 tornado began its destructive path around 6 miles southwest of Coleridge. The tornado moved northeast and crossed the northern sections of the city uprooting trees, downing power lines and destroying a couple of grain bins. A construction business in a garage was also destroyed. The tornado then continued northeast of town hitting a large hog farm. At this farm a 70-year-old man was killed while in a storage shed when a tractor that was flipped by the winds crushed him. Many livestock were also killed by debris or flung through the air by the deadly winds. In one case cattle were carried over a mile then left dead in a pile. The tornado then widened to around 3/4 of a mile, reaching its maximum intensity. Numerous vehicles were tossed at this location and a complete farmstead was flattened. Trees were also stripped and debarked. The tornado remained around 3/4 of a mile wide for a few more miles before turning slightly to the southeast and diminishing, but not before hitting 2 more farmsteads and moving one house off of its foundation. In total, 11 homes received substantial damage and between 100 and 200 utility poles were downed.

M70EQ

Wayne County

Carroll

23	2150CST				0	0			Thunderstorm Wind (G50)
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Thunderstorm winds estimated at 60 mph flattened a grain bin near Carroll.

Wayne County

Wayne

23	2155CST				0	0	20K		Thunderstorm Wind (G55)
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Thunderstorm winds estimated at around 65 mph knocked the power out for some residents in Wayne. The winds also downed many large tree branches and uprooted several trees in town. A roof was also ripped off of a metal building in town by the winds.

Cedar County

5 N Coleridge

24	0014CST 0200CST				0	0			Flash Flood
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Heavy rain caused flash flooding across Highway 57 between Coleridge and Hartington and also flooded several county roads in the area.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEBRASKA, East</u>									
Knox County									
2 E Lindy	24	0030CST 0200CST			0	0			Flash Flood
Heavy rain caused extensive flash flooding of farm fields and some county roads near Lindy. Highway 12 near Bazile Creek was also closed briefly due to flood waters.									
Cedar County									
Coleridge	24	1615CST			0	0			Hail (0.75)
Cedar County									
Hartington	24	1625CST			0	0			Hail (1.00)
Cedar County									
2 S Obert	24	1655CST	0	30	0	0			Tornado (F0)
A trained spotter reported a tornado touched down in an open field just south of Obert. The tornado was on the ground for only about 30 seconds.									
Knox County									
Wausa	24	2100CST			0	0			Thunderstorm Wind (G50)
For the second night in a row thunderstorm winds estimated at 60 mph downed large tree branches which caused power outages in town.									
Knox County									
10 SW Verdigre to 2 NE Verdigre	24	2110CST 2115CST			0	0			Thunderstorm Wind (G50)
The winds broke large trees around Verdigre.									
Knox County									
2 W Niobrara to Niobrara	24	2110CST			0	0			Thunderstorm Wind (G50)
A spotter estimated thunderstorm wind gusts of around 60 mph in Niobrara. The winds destroyed 3 large metal garages west of town.									
Knox County									
7 E Niobrara	24	2115CST			0	0			Thunderstorm Wind (G55)
Thunderstorm winds estimated at over 60 mph uprooted a large tree which caused serious damage to a barn.									
Knox County									
Center	24	2145CST			0	0			Thunderstorm Wind (G50)
Law enforcement officials estimated thunderstorm wind gusts of around 60 mph in Center.									
Knox County									
Santee	24	2310CST			0	0			Thunderstorm Wind (G55)
Law enforcement officials estimated thunderstorm wind gusts of 60 to 70 mph in Santee.									
Cedar County									
Hartington	25	0025CST 1225CST			0	0			Thunderstorm Wind (G50)
Estimated by a trained weather spotter.									
Jefferson County									
Fairbury	28	2123CST			0	0			Hail (0.75)
<u>NEBRASKA, Extreme Northeast</u>									
Dixon County									
9 N Dixon	09	1806CST			0	0			Hail (0.75)
Dakota County									
Hubbard	09	1815CST			0	0			Hail (0.88)
Dixon County									
Allen	09	1820CST			0	0			Hail (0.75)
Dakota County									
Hubbard	09	1840CST			0	0			Hail (0.75)
Dakota County									
South Sioux City	09	1910CST			0	0			Hail (1.75)
Dixon County									
Allen	09	1922CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage, including several trees blown down.									
Dixon County									
Emerson	09	1925CST			0	0	100K		Thunderstorm Wind (G61)
Thunderstorm winds caused tree and power line damage, resulting in power outages. Large trees downed by the winds blocked state highway 35.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEBRASKA, Extreme Northeast</u>									
Dixon County									
Emerson	09	1926CST			0	0			Thunderstorm Wind (G52)
Dakota County									
Emerson	09	1925CST			0	0			Thunderstorm Wind (G52)
Dakota County									
Emerson	09	1926CST			0	0			Thunderstorm Wind (G69)
Thunderstorm winds caused widespread tree damage, including large trees down. Roof damage was also reported, some directly from the wind and some from trees or limbs falling on buildings. The winds blew out a wall and overhead door of a natural gas building. Power lines and poles were blown down, resulting in power outages which lasted several hours.									
Dixon County									
Allen	09	2000CST 2130CST			0	0			Flash Flood
Heavy rain caused severe flooding of streets and other low areas, stranding several vehicles.									
Dakota County									
4 E Emerson	09	2000CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds caused damage to trees and power lines.									
Dakota County									
Jackson	09	2010CST			0	0	50K		Hail (1.75)
Large hail damaged vehicles and cracked windows.									
Dakota County									
South Sioux City	09	2010CST 2230CST			0	0			Flash Flood
Very heavy rain caused widespread flooding of streets and other low areas. Several vehicles were stranded.									
Dixon County									
Wakefield	09	2110CST			0	0			Hail (0.75)
Dixon County									
9 N Dixon	23	2120CST			0	0			Hail (1.75)
Large hail damaged vehicles. The amount of damage was not known.									
Dixon County									
Newcastle	23	2215CST			0	0			Hail (1.50)
Dixon County									
Newcastle	23 24	2215CST 0015CST			0	0			Flash Flood
Rainfall of 3 to 5 inches caused street flooding in Newcastle, as well as flooding of other low areas in and near town.									
Dakota County									
Jackson	23	2215CST			0	0	20K		Thunderstorm Wind (G61)
Thunderstorm winds caused widespread tree damage, including several trees blown down. There was also damage to power lines, and at least two buildings received minor damage from wind blown debris.									
Dixon County									
4 S Maskell	24	1703CST			0	0			Hail (0.88)
Dixon County									
1 W Maskell	24	1708CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Dakota County									
South Sioux City	27	1900CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage, including numerous large trees blown down. Power lines were also knocked down, mostly by falling trees. Power outages resulted.									
Dixon County									
Emerson	27	2130CST			0	0	5K		Lightning
Lightning struck a house, starting a roof fire.									
<u>NEBRASKA, Extreme Southwest</u>									
Red Willow County									
Mc Cook	01	1800MST			0	0			Lightning
McCook newspaper related several lightning events in McCook on the evening of June first. Time of occurrence estimated from newspaper account. The first brought down an 8-inch tree branch. The second struck a power transformer serving the local Pizza Hut restaurant on north Hwy 83. Another strike hit a street light and damaged a resident's home computer.									

Storm Data and Unusual Weather Phenomena

June 2003

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 Southwest</u>									
Red Willow County									
Mc Cook	11	1850MST			0	0			Thunderstorm Wind (G62)
Red Willow County									
12 SSE Mc Cook	11	1925MST			0	0			Hail (0.75)
Dundy County									
1 W Haigler	20	1904MST			0	0			Hail (0.88)
Dundy County									
15 NNW Haigler	20	1930MST			0	0			Hail (0.75)
Dundy County									
15 NNW Haigler	20	1930MST			0	0			Thunderstorm Wind (G52)
Hitchcock County									
Trenton	23	1819MST			0	0			Hail (0.75)
Red Willow County									
Danbury	23	1845MST			0	0			Hail (2.00)
Red Willow County									
Danbury	23	1852MST			0	0			Thunderstorm Wind (G61)
Trees down across road in Danbury.									
Red Willow County									
3 N Lebanon	23	1902MST 1914MST			0	0			Hail (1.75)
Windows knocked out and power out. Still hailing with hail at nickel size at 1914.									
Red Willow County									
19 NE Mc Cook	23	1947MST			0	0			Hail (1.00)
Dundy County									
19 NNE Benkelman	24	1525MST			0	0			Hail (0.75)
Dundy County									
12 N Max	24	1536MST			0	0			Hail (0.88)
Hitchcock County									
2 WSW Trenton	24	1747MST			0	0			Hail (0.75)
Hitchcock County									
Palisade	24	1910MST			0	0			Hail (1.00)
Hitchcock County									
Palisade	24	1916MST			0	0			Hail (0.88)
Hitchcock County									
Trenton	24	1943MST			0	0			Hail (0.88)
Hitchcock County									
Trenton	24	1945MST			0	0			Hail (1.00)
Hitchcock County									
9 S Stratton	28	1945MST			0	0			Hail (1.00)
<u>NEBRASKA, South Central</u>									
Valley County									
6 SW Ord	09	1830CST			0	0	10K	125K	Hail (1.75)
Valley County									
12 NW Arcadia to 9 NW Arcadia	09	1840CST 1850CST	3	300	0	0	250K	25K	Tornado (F1)
A tornado moved across western Valley county and was reported by an off duty meteorologist from the SPC.									
Valley County									
Arcadia	09	1915CST			0	0	50K	250K	Hail (1.50)
Valley County									
1 W Arcadia	09	1922CST	0.2	25	0	0	0	0	Tornado (F0)
A brief tornado was reported just west of Arcadia. No damage was reported.									
Valley County									
Ord	09	1930CST			0	0	0	0	Thunderstorm Wind (G52)
Greeley County									
Scotia	09	1945CST			0	0	0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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									
Sherman County									
Loup City	09	1955CST			0	0	125K	250K	Hail (2.75)
Sherman County									
11 W Loup City	09	2009CST			0	0	0	0	Hail (0.88)
Howard County									
5 W Farwell	09	2014CST			0	0	0	0	Hail (1.00)
Howard County									
5 W St Paul	09	2019CST			0	0	0	0	Thunderstorm Wind (G62)
Merrick County									
3 NE Palmer	09	2030CST			0	0	150K	0	Thunderstorm Wind (G70)
Howard County									
5 SW Farwell	09	2031CST			0	0	0	0	Hail (1.00)
Howard County									
10 SE St Paul	09	2053CST			0	0	0	0	Hail (0.75)
Nance County									
1 S Fullerton	09	2055CST			0	0	0	0	Hail (0.75)
Howard County									
St Libory	09	2102CST			0	0	500K	1M	Hail (4.25)
Merrick County									
Chapman	09	2107CST			0	0	25K	125K	Hail (1.75)
Merrick County									
Central City	09	2115CST			0	0	50K	125K	Hail (1.50)
Polk County									
2 N Shelby	09	2115CST			0	1	1M	1M	Thunderstorm Wind (G70)
York County									
Benedict	09	2158CST			0	0	0	0	Hail (0.75)
Thayer County									
Hebron	09	2332CST			0	0	0	0	Hail (0.75)
Thayer County									
Deshler	09	2341CST			0	0	0	0	Hail (1.00)
Thunderstorms ripped south-central Nebraska with tornadoes, damaging winds and hail. A rain-wrapped tornado was sighted in western Valley county shortly after 7:30 pm by several storm chasers. The tornado blasted 2 farmsteads, one of which was abandoned. A total of 14 outbuildings were damaged or destroyed. The tornado was in the far western part of Valley county along the Comstock road. Another brief tornado was reported near Arcadia a short time later but no damage was confirmed.									
Elsewhere, vicious high winds over 70 mph did extensive damage north of Shelby in eastern Polk county. Several farmsteads sustained house, outbuilding, grain bin and tree damage. In one case, a garage was nearly ripped from the house it was attached to. Twenty four center pivot irrigation systems were severely damaged or destroyed. A semi-tractor trailer was overturned as the high winds approached. The driver was unhurt but a passenger sustained minor injuries and was treated at a nearby hospital. At one point, 4,500 customers were without power in the area. The high winds also pounded the Palmer area about an hour earlier that night. On a farm north of Palmer, a roof was torn from a metal building, a garage destroyed and a large goose neck trailer tossed several feet by the wind. The damage was strewn across a nearby corn field.									
Finally, hail caused crop and property damage in parts of the area. The St. Libory area sustained the worst damage with hail stones the size of baseballs and larger were reported. Siding and windows were heavily damaged on many homes, especially just north of town. Crop damage was fairly extensive along a narrow path in the same area.									
Dawson County									
Cozad	11	1819CST			0	0	0	0	Hail (0.88)
Phelps County									
1 SW Holdrege	11	2013CST			0	0	0	0	Hail (0.75)
Furnas County									
Wilsonville	11	2030CST			0	0	0	0	Thunderstorm Wind (G50)
Furnas County									
Beaver City	11	2100CST 2200CST			0	0	0	0	Hail (0.75)
Furnas County									
Oxford	11	2100CST			0	0	0	0	Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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									
Ragan	11	2100CST			0	0	0	0	Hail (0.75)
Hall County									
Grand Is	17	1831CST			0	0	0	0	Hail (0.75)
Hall County									
Grand Is	22	1700CST			0	0	0	0	Hail (1.25)
Merrick County									
7 S Chapman	22	1702CST			0	0	0	0	Hail (1.00)
Clay County									
4 NW Harvard	22	1710CST			0	0	0	0	Hail (0.75)
Hamilton County									
3 S Giltner	22	1715CST			0	0	0	0	Hail (1.00)
Thayer County									
Deshler	22	1728CST			0	0	50K	250K	Hail (2.75)
Thayer County									
4 W Deshler to 2 N Deshler	22	1730CST 1742CST	4	100	0	0	200K	1M	Tornado (F0)



First of several tornados to strike Thayer County, Nebraska. Photo by Mr. Fintel.

The first of several tornadoes to occur in Thayer county. This tornado remained in open county and most damage was to pivots and power poles.

Storm Data and Unusual Weather Phenomena

June 2003

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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NEBRASKA, South Central

Thayer County

.5 SE Deshler to 3 W Deshler	22	1743CST 1805CST	3	200	1	7	10M	1M	Tornado (F2)
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Damage in the town of Deshler from the F2 tornado that moved through the town. Photo by S. Kisner, GID WCM

A strong tornado set down on the southeast side of Deshler near the fairgrounds and moved west through the south side of Deshler. The slow moving tornado lifted a couple of miles west of town. M47PH

Hamilton County

1 W Aurora	22	1744CST			0	0	0	0	Hail (1.25)
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Thayer County

5 N Deshler	22	1800CST 2300CST			0	0	500K	3M	Heavy Rain
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A heavy precipitation (HP) supercell dumped 10 to 15 inches of rain in western and northern Thayer County. At times, rain rates of 3 to 5 inches per hour were depicted by Doppler radar.

Thayer County

2 E Deshler to 3 E Deshler	22	1800CST 1805CST	1	35	0	0	0	500K	Tornado (F0)
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A short lived tornado was video taped on a law enforcement car camera as they were watching the stronger tornado move through Deshler.

Storm Data and Unusual Weather Phenomena

June 2003

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

Hamilton County

Aurora	22	1805CST			0	0	500K	1M	Hail (7.00)
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Record setting hail stone that fell in Aurora, Nebraska. Photo by S. Kisner, GID WCM
Record setting hail occurred on the north side of Aurora.

Hamilton County

2 W Aurora to 3.5 NW Aurora	22	1808CST 1812CST	2	25	0	0	30K	0	Tornado (F0)
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A brief touch down occurred just west of Aurora and was observed by an off duty NWS meteorologist.

Thayer County

2 S Deshler to 3 SE Deshler	22	1820CST 1830CST	2	50	0	0	100K	500K	Tornado (F0)
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The last of four tornadoes to occur near Deshler. Damage was primarily to crops and pivot systems.

Thayer County

2 SW Carleton	22	1830CST			0	0	25K	125K	Hail (1.50)
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Hamilton County

2 SW Marquette to 2.5 SW Marquette	22	1842CST 1844CST	0.5	20	0	0	0	100K	Tornado (F0)
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A brief tornado reported by storm chasers.

Polk County

4 E Polk	22	1850CST			0	0	0	0	Hail (0.75)
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York County

5 SW Benedict	22	1900CST			0	0	0	0	Hail (1.00)
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Thayer County

7 NW Hebron	22	1910CST			0	0	0	0	Hail (0.75)
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York County

York	22	1915CST			0	0	0	0	Hail (0.88)
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Howard County

4 N St Paul	22	1921CST			0	0	0	0	Hail (0.75)
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York County

3 N Bradshaw	22	1930CST	0.2	30	0	0	25K	0	Tornado (F0)
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A brief tornado in western York county.

Fillmore County

1 S Shickley	22	1945CST			0	0	10K	0	Thunderstorm Wind (G52)
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Storm Data and Unusual Weather Phenomena

June 2003

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									
Thayer County									
Hebron	22	1945CST			0	0	150K	250K	Thunderstorm Wind (G62)
York County									
Mc Cool Jet	22	1945CST			0	0	50K	0	Thunderstorm Wind (G52)
Fillmore County									
Strang	22 23	2000CST 0000CST			0	0	100K	1M	Heavy Rain
Heavy rainfall in the southern part of Fillmore county forced water over the highway in Strang. Low lying fields were inundated with water.									
Greeley County									
Spalding	22	2000CST			0	0	0	0	Hail (1.00)
Thayer County									
Countywide	22 23	2000CST 0600CST			0	0	2M	5M	Flash Flood
Nance County									
7 W Fullerton	22	2006CST			0	0	0	0	Hail (1.00)
Adams County									
5 NE Hastings	22	2010CST			0	0	0	0	Hail (0.75)
Clay County									
Edgar	22	2020CST			0	0	25K	0	Thunderstorm Wind (G62)
Hamilton County									
1 S Murphy	22	2022CST			0	0	0	0	Hail (0.75)
Nance County									
3 SW Fullerton to 2 S Fullerton	22	2030CST 2040CST			0	0	50K	1M	Hail (1.00)
A narrow swath of crop damage from southwest of Fullerton to south of Fullerton produced widespread corn and soybean damage.									
York County									
Henderson	22	2030CST			0	0	25K	150K	Hail (0.88)
Crop damage from hail and wind was confined to a 6 square mile area of beans and corn.									
Clay County									
Sutton	22	2100CST			0	0	50K	0	Thunderstorm Wind (G52)
Nuckolls County									
Nelson	22	2115CST			0	0	25K	0	Thunderstorm Wind (G52)
Clay County									
Ong	22	2130CST			0	0	25K	0	Thunderstorm Wind (G52)
Nuckolls County									
Superior	22	2145CST			0	0	0	0	Hail (0.75)
Clay County									
Edgar	22	2150CST			0	0	25K	0	Thunderstorm Wind (G52)
Buffalo County									
Kearney	22	2352CST			0	0	73K	0	Lightning
Lightning struck a paint store and resulting fire caused \$73,000 in damage.									
Buffalo County									
Kearney	23	0005CST			0	0	22K	0	Lightning
Just minutes after one lightning ignited fire, the Kearney Volunteer Fire Department was called to another lightning started fire. This time the fire was at a detached garage and resulted in \$22,000 in damage.									
Franklin County									
2 S Franklin	23	0032CST			0	0	0	0	Hail (0.75)
Phelps County									
Holdrege	23	0100CST			0	0	0	0	Hail (1.00)
Phelps County									
Holdrege	23	0122CST			0	0	0	0	Hail (0.75)
Adams County									
Holstein	23	0155CST			0	0	0	0	Hail (1.00)
Adams County									
Prosser	23	0235CST			0	0	0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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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NEBRASKA, South Central

Valley County

Elyria	23	0530CST			0	0	0	0	Hail (1.00)
NEZ087									
Thayer	23	0600CST			0	0	1M	5M	Flood
	24	0600CST							

Thunderstorms erupted during the evening in south-central Nebraska. One storm near Aurora produced very large hail. One stone measured by an NWS Storm Survey team was determined to be the largest sized stone to fall in the United States. It measured 7 inches in diameter and 18.75 inches in circumference. Many other large stones were noted on the northern side of Aurora. Given the lack of wind, damage was limited to roofs, a few windows and some crop land near town. The storm also produced a couple of brief small tornadoes as it slowly moved through northern Hamilton county.

At nearly the same time, another very slow moving storm produced several tornadoes, hail and extremely heavy rains in Thayer county. One tornado moved through the town of Deshler going from the southeast side of town to the west. One man was killed in his garage before he was able to get to shelter. Over 400 homes in Deshler were damaged with four being completely demolished. Nearly 100 homes were moderately to severely damaged. Six businesses in town were considered a complete loss and 25 others reportedly suffered moderate to severe damage. Seven people were injured, most were minor and were from broken glass.

Later in the evening, a tornado was reported north of Bradshaw in York county. Storm spotters about 1 mile west of the tornado saw debris being flung through the air. A farmstead was hit with most of the damage done to an old barn.

Despite ongoing drought conditions, widespread flooding was reported in Thayer and southern Fillmore counties. The flash flood along the Rose Creek at Hubbell provided some of the worst damage. Water was flowing into houses and businesses on main street to the tune of up to 5 feet deep. Boats were the only mode of travel through the business district. Up to 15 residents had to be evacuated by the local Dive and Rescue team using jet skis. The flooding was caused by extremely heavy rainfall in nearby Republic County, Kansas.

Flooding and flash flooding was also a problem throughout Thayer county. Rainfall of over 12 inches was reported about 5 miles north of Deshler. Residents reported nearly 5 hours of constant, wind-driven rain. Windows were blown out and the rain just poured into homes. Widespread agricultural damage was done due to the rain. The runoff in the Snake and Spring creeks ravaged Deshler, the town which had already been hammered by tornadoes that evening. Flooding was concentrated in the southern part of town and most widespread near the park and fairgrounds.

Major river flooding was reported along the Little Blue River from just west of Hebron to the Jefferson county line. One man at his farmstead near Gilead had to be air lifted to safety by the National Guard as flooding waters rose on his property. Dozens of county roads and bridges were damaged or destroyed. U. S. Highway 81 was restricted to one lane travel at Hebron due to the high water on the road. Portions of Highways 81, 136 and 9 were closed for a time due to high water. The Big Sandy Creek flowed out of its banks at Alexandria and crested at 14.5 feet. Water was flowing over the highway near town and filling back into the town's sewer drains. In all, several million dollars in damage was done by the flooding alone. Some locals said this was the worst flooding in the area in 55 years.

Furnas County

Cambridge	23	2000CST			0	0	0	0	Hail (0.88)
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Gosper County

5 NW Elwood	23	2030CST			0	0	0	0	Hail (0.88)
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NEZ040-040-047-060>062-073>074

Greeley - Howard - Dawson - Buffalo - Hall - Phelps - Kearney									
	23	2030CST			0	0	725K	0	Strong Wind
		2305CST							

Furnas County

Cambridge	23	2049CST			0	0	0	0	Hail (1.00)
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Dawson County

5 NW Gothenburg	23	2128CST			0	0	50K	0	Thunderstorm Wind (G92)
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Buffalo County

3 W Kearney	23	2130CST			0	0	0	0	Hail (0.88)
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Polk County

11 NW Shelby	23	2138CST			0	0	0	0	Hail (1.00)
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Valley County

Ord	23	2157CST			0	0	0	0	Hail (0.75)
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Yet another night of wild weather was had across south-central Nebraska. Severe thunderstorms west of U. S. Highway 183 kicked out strong winds ahead of their passage. Wind gust to 70 mph were common, with one report of 78 mph at the NTV television studios near Axtell. The winds progressed through Grand Island and points north. Damage in Buffalo county was countywide with trees down, minor property damage and power outages. Reports of similar damage were had from Greeley, Howard, Phelps, and Dawson counties. In Dawson county, a 107 mph wind gust was recorded on a Davis weather instrument system northwest of Gothenburg. The instrument

Storm Data and Unusual Weather Phenomena

June 2003

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, South Central</u>									
									events prior to it falling on the 23rd.
Dawson County									
5 NW Gothenburg	24	2030CST			0	0	0	0	Hail (0.75)
York County									
Bradshaw	27	2015CST			0	0	0	0	Thunderstorm Wind (G52)
York County									
6 W Benedict	27	2030CST			0	0	0	0	Thunderstorm Wind (G52)
York County									
York	27	2030CST			0	0	100K	0	Thunderstorm Wind (G56)
York County									
Waco	27	2035CST			0	0	25K	0	Thunderstorm Wind (G56)
									Late evening thunderstorms gained a head of steam across York county and blasted the county with high winds. Wind gusts of 55 to 65 mph were common across the county with reports of trees and power lines down along and east of Highway 81.
<u>NEBRASKA, West</u>									
Sioux County									
11 NE Harrison	10	1725MST 1735MST			0	0			Thunderstorm Wind (G52)
									5 inch diameter tree limbs blown down.
Sioux County									
18 N Harrison	10	1752MST 1753MST			0	0			Thunderstorm Wind (G61)
Dawes County									
11 N Crawford	10	1801MST 1806MST			0	0			Hail (1.00)
Dawes County									
Whitney	10	1816MST 1819MST			0	0			Hail (1.00)
Dawes County									
15 SW Chadron to 18 SW Chadron	10	1840MST 1845MST			0	0		5K	Hail (0.75)
									3/4 inch hail and estimated wind gusts to 60 mph damaged wheat crop.
Scotts Bluff County									
3 NE Mitchell to 4 NE Mitchell	11	1704MST 1719MST			0	0	5K		Hail (1.00)
Scotts Bluff County									
16 SW Scottsbluff	12	1738MST 1739MST			0	0			Thunderstorm Wind (G52)
Morrill County									
12 N Bayard	12	1855MST 1859MST			0	0			Hail (1.50)
Box Butte County									
7 SW Alliance	12	1950MST 2005MST			0	0			Hail (0.88)
Box Butte County									
4 SW Hemingford	12	2013MST 2015MST			0	0			Hail (0.75)
Box Butte County									
2 S Alliance	12	2017MST 2021MST			0	0			Hail (1.75)
Box Butte County									
23 N Alliance	14	1508MST 1513MST			0	0			Hail (1.00)
Box Butte County									
7 SW Alliance	20	1625MST 1630MST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEBRASKA, West</u>									
Banner County									
12 SW Harrisburg	23	2014MST 2018MST			0	0			Hail (1.00)
Kimball County									
12 NW Kimball	23	2035MST 2039MST			0	0			Hail (1.75)
Banner County									
10 NE Harrisburg	23	2051MST 2054MST			0	0			Hail (1.75)
Banner County									
17 E Harrisburg	23	2100MST 2104MST			0	0	10K		Hail (3.00)
Banner County									
12 E Harrisburg	23	2110MST 2113MST			0	0	10K		Hail (3.00)
Banner County									
18 E Harrisburg	23	2112MST 2115MST			0	0			Hail (1.00)
Morrill County									
Bridgeport	23	2137MST 2141MST			0	0			Hail (1.75)
Morrill County									
Broadwater	23	2155MST 2159MST			0	0			Hail (1.75)
Morrill County									
17 NE Broadwater	23	2222MST 2232MST			0	0	10K		Hail (3.00)
Kimball County									
Kimball	23	2325MST 2329MST			0	0			Hail (1.00)
Box Butte County									
(Aia)Alliance Arpt	23	2341MST 2342MST			0	0			Thunderstorm Wind (G59)
Cheyenne County									
4 E Sidney	28	1643MST 1647MST			0	0			Hail (0.75)
<u>NEVADA, North</u>									
White Pine County									
45 NW Ely Arpt	12	1409PST			0	0			Thunderstorm Wind (G51)
Lander County									
4 SE Battle Mtn Arpt	18	1335PST			0	0			Thunderstorm Wind (G54)
Lander County									
11 SE Battle Mtn	19	1405PST			0	0			Thunderstorm Wind (G51)
Eureka County									
41 NW Eureka Arpt	19	1503PST			0	0			Thunderstorm Wind (G54)
Elko County									
39 SW Owyhee	19	1554PST			0	0			Thunderstorm Wind (G53)
<u>NEVADA, South</u>									
NVZ021									
			Lake Mead/Lake Mohave National Recreation Area						
	18	1300PST			2	0			Excessive Heat
Two men who were hiking died of heatstroke after walking for about an hour without water. Temperatures in the area had climbed to near 100 degrees. M53OU, M57OU									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEVADA, West</u>									
Mineral County									
Hawthorne	18	1700PST 1715PST			0	0	10K		Thunderstorm Wind (G75)
Thunderstorm outflow winds were estimated at 75 mph in Hawthorne, NV. Fence and roof damage occurred at several locations in town due to the wind gusts. At least one home storage building was also destroyed.									
Churchill County									
Fallon	18	1700PST 1715PST			0	0	10K		Thunderstorm Wind (G75)
Thunderstorm outflow winds estimated at 75 mph caused scattered damage across Fallon including 5 downed power poles, a large tree blown into a fuel storage tank and a destroyed home gazebo.									
Washoe County									
Reno	23	1050PST 1110PST			0	0			Heavy Rain
A storm spotter in northwest Reno measured nearly one half inch of rain, .43, from a thunderstorm in less than 20 minutes.									
NVZ004									
Western Nevada Basin And Range									
	23	1100PST 1200PST			0	0			Dust Storm
A storm spotter reported areas of blowing dust in the Stagecoach and Silver Spring area due to gusty thunderstorm winds. No damage was reported.									
<u>NEW HAMPSHIRE, North and Central</u>									
Rockingham County									
Deerfield	27	1314EST			0	0			Thunderstorm Wind (G50)
Strafford County									
Rochester	27	1345EST			0	0			Hail (1.00)
Strafford County									
Rochester	27	1345EST			0	0			Thunderstorm Wind (G50)
Rockingham County									
North Hampton	27	1425EST			0	0			Thunderstorm Wind (G50)
Severe thunderstorms moving through southeastern New Hampshire downed trees in Deerfield, Rochester, and North Hampton, and produced 1 inch hail in Rochester.									
<u>NEW HAMPSHIRE, Southern</u>									
NONE REPORTED.									
<u>NEW JERSEY, Northeast</u>									
Passaic County									
Pompton Lakes	14	1355EST			0	0			Thunderstorm Wind (G50)
As a severe thunderstorm moved southeast over Pompton Lakes, high winds downed a tree onto a car, which was reported by local law enforcement.									
<u>NEW JERSEY, South and Northwest</u>									
Morris County									
Countywide	01	0000EST 0800EST			0	0			Heavy Rain
Sussex County									
Countywide	01	0000EST 0800EST			0	0			Heavy Rain
Warren County									
Countywide	01	0000EST 0800EST			0	0			Heavy Rain
NJZ008									
Morris									
	01	0700EST			0	0			Flood
	02	1037EST							
Heavy rain fell across Northwest New Jersey from the middle of the evening on May 31st into the mid morning on June 1st. Doppler Radar storm total estimates ranged between 1.5 and 3 inches across most of Morris, Sussex and Warren Counties. The heavy rain led to flooding along sections of the Rockaway and Pequannock Rivers on June 1st and 2nd with poor drainage and low lying flooding occurring elsewhere. Storm totals included 3.25 inches in Montville (Morris County), 2.49 inches in Chatham (Morris County), 1.84 inches in Sussex (Sussex County) and 1.56 inches in Andover (Sussex County).									

Storm Data and Unusual Weather Phenomena

June 2003

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 JERSEY, South and Northwest

through 1 a.m. EDT on the 2nd. It crested at 5.57 feet at 130 p.m. EDT on the 1st. The Rockaway River below the Boonton Reservoir was above its 5 foot flood stage from 605 p.m. EDT on the 1st through 1137 a.m. EDT on the 2nd. It crested at 5.29 feet at 2 a.m. EDT on the 2nd.

The heavy rain was caused by a low pressure system which moved from lower Wisconsin the evening of May 30th east to Ohio the morning of the May 31st, to near Harrisburg, Pennsylvania the early evening of May 31st, near Philadelphia just after Midnight EDT on June 1st and then accelerated eastward to just south of Cape Cod during the morning of June 1st. The central pressure of the system as it passed near Nantucket Island fell to 982 millibars during the afternoon of June 1st, a fairly intense extratropical system for late May and early June.

Burlington County

Countywide	03	2100EST							
	04	0900EST			0	0			Heavy Rain

Camden County

Countywide	03	2100EST							
	04	0900EST			0	0			Heavy Rain

Hunterdon County

Countywide	03	2100EST							
	04	0900EST			0	0			Heavy Rain

Middlesex County

Countywide	03	2100EST							
	04	0900EST			0	0			Heavy Rain

Monmouth County

Countywide	03	2100EST							
	04	0900EST			0	0			Heavy Rain

Heavy rain fell across the central third of New Jersey in two surges: from around 10 p.m. EDT on the 3rd through 3 a.m. EDT on the 4th and from 6 a.m. through 10 a.m. EDT on the 4th. Storm totals averaged between 1.5 and 3 inches and caused urban and poor drainage flooding in Burlington, Camden, Hunterdon and Middlesex Counties. In Middlesex County, the southbound lanes of U.S. Route 1 near the Woodbridge and East Brunswick border were closed between 7 a.m. and Noon EDT. A couple of roadways and basements were also flooded in Piscataway Township and South Plainfield Borough. In Hunterdon County, clogged drains exacerbated the poor drainage flooding. Storm totals included 2.57 inches in New Brunswick (Middlesex County), 2.45 inches in Mount Holly (Burlington County), 2.29 inches in Freehold (Monmouth County), 2.11 inches in Flemington (Hunterdon County), 1.95 inches in West Amwell Township (Hunterdon County), 1.82 inches in Pennsauken (Camden County) and 1.66 inches at the McGuire AFB (Burlington County). The low pressure system that caused the heavy rain moved from the Southern Plains the morning of the 2nd, into the Ohio Valley the morning of the 3rd, near Pittsburgh the morning of the 4th and into Lake Erie during the evening of the 4th. The heavy rain preceded the arrival of this low pressure system's warm front.

NJZ015

Mercer

	04	0502EST							
		0845EST			0	0			Flood

Heavy rain fell across Mercer County in two surges: from around 11 p.m. EDT on the 3rd through 3 a.m. EDT on the 4th and from 6 a.m. through 10 a.m. EDT on the 4th. Storm totals averaged between 2.0 and 2.5 inches and caused urban and poor drainage flooding as flooding along sections of the Assunpink Creek. The Assunpink Creek in Trenton was above its 7 foot flood stage from 602 a.m. EDT through 945 a.m. EDT on the 4th. It crested at 7.17 feet at 830 a.m. EDT. Storm totals included 2.55 inches in Princeton, 2.30 inches in Trenton and 2.16 inches in Hightstown. The low pressure system that caused the heavy rain moved from the Southern Plains the morning of the 2nd, into the Ohio Valley the morning of the 3rd, near Pittsburgh the morning of the 4th and into Lake Erie during the evening of the 4th. The heavy rain preceded the arrival of this low pressure system's warm front.

NJZ010

Somerset

	04	0549EST							
	06	1833EST			0	0			Flood

Heavy rain fell across Somerset County in two surges: around 130 a.m. EDT on the 4th and from 7 a.m. through 10 a.m. EDT on the 4th. Storm totals averaged between 2 and 3 inches and caused urban and poor drainage flooding as well as flooding along sections of the Raritan Basin. About a dozen roadways were closed due to stream and poor drainage flooding in the county including the Blackwells Mills and Griggstown Causeways. About half of the road closures were in Hillsborough Township including the Studdiford Bridge. The Millstone Sport Shop was surrounded by flood waters from the Millstone River. In Manville, one side of Main Street was closed. The Millstone River at Griggstown was above its 10 foot flood stage from 649 a.m. EDT on the 4th through 733 p.m. EDT on the 6th. It crested at 15.5 feet at 4 a.m. EDT on the 5th. Farther downstream the Millstone River at Blackwells Mills was above its 9 foot flood stage from 706 p.m. EDT on the 4th through 1245 a.m. EDT on the 6th. It crested at 11.02 feet at 630 a.m. EDT on the 5th. The North Branch of the Raritan River at South Branch was above its 6.9 foot flood stage from 843 a.m. EDT on the 4th through 237 a.m. EDT on the 5th. It crested at 8.8 feet at 3 p.m. EDT on the 4th. Storm totals included 3.14 inches in Blackwells Mills, 2.42 inches in Somerville and 2.07 inches in Pottersville. The low pressure system that caused the heavy rain moved from the Southern Plains the morning of the 2nd, into the Ohio Valley the morning of the 3rd, near Pittsburgh the morning of the 4th and into Lake Erie during the evening of the 4th. The heavy rain preceded the arrival of this low pressure system's warm front.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
NEW JERSEY, South and Northwest									
NJZ008 Morris									
	04	2100EST			0	0			Flood
	10	0615EST							
Heavy rain fell across Morris County during the first half of the 4th. Storm totals averaged between 2.0 and 2.5 inches and caused urban and poor drainage flooding as well as flooding later in the day along sections of the Passaic River. The Passaic River in Pine Brook was above its 19 foot flood stage from 10 p.m. EDT on the 4th through 715 a.m. EDT on the 10th. It crested at 19.44 feet at 245 a.m. EDT on the 6th. The heavy rain raised levels on Lake Parsippany and flooded one home on the lake. The owners moved away while waiting for the lake to recede. Storm totals included 2.65 inches in Chatham. The low pressure system that caused the heavy rain moved from the Southern Plains the morning of the 2nd, into the Ohio Valley the morning of the 3rd, near Pittsburgh the morning of the 4th and into Lake Erie during the evening of the 4th. The heavy rain preceded the arrival of this low pressure system's warm front.									
Cape May County									
Countywide	07	0700EST 1900EST			0	0			Heavy Rain
Cumberland County									
Countywide	07	0700EST 1900EST			0	0			Heavy Rain
Gloucester County									
Countywide	07	0700EST 1900EST			0	0			Heavy Rain
Salem County									
Countywide	07	0700EST 1900EST			0	0			Heavy Rain
Atlantic County									
Countywide	07	0800EST 2000EST			0	0			Heavy Rain
Burlington County									
Countywide	07	0800EST 2000EST			0	0			Heavy Rain
Camden County									
Countywide	07	0800EST 2000EST			0	0			Heavy Rain
Ocean County									
Countywide	07	0800EST 2000EST			0	0			Heavy Rain
Monmouth County									
Countywide	07	0900EST 2100EST			0	0			Heavy Rain
Heavy rain fell across Monmouth County and the southern half of New Jersey from the morning into the evening of the 7th. Storm totals averaged between 1.5 and 3.0 inches and caused poor drainage flooding. The Cooper River in Haddonfield (Camden County) briefly touched its 2.8 foot flood stage at 10 p.m. EDT on the 7th. In Atlantic County, road closures and basement flooding were reported in Egg Harbor Township, Hamilton Township, Northfield City and Pleasantville City. In Ocean County, the heavy rain caused a road collapse in Mantoloking Borough. In Monmouth County, southbound New Jersey State Route 35 was closed in Aberdeen Township and New Jersey State Routes 33 and 34 were closed in Wall Township westward to the Howell Township border. Storm totals included 3.10 inches in Estell Manor (Atlantic County), 2.92 inches at the Atlantic City International Airport, 2.76 inches in Absecon (Atlantic County), 2.47 inches in Margate (Atlantic County), 1.96 inches in Millville (Cumberland County), 1.67 inches in Wrightstown (Burlington County) and 1.19 inches in Pennsauken (Camden County). The low pressure system responsible for the heavy rain moved from the Gulf of Mexico the morning of the 6th into West Virginia the morning of the 7th, moved across the Delmarva Peninsula during the early evening of the 7th and just southeast of Cape Cod the morning of the 8th.									
Burlington County									
Mc Guire Afb	12	2008EST			0	0	0		Thunderstorm Wind (G55)
NJZ008 Morris									
	13	1730EST			0	0			Flood
	14	0125EST							
Runoff from thunderstorms that occurred during the evening of the 12th led to minor flooding along the Rockaway River during the evening of the 13th. The Rockaway River below the Boonton Reservoir was above its 5 foot flood stage from 630 p.m. EDT on the 13th through 225 a.m. EDT on the 14th. It crested at 5.03 feet at 10 p.m. EDT on the 13th. Storm totals from the evening of the 12th included 1.98 inches in Montville.									
Sussex County									
Branchville	14	1257EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons	Estimated Damage	Property	Crops	Character of Storm
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NEW JERSEY, South and Northwest

Branch of the Raritan River at South Branch touched its 6.9 foot flood stage at Midnight EDT on the 22nd. Flooding was also reported along low lying sections of the South Branch of the Raritan River and caused some road closures. The Millstone River at Griggstown was above its 10 foot flood stage from 320 p.m. EDT on the 21st through 818 p.m. EDT on the 22nd. It crested at 11.3 feet at 5 a.m. EDT on the 22nd. The Griggstown Causeway was closed.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low westward into Northern New Jersey and Northeast Pennsylvania concentrated the heavy rain along its axis. On the 21st, the heaviest rain fell from the afternoon into the early evening.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 8.7 inches in Somerset County. Normal is around 3.5 inches. Somerset County was not alone in New Jersey with the wet weather. The preliminary statewide June monthly precipitation average was 8.51 inches, 4.72 inches wetter than normal. This would surpass June 1972 as the wettest June on record since 1895. Monthly precipitation totals included 7.54 inches at Mercer County Airport and 6.99 inches at the Atlantic City International Airport.

The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

NJZ001

Sussex

21	1600EST	0	0	Flood
	2200EST			

A slow moving low pressure system at both the surface and aloft helped trigger rain across Sussex County on both the 20th and 21st. Two day storm totals ranged from one inch in the northeast part of the county to 5 inches in the southwest part of the county. The second day of heavy rain during the afternoon and early evening on the 21st was too much for area streams and flooding occurred. Road closures were reported in Andover, Hamburg, Hampton, Sparta and Vernon Townships. Remnants of the flooding was still apparent three days later along County Route 619 in Hampton Township. Two day storm totals included 3.66 inches in Newton, 3.19 inches in Andover, 2.56 inches in Wantage and 1.96 inches in Sussex.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low westward into Northern New Jersey and Northeast Pennsylvania concentrated the heavy rain along its axis. On the 21st, the heaviest rain fell from the afternoon into the early evening.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 8.4 inches in Sussex County. Normal is around 3.9 inches. Sussex County was not alone in New Jersey with the wet weather. The preliminary statewide June monthly precipitation average was 8.51 inches, 4.72 inches wetter than normal. This would surpass June 1972 as the wettest June on record since 1895. Monthly precipitation totals included 7.54 inches at Mercer County Airport and 6.99 inches at the Atlantic City International Airport.

The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

NJZ008

Morris

21	1600EST	0	0	Flood
24	1300EST			

A slow moving low pressure system at both the surface and aloft helped trigger heavy rain across Morris County on the 20th and 21st. Two day storm totals ranged from one inch in the eastern part of the county to over three inches in the western part of the county. The heavy rain that fell during the afternoon and early evening of the 21st caused flooding. Flooded roads were reported in Denville, Dover and Jefferson Townships. Dirt and rocks had to be removed from roads in Jefferson Township. In Mendham Township, flooding was reported in the Knollwood Trail Development. Basement flooding was reported throughout the county. Runoff from the heavy rain led to flooding across sections of the Passaic Basin in the ensuing days. The Rockaway River below the Boonton Reservoir was above its 5 foot flood stage from 205 a.m. EDT on the 22nd through 1015 p.m. EDT on the 23rd. It crested at 5.97 feet at 215 p.m. EDT on the 22nd. The Pequannock River at the Macopin Intake Dam was at its 5.5 foot flood stage around 5 a.m. EDT on the 22nd. The Passaic River at Pine Brook reached its 19 foot flood stage at 245 a.m. EDT on the 23rd, crested at 19.14 feet at 215 p.m. EDT on the 23rd and was back within bankfull at 2 p.m. EDT on the 24th. Two day storm totals included 1.73 inches in Long Valley and 1.65 inches in

Storm Data and Unusual Weather Phenomena

June 2003

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 JERSEY, South and Northwest

Chatham.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low westward into Northern New Jersey and Northeast Pennsylvania concentrated the heavy rain along its axis. On the 21st, the heaviest rain fell from the afternoon into the early evening.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 8.7 inches in Morris County. Normal is around 3.9 inches. Morris County was not alone in New Jersey with the wet weather. The preliminary statewide June monthly precipitation average was 8.51 inches, 4.72 inches wetter than normal. This would surpass June 1972 as the wettest June on record since 1895. Monthly precipitation totals included 7.54 inches at Mercer County Airport and 6.99 inches at the Atlantic City International Airport.

The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

NJZ010-012>013-015>022

Somerset - Middlesex - Western Monmouth - Mercer - Salem - Gloucester - Camden - Northwestern Burlington - Western Ocean - Cumberland - Western Atlantic

24	0900EST	0	0		Excessive Heat
27	2000EST				

The first run of excessive heat and humidity of the summer season occurred during the work week of June 23rd. The highest temperatures and heat indices occurred on the 26th. This was a marked contrast from the unseasonably cool and wet June prior to this week. Temperatures and moisture levels eased after a cold front moved through the region during the day on the 27th. In some places of New Jersey, it was the latest into the calendar year since 1985 for the first day with high temperatures in the 90s. Highest temperatures included 99 degrees in New Lisbon (Burlington County), 97 degrees in Pennsauken (Camden County) and Estell Manor (Atlantic County), 96 degrees in Mount Holly (Burlington County), 94 degrees at the Atlantic City International Airport, Somerville (Somerset County), New Brunswick (Middlesex County) and Millville (Cumberland County) and 92 degrees in Trenton (Mercer County).

Burlington County

Lumberton

27	1755EST	0	0		Thunderstorm Wind (G52)
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A severe thunderstorm knocked down trees and wires in Lumberton Township. Part of County Route 541 was closed due to downed power lines.

Sussex County

Newton to Quarryville

30	0300EST	0	0		Lightning
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Lightning strikes caused downed wires and power outages in scattered locations from Wantage Township south to Newton Town. While outages to homes were isolated, several major intersections did not have working traffic lights and included New Jersey State Route 94 and U.S. Route 206.

Ocean County

Barnegat Light

30	1425EST	0	0		Lightning
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Lightning struck and damaged the electrical gear of a utility boat in Barnegat Inlet.

NEW MEXICO, Central and North

NMZ001>021-026

Northwest Plateau - Northwest Mountains Including Jemez - Upper Rio Grande Valley - Sangre De Cristo Mountains - Northeast Highlands - Harding - Far Northeast Plains - Westcentral Mountains - Middle Rio Grande Valley - Sandia/Manzano Mountains - Central High Plains/Estancia Valley County - Conchas Lake/Guadalupe - Quay - Southwest Mountains/Upper Gila Region - Lower Rio Grande Valley - Lincoln County High Plains/Hondo Valley - Capitan/Northern Sacramento Mountains - De Baca - Chaves County Plains - Roosevelt - Curry - Guadalupe Mountains Of Chaves County

01	0000MST	0	0		Drought
30	2359MST				

Dry weather worries continued across central and western areas throughout June, but the eastern plains saw a busy month for severe thunderstorms that brought much needed moisture.

Chaves County

Roswell

01	1835MST	0	0	5K	Thunderstorm Wind (G65)
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Gusty and mostly dry thunderstorm winds swept across Roswell damaging car coverings and downing a number of power lines.

Valencia County

Belen

02	1400MST	0	0	15K	Dust Devil
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A strong dust devil swept away part of the roof and a drive-through carport at a Belen restaurant.

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Union County									
Capulin	02	1545MST			0	0			Hail (0.75)
Union County									
3 SE Des Moines	02	1615MST			0	0			Hail (1.50)
Union County									
Grenville	02	1640MST			0	0			Hail (0.75)
Colfax County									
Raton	02	1650MST			0	0			Hail (0.75)
Colfax County									
3 NW Maxwell to Maxwell	04	1300MST 1302MST			0	0			Hail (0.75)
Colfax County									
5 N Springer	04	1325MST			0	0			Hail (0.75)
Colfax County									
6 E Springer	04	1353MST			0	0			Hail (1.25)
Mora County									
17 E Wagon Mound to 10 E Wagon Mound	04	1450MST 1456MST			0	0	15K		Hail (2.75)
Harding County									
4 W Mills	04	1452MST			0	0			Hail (1.50)
San Miguel County									
Bell Ranch	04	1635MST			0	0			Hail (1.75)
San Miguel County									
6 NW Sanchez	04	1655MST			0	0			Hail (2.50)
Storms that formed over central Colfax County intensified and move south-southeast as a storm complex that produced large 2 to 3 inch diameter hail and high winds from just east of Springer then southward between Wagon Mound and Roy and continuing over ranch lands of far eastern San Miguel County. This system collapsed near Tucumcari with a final burst of smaller hail. Radar signatures indicated a number of small gustnadoes or surface based tornado spin ups over unpopulated and remote ranch lands.									
Quay County									
3 S Tucumcari	04	1545MST			0	0			Hail (1.25)
Quay County									
5 S Tucumcari	04	1550MST			0	0			Hail (0.88)
Quay County									
7 SE Tucumcari	04	1550MST			0	0			Hail (1.75)
Quay County									
5 S Tucumcari to 15 SE Tucumcari	04	1600MST 1615MST			0	0			Hail (1.75)
San Miguel County									
15 NE Conchas Dam	04	1620MST			0	0			Funnel Cloud
Quay County									
6 E Ragland	04	1635MST			0	0			Funnel Cloud
Quay County									
6 E Ragland	04	1651MST			0	0			Hail (0.88)
Curry County									
10 N Melrose	04	1710MST 1715MST	0.1	30	0	0			Tornado (F0)
Brief small tornado reported north of Melrose.									
Curry County									
19 N Melrose	04	1715MST			0	0			Hail (1.75)
Quay County									
2 SE Forrest	04	1715MST			0	0			Funnel Cloud
Quay County									
Forrest	04	1715MST			0	0			Hail (2.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEW MEXICO, Central and North</u>									
Quay County									
Forrest	04	1715MST			0	0	20K		Thunderstorm Wind (G65)
Church in Forrest lost half it's roof and all windows during high wind.									
Curry County									
9 NW Cannon Afb	04	1725MST	0.1	30	0	0			Tornado (F0)
Brief small tornado reported over open range land.									
Quay County									
1 W Tucumcari	04	1738MST			0	0			Hail (0.88)
Curry County									
14 NW Cannon Afb	04	1745MST	0.1	30	0	0			Tornado (F0)
Brief tornado reported by military weather observers.									
Quay County									
Montoya	04	1747MST			0	0			Funnel Cloud
Curry County									
11 W Ranchvale	04	1800MST			0	0			Hail (2.00)
Curry County									
15 NW Ranchvale	04	1805MST			0	0			Hail (2.50)
Curry County									
Clovis Arpt	04	1815MST			0	0			Thunderstorm Wind (G52)
Quay County									
5 N Ragland	04	1829MST			0	0			Hail (0.75)
Curry County									
St Vrain	04	1835MST			0	0			Hail (1.75)
Curry County									
10 W Clovis	04	1836MST			0	0			Hail (1.00)
Curry County									
Clovis	04	1848MST			0	0			Hail (0.88)
Curry County									
6 NW Clovis	04	1859MST	0.1	30	0	0			Tornado (F0)
Brief tornado reported over open range land.									
Curry County									
10 W Clovis	04	1908MST			0	0			Funnel Cloud
Intermittent funnels reported northwest of Clovis.									
Curry County									
Cannon Afb	04	1910MST			0	0			Hail (1.75)
Roosevelt County									
Portales	04	1920MST	0.1	30	0	0	20K		Tornado (F0)
Damage from possible brief tornado reported east side of Portales.									
Roosevelt County									
Arch	04	1939MST			0	0			Hail (1.00)
Roosevelt County									
Rogers	04	2000MST			0	0			Hail (1.00)
Roosevelt County									
Causey	04	2005MST			0	0			Hail (1.75)
Roosevelt County									
Elida	04	2010MST			0	0			Hail (1.75)
Roosevelt County									
Elida	04	2010MST			0	0			Thunderstorm Wind (G50)

A small thunderstorm that formed over south central San Miguel County at mid afternoon moved eastward into northwest Quay County where it intensified. Near Tucumcari the storm developed strong mesocyclone radar signatures. A bow echo type gust front continued east and northeast towards San Jon and Logan while the core of the storm just southeast of Tucumcari displayed radar signatures of large hail and a well defined hook echo about 10 miles southeast of Tucumcari. The storm then propagated southward into western Curry County and continued through north central and southeast Roosevelt County with frequent reports of large hail and a number of brief tornado and funnel cloud sightings. Based on radar velocity data these were brief and small ground based gustnado spin ups which occurred primarily over undeveloped and open range land.

Storm Data and Unusual Weather Phenomena

June 2003

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									
13 NE Wagon Mound	05	1441MST			0	0			Hail (1.00)
Harding County									
2 N Solano	05	1442MST			0	0			Hail (0.88)
Quay County									
4 E Tucumcari	05	1543MST			0	0			Funnel Cloud
Quay County									
Tucumcari Arpt	05	1553MST			0	0			Thunderstorm Wind (G51)
Quay County									
San Jon	05	1607MST			0	0			Thunderstorm Wind (G50)
Quay County									
8 S San Jon	05	1630MST			0	0			Hail (0.75)
Quay County									
1 N Ragland	05	1635MST			0	0			Funnel Cloud
De Baca County									
12 NW Ft Sumner	05	1640MST			0	0			Thunderstorm Wind (G50)
De Baca County									
8 E Ft Sumner	05	1700MST			0	0			Thunderstorm Wind (G50)
De Baca County									
18 N Ft Sumner	05	1705MST			0	0			Thunderstorm Wind (G50)
Quay County									
10 W House	05	1710MST			0	0			Thunderstorm Wind (G50)
De Baca County									
9 NE Ft Sumner	05	1715MST			0	0	25K		Thunderstorm Wind (G60)
Ranch house roof lost to high winds as line of thunderstorms moved east.									
Curry County									
Broadview	05	1645MST			0	0			Thunderstorm Wind (G50)
Curry County									
Clovis Arpt	05	1715MST			0	0			Thunderstorm Wind (G52)
Curry County									
1 N Ranchvale	05	1725MST			0	0			Thunderstorm Wind (G50)
Union County									
5 N Gladstone	12	1640MST			0	0			Hail (0.75)
Union County									
Pasamonte	12	1710MST			0	0			Hail (1.75)
Harding County									
20 NE Roy	12	1800MST 1815MST			0	0			Hail (1.00)
San Miguel County									
Mineral Hill	13	1215MST			0	0			Hail (1.00)
San Miguel County									
Ribera	13	1315MST			0	0			Hail (0.75)
San Miguel County									
12 SW Las Vegas	13	1327MST			0	0			Hail (2.00)
Torrance County									
Clines Corners	13	1400MST			0	0			Hail (1.75)
Torrance County									
13 E Clines Corners	13	1410MST			0	0			Hail (1.75)
Curry County									
Cannon Afb	13	1705MST			0	0			Thunderstorm Wind (G82)
Curry County									
Cannon Afb	13	1725MST			0	0			Thunderstorm Wind (G83)
Roosevelt County									
6 NW Portales	13	1730MST			0	0	5K		Thunderstorm Wind (G70)

Thunderstorms which produced large hail over central New Mexico between Las Vegas and Clines Corners moved east with a strong

Storm Data and Unusual Weather Phenomena

June 2003

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 MEXICO, Central and North

out flow boundary to trigger additional intense storms over east central sections of the state. A swath of very strong down burst and out flow winds were reported from west of Clovis over Cannon Air Force Base then southeast into extreme northeast Roosevelt County between Clovis and Portales. Wind damage was reported on the Air Base and in a base housing complex northwest of Portales.

Union County

10 NE Folsom 13 1335MST 0 0 Hail (1.00)

Quay County

8 SW Tucumcari 19 2030MST
2130MST 0 0 Flash Flood

Sheriff deputies reported low water crossings flooded and several county roads closed by heavy rain southwest of Tucumcari.

Torrance County

7 SW Encino 20 1117MST 0 0 Hail (0.88)

Roosevelt County

Elida 20 1504MST 0 0 Hail (1.25)

Roosevelt County

Elida 20 1525MST 0 0 Hail (1.00)

Roosevelt County

Pep to
11 N Milnesand 20 1625MST
1630MST 0 0 Hail (1.75)

Roosevelt County

Causey 20 1655MST 0 0 Hail (0.75)

Chaves County

1 N Roswell 20 1550MST 0 0 Hail (0.75)

Curry County

3 N Broadview 23 1420MST 0 0 Hail (1.75)

Roosevelt County

Portales 23 1440MST 0 0 Thunderstorm Wind (G60)

Quay County

8 S San Jon 25 2325MST 0 0 Hail (0.88)

Curry County

Clovis 26 0100MST 0 0 Hail (0.88)

Socorro County

10 S Magdalena 27 1520MST 0 0 Hail (0.88)

Union County

12 E Gladstone 27 1718MST 0 0 Hail (1.00)

NEW MEXICO, South Central and Southwest

Otero County

15 NW Holloman Afb 05 1500MST 0 0 Thunderstorm Wind (G60)

Otero County

15 NE Mescalero 05 1645MST
1655MST 0.2 15 0 0 Tornado (F0)

The U.S. Forest Service reported a small tornado (landspout) just east of Whitetail which knocked down a few trees.

Otero County

5 NW Holloman Afb 09 1515MST 0 0 Thunderstorm Wind (G62)

Dona Ana County

3 E White Sands 16 1715MST 0 0 Thunderstorm Wind (G52)

Dona Ana County

9 NW Sunland Park 16 1804MST 0 0 Thunderstorm Wind (G57)

Sierra County

Hillsboro 27 1420MST 0 0 Hail (0.75)

Sierra County

Hillsboro 27 1420MST 0 0 Thunderstorm Wind (G50)

Otero County

2 S Pinon 27 1458MST 0 0 Hail (1.00)

Dona Ana County

3 N Radium Spgs 27 1625MST 0 0 Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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, Southeast

Eddy County

Carlsbad	05	1834MST			0	0	0	0	Hail (0.75)
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Lea County

5 S Tatum	05	1900MST			0	0	0	0	Hail (0.75)
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The public reported a large amount of penny size hail falling near Tatum. Reports indicated the hail killed birds, which then fell out of trees onto the ground.

Lea County

2 W Lovington	05	2000MST			0	0	0	0	Thunderstorm Wind (G65)
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A severe thunderstorm wind gust of 75 MPH was recorded at the Lovington Airport. No significant damage was reported.

Lea County

Hobbs	05	2015MST			0	0	5K	0	Thunderstorm Wind (G57)
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A trained weather spotter reported severe thunderstorm winds which resulted in downed power lines in the city of Hobbs.

Severe thunderstorms affected parts of southeast New Mexico during the evening of the 5th. Large hail and damaging thunderstorm winds were reported.

Eddy County

3 S Hope to 2 S Hope	09	1715MST 1720MST			0	0	0	0	Hail (1.00)
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Eddy County

4 S Artesia to 4.5 S Artesia	09	1800MST			0	0	10K	0	Thunderstorm Wind (G57)
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Severe thunderstorm winds snapped several power poles in half along Highway 285.

Eddy County

Loving	09	1800MST			0	0	5K	0	Thunderstorm Wind (G61)
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Local authorities reported power lines blown down by severe thunderstorm gusts.

Lea County

Hobbs	09	1905MST			0	0	0	0	Thunderstorm Wind (G57)
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Severe thunderstorm wind gusts were reported in Hobbs.

Thunderstorms moving east into the plains from the New Mexico mountains became severe across parts of Eddy and Lea Counties during the evening of the 9th. These storms resulted in large hail and damaging winds which blew down power lines and poles.

Lea County

Monument	13	1930MST			0	0	0	0	Hail (1.75)
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Widespread severe thunderstorms across West Texas during the afternoon and early evening of the 13th resulted in an outflow boundary which moved across parts of the southeast New Mexico plains. Linear strong to severe thunderstorms developed along the boundary by mid evening. One of the stronger storms in the line resulted in large hail near Monument.

Eddy County

25 E Carlsbad	14	1820MST			0	0	0	0	Hail (1.50)
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An isolated low precipitation supercell propagated south to southwest across the plains of Eddy County, mostly across rural areas. The storm affected the U.S. Department of Energy WIPP site east of Carlsbad, where it produced ping pong ball size hail.

Eddy County

6 NW Carlsbad	20	1451CST			0	0	0	0	Hail (1.75)
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Golfball size hail was reported at Brantley Lake.

Lea County

2 SE Buckeye	20	1705MST 1725MST			0	0	0	0	Hail (1.00)
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Intermittent hail was reported falling along State Highway 238 near Buckeye for twenty minutes. The hail stones were nickel to quarter size.

Lea County

8 N Hobbs	20	1729MST			0	0	0	0	Thunderstorm Wind (G52)
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Severe thunderstorms affected the southeast New Mexico plains producing large hail and damaging winds during the afternoon and evening of the 20th.

NEW YORK, Central

Broome County

Doraville to Sanford	13 14	2145EST 2330EST			5	0	100K		Flash Flood
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Showers with heavy rain trained across eastern Broome County into western Delaware County the evening of the June 13th. The

Storm Data and Unusual Weather Phenomena

June 2003

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, Central

showers started around 7 PM EST and continued for three hours. Radar rainfall estimates were 3 to 5 inches. There was no cloud to ground lightning. A narrow area was affected from the town of Colesville east northeast through the towns of Sanford and Deposit to the towns of Tompkins and Masonville. Many roads flooded. In Broome County, in the town of Colesville, Harper Hill Road, Hartz Road, and Buman Road all washed out. Also in Broome County in the town of Sanford, Clark Road, Huggens Road, and Shamley Road washed out. On Harper Hill Road a 6 foot pipe culvert washed out near Thorne Road and the village of Doraville. The rainfall caused a beaver dam to break at the top of a steep hill above Harper Hill Road. Sometime during the night a Toyota Tercel containing five people drove into the creek where the road was washed out. All five people died. None were found in the car. Three bodies were found in the creek. The other two were found downstream washed up along the Susquehanna River. The creek empties into the river about a half mile from where it crosses Harper Hill Road. F17VE, M19VE, M26VE, M6VE, M1VE

Delaware County

**Deposit to
Masonville**

13	2239EST								
14	0030EST				0	0	50K		Flash Flood

Showers with heavy rain trained across eastern Broome County into western Delaware County the evening of the June 13th. The showers started around 7 PM EST and continued for three hours. Radar rainfall estimates were 3 to 5 inches. A rain spotter in Masonville reported 3.4 inches of rain. There was no cloud to ground lightning. A narrow area was affected from the town of Colesville east northeast through the towns of Sanford and Deposit to the towns of Tompkins and Masonville. Many roads flooded. In Delaware County, flooded roads included state route 8 in the towns of Deposit and Masonville, state route 206 in the town of Masonville, China Road in the town of Deposit, Shear Road in the town of Masonville, and county highway 27 in the town of Tompkins near the village of Trout Creek.

NEW YORK, Coastal

Nassau County

**Lattingtown to
Syosset**

14	1500EST								
	1515EST				0	0			Thunderstorm Wind (G52)

Queens County

**Central Portion to
(Jfk)Kennedy Intl Arp**

14	1530EST								
					0	0			Thunderstorm Wind (G52)

Suffolk County

West Islip

14	1530EST								
					0	0			Thunderstorm Wind (G52)

As a cluster of severe thunderstorms moved southeast, they produced damaging wind gusts, small hail, and torrential rain.

In Nassau County, high wind gusts downed a power line in Lattingtown and trees in Syosset, which were reported by local law enforcement.

In Queens, the NYC Office of Emergency Management reported numerous trees down in Jamaica and Briarwood.

In Suffolk County, a trained spotter reported numerous trees downed, small hail, and localized street flooding.

Suffolk County

Mattituck

30	1300EST								
					0	0			Hail (1.75)

Suffolk County

Medford Station

30	1345EST								
					0	0			Thunderstorm Wind (G60)

Suffolk County

North Haven

30	1345EST								
					0	0			Hail (1.75)

As a cluster of severe thunderstorms moved east, it produced golf ball size hail, around 1.75 inches in diameter, along its' path from near Mattituck through North Haven. Strong wind gusts also blew a 15 foot boat off its' trailer in North Haven.

The National Weather Service determined that a cluster of severe thunderstorms produced a down burst in the northern section of Medford. Tree damage and some minor house damage were scattered throughout two adjacent neighborhoods. This damage was observed along Race, Beechnut, Wave, and Watch Hill Avenues. Eyewitnesses stated that the rain was so heavy that visibilities were near zero while high winds blew down numerous trees in a 1 to 3 minute period. Urban flooding and small hail also accompanied this storm.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NEW YORK, East</u>									
NYZ033									
Hamilton									
	02	0500EST			0	0			Frost/Freeze
		0600EST							
Canadian high pressure built over northern New York on the morning of June 2. With a mainly clear sky and light wind, ideal radiational cooling took place. By sunrise, temperatures bottomed out around the freezing mark over portions of Hamilton County. No problems were reported to the National Weather Service as a result of this freeze.									
Washington County									
South Argyle	29	1615EST			0	1			Lightning
Washington County									
South Argyle	29	1615EST			0	0	50K		Thunderstorm Wind (G75)
		1630EST							
A weak upper level disturbance spawned isolated showers and thunderstorms across eastern New York on the afternoon of June 29. One of the storms briefly pulsed up and became severe as it moved across South Argyle in Washington County, producing a microburst as well as an unusually large number of cloud to ground lightning strikes. Thunderstorm winds, estimated between 70 and 90 mph by a NWS Survey, produced three distinct clusters of damage, less than a mile from each other. The first cluster of damage occurred on Harper Road, just west of Lick Spring Road., where numerous tree limbs broke off and a one story house cathedral roof was partially ripped off and buckled. In a second area, a 15-inch diameter pine tree was uprooted, and the tops off many smaller ones were snapped off. One final area on McNeil Road saw more tree damage, including a 200-year old maple tree. During the storm, an Argyle man was reported to have been struck by lightning while working in his garage. He was transported to the Glens Falls Hospital and later released. The storms caused spotty power outages as well.									
Dutchess County									
Clinton Corners	29	1647EST			0	0	50K		Lightning
Dutchess County									
Clinton Corners	29	1710EST			0	0	75K		Lightning
On the evening of June 29, lightning from a thunderstorm struck two homes within close proximity in the town of Clinton, Dutchess County. Both houses caught fire. The first house had extensive damage, while the second smaller cottage was completely gutted. No casualties were reported to the National Weather Service as a result of these lightning strikes.									
Saratoga County									
Clifton Park	30	0330EST			0	0	50K		Lightning
During the predawn hour on June 30, lightning from a thunderstorm struck a house in Clifton Park, causing a fire in the upper portions of the structure which produced extensive damage. No injuries were reported to the National Weather Service.									
<u>NEW YORK, North</u>									
St. Lawrence County									
Fowler	29	2120EST			0	0			Hail (1.25)
An area of low pressure moved across southern Canada during Sunday, June 29th. The associated cold front moved into northern New York during late Sunday night (June 29th). Thunderstorms developed along and ahead of this cold front. Some of the thunderstorms resulted in large hail and strong winds. In the town of Fowler, hail 1.25 inches in diameter was reported.									
<u>NEW YORK, West</u>									
Chautauqua County									
Findley Lake	08	1755EST			0	0	15K		Thunderstorm Wind (G60)
Chautauqua County									
Arkwright	08	1850EST			0	0	5K		Thunderstorm Wind (G65)
Erie County									
Hamburg	08	1915EST			0	0	10K		Thunderstorm Wind (G65)
Erie County									
East Aurora	08	1935EST			0	0	10K		Thunderstorm Wind (G65)
Cattaraugus County									
Ellicottville	08	1955EST			0	0	15K		Thunderstorm Wind (G60)
Thunderstorms that crossed the western southern tier region during the evening hours produced damaging winds, downing trees and power lines. Power lines were reported down in Findley Lake, Forestville, Arkwright, Hamburg and East Aurora. Trees were reported down in Silver Creek, Ellicottville, and Pomfret.									
<u>NORTH CAROLINA, Central</u>									
Halifax County									
Scotland Neck	07	1700EST			0	0	250K		Thunderstorm Wind (G70)
Trees were uprooted and 21 homes were damaged. 3 businesses had their roofs ripped off and windows blown out.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
<u>NORTH CAROLINA, Central</u>									
Wake County									
Raleigh	07	2035EST 2230EST			0	0			Flash Flood
A foot or more of water flooded several roads.									
Nash County									
Nashville	07	2040EST 2200EST			0	0			Flash Flood
Flooding forced evacuations in a mobile home park, and several roads were flooded.									
Forsyth County									
Pfafftown	08	1950EST			0	0			Thunderstorm Wind (G57)
Trees were blown down on Reynolds Road.									
Forsyth County									
Lewisville	08	2014EST			0	0			Thunderstorm Wind (G50)
Several trees were blown down.									
Davidson County									
Midway	08	2017EST			0	0			Thunderstorm Wind (G50)
Several trees were blown down.									
Davidson County									
5 NE Thomasville	08	2034EST			0	0			Thunderstorm Wind (G50)
Trees were blown down along Culbuth Road.									
Davidson County									
Lexington	08	2115EST 2230EST			0	0			Flash Flood
Flooding occurred along highways 47, 70, and 29 in Lexington.									
Randolph County									
Archdale	08	2139EST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down.									
Cumberland County									
4 W Cedar Creek	11	1755EST			0	0			Thunderstorm Wind (G50)
The tops of several trees were snapped off in the Gray's Creek area.									
Scotland County									
5 NW Wagram	12	1600EST 1700EST			0	0			Flash Flood
Highway 15/501 was flooded northwest of Wagram.									
Richmond County									
Rockingham	12	1607EST 1700EST			0	0			Flash Flood
Several intersections were flooded, along with portions of highways 1 and 220.									
Alamance County									
Burlington	16	1425EST 1600EST			0	0			Flash Flood
Several homes were damaged by flooding.									
Sampson County									
Hobbs	16	1600EST			0	0			Hail (0.75)
Montgomery County									
South Portion	16	1720EST 1830EST			0	0			Flash Flood
Highway 24 in southern Montgomery County was flooded, along with several other secondary roads.									
Moore County									
East Portion	16	1750EST 1900EST			0	0			Flash Flood
Numerous roads were flooded, including highway 15/501 and Atkins Road. Creeks overflowed their banks.									
Sampson County									
South Central Portion	16	1800EST 1900EST			0	0			Flash Flood
Roads were flooded between Clinton and Harrells.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, Central</u>									
Stanly County									
South Portion	16	1800EST 2200EST			5	0			Flash Flood
									4 people were killed when driving across a flooded bridge across Hardy Creek in Cottonville. Another man was killed when driving across a flooded bridge across Ugly Creek in Norwood. Cars were stranded in Norwood and Locust, and people had to be rescued. 3 businesses in Oakboro were flooded. F28VE, M45VE, M8VE, M47VE, M40VE
Montgomery County									
Southwest Portion	16	1920EST 2100EST			0	0			Flash Flood
									Many roads were flooded including Lillies Bridge Road, Hydro Road, and River Road.
Cumberland County									
Hope Mills	16	1940EST 2100EST			0	0			Flash Flood
									Homes were evacuated due to flooding, and numerous roads were flooded. One person had to be rescued from a stranded car.
Anson County									
Polkton	16	2000EST 2100EST			0	0			Flash Flood
									Streams overflowed their banks and roads were flooded.
Stanly County									
Albemarle	18	1720EST 1830EST			0	0			Flash Flood
									Roads were flooded with two feet of water to the north and west of Albemarle.
Montgomery County									
Eldorado	18	1741EST 1900EST			0	0			Flash Flood
									Road flooding occurred in the northwest part of the county.
Anson County									
Ansonville	18	1824EST 1930EST			0	0			Flash Flood
									Roads were closed due to flooding.
Sampson County									
Harrells	20	1218EST			0	0			Hail (0.75)
Guilford County									
Greensboro	27	1730EST			0	0			Thunderstorm Wind (G52)
Guilford County									
Greensboro	27	1745EST			0	0			Thunderstorm Wind (G50)
									Trees were blown down, damaging an apartment complex near Four Seasons Mall.
<u>NORTH CAROLINA, Central Coastal</u>									
Duplin County									
Rose Hill	16	1740EST 1830EST			0	0			Flash Flood
									Duplin County 911 reported street flooding in Rose Hill. Also, highways 117 and 50 were reported flooded.
Duplin County									
Rose Hill	16	1740EST 1830EST			0	0			Flash Flood
									Duplin County 911 reported street flooding in Rose Hill. Also, highways 50 and 117 were reported flooded.
Craven County									
North Harlowe	19	1915EST			1	1			Lightning
									Craven County Emergency Management reported a lightning fatality which occurred on Adams Creek in the Harlowe area of southeastern Craven County.
									M72BO
Dare County									
1 W East Lake	28	1430EST			0	0			Thunderstorm Wind (G56)
									Alligator River Bridge tender reported 65 mph wind gust.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, Central Coastal</u>									
Dare County									
1 W East Lake	28	1430EST			0	0			Thunderstorm Wind (G56)
Alligator River Bridge Tender reported a 65 mph wind gust.									
Pitt County									
3 NE Falkland	28	1545EST			0	0			Thunderstorm Wind (G50)
Pitt County Sheriff's office reported a barn damaged and a roof blown off a large shelter.									
<u>NORTH CAROLINA, Extreme Southwest</u>									
Cherokee County									
Hiwasse Dam	11	1900EST			0	0	6K		Thunderstorm Wind (G55)
Two large trees were reported down on highway 294 in the Hiwasee Dam area.									
Cherokee County									
Oak Park	11	1920EST			0	0	18K		Thunderstorm Wind (G55)
Several trees and power lines down across the west portion of the county.									
<u>NORTH CAROLINA, North Coastal</u>									
Bertie County									
Aulander	07	1736EST			0	0	2K		Thunderstorm Wind (G50)
Three trees down.									
Hertford County									
St John	07	1740EST			0	0	2K		Thunderstorm Wind (G50)
Few trees down.									
Gates County									
Eure	07	1804EST			0	0	2K		Thunderstorm Wind (G50)
Trees down.									
Gates County									
Gates	07	1815EST			0	0	2K		Thunderstorm Wind (G50)
Trees down.									
Hertford County									
1 W Ahoskie	07	1815EST			0	0	2K		Thunderstorm Wind (G50)
Several trees and large 8 inch tree limbs down on Route 561 between Saint John and Ahoskie.									
Currituck County									
1 S Moyock	07	1955EST	3	100	0	2	25K		Tornado (F0)
Numerous trees down. Some siding stripped off houses. Any structural damage was from falling trees and debris. Two injuries occurred when a large tree fell on a house and collapsed the roof of the one story building.									
<u>NORTH CAROLINA, Northwest and North Central</u>									
Wilkes County									
Millers Creek	08	1823EST			0	0	0		Thunderstorm Wind (G65)
Wilkes County									
10 NE Wilkesboro	08	1823EST			0	0	0		Thunderstorm Wind (G60)
Watauga County									
Aho	08	1830EST 2030EST			0	0	10K		Flash Flood
Yadkin County									
West Portion	08	1905EST 1915EST			0	0	0		Thunderstorm Wind (G65)
Wilkes County									
Roaring River	08	1938EST			0	0	0		Thunderstorm Wind (G65)
Rockingham County									
Ayersville	08	2000EST			0	0	0		Thunderstorm Wind (G65)
Rockingham County									
Draper	08	2030EST 2130EST			0	0	0		Flash Flood
Rockingham County									
5 NW Wentworth	08	2032EST			0	0	0		Thunderstorm Wind (G65)
Rockingham County									
5 E Eden	08	2050EST 2130EST			0	0	0		Flash Flood

Storm Data and Unusual Weather Phenomena

June 2003

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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NORTH CAROLINA, Northwest and North Central

Caswell County

Hamer	08	2100EST			0	0	1K		Thunderstorm Wind (G65)
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Thunderstorms during the 8th produced flash flooding and damaging winds,

Heavy thunderstorm rains caused a partial washout of State Route 1514 near Aho and U.S. Route 321 at Aho Road. Heavy rains also flooded Dry Creek in Draper with water 6 inches deep running across the road. 5 miles east of Eden a creek flooded across Wolf Island Road.

Thunderstorm winds downed trees in Millers Creek, Roaring River, 10 miles northeast of Wilkesboro, western Yadkin County, Ayersville, 5 miles northwest of Wentworth, across Route 62 in Hamer, and also tore the roof off of a tobacco barn in Hamer.

Alleghany County

Glade Vly	11	2005EST			0	0	0		Thunderstorm Wind (G65)
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Stokes County

5 N Danbury	11	2055EST			0	0	0		Thunderstorm Wind (G60)
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Stokes County

North Portion	11	2055EST 2110EST			0	0	0		Thunderstorm Wind (G65)
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Stokes County

Danbury	11	2105EST			0	0	0		Thunderstorm Wind (G65)
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Thunderstorms on the 11th produced damaging winds.

Thunderstorm winds downed trees in Glade Valley, in northern Stokes County, and in Danbury, and 5 miles north of Danbury.

Rockingham County

Countywide	12	1305EST 1335EST			0	0	0		Thunderstorm Wind (G65)
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Thunderstorms winds on the 12th downed trees across Rockingham County.

Watauga County

Boone	14	1640EST 1945EST			0	0			Flash Flood
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Thunderstorms with very heavy rain brought flash flooding to the Boone area during the late afternoon and evening of the 14th.

Goshen Creek flooded in the Deerfield area, with roads covered by water, including Highway 105, south of Boone.

Rockingham County

Madison	15	1600EST 1805EST			0	0			Flash Flood
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Rockingham County

3 SW Mayodan	15	1600EST 1805EST			0	0			Flash Flood
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Heavy thunderstorm rains brought flash flooding to Western Rockingham County during the afternoon of the 15th. Portions of Highways 135 and 220 were flooded and closed 3 miles southwest of Mayodan. Dan Valley Road was flooded and closed at Madison City.

Watauga County

Blowing Rock	30	1225EST			0	0			Hail (0.88)
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Alleghany County

Sparta	30	1329EST			0	0			Hail (0.75)
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Thunderstorms on the 30th produced up to nickel size hail.

NORTH CAROLINA, South Coastal

Bladen County

Ammon	20	1145EST			0	0			Thunderstorm Wind (G60)
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The 911 center reported trees down on power lines.

Bladen County

6 NE White Lake	20	1200EST			0	0			Thunderstorm Wind (G60)
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A large tree was reported down on power lines.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, South Coastal</u>									
Columbus County									
5 S Cerro Gordo	20	1335EST			0	0			Hail (1.00)
A spotter reported quarter size hail and strong winds.									
<u>NORTH CAROLINA, Southwest</u>									
Cabarrus County									
6 SE Kannapolis	03	1440EST			0	0	25K		Thunderstorm Wind (G55)
Outbuildings and a garage were damaged. A chimney was damaged at a residence. Also, some trees were blown down.									
Iredell County									
Troutman	04	1315EST			0	0	25K		Thunderstorm Wind (G60)
A barn was demolished, and a large tractor shed was damaged. A large tree was also blown down.									
Lincoln County									
Lincolnton	07	1800EST 2000EST			0	0	10K		Flash Flood
A tributary of the South Fork of the Catawba River overflowed its banks, flooding Battleground Rd, as well as the basements of homes.									
Mecklenburg County									
Charlotte	07	2000EST			0	0	1M		Flash Flood
	08	0100EST							
Slow-moving thunderstorms producing very heavy rainfall caused severe urban flooding to develop in the Charlotte metro area during the evening of the 7th. Water levels on the Briar and Sugar Creek systems rose rapidly and overflowed their banks. Deep water was covering portions of Independence Blvd, and several vehicles were submerged. The first floor of a hotel was flooded, causing severe damage that necessitated rebuilding of the hotel. Several large sinkholes also developed. People required rescue from 2 apartment complexes, as well as from submerged vehicles.									
Cabarrus County									
Harrisburg	07	2300EST			0	0			Flash Flood
	08	0200EST							
Severe urban flooding developed, as several roads across the Harrisburg area became completely covered in water. Several streams also overflowed their banks.									
Buncombe County									
Arden	08	1325EST			0	0			Thunderstorm Wind (G50)
Several trees were blown down.									
McDowell County									
Old Ft	08	1734EST			0	0			Hail (1.00)
McDowell County									
Old Ft	08	1734EST			0	0			Thunderstorm Wind (G50)
A few trees were blown down. One fallen tree blocked a portion of I-40.									
Avery County									
Crossnore	08	1740EST			0	0			Hail (0.88)
Hail covered the ground.									
Rutherford County									
Union Mills	08	1900EST			0	0			Thunderstorm Wind (G50)
Some trees were blown down.									
Alexander County									
6 N Taylorsville	08	1905EST			0	0	5K		Thunderstorm Wind (G65)
Numerous trees and power lines were blown down. Several poultry houses were damaged or destroyed.									
Cleveland County									
3 W Casar	08	1920EST			0	0			Thunderstorm Wind (G50)
Some trees were blown down.									
Lincoln County									
Lincolnton	08	1935EST			0	0	1K		Thunderstorm Wind (G50)
A few trees and large tree limbs were blown down. The roof was blown off a shed.									
Iredell County									
5 NW Cool Spg	08	1945EST			0	0			Hail (0.75)
Davie County									
Sheffield	08	2030EST			0	0			Hail (1.00)
Davie County									
Sheffield	08	2030EST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, Southwest</u>									
Iredell County									
10 NW Statesville to Harmony	08 09	2100EST 0000EST			0	0			Flash Flood
Numerous creeks flooded, especially across the northern quarter of the county. Several roads were under water.									
Cabarrus County									
Harrisburg	08 09	2200EST 0100EST			0	0	10K		Flash Flood
For the second night in a row, slow moving thunderstorms caused flash flooding in the Harrisburg area. The Rocky River and some of its tributaries flooded around the city. A couple of subdivisions were flooded, and some people required rescue from their homes.									
Transylvania County									
Lake Toxaway	11	1330EST			0	0			Hail (0.75)
Transylvania County									
Lake Toxaway	11	1330EST			0	0			Thunderstorm Wind (G50)
Some trees were blown down.									
Alexander County									
Hiddenite	11	1910EST			0	0			Thunderstorm Wind (G50)
Several trees were blown down.									
Caldwell County									
Lenoir to 10 SE Lenoir	14	1700EST 1800EST			0	0			Flash Flood
Flooding developed along Lower Creek in and around Lenoir. Flooding also occurred on portions of highway 321A in areas southeast of Lenoir.									
Buncombe County									
Weaverville	15	1330EST			0	0	1K		Thunderstorm Wind (G50)
A tree, several large tree limbs, and power lines were blown down									
Rutherford County									
Rutherfordton	15	1440EST			0	0	1K		Thunderstorm Wind (G50)
Some trees and power lines were blown down.									
Caldwell County									
10 NE Lenoir	15	1440EST 1700EST			0	0			Flash Flood
Kings Creek flooded a portion of highway 268. Also, a mudslide developed in the same location.									
Henderson County									
Hendersonville	15	1700EST			0	0			Heavy Rain
Heavy rain resulted in over 40 gallons of wastewater flowing into Sandy Creek.									
Burke County									
Morganton	15 16	2230EST 0000EST			0	0			Flash Flood
Water levels rose rapidly on creeks and streams and flooded portions of interstate 40 and highway 70. A ramp was under water at exit 118 on I-40. Flat Top Rd was also flooded.									
McDowell County									
Nebo	15 16	2230EST 0000EST			0	0			Flash Flood
Three to five feet of water covered some roads in the area. A portion of highway 70 was under water. Several bridges were also covered with water.									
Alexander County									
2 E Bethlehem	16	1555EST			0	0			Thunderstorm Wind (G60)
Some trees were blown down and shingles were blown off a roof.									
Alexander County									
Bethlehem	16	1600EST			0	0	35K		Thunderstorm Wind (G65)
Numerous trees were blown down and the roof was blown off a house at Lake Hickory.									
Catawba County									
8 NE Hickory	16	1555EST 1800EST			0	0	60K		Flash Flood
Several roads were covered with water. A culvert on River Bend Rd collapsed, causing part of the road to wash away.									
Catawba County									
7 NE Hickory	16	1600EST			0	0			Thunderstorm Wind (G60)
Numerous trees were blown down around Lake Hickory.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, Southwest</u>									
Alexander County									
Bethlehem	16	1600EST 1800EST			0	0			Flash Flood
Several roads were closed due to flooding.									
Iredell County									
3 W Statesville to 5 W Statesville	16	1615EST 1900EST			0	0	20K		Flash Flood
Highway 70 was covered with water. A museum in this area was flooded and forced to relocate. Highway 90 and Bristol Rd were also covered with water.									
Burke County									
2 W Morganton	16	1625EST 1700EST			0	0			Flash Flood
An exit ramp off of I-40 was closed due to flooding.									
Iredell County									
Mooresville	16	1642EST			0	0			Hail (0.75)
Cabarrus County									
Mt Pleasant	16	1715EST			0	0			Thunderstorm Wind (G50)
Numerous trees were blown down.									
Rowan County									
9 NW Kannapolis	16	1730EST 1830EST			0	0			Flash Flood
Highway 150 was covered with water at its intersection with Bradshaw Rd.									
Rowan County									
Kannapolis	16	1730EST 1830EST			0	0			Flash Flood
Urban flooding occurred across much of the city.									
Cabarrus County									
Kannapolis	16	1730EST 1900EST			0	0	10K		Flash Flood
Urban flooding was widespread throughout the city. Some residents required evacuation on McClain Rd. A bridge was damaged by the high water and required closing for at least a 7 month period.									
Mecklenburg County									
9 NE Charlotte	16	1738EST 1900EST			0	0			Flash Flood
Flooding of roads and a campground was reported in areas near the Charlotte Motor Speedway.									
Cabarrus County									
Harrisburg	16	1738EST 2000EST			0	0			Flash Flood
Some roads were flooded near the Charlotte Motor Speedway.									
Iredell County									
3 S Troutman	16	1750EST 1900EST			0	0	20K		Flash Flood
Seven to ten vehicles were trapped by high water.									
Mecklenburg County									
Matthews to Charlotte	16	1750EST 1900EST			0	0	50K		Flash Flood
A vehicle traveling along Monroe Rd was washed into Briar Creek. Four Mile Creek flooded several yards. Water was also covering I-85 near the I-77 exchange.									
Mecklenburg County									
Charlotte	16	1820EST			0	0	250K		Lightning
Lightning struck the roof of a condominium, resulting in a fire which caused significant damage.									
Rowan County									
10 SW Salisbury	16	1854EST			0	0			Thunderstorm Wind (G50)
Some trees were blown down.									
Union County									
Wingate to Marshville	16	1940EST 2130EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH CAROLINA, Southwest</u>									
Cabarrus County									
Mt Pleasant	16	2030EST 2200EST			0	0	10K		Flash Flood
A motorist required rescue after his vehicle was swept into creek. Another motorist required rescue from his vehicle. Several trees were also washed away due to the heavy rainfall.									
Union County									
Waxhaw	17	2000EST 2300EST			0	0	100K		Flash Flood
A number of creeks and small streams rose rapidly and overflowed their banks, including the Rocky River, Cane Creek, and Lynches Creek. Thirteen people required rescue after being caught in flood water. This included 6 people whose vehicles were swept into a creek along Sandy Ridge Rd. A house was flooded by Cane Creek.									
Cabarrus County									
Concord	18	1515EST 1900EST			0	0			Flash Flood
Several streams overflowed their banks in and around the city.									
Union County									
Monroe	18	1745EST 2000EST			0	0			Flash Flood
Numerous roads were closed around the city due to high water. Part of highway 601 was also closed north of the city.									
Mecklenburg County									
Charlotte	18	1745EST 2000EST			0	0			Flash Flood
Several streets were closed on the east side of the city due to high water, including Independence, Randolph, Ballentyne Corporate Rd, and Sam Newell Rd.									
Caldwell County									
Lenoir	18	2200EST 19 0200EST			0	0			Flash Flood
Some flooding occurred along highway 90 north of Lenoir. There was also flooding in the Kings Creek area.									
Caldwell County									
15 NW Lenoir	19	0000EST 0200EST			0	0			Flash Flood
Some small streams flooded and land and mudslides occurred along highway 321.									
Polk County									
Countywide	27	1630EST 1700EST			0	0			Thunderstorm Wind (G50)
Several trees were blown down.									
Caldwell County									
16 NW Lenoir	30	1300EST			0	0			Hail (0.88)
Hail was reported in the Blowing Rock area.									
<u>NORTH DAKOTA, Central and West</u>									
Golden Valley County									
8 S Beach	02	1620CST			0	0			Hail (0.88)
Grant County									
Elgin	03	1245CST 1250CST			0	0			Funnel Cloud
Several funnel clouds were sighted, one over the city of Elgin and two more 6 and 12 miles north of Elgin.									
Emmons County									
4 SW Strasburg	05	1135CST 1136CST	0	20	0	0			Tornado (F0)
Weak funnel briefly touched down in rural farm field.									
Billings County									
3 E Fryburg	11	1636CST 1641CST			0	0			Hail (0.75)
Mainly pea size hail along with very heavy rain.									
Logan County									
Burnstad	11	1817CST			0	0			Hail (0.75)
La Moure County									
6 NE Edgeley	11	1955CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH DAKOTA, Central and West</u>									
La Moure County									
7 N La Moure	11	2040CST			0	0			Hail (0.75)
Mountrail County									
1 S White Earth	14	1515CST			0	0			Hail (0.75)
Burke County									
2 S Lignite	14	1605CST 1608CST			0	0			Hail (0.75)
Heavy rain and strong winds accompanied the storm.									
Mountrail County									
3 NW Ross	14	1705CST			0	0			Hail (1.00)
Mountrail County									
7 SW Stanley	14	1735CST			0	0			Hail (1.25)
Mckenzie County									
13 NE Keene	14	1800CST			0	0			Hail (0.75)
Mostly pea size hail.									
Mountrail County									
5 E New Town	14	1855CST			0	0			Hail (0.75)
Accompanied by 50 mph winds.									
Bottineau County									
7 N Antler	15	1540CST			0	0			Hail (0.75)
Hail covered the ground.									
Ward County									
Donnybrook	15	1600CST			0	0			Funnel Cloud
Funnel cloud was brief and dissipated as it moved northeast of Donnybrook.									
Dunn County									
10 SW Manning	15	1745CST			0	0			Hail (1.75)
Mchenry County									
3 W Drake	15	2000CST			0	0			Hail (1.00)
Mclean County									
Coleharbor	15	2022CST			0	0			Hail (1.00)
Mchenry County									
9 NE Balfour	15	2032CST			0	0			Hail (1.00)
Pierce County									
Rugby	15	2047CST 2051CST			0	0			Hail (0.75)
Mckenzie County									
3 N Keene	15	2130CST			0	0			Hail (0.88)
Farmer reported 20% of his canola crop destroyed.									
Mckenzie County									
Mandaree	15	2206CST			0	0			Hail (1.00)
Bottineau County									
Maxbass	15	2317CST			0	0			Hail (0.88)
Mclean County									
9 SSW Mercer to 4 SSW Mercer	21	1527CST 1539CST	5	40	0	0			Tornado (F0)
Tornado touched down in open country and moved east northeast remaining over open country then dissipating 4 miles south southwest of Mercer.									
Burleigh County									
Baldwin	21	1530CST 1538CST			0	0			Hail (2.00)
Burleigh County									
2 SW Baldwin	21	1532CST			0	0			Hail (0.75)
Burleigh County									
Regan	21	1620CST 1622CST			0	0			Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH DAKOTA, Central and West</u>									
Mchenry County									
6 N Karlsruhe	21	1630CST 1632CST			0	0			Hail (1.00)
Reported by a NWS cooperative observer.									
Pierce County									
6 SE Rugby	21	1715CST 1718CST			0	0			Hail (1.00)
Kidder County									
4 E Tappen	21	1744CST	0	30	0	0			Tornado (F0)
Tornado briefly touched down in open country.									
Wells County									
2 S Heaton	21	1746CST			0	0			Hail (0.75)
Mcintosh County									
Ashley	21	1830CST 1835CST			0	0			Thunderstorm Wind (G52)
Stutsman County									
(Jms)Jamestown Muni	21	1858CST 1903CST			0	0			Thunderstorm Wind (G58)
Emmons County									
Hazelton	23	0330CST			0	0			Hail (1.75)
The storm wiped out 1,175 acres of crop from various sizes of hail ranging from pea to golfball.									
Stutsman County									
Montpelier	23	0550CST			0	0			Hail (1.75)
Pea to golfball size hail accumulated up to a foot in places stripping paint off several buildings. Rainfall with the storm totaled 2.5 inches. The hail also caused 50 to 100 percent loss to 47,000 acres of cropland.									
Stutsman County									
Montpelier	24	2030CST 2045CST			0	0			Thunderstorm Wind (G52)
Several trees 6-8 inches in diameter snapped and 12 foot evergreens bent over. Reported by a NWS cooperative observer.									
La Moure County									
3 E Grand Rapids	24	2100CST			0	0			Thunderstorm Wind (G61)
Public reported could not keep vehicle on the road.									
Rolette County									
5 W Belcourt	26	1455CST 1458CST			0	0			Hail (0.75)
Hail covered the ground.									
Stutsman County									
Medina	27	1410CST 1415CST			0	0			Funnel Cloud
Numerous funnel clouds were reported with the storm.									
La Moure County									
5 N Jud	27	1428CST 1430CST			0	0			Hail (0.75)
Bottineau County									
10 NW Maxbass	27	1455CST 1500CST			0	0			Hail (1.75)
Dickey County									
10 W Oakes to 15 W Oakes	27	1548CST 1558CST	5	30	0	0			Tornado (F0)
Tornado dipped up and down remaining over open country.									
Dickey County									
2 SE Ludden	27	1630CST 1635CST	0	40	0	0			Tornado (F0)
Tornado touched down in open country just north of the South Dakota border. Tornado lifted before crossing into South Dakota.									
Foster County									
Mc Henry	27	2023CST 2024CST	0	30	0	0			Tornado (F0)
Briefly touched down in open field.									

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Grand Forks County									
3 S Holmes	06	1215CST			0	0			Hail (0.75)
Traill County									
8 W Reynolds	06	1215CST			0	0			Hail (0.75)
Cavalier County									
7 W Wales	06	1316CST 1319CST	0.5	25	0	0			Tornado (F0)
A brief touchdown was reported in an open field.									
Cass County									
Fargo	06	1610CST			0	0			Hail (0.75)
The hail fell on the north side of the city.									
Cass County									
Fargo	06	1620CST 1650CST			0	0			Flash Flood
Slow moving thunderstorms, mostly on the south side of Fargo, dropped 2 to 4 inches of rain in 10 minutes. Bumper deep water was reported near the 1400 block south of 25th Street, Arrowhead Road, and the University Drive underpass of Interstate 94.									
Cass County									
Fargo	06	1630CST			0	0			Hail (0.88)
Richland County									
2 NW Walcott	07	1720CST 1721CST	0.1	25	0	0			Tornado (F0)
The tornado briefly touched down in an open field.									
Grand Forks County									
4 WNW Kempton	16	1810CST			0	0			Hail (0.88)
Grand Forks County									
Grand Forks	17	0130CST 0145CST			0	0			Flash Flood
Street flooding was reported along U.S. Highway 2.									
Grand Forks County									
4 E Mc Canna	17	1200CST			0	0			Hail (1.00)
Grand Forks County									
3 W Arvilla	17	1215CST			0	0			Hail (1.00)
Grand Forks County									
2 E Larimore	17	1220CST			0	0			Thunderstorm Wind (G70)
Several large elm trees were blown over.									
Grand Forks County									
4 SE Larimore	17	1230CST			0	0			Hail (0.88)
Traill County									
1 N Mayville	17	1332CST			0	0			Hail (1.75)
Pembina County									
Leroy	17	1505CST			0	0			Hail (0.88)
Pembina County									
3 N Backoo	17	1520CST			0	0			Hail (1.75)
Pembina County									
7 NW Cavalier	17	1520CST			0	0			Hail (1.25)
Eddy County									
16 ESE Sheyenne	21	1743CST			0	0			Hail (1.75)
Eddy County									
5 W Hamar	21	1745CST			0	0			Hail (0.88)
Nelson County									
3 W Pekin	21	1800CST			0	0			Hail (1.00)
Benson County									
5 W Warwick	21	1805CST			0	0			Hail (0.75)
Eddy County									
8 SW New Rockford	21	1813CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH DAKOTA, East</u>									
Benson County									
6 N Warwick	21	1815CST			0	0			Hail (0.88)
Ramsey County									
2 S Crary	21	1815CST			0	0			Hail (0.88)
Benson County									
5 N Warwick	21	1830CST			0	0			Hail (0.75)
Eddy County									
New Rockford	21	1845CST			0	0			Hail (1.25)
Nelson County									
6 N Pekin	21	1855CST			0	0			Hail (0.75)
Nelson County									
7 SW Pekin	21	1900CST			0	0			Hail (0.75)
Ramsey County									
Brocket	21	1909CST			0	0			Hail (1.75)
Ramsey County									
Devils Lake	21	1920CST			0	0			Thunderstorm Wind (G60)
Ramsey County									
Devils Lake	21	1922CST			0	0			Thunderstorm Wind (G60)
									Power outages were reported by law enforcement.
Barnes County									
Litchville	21	1925CST			0	0			Thunderstorm Wind (G52)
Nelson County									
Aneta	21	1925CST			0	0			Thunderstorm Wind (G55)
									The strong wind caused a barn to collapse.
Barnes County									
Valley City	21	1935CST			0	0			Thunderstorm Wind (G60)
									Trees and large tree limbs were blown down causing some power outages.
Barnes County									
Oriska	21	1945CST			0	0			Thunderstorm Wind (G52)
									Large tree limbs were blown down.
Griggs County									
Cooperstown	21	1945CST			0	0			Thunderstorm Wind (G52)
									Large tree branches were blown down.
Steele County									
Hope	21	2000CST			0	0			Hail (0.75)
Steele County									
Hope	21	2000CST			0	0			Thunderstorm Wind (G55)
									An 8 inch diameter tree limb was blown down.
Grand Forks County									
3 N Arvilla	21	2027CST			0	0			Thunderstorm Wind (G52)
									Tree limbs were blown down at the Turtle River State Park.
Ransom County									
10 E Sheldon	21	2035CST			0	0			Thunderstorm Wind (G55)
									Large branches were blown down.
Richland County									
7 W Barney	21	2035CST			0	0			Thunderstorm Wind (G55)
									Large branches were blown down.
Grand Forks County									
Grand Forks Arpt	21	2041CST			0	0			Thunderstorm Wind (G50)
									The Grand Forks ASOS measured the wind gust.
Grand Forks County									
Grand Forks	21	2042CST			0	0			Thunderstorm Wind (G58)
									The wind gust was measured at the NWS site on the western edge of Grand Forks.
Grand Forks County									
Grand Forks	21	2045CST			0	0			Thunderstorm Wind (G58)
									Large trees were blown down and power outages were reported.

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Cass County									
2 SW Grandin	21	2050CST			0	0			Hail (1.00)
Cass County									
2 W Hickson	22	1525CST			0	0			Hail (0.75)
Cass County									
Fargo	22	1800CST 1830CST			0	0			Flash Flood
									Street flooding was reported in south Fargo.
Barnes County									
7 NW Litchville	23	0620CST			0	0			Hail (0.75)
Sargent County									
3 NE Havana	23	0818CST			0	0			Hail (0.75)
Sargent County									
2 S Cogswell to 1 SE Cogswell	23	1545CST 1555CST	2.5	50	0	0			Tornado (F1)
									The tornado had multiple brief touchdowns along the path, but had a dust and debris cloud. Witnesses also heard a roaring sound. Crops were damaged along the path.
Sargent County									
7 W Havana to 4 W Havana	23	1602CST 1608CST	3	25	0	0			Tornado (F0)
									The tornado remained in open country.
Sargent County									
3 SW Forman to 2 SW Forman	23	1608CST 1610CST	1	25	0	0			Tornado (F0)
									The tornado tracked through open country.
Sargent County									
5 WSW Gwinner to 3 SW Gwinner	23	1615CST 1620CST	2	25	0	0			Tornado (F0)
									A brief tornado touchdown was reported.
Ransom County									
Enderlin	23	1800CST 1845CST			0	0			Flash Flood
									Street flooding was reported.
Sargent County									
3 SW Milnor	23	2000CST 2130CST			0	0			Flash Flood
									Water was reported over a road.
Barnes County									
Valley City	24	2112CST			0	0			Thunderstorm Wind (G70)
									Numerous large branches and trees were blown down. Many power lines were also blown down with scattered power outages.
Barnes County									
Peak	24	2120CST			0	0	400K		Thunderstorm Wind (G96)
									Large 30,000 bushel steel grain bins at the Peak elevator complex were crushed by the wind. Numerous large trees were also blown down and augers were twisted and broken.
Barnes County									
3 NE Valley City	24	2120CST			0	0	1.4M		Thunderstorm Wind (G96)
									Eighteen 80 foot tall 345 kV high voltage power transmission towers were blown down in several sections to the Cass county line. A section of Highway 32 north of Oriska was briefly closed where the wires fell on the road.
Barnes County									
4 ESE Valley City	24	2121CST			0	0			Thunderstorm Wind (G97)
									A 112 mph wind gust was measured at a Minnkota Power Company wind turbine site.
Barnes County									
5 NE Oriska	24	2130CST			0	0	100K		Thunderstorm Wind (G90)
									7 large grain bins were damaged at the Evergreen Farmers Cooperative.
Barnes County									
2.5 N Oriska	24	2130CST			0	0			Thunderstorm Wind (G90)
									Power lines were blown down over the highway.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH DAKOTA, East</u>									
Cass County									
2 N Tower City	24	2134CST			0	0	600K		Thunderstorm Wind (G96)
									Seven 80 foot tall 345 KV high voltage power transmission towers were blown down.
Barnes County									
4 E Oriska	24	2135CST			0	0			Thunderstorm Wind (G78)
									Numerous large trees were snapped off at the base.
Cass County									
Tower City	24	2135CST			0	0	100K		Thunderstorm Wind (G78)
									Numerous large trees were snapped off at the base. Power went out in town causing some residents to have sewer backup. Cass County Electric Cooperative reported 40 power poles downed between Tower City and Gardner with 1300 customers without power.
Cass County									
Ayr	24	2140CST			0	0			Thunderstorm Wind (G78)
									Many trees were blown down.
Cass County									
Buffalo	24	2140CST			0	0			Thunderstorm Wind (G78)
									Numerous trees were blown down.
Cass County									
3 SW Arthur	24	2155CST			0	0			Thunderstorm Wind (G70)
									Power lines were blown down.
Cass County									
3 SE Erie	24	2155CST			0	0	25K		Thunderstorm Wind (G78)
									A metal quonset and a garage were destroyed by the wind. Pieces of debris were flung into the surrounding fields.
Cass County									
Arthur	24	2158CST			0	0	150K		Thunderstorm Wind (G78)
									100 large trees were uprooted or snapped off in town. Trees fell on vehicles and homes.
Cass County									
Gardner	24	2215CST			0	0	534K		Thunderstorm Wind (G87)
									Three 80,000 bushel steel grain bins were caved in at the Gardner elevator complex. A small wooden barn was destroyed. Large trees were also blown down all over town.
Cass County									
1 E Gardner	24	2216CST			0	0	67K		Thunderstorm Wind (G87)
									A 40x80 foot barn roof collapsed and other farm buildings were damaged.
Cass County									
1.5 N Gardner	24	2217CST			0	0	40K		Thunderstorm Wind (G80)
									A 30x60 foot pole barn roof was blown off, while the structure was totalled.
Cass County									
2 N Argusville	24	2218CST			0	1	200K		Thunderstorm Wind (G87)
									Four tractor-trailer rigs were blown off Interstate 29 between mile posts 81 and 84. Traffic had to be rerouted for 1.5 hours while the vehicles were removed.
Cass County									
1 E Gardner	24	2220CST			0	0	1.3M		Hail (0.88)
									Wind driven hail caused partial crop damage over about 20 sections of farmland.
Trill County									
10 SSE Hillsboro	24	2232CST			0	0	100K		Thunderstorm Wind (G80)
									Two tractor-trailer rigs were blown Interstate 29 between mile posts 93 and 94.
Richland County									
Hankinson	25	0230CST 0400CST			0	0			Flash Flood
									Water flowed over several low water crossings in southeast Richland county. In Hankinson, Second street southeast was closed.
NDZ053									
	27	0850CST			0	0			Flood
	30	2359CST							
									Several rounds of thunderstorms brought 5 to 8 inches of rainfall to portions of Richland county. The NWS cooperative observing station at Lidgerwood reported 6.01 inches of rain from 6/22 to 6/28. The Wild Rice River at Abercrombie rose to around 12.22 feet on 6/28, just over its moderate flood stage of 12 feet. Two locations along Interstate 29 experienced prolonged flooding, one at mile marker 13 near Great Bend and another at mile marker 29 near Mooreton.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>NORTH DAKOTA, East</u>									
Sargent County									
5 WSW Straubville to 4 W Straubville	27	1640CST 1642CST	1	25	0	0			Tornado (F0)
			A brief touchdown was reported.						
Towner County									
7 NW Bisbee	27	1735CST	0.1	25	0	0			Tornado (F0)
			A brief touchdown was reported near the county line.						
Towner County									
3 WNW Perth	27	1740CST			0	0			Hail (1.75)
Towner County									
5 NW Bisbee	27	1754CST	0.1	25	0	0			Tornado (F0)
			A tornado was reported.						
Towner County									
3.5 NW Bisbee	27	1755CST			0	0			Hail (1.00)
Towner County									
3 W Bisbee	27	1802CST	0.1	25	0	0			Tornado (F0)
			A Grand Forks, ND, couple, travelling in the area, videotaped this touchdown and the 1735 CST and 1754 CST touchdowns.						
Benson County									
6 NNW Leeds	27	1900CST			0	0			Hail (1.25)
Towner County									
2.5 W Maza	27	1900CST	0.1	25	0	0			Tornado (F0)
			A farmer watched a tornado in a field, which then moved into a slough and lifted water 100 feet in the air.						
Benson County									
8 NE Niles	27	1910CST	0.1	25	0	0			Tornado (F0)
			A brief touchdown occurred near Lake Alice National Wildlife Refuge.						
Ramsey County									
9 NNW Penn	27	1912CST	0.1	25	0	0			Tornado (F0)
			A tornado touched down near Lake Alice National Wildlife Refuge.						
Eddy County									
6 SW Hamar	27	1950CST			0	0			Hail (0.75)
Eddy County									
13 E Brantford	27	2018CST 2020CST	0.5	25	0	0			Tornado (F0)
			A tornado briefly touched down.						
Pembina County									
3 SE St Thomas	28	1523CST			0	0			Hail (0.75)
Grand Forks County									
Grand Forks	28	1637CST			0	0			Hail (0.75)
Grand Forks County									
4 SE Thompson	28	1720CST			0	0			Hail (0.75)
<u>OHIO, East</u>									
Tuscarawas County									
Dover	08	1705EST			0	0	1K		Thunderstorm Wind (G52)
			Large trees and power lines down.						
Muskingum County									
2 NE Zanesville	16	1435EST 2030EST			0	0			Flash Flood
			Adamsville Rd flooded.						
Muskingum County									
Adamsville to Ellis	16	1715EST 1800EST			0	0			Flash Flood
			Several rural roads flooded, including Mollies Rock Rd.						
Muskingum County									
Bloomfield	16	1740EST 1800EST			0	0			Flash Flood
			Flooding on Lower Bloomfield Rd, and other rural roads.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>OHIO, East</u>									
Muskingum County									
Philo	16	2000EST 2100EST			0	0			Flash Flood
		Mansfork Rd flooded.							
<u>OHIO, North</u>									
Marion County									
Marion	08	1315EST			0	0	10K		Thunderstorm Wind (G50)
		Thunderstorm winds downed a few trees seven miles west of Marion.							
Cuyahoga County									
Cleveland	08	1345EST			0	3	5K		Thunderstorm Wind (G31)
		Thunderstorm wind gusts of 35 to 40 mph blew down two large tents on the west side of Cleveland. Three people inside were injured when the tents collapsed. One person was hospitalized. A peak wind gust of 36 mph was measured at nearby Cleveland Hopkins International Airport.							
Trumbull County									
Mc Donald	12	2017EST			0	0	50K		Thunderstorm Wind (G50)
		Thunderstorm winds tore the roof off of a small business and toppled a large sign. Several trees in the area were also downed.							
Trumbull County									
Gustavus	12	2040EST			0	0			Funnel Cloud
		A funnel cloud was observed near the intersection of State Routes 193 and 87 in Gustavus Township. No damage occurred.							
OHZ014-023									
Ashtabula - Trumbull									
	12	2100EST			0	0	900K		Flood
	13	0200EST							
		Thunderstorms dumped two to around three inches of rain on portions of Ashtabula County during the evening of the 12th. This rain combined with ground already saturated from rains the previous day led to widespread lowland and street flooding. 3.22 inches of rain was measured in Dorset with 2.75 inches in Ashtabula and 2.46 inches at the Ashtabula County Airport near Jefferson. Saybrook, Geneva, Cherry Valley and Jefferson Townships were especially hard hit. Mill Creek left it's banks in Jefferson Township forcing the closure of State Route 46 for several hours. Many other roads in the county were also closed because of flooding. A motorist had to be rescued from a stranded vehicle in Cherry Valley Township. Many homes and vehicles were damaged by the flood waters up to three feet deep.							
OHZ023-033									
Trumbull - Mahoning									
	13	2145EST			0	0	150K		Flood
	14	0000EST							
		Thunderstorms producing locally heavy rains moved across Mahoning and Trumbull Counties and caused some urban and lowland flooding. Rainfall rates of one to two inches per hour were reported with the stronger storms. Several roads were temporarily closed because of flooding. Basement flooding was reported at several locations.							
Erie County									
Milan	26	1515EST			0	0	5K		Thunderstorm Wind (G50)
		Thunderstorm winds downed two trees.							
Lorain County									
Avon Lake	26	1540EST			0	0	5K		Thunderstorm Wind (G50)
		Thunderstorm winds downed several large limbs.							
Marion County									
La Rue	29	1705EST			0	0	2K	15K	Thunderstorm Wind (G50)
		Thunderstorm winds downed several large tree limbs five miles north of La Rue. A wheat field in the same area was flattened.							
Wyandot County									
Nevada	29	1730EST			0	0	5K		Thunderstorm Wind (G50)
		Thunderstorm winds damaged a house.							
Crawford County									
Bucyrus	29	1740EST			0	0	5K		Hail (1.00)
		Quarter size hail was observed.							
Crawford County									
Bucyrus	29	1748EST			0	0			Hail (0.75)
		Penny size hail was observed.							
Crawford County									
Galion	29	1800EST			0	0	5K		Hail (1.00)
		Quarter size hail was observed.							

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OHIO, North</u>									
Wayne County									
Doylestown	29	1906EST			0	0			Hail (0.75)
	Penny size hail was observed.								
Summit County									
Barberton	29	1915EST			0	0	2K		Hail (0.88)
	Nickel size hail was observed.								
<u>OHIO, Northwest</u>									
Defiance County									
Defiance	17	0835EST 1000EST			0	0	100K		Flash Flood
	A narrow band of thunderstorms continuously regenerated over parts of Defiance county during the morning. Estimates of 8 to 10 inches of rain fell in a 3 hour period. Emergency management reported flash flooding was most serious around Sherwood where roads were closed with 3 to 4 feet of water along Ohio Route 18 in and around Sherwood. Nearly 30 businesses and homes had some water into the first floor.								
Paulding County									
1 N Cecil	17	0900EST 1030EST			0	0	0		Flash Flood
	A narrow band of thunderstorms continuously regenerated over Paulding county during the morning. Flash flooding was reported north of Cecil by emergency management with CR 230 closed.								
Paulding County									
8 SW Paulding	17	0900EST 1000EST			0	0	0		Flash Flood
	A narrow band of thunderstorms continuously regenerated over Paulding county during the morning. Rainfall was estimated to be over 8 inches in a 3 hour period. Emergency management reported flash flooding with 8 inches of water flowing over Ohio Route 613 and CR 87.								
Paulding County									
Paulding	17	0947EST 1230EST			0	0	150K		Flash Flood
	A narrow band of thunderstorms continuously regenerated over Paulding county during the morning with emergency reporting flash flooding continuing into the afternoon. Numerous roads were closed with some completely washed out. The most serious flooding was around Blue Creek where more than two dozen homes had water into the first floor and some were evacuated. Sandbagging was needed in and around Blue Creek.								
OHZ015									
									Paulding
	17	1245EST			0	0	50K		Flood
	18	1000EST							
	Emergency management reported flooding continued along Blue Creek south of the city of Paulding through the afternoon of the 17th into the morning of the 18th. Runoff from the morning rains of the 17th moved through Blue Creek with some homes still being flooded and sandbagging continuing until midday on the 18th when the water subsided.								
Paulding County									
Antwerp	28	1929EST			0	0	0		Thunderstorm Wind (G50)
	Law enforcement reported trees down near Antwerp.								
<u>OHIO, Southeast</u>									
Vinton County									
Hue	14	1915EST 2045EST			0	0	10K		Flash Flood
	Headwaters of Brushy Fork flooded. Roads were blocked.								
Washington County									
Belpre to Marietta	14	1930EST 2100EST			0	0	50K		Flash Flood
	Marietta measured 2 inches of rain in 90 minutes. In that community, cars were stranded, and a few homes received water damage. Route 618 was damaged near Belpre.								
Athens County									
4 NW The Plains to The Plains	14	2000EST 2130EST			0	0	10K		Flash Flood
	Overflowing streams, such as Hamley Run, blocked roads.								
Athens County									
Albany	16	1330EST 1430EST			0	0	5K		Flash Flood
	About 2 inches of rain flooded small streams and roads near Lake Snowden and Albany. No dwellings were reported flooded.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<u>OHIO, Southeast</u>							
Lawrence County							
Waterloo to Arabia	16	1715EST 1930EST			0 0	15K	Flash Flood
							Small streams feeding into Symmes Creek around Waterloo and Arabia flooded roads, including Route 141, after localized downpours of around 3 inches.
Washington County							
Vincent to Tunnel	19	1500EST 1600EST			0 0	150K	Flash Flood
							Rains of 2.5 to 3 inches fell in 90 minutes or less. Roads were flooded. One vehicle was flooded by Tupper Creek. Warren Township had water into several basements. A few evacuations were required along Route 150.
Gallia County							
North Portion	19	1530EST 1630EST			0 0	200K	Flash Flood
							A rain gauge near Vinton measured 2.8 inches of rain in less than 90 minutes. The Emergency Management Agency reported several roads inundated by high water. Water was 1 to 2 feet deep on Route 160. Water was up and around several mobile homes.
Meigs County							
South Portion	19	1615EST 1700EST			0 0	200K	Flash Flood
							Estimated rains of 2 to 3 inches fell in less than 90 minutes. Thomas Fork flooded roads. Urban flooding occurred in Pomeroy and Middleport, with street and basement flooding.
<u>OHIO, Southwest</u>							
Hamilton County							
Blue Ash	08	1358EST 1402EST			0 0	2K	Thunderstorm Wind (G50)
							Large limbs were downed.
Warren County							
Mason to Maineville	08	1405EST 1415EST			0 0	5K	Thunderstorm Wind (G50)
							Trees were downed across the southern part of the county.
OHZ063-065-074							
Fayette - Fairfield - Hocking							
	08	1500EST 1715EST			0 0		Flood
Fayette County							
Washington Court Hou	08	1505EST 1509EST			0 0	2K	Thunderstorm Wind (G50)
							Large limbs were knocked down.
Pickaway County							
Circleville	08	1530EST 1534EST			0 0	3K	Thunderstorm Wind (G50)
							Trees and large limbs were downed.
Fairfield County							
Sugar Grove	08	1545EST 1549EST			0 0	2K	Thunderstorm Wind (G50)
							Large limbs were downed.
Ross County							
Chillicothe	08	1547EST 1551EST			0 0	2K	Thunderstorm Wind (G50)
							Large limbs and branches were knocked down.
Hocking County							
Logan	08	1610EST 1614EST			0 0	2K	Thunderstorm Wind (G50)
							Large limbs were knocked down. A line of thunderstorms tracked east across southern and central Ohio during the late afternoon, producing up to two inches. The heavy rain caused some flooding on roads to the south of Columbus.
Franklin County							
Groveport	13	1515EST			0 2		Lightning
							Two men were injured when lightning struck a tree that they were standing under. The men, aged 22 and 24, had been fishing at a nearby pond and were waiting out the storm underneath the tree.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>OHIO, Southwest</u>									
Union County									
1 E Broadway	13	1538EST 1539EST			0	0			Hail (1.00)
Union County									
8 N Marysville	13	1540EST 1544EST			0	0	3K		Thunderstorm Wind (G50)
Several trees were downed along State Route 31.									
OHZ035-045-055 Auglaize - Union - Franklin									
	13	1605EST 2125EST			0	0			Flood
Franklin County									
Whitehall	13	2145EST 2315EST			0	0			Flash Flood
A trailer park was evacuated as water rose to two to three feet deep. Several motorists were stranded in their cars by high water on Yearling Road.									
Licking County									
Pataskala	13	2230EST 2330EST			0	0			Flash Flood
A trailer park was flooded forcing several evacuations. A gravel parking lot flooded at National Trail Raceway near Kirkersville, trapping several automobiles.									
Scattered thunderstorms with torrential rain caused localized flooding across west central and central Ohio during the late afternoon and evening, causing several roads to flood and small creeks and streams to briefly rise out of their banks.									
Brown County									
Fayetteville	14	1655EST 1800EST			0	0			Flash Flood
US Route 68 and State Route 131 closed due to high water.									
Hamilton County									
Pleasant Run Farms	14	1752EST 1930EST			0	0	5K		Flash Flood
A small creek flooded out of its banks onto US Route 127. Basement flooding occurred in Greenhills.									
Butler County									
3 S Millville	14	1830EST 1930EST			0	0	10K		Flash Flood
US Route 27 and State Route 128 flooded and closed between Millville and Ross. High water caused minor damage to a nearby outdoor bar. A car fell into a flooded drainage ditch in the bar parking lot.									
OHZ070-077 Butler - Hamilton									
	14	2012EST 2230EST			0	0			Flood
A cluster of strong thunderstorms developed in southwest Ohio during the evening. The storms remained nearly stationary between Cincinnati and Hamilton for a few hours, producing as much as four to five inches of rain. The excessive amounts of rain caused numerous flooding problems, including a number of roads in southern Butler County that were washed out. A mudslide forced the closure of Interstate 75 near the intersection with Interstate 74.									
OHZ060-060-070 Preble - Butler									
	15	0730EST 2000EST			0	0			Flood
Preble County									
Southwest Portion	15	0835EST 0910EST			0	0			Flash Flood
State Routes 122 and 732 closed due to high water west of Eaton. US Route 127 south of Camden and State Route 177 near Fairhaven were also flooded and closed.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OHIO, Southwest</u>									
Butler County									
Somerville	15	1100EST 1140EST			0	0			Flash Flood
Several roads were flooded and closed across the northern part of the county. These included portions of US Routes 27 and 127 and State Routes 177 and 744.									
Preble County									
Camden	15	1105EST 1210EST			0	0	50K		Flash Flood
Ten to fifteen families were evacuated from a trailer park in town. Several homes sustained basement flooding.									
Butler County									
New Miami to Fairfield	15	1215EST 1430EST			0	0	1M		Flash Flood
Twenty five homes in the Cedar Grove subdivision in New Miami were evacuated when Four Mile and Seven Mile Creeks came out of their banks. In Fairfield, up to 50 homes were evacuated when Pleasant Run Creek rose out of its banks. Cars were trapped in high water throughout Fairfield, with a total of 300 homes sustaining damage from the flooding.									
Hamilton County									
5 NE Miamitown	15	1600EST 1700EST			0	0	50K		Flash Flood
Numerous roads were flooded and closed across northern and western portions of the county. Cars were stranded in high water, and many homes sustained basement flooding in Colerain Township. Strong thunderstorms remained stationary across Butler and Preble counties beginning during the morning and continuing into the afternoon. The storms produced as much as six to eight inches of rain from near Eaton south through Butler County and into the northern Cincinnati suburbs. Roads were flooded and closed, and numerous creeks and streams came out of their banks. Some of the worst flooding took place in New Miami and Fairfield where homes and businesses sustained damage.									
OHZ060>061-061>063-070									
Preble - Montgomery - Greene - Fayette - Butler									
	16	0425EST 1330EST			0	0	130K		Flood
Preble County									
3 N Camden	16	0620EST 0655EST			0	0			Flash Flood
High water over numerous roads in the southwestern part of the county.									
Preble County									
Fairhaven	16	0715EST 0845EST			0	0			Flash Flood
Several roads were flooded and closed.									
Warren County									
2 N Lebanon to 4 S Waynesville	16	1020EST 1130EST			0	0	20K		Flash Flood
Markey and Miller Roads closed due to high water. A bridge sustained minor damage at the intersection of Corwin and Elbon Roads.									
Hocking County									
Starr to Murray City	16	1555EST 1630EST			0	0			Flash Flood
Numerous roads were flooded and closed across the eastern part of the county. These included portions of State Routes 216, 278, 328 and 595. Thunderstorms producing heavy rain moved across portions of the Miami Valley and southwest Ohio throughout the morning. Some locations saw two to four inches of rain, and combined with rainfall over the previous few days, flooding problems developed. Numerous roads were flooded and closed across the region. Up to fifty homes and one business sustained flood damage in the Dayton suburb of Riverside, and a few homes had flooded basements in western Greene County.									
OHZ061-071>072									
Montgomery - Warren - Clinton									
	17	0928EST 1145EST			0	0	30K		Flood

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OHIO, Southwest</u>									
Mercer County									
Ft Recovery to Rockford	17	1135EST 1300EST			0	0	100K		Flash Flood
Homes were flooded in Fort Recovery. Numerous roads had high water across the northern and western portions of the county.									
Auglaize County									
Wapakoneta to New Knoxville	17	1417EST 1515EST			0	0			Flash Flood
Several roads across the central portion of the county were underwater. Ditches overflowed in Wapakoneta, flooding lawns. Scattered thunderstorms developed and moved slowly across the lower Miami valley. Two to three inches fell from the Dayton area south into Clinton County, causing high water on roads. A few homes sustained basement flooding in Waynesville.									
Hardin County									
5 NE Kenton	26	1305EST 1309EST			0	0	5K		Thunderstorm Wind (G50)
Several trees were knocked down, and a barn was damaged.									
Logan County									
East Liberty	26	1320EST 1324EST			0	0	3K		Thunderstorm Wind (G50)
Trees and power lines were downed.									
Hardin County									
Grants	29	1650EST 1654EST			0	0	5K		Hail (1.75)
A few trees were knocked down along with the large hail.									
<u>OKLAHOMA, Eastern</u>									
Cherokee County									
Cookson	01	2330CST			0	0			Hail (0.75)
Creek County									
Shamrock	01	2335CST			0	0			Hail (0.75)
Tulsa County									
Tulsa	01	2342CST			0	0			Hail (0.75)
Penny size hail was reported near the intersection of Admiral and Sheridan.									
Pawnee County									
Cleveland	02	0000CST			0	0			Hail (0.75)
Tulsa County									
Tulsa	02	0010CST			0	0			Hail (0.75)
Penny size hail was reported near the intersection of 101st Street and Sheridan Avenue.									
Pawnee County									
Terlton	02	0025CST			0	0			Hail (0.88)
Tulsa County									
1 N Owasso	02	0200CST 0400CST			0	0	5K		Flash Flood
Heavy thunderstorm rains caused water to enter a house.									
Adair County									
6 N Bunch	02	0230CST 0400CST			0	0			Flash Flood
Heavy thunderstorm rains caused Mallay Hollow Road near Highway 100 to be closed due to high water.									
Rogers County									
Claremore	02	0230CST 0430CST			0	0			Flash Flood
Heavy thunderstorm rains caused low lying streets in Claremore to be flooded.									
Osage County									
2 S Shidler	05 06	2300CST 0100CST			0	0			Flash Flood
Heavy thunderstorms rains caused a road just south of Shidler to be closed due to high water.									
Ottawa County									
Wyandotte	10	1705CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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, Eastern</u>									
Okfuskee County									
2 S Okfuskee	10	1900CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew down several trees.									
Rogers County									
Inola	10	1900CST			0	0			Hail (0.75)
Okfuskee County									
2 E Okemah	10	1920CST			0	0			Hail (0.75)
Creek County									
Depew	10	1938CST			0	0			Thunderstorm Wind (G52)
Okmulgee County									
Beggs	10	1943CST			0	0			Thunderstorm Wind (G52)
Rogers County									
Claremore	10	2009CST			0	0			Hail (0.75)
Mayes County									
4 SW Strang	10	2030CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds estimated at 60 miles an hour blew down a large tree limb.									
Mayes County									
2 SW Disney	10	2043CST			0	0			Hail (0.75)
Tulsa County									
Tulsa	10	2200CST			0	1			Lightning
A seventeen year old boy was struck by lightning near the 6300 block of North Denver Avenue. He was taken to a hospital for treatment by an ambulance.									
Le Flore County									
Howe	11	0035CST			0	0	10K		Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew down trees and destroyed a barn.									
Okfuskee County									
Castle	11	2234CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.									
Pawnee County									
Terlton	11	2305CST			0	0			Hail (0.75)
Okmulgee County									
Beggs	11	2308CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew down a few trees.									
Mcintosh County									
4 N Hanna	11	2311CST			0	0	10K		Thunderstorm Wind (G70)
Thunderstorm winds estimated at 80 miles an hour destroyed a barn.									
Choctaw County									
Soper	11	2313CST			0	0	3K		Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew the cover off a well.									
Mcintosh County									
Hanna	11	2313CST			0	0	5K		Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew some shingles off a school's gym.									
Pittsburg County									
Mc Alester	11	2315CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew down a tree. The tree blocked a road.									
Latimer County									
Yanush	11	2344CST			0	0			Thunderstorm Wind (G57)
Thunderstorm winds estimated at 65 miles an hour blew down large tree limbs.									
Pushmataha County									
Rattan	11	2344CST			0	0	25K		Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour damaged the roofs of a few homes and blew down trees.									
Latimer County									
5 W Wilburton	11	2345CST			0	0	5K		Thunderstorm Wind (G61)
Thunderstorm winds estimated at 70 miles an hour blew sheet metal off the roof of a barn near a rural residence west of Wilburton.									
Haskell County									
Stigler	11	2349CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OKLAHOMA, Eastern</u>									
Mcintosh County									
Checotah	11	2349CST			0	0			Thunderstorm Wind (G61)
									Thunderstorm winds estimated at 70 miles an hour blew down several trees.
Tulsa County									
Tulsa	11	2350CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds estimated at 60 miles an hour blew large tree limbs down near the intersection of Yale and Admiral.
Muskogee County									
Haskell	11	2354CST			0	0			Thunderstorm Wind (G61)
									Thunderstorm winds estimated at 70 miles an hour blew several small trees and one large tree down.
Le Flore County									
Wister	12	0020CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.
Sequoyah County									
Gans	12	0025CST			0	0			Thunderstorm Wind (G61)
									Thunderstorm winds estimated at 70 miles an hour blew down trees. A few of the trees blocked a road.
Le Flore County									
Pocola	12	0033CST			0	0			Thunderstorm Wind (G61)
									Thunderstorm winds estimated at 70 miles an hour blew down a few trees.
Craig County									
Vinita	12	0100CST			0	0	58K		Thunderstorm Wind (G70)
									Thunderstorm winds estimated at 80 miles an hour caused considerable damage in Vinita. A mobile home was pushed off its foundation and several metal garages were damaged. Trees were also blown down. A few of the trees fell on homes causing roof and other structural damage.
Ottawa County									
Wyandotte	12	0143CST			0	0			Hail (0.75)
Pittsburg County									
Arpelar	14	1530CST 1730CST			0	0			Flash Flood
									Heavy thunderstorm rains with totals estimated in excess of 2 inches in a short period of time caused a few rural roads to be washed out near Arpelar.
Tulsa County									
Owasso	14	1802CST 1805CST			0	0			Hail (1.00)
Osage County									
1 W Shidler	25	1720CST			0	0			Hail (0.88)
Washington County									
Bartlesville	25	1735CST			0	0	5K		Thunderstorm Wind (G61)
									Thunderstorm winds estimated at 70 miles an hour blew trees and power lines down resulting in power outages.
Okmulgee County									
Hector	29	1759CST			0	0			Hail (0.88)
Tulsa County									
5 SSW Bixby	29	1801CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds estimated at 60 miles an hour blew down large tree limbs.
Rogers County									
Catoosa	29	1830CST 1930CST			0	0			Flash Flood
									Heavy thunderstorm rains caused street flooding in Catoosa.
Tulsa County									
8 E Tulsa	29	1830CST 1930CST			0	0			Flash Flood
									Heavy thunderstorm rains caused areas of street flooding across the easture part of the city of Tulsa. One location that had street flooding was Interstate 244 one mile east of Highway 169 or 8 miles east of downtown Tulsa.
Nowata County									
Lenapah	30	0200CST 0500CST			0	0			Flash Flood
									Heavy thunderstorm rains with totals estimated up to 3 or 4 inches by radar caused flooding of streets and creeks in and near Lenapah.

Storm Data and Unusual Weather Phenomena

June 2003

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, Extreme Southeast

NONE REPORTED.

OKLAHOMA, Panhandle

Cimarron County

Kenton 04 1217CST 0 0 **Hail (0.75)**

Cimarron County

6 SE Kenton 04 1230CST 0 0 **Hail (0.75)**

Cimarron County

Wheless 04 1310CST 0 0 **Hail (0.88)**

Cimarron County

Felt 04 1359CST 0 0 **Hail (0.88)**

Cimarron County

Felt 04 1410CST 0 0 **Hail (1.00)**

Cimarron County

1 W Felt 04 1412CST 0 0 **Hail (0.75)**

Cimarron County

3 S Felt 04 1414CST 0 0 **Hail (1.75)**

Severe thunderstorms across the western Oklahoma panhandle during the afternoon hours produced large hail.

Texas County

1 W Hooker 05 1445CST 0 0 **Thunderstorm Wind (G53)**

Beaver County

5 SW Logan 05 1615CST 0 0 **Hail (0.75)**

Beaver County

5 SW Logan 05 1615CST 0 0 **Thunderstorm Wind (G52)**

Severe thunderstorms over the central and eastern Oklahoma panhandle produced high winds and hail during the late afternoon and early evening hours.

Beaver County

Beaver 11 2025CST 0 0 **Hail (0.75)**

Beaver County

10 E Elmwood 11 2025CST 0 0 **Hail (1.00)**

Beaver County

Forgan 11 2040CST 0 0 **Hail (0.75)**

Severe thunderstorms over the eastern Oklahoma panhandle produced some hail during the evening hours.

Beaver County

4 E Turpin 13 1542CST 0 0 **Hail (1.25)**

Beaver County

1 E Elmwood 13 1644CST 0 0 **Hail (1.00)**

Beaver County

9 E Gray 13 1653CST 0 0 **Hail (1.75)**

Severe thunderstorms across the eastern Oklahoma panhandle during the late afternoon hours produced large hail.

Cimarron County

10 NE Keyes 23 1710CST 0 0 **Hail (2.75)**

Texas County

Guymon 23 1821CST 0 0 **Hail (0.75)**

Texas County

1 W Hooker 23 1850CST 0 0 **130K** **Thunderstorm Wind (G66)**

Several storage buildings around the town of Hooker were damaged along with three transmission poles belonging to Xcel Energy were blown down between Guymon and Hooker. This resulted in a power outage which lasted for up to three and a half hours.

Beaver County

15 S Beaver 23 2100CST 0 0 **Hail (0.88)**

Beaver County

1 SSW Beaver 23 2110CST 0 0 **Thunderstorm Wind (G56)**

Beaver County

1 SSW Beaver 23 2255CST 0 0 **Thunderstorm Wind (G56)**

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OKLAHOMA, Panhandle</u>									
Texas County									
1 W Hooker	23	2355CST			0	0			Thunderstorm Wind (G57)
Severe thunderstorms producing damaging winds and large hail moved across the Oklahoma panhandle during the evening hours. No injuries were reported.									
Texas County									
Tyrone	28	2001CST			0	0			Thunderstorm Wind (G65)
Texas County									
1 W Hooker	28	2010CST			0	0	165K		Thunderstorm Wind (G56)
Five mobile homes were completely destroyed and six more mobile homes were damaged near the town of Optima. Also...seventy electric poles belonging to Tri-County Electric were sheared off by the high winds.									
Texas County									
2 NE Tyrone	28	2012CST			0	0			Hail (1.00)
Texas County									
Guymon	28	2120CST			0	0	330K		Thunderstorm Wind (G61)
High winds blew thirty-four railroad cars containing thirty-five refrigerated containers off the tracks east of Guymon. There were no injuries.									
Severe thunderstorms across the central Oklahoma panhandle produced damaging winds and large hail during the evening hours. There were no injuries reported.									
<u>OKLAHOMA, Western, Central and Southeast</u>									
Tillman County									
Frederick	01	2030CST			0	0	1K		Thunderstorm Wind (G65)
A roof was damaged and trees uprooted in this location.									
Tillman County									
5 S Frederick	01	2031CST			0	0			Thunderstorm Wind (G56)
Wind was observed on Highway 183.									
Tillman County									
4 SE Frederick	01	2036CST			0	0			Thunderstorm Wind (G66)
Wind was reported by the Frederick ASOS.									
Tillman County									
Frederick	01	2045CST			0	0			Thunderstorm Wind (G52)
Tillman County									
3 W Grandfield	01	2045CST			0	0			Thunderstorm Wind (G55)
Wind was measured by the Oklahoma mesonet.									
Tillman County									
4 S Tipton	01	2045CST			0	0			Thunderstorm Wind (G63)
Wind was measured by the Oklahoma mesonet.									
Cotton County									
15 W Walters	01	2130CST			0	0			Thunderstorm Wind (G56)
Comanche County									
4 E Lawton	01	2141CST			0	0			Hail (0.75)
Comanche County									
Lawton	01	2145CST			0	0	2K		Thunderstorm Wind (G61)
Power lines were downed.									
Kiowa County									
Mountain View	01	2148CST			0	0			Hail (0.75)
Custer County									
5 SW Butler	01	2150CST			0	0			Thunderstorm Wind (G50)
Wind was measured by the Oklahoma mesonet.									
Comanche County									
5 N Pumpkin Center	01	2155CST			0	0			Hail (1.00)
Custer County									
6 ENE Moorewood	01	2210CST			0	0			Hail (0.75)
Stephens County									
6 NW Marlow	01	2230CST			0	0			Hail (1.00)
Washita County									
4 WNW Bessie	01	2230CST			0	0			Thunderstorm Wind (G68)
Wind was measured by the Oklahoma mesonet.									

Storm Data and Unusual Weather Phenomena

June 2003

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									
Custer County									
1 W Clinton	01	2240CST			0	0			Hail (0.75)
Grady County									
11 E Amber	01	2249CST			0	0			Hail (0.75)
			Hail was observed in the community of Bridge Creek.						
Grady County									
6 ESE Tuttle	01	2258CST			0	0			Hail (0.75)
			Hail was observed on Highway 4, four miles south of the intersection with Highway 37.						
McClain County									
Newcastle	01	2258CST			0	0			Hail (0.88)
McClain County									
Newcastle	01	2258CST			0	0			Thunderstorm Wind (G61)
Cleveland County									
Norman	01	2310CST			0	0			Thunderstorm Wind (G52)
			Wind was observed near the intersection of Northwest 48th Avenue and Robinson Street.						
Kay County									
2 W Tonkawa	01	2345CST			0	0			Hail (0.88)
Lincoln County									
1 N Kendrick	02	0030CST			0	0			Hail (0.75)
Major County									
3.5 E Ames	03	0440CST			0	0	40K		Lightning
			Lightning caused a house fire causing smoke damage throughout the house, destroying the kitchen, and severely damaging the roof.						
Greer County									
Granite	04	0500CST			0	0	40K		Lightning
			Lightning caused a house fire.						
Marshall County									
4.5 ENE Kingston	04	1015CST			0	2	1K		Lightning
			Lightning struck a building that housed the grill for the Chickasaw Pointe Golf Resort located in the Lake Texoma State Park a few miles north of Highway 70. Two women working at a grill cooking hamburgers were struck by the lightning which is believed to have traveled down the vent hood. Both women were not seriously injured.						
Cotton County									
Devol	04	2300CST			0	0			Hail (0.75)
Tillman County									
2 S Grandfield	04	2300CST			0	0			Hail (1.75)
Cotton County									
1 W Randlett	04	2315CST			0	0			Hail (1.00)
			Hail was observed on Highway 70.						
Seminole County									
5 S Wewoka	05	0300CST			0	0			Hail (0.75)
Garvin County									
Elmore City	05	0415CST 0630CST			0	0			Flash Flood
			Locally heavy rainfall totals of 8 to 10 inches produced flash flooding in southern Garvin County in and near Elmore City. Floodwaters were reported over Pee Road in Elmore City.						
Garvin County									
5 N Hennepin	05	0930CST 1130CST			0	0			Flash Flood
			Locally heavy rainfall totals of 8 to 10 inches produced flash flooding in southern Garvin County. Sandy Creek flooded agricultural fields five miles north of Hennepin, and washed out a local road in the area. The floodwaters from Sandy Creek were routed downstream into Wildhorse Creek and eventually the Washita River, and produced moderate, within-bank rise along these streams. The river gage along Wildhorse Creek near Hoover crested below flood stage, but had its highest crest in the past three years.						
Ellis County									
8 N Shattuck	05	1655CST			0	0			Hail (1.00)
Ellis County									
8 N Shattuck	05	1655CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OKLAHOMA, Western, Central and Southeast									
Ellis County									
Gage Arpt	05	1709CST			0	0			Thunderstorm Wind (G51)
Wind was measured by the Gage ASOS.									
Ellis County									
3 E Gage	05	1717CST			0	0	35K		Thunderstorm Wind (G61)
Straight-line winds toppled approximately a half a mile of cars of a Burlington Northern Santa Fe train.									
Woodward County									
8 W Sharon	05	1755CST			0	0	0.50K		Hail (0.88)
Hail was observed covering the ground. Windows were broken and several tree limbs were downed.									
Woodward County									
8 W Sharon	05	1755CST			0	0			Thunderstorm Wind (G56)
Dewey County									
Seiling	05	1810CST			0	0	0.05K		Thunderstorm Wind (G52)
Several tree limbs were downed.									
Dewey County									
1 E Hucmac	05	1815CST			0	0	0.05K		Thunderstorm Wind (G61)
Several six inch diameter tree limbs were downed.									
Woodward County									
8 W Sharon	05	1815CST			0	0			Hail (0.88)
Blaine County									
1 W Canton	05	1857CST			0	0			Thunderstorm Wind (G56)
Dewey County									
1 E Hucmac	05	1900CST			0	0			Thunderstorm Wind (G61)
Kingfisher County									
5 SSW Loyal	05	1940CST			0	0			Thunderstorm Wind (G52)
Canadian County									
7 N Calumet	05	2000CST			0	0			Thunderstorm Wind (G52)
Kingfisher County									
Cashion	05	2022CST			0	0			Thunderstorm Wind (G69)
Oklahoma County									
Edmond	05	2040CST			0	0			Thunderstorm Wind (G52)
Oklahoma County									
Oklahoma City	05	2048CST			0	0			Thunderstorm Wind (G52)
Wind was observed near the intersection of Northeast 44th Street and Bryant Avenue.									
Greer County									
Reed	09	2130CST			0	0			Hail (0.75)
Harmon County									
4 N Madge	09	2130CST			0	0			Hail (0.75)
Harmon County									
5 W Vinson	09	2205CST			0	0			Thunderstorm Wind (G56)
Greer County									
7 W Mangum	09	2213CST			0	0			Hail (0.75)
Greer County									
6 W Mangum	09	2215CST			0	0			Hail (0.88)
Kiowa County									
Lone Wolf	09	2240CST			0	0			Hail (0.75)
Kiowa County									
Lone Wolf	09	2240CST			0	0			Thunderstorm Wind (G56)
Caddo County									
4 SW Anadarko	10	0010CST			0	0			Hail (0.75)
Kingfisher County									
6 SW Loyal	10	1600CST			0	0			Hail (1.00)
Kingfisher County									
10 W Kingfisher	10	1610CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OKLAHOMA, Western, Central and Southeast									
Kiowa County									
Roosevelt	10	1715CST			0	0			Hail (0.88)
Washita County									
Corn	10	1715CST			0	0			Hail (0.88)
Caddo County									
Hinton	10	1720CST			0	0			Hail (0.88)
Caddo County									
Hinton	10	1720CST			0	0			Thunderstorm Wind (G52)
Kiowa County									
2.3 S Cooperton	10	1728CST			0	0			Hail (0.75)
Canadian County									
15 WNW Union City	10	1745CST			0	0			Hail (1.75)
Logan County									
4 NW Guthrie	10	1745CST			0	0			Thunderstorm Wind (G52)
Kiowa County									
7 ENE Cooperton	10	1750CST			0	0			Hail (0.75)
Comanche County									
14 NW Indianola	10	1800CST			0	0			Thunderstorm Wind (G52)
Comanche County									
4 W Medicine Park	10	1805CST			0	0			Thunderstorm Wind (G52)
Canadian County									
2 NW Niles	10	1810CST			0	0			Hail (1.00)
Comanche County									
3 W Medicine Park	10	1810CST			0	0			Thunderstorm Wind (G52)
Wind was measured by the Oklahoma mesonet.									
Oklahoma County									
Jones	10	1830CST			0	0			Hail (0.88)
Oklahoma County									
5 N Jones	10	1830CST			0	0			Hail (0.88)
Payne County									
6 E Stillwater	10	1840CST			0	0			Hail (1.25)
Hail was observed near the intersection of Highway 108 and Highway 51.									
Grady County									
3 E Middleberg	10	1845CST			0	0			Hail (1.00)
McClain County									
Blanchard	10	1845CST			0	0			Hail (1.00)
Payne County									
Glencoe	10	1845CST			0	0			Thunderstorm Wind (G56)
Cleveland County									
2 S Norman	10	1846CST			0	0			Hail (0.88)
Payne County									
2 S Glencoe	10	1846CST			0	0			Hail (0.88)
Cleveland County									
Norman	10	1855CST			0	0			Hail (0.88)
Grady County									
2 NNW Ninnekah	10	1915CST			0	0			Thunderstorm Wind (G52)
Wind was measured by the Oklahoma mesonet.									
McClain County									
Newcastle	10	1915CST			0	0			Hail (0.75)
McClain County									
5 SE Newcastle	10	1919CST			0	0			Hail (0.75)
Cleveland County									
Norman	10	1924CST 1929CST			0	0			Hail (1.00)
Hail was observed on the west side of town.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OKLAHOMA, Western, Central and Southeast</u>									
Cotton County									
1 NW Walters	10	1930CST			0	0			Thunderstorm Wind (G50)
			Wind was measured by the Oklahoma mesonet.						
Cleveland County									
Norman	10	1932CST			0	0			Hail (1.00)
Cleveland County									
Moore	10	1945CST			0	0			Flash Flood
			Water one foot deep was reported covering the road.						
Grady County									
3 S Bradley	10	1945CST			0	0	0.05K		Thunderstorm Wind (G52)
			Several tree limbs were downed.						
Cleveland County									
Lexington	10	2000CST			0	0			Hail (0.75)
Cotton County									
5 S Randlett	10	2000CST			0	0			Hail (0.88)
McClain County									
3 S Goldsby	10	2000CST			0	0			Hail (0.75)
Stephens County									
Duncan	10	2000CST			0	0			Thunderstorm Wind (G55)
Cleveland County									
3 SW Moore	10	2015CST			0	0			Flash Flood
			Water two feet deep was across Southwest 164th Street.						
Stephens County									
Duncan	10	2025CST			0	0	0.07K		Thunderstorm Wind (G56)
			A four inch diameter tree was downed near the intersection of 11th Street and Woodlawn.						
Pottawatomie County									
4 W Tecumseh	10	2033CST			0	0			Hail (0.88)
Jefferson County									
Waurika	10	2040CST			0	0	0.05K		Thunderstorm Wind (G52)
			Several tree limbs were downed.						
Pontotoc County									
10 W Ada	10	2130CST			0	0	0.50K		Thunderstorm Wind (G56)
			Power lines were downed.						
Hughes County									
7 E Holdenville	10	2140CST			0	0	0.50K		Thunderstorm Wind (G61)
			A power pole was downed.						
Carter County									
6 S Dickson	10	2150CST			0	0			Hail (0.75)
Murray County									
5 N Davis	10	2200CST			0	0			Thunderstorm Wind (G52)
Love County									
Thackerville	10	2215CST			0	0			Hail (0.75)
Atoka County									
Atoka	10	2315CST			0	0	0.07K		Thunderstorm Wind (G52)
			Several tree limbs were downed.						
Kiowa County									
5 SSW Lone Wolf	11	1643CST			0	0			Hail (0.88)
Washita County									
Rocky	11	1720CST			0	0			Hail (1.00)
Beckham County									
Erick	11	1729CST			0	0			Hail (0.75)
Greer County									
5 NW Jester	11	1733CST			0	0			Hail (0.75)
Kiowa County									
Babbs	11	1733CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

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									
Beckham County									
4 S Sayre	11	1755CST			0	0			Hail (1.00)
Greer County									
3 N Willow	11	1755CST			0	0			Hail (1.50)
Beckham County									
3 W Carter	11	1800CST			0	0			Hail (0.88)
Greer County									
8 W Willow	11	1800CST			0	0			Hail (1.25)
Kiowa County									
Hobart	11	1800CST			0	0			Hail (0.75)
Kiowa County									
7 E Babbs	11	1802CST			0	0			Hail (1.75)
Roger Mills County									
12 SSE Cheyenne	11	1810CST			0	0			Hail (1.00)
Kiowa County									
9 S Gotebo	11	1814CST			0	0			Hail (0.88)
Greer County									
1.5 W Granite	11	1829CST			0	0			Hail (0.88)
Washita County									
Burns Flat	11	1830CST			0	0			Hail (0.75)
Washita County									
4 W Dill City	11	1835CST			0	0			Thunderstorm Wind (G52)
Washita County									
2 W Cordell	11	1844CST			0	0			Hail (0.88)
Custer County									
4 SSW Butler	11	1845CST			0	0			Hail (0.75)
Custer County									
4 SSW Butler	11	1845CST			0	0			Thunderstorm Wind (G52)
Washita County									
4 WNW Bessie	11	1845CST			0	0			Thunderstorm Wind (G51)
Wind was measured by the Oklahoma mesonet.									
Jackson County									
2 N Blair	11	1852CST			0	0			Hail (1.75)
Jackson County									
2 E Blair	11	1856CST			0	0			Hail (1.75)
Greer County									
Granite	11	1900CST			0	0			Hail (1.75)
Jackson County									
4 NW Blair	11	1900CST			0	0			Hail (2.85)
Jackson County									
Warren	11	1903CST			0	0			Hail (2.75)
Kiowa County									
Hobart	11	1910CST			0	0			Hail (0.88)
Jackson County									
Blair	11	1913CST			0	0			Hail (2.50)
Jackson County									
Friendship	11	1925CST			0	0			Thunderstorm Wind (G62)
Kiowa County									
Roosevelt	11	1934CST			0	0			Hail (2.00)
Kiowa County									
5 E Snyder	11	1947CST			0	0			Hail (1.00)
Kiowa County									
5 E Snyder	11	1947CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OKLAHOMA, Western, Central and Southeast</u>									
Caddo County									
Gracemont	11	1955CST			0	0	1K		Thunderstorm Wind (G61)
			Power lines were downed.						
Comanche County									
Cache	11	1955CST			0	0			Thunderstorm Wind (G69)
			A vehicle was blown off the road.						
Canadian County									
9 WNW Calumet	11	2000CST			0	0			Thunderstorm Wind (G52)
Comanche County									
Medicine Park	11	2000CST			0	0			Thunderstorm Wind (G62)
			Wind was measured by the Oklahoma mesonet.						
Caddo County									
Anadarko	11	2002CST 2007CST			0	0	2K		Thunderstorm Wind (G56)
			Several trees were downed. Part of the Grace Church complex had its metal roof peeled off.						
Comanche County									
3 W Medicine Park	11	2005CST			0	0			Thunderstorm Wind (G70)
			Wind was measured by the Oklahoma mesonet.						
Comanche County									
Lawton	11	2007CST 2016CST			0	0	5K		Thunderstorm Wind (G56)
			Several trees and power lines were downed. A metal storage shed was damaged with portions of the roof blocking a street.						
Canadian County									
Calumet	11	2020CST			0	0	0.05K		Thunderstorm Wind (G52)
			Several tree limbs were downed.						
Grady County									
Verden	11	2020CST			0	0			Thunderstorm Wind (G52)
Caddo County									
Cement	11	2021CST			0	0	1K		Thunderstorm Wind (G61)
			Power lines were downed.						
Grady County									
2 NNW Ninnekah	11	2025CST			0	0			Thunderstorm Wind (G51)
			Wind was measured by the Oklahoma mesonet.						
Canadian County									
El Reno	11	2030CST			0	0	25K		Lightning
			Lightning caused damage to one of the city's oldest buildings, the Masonic Temple.						
Grady County									
2 NNW Ninnekah	11	2030CST			0	0			Thunderstorm Wind (G62)
			Wind was measured by the Oklahoma mesonet.						
Grady County									
4 WNW Rush Spgs	11	2030CST			0	0			Thunderstorm Wind (G55)
			Wind was measured by the Oklahoma mesonet.						
Grady County									
2 NNW Ninnekah	11	2035CST			0	0			Thunderstorm Wind (G56)
			Wind was measured by the Oklahoma mesonet.						
Grady County									
4 WNW Rush Spgs	11	2035CST			0	0			Thunderstorm Wind (G56)
			Wind was measured by the Oklahoma mesonet.						
McClain County									
4 W Newcastle	11	2036CST			0	0	2K		Thunderstorm Wind (G61)
			Power lines were downed.						
Oklahoma County									
2 SW Bethany	11	2040CST			0	0			Thunderstorm Wind (G52)
Oklahoma County									
10 NNW Edmond	11	2043CST			0	0	2K		Thunderstorm Wind (G52)
			Trees and power lines were downed near the intersection of Coffee Creek Road and Meridian Avenue in northwestern Oklahoma county.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OKLAHOMA, Western, Central and Southeast</u>									
Stephens County									
7 NW Velma	11	2050CST			0	0			Thunderstorm Wind (G51)
			Wind was measured by the Oklahoma mesonet.						
Oklahoma County									
5 SW Oklahoma City	11	2055CST			0	0			Thunderstorm Wind (G56)
			Wind was reported by KOCO TV in Oklahoma City.						
Oklahoma County									
Oklahoma City	11	2059CST			0	0			Thunderstorm Wind (G61)
			Wind was observed near the intersection of Northwest 10th Street and Morgan Road, southwest of Lake Overholser.						
Oklahoma County									
Oklahoma City	11	2101CST			0	0			Thunderstorm Wind (G61)
			Wind was observed near the intersection of Northwest 44th Street and North Santa Fe Avenue.						
Oklahoma County									
4 N Spencer	11	2101CST			0	0			Thunderstorm Wind (G52)
			Wind was observed near the intersection of East Britton Road and North Midwest Boulevard.						
Cleveland County									
Moore	11	2103CST			0	0	2K		Thunderstorm Wind (G56)
			Two transmission power poles were snapped on the east side of town.						
Carter County									
7 WNW Ardmore	11	2105CST			0	0			Thunderstorm Wind (G50)
			Wind was measured by the Oklahoma mesonet.						
Oklahoma County									
Oklahoma City	11	2105CST			0	0			Thunderstorm Wind (G61)
			Wind was observed two miles north of Crossroads Mall.						
Oklahoma County									
Choctaw	11	2108CST			0	0	2K		Thunderstorm Wind (G52)
			Trees and power lines were downed along North Henney Road.						
Garvin County									
Erin Spgs	11	2113CST			0	0			Hail (0.88)
Garvin County									
Pauls Valley	11	2114CST 2123CST			0	0	10K		Thunderstorm Wind (G56)
			Trees were downed along with a portion of the south brick wall of a car wash collapsing.						
Logan County									
9 SSE Meridian	11	2115CST			0	0			Thunderstorm Wind (G52)
Murray County									
3 W Davis	11	2120CST			0	0			Thunderstorm Wind (G56)
Pottawatomie County									
Pink	11	2127CST			0	0			Thunderstorm Wind (G52)
Pottawatomie County									
3 W Tecumseh	11	2135CST			0	0			Hail (0.75)
Pottawatomie County									
4 E Shawnee	11	2138CST			0	0	15K		Lightning
			Lightning caused a house fire near Bethel Acres on Lake Road.						
Murray County									
4 NNE Sulphur	11	2140CST			0	0			Thunderstorm Wind (G63)
			Wind was measured by the Oklahoma mesonet.						
Pottawatomie County									
3 W Tecumseh	11	2143CST			0	0			Thunderstorm Wind (G56)
Garvin County									
4 E Wynnewood	11	2145CST			0	0			Hail (0.75)
Garvin County									
4 E Wynnewood	11	2145CST			0	0	0.05K		Thunderstorm Wind (G52)
			Several tree limbs were downed.						
Pottawatomie County									
6 N Pink	11	2153CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OKLAHOMA, Western, Central and Southeast</u>									
Lincoln County									
1 SW Wellston	11	2158CST			0	0			Hail (0.88)
Lincoln County									
1 SE Wellston	11	2200CST			0	0			Hail (0.88)
Pontotoc County									
2 NNE Ada	11	2200CST			0	0			Thunderstorm Wind (G55)
			Wind was measured by the Oklahoma mesonet.						
Pontotoc County									
Ada	11	2200CST			0	0	25K		Thunderstorm Wind (G56)
			Several trees were downed. One tree fell on a car.						
Seminole County									
Seminole	11	2200CST			0	0	0.50K		Thunderstorm Wind (G52)
			Shingles were blown off a roof. Several tree limbs were also downed.						
Pontotoc County									
3 W Ada	11	2202CST			0	0			Hail (0.88)
Pontotoc County									
2 S Ada	11	2203CST			0	0			Thunderstorm Wind (G63)
Seminole County									
Seminole	11	2208CST			0	0	5K		Thunderstorm Wind (G52)
			Several trees were downed.						
Seminole County									
Wewoka	11	2213CST			0	0	5K		Thunderstorm Wind (G56)
			A large tree was uprooted at the Justice School playground.						
Hughes County									
Holdenville	11	2214CST			0	0	7.5K		Thunderstorm Wind (G56)
			Shingles were blown off several homes. Many trees were also damaged.						
Lincoln County									
4 W Davenport	11	2216CST			0	0			Thunderstorm Wind (G56)
Hughes County									
5 WNW Calvin	11	2220CST			0	0			Thunderstorm Wind (G55)
			Wind was measured by the Oklahoma mesonet.						
Coal County									
Centrahoma	11	2255CST			0	0	0.05K		Thunderstorm Wind (G52)
			Several tree limbs were downed.						
Pontotoc County									
Allen	11	2300CST			0	0			Hail (0.75)
Pontotoc County									
Allen	11	2300CST			0	0	0.07K		Thunderstorm Wind (G56)
			Several tree limbs were downed.						
Atoka County									
Atoka	11	2310CST			0	0			Thunderstorm Wind (G52)
Tillman County									
6 SW Grandfield	13	0045CST			0	0			Hail (0.75)
Tillman County									
6 N Frederick	13	0308CST			0	0			Hail (0.75)
Tillman County									
2 E Manitou	13	0317CST			0	0			Hail (0.75)
Kiowa County									
4 SE Hobart	13	0430CST			0	0			Thunderstorm Wind (G54)
			Wind was measured by the Oklahoma mesonet.						
Roger Mills County									
4 W Reydon	13	1930CST			0	0			Thunderstorm Wind (G52)
Roger Mills County									
6 NW Reydon	13	1950CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
OKLAHOMA, Western, Central and Southeast									
Washita County									
4 SE Cordell	14	1220CST			0	0			Heavy Rain
	Water was reported over county road.								
Stephens County									
4 E Comanche	14	1750CST			0	0	0.05K		Thunderstorm Wind (G52)
	Several four inch diameter limbs were downed.								
Ellis County									
Arnett	19	1415CST 1615CST			0	0			Heavy Rain
	A roadside park in Arnett was inundated by heavy rains causing low land flooding during the afternoon.								
Ellis County									
Gage	19	1415CST 1615CST			0	0			Heavy Rain
	A low area along Highway 15 in Gage was covered by floodwaters to a depth of about one foot.								
Roger Mills County									
7 ENE Strong City to 6.5 E Strong City	19	1445CST 1645CST			0	0	20K	40K	Flash Flood
	Unofficial rainfall totals up to 10 inches were observed, causing Nine Mile Creek to overtop its banks and flood croplands, farm implements, and low-lying rural roads. Showers and thunderstorms produced rainfall totals of 3 to 5 inches in parts of western Oklahoma including Ellis and Roger Mills counties. Three-inch rainfall amounts were recorded in two hours during the afternoon of the 19th in Ellis County. The heavy rains fell over soils that had been previously saturated by precipitation a few days before, and the resulting runoff produced bankfull conditions along small creeks in the region, and temporarily halted the wheat harvest. In Ellis County, Rock Creek and Wolf Creek were at bankfull levels, as well as many ditches in the area.								
Kiowa County									
4 SE Hobart	20	2350CST			0	0			Thunderstorm Wind (G50)
	Wind was measured by the Oklahoma mesonet.								
Tillman County									
4 S Tipton	21	0000CST			0	0			Thunderstorm Wind (G52)
	Wind was measured by the Oklahoma mesonet.								
Oklahoma County									
Oklahoma City	21	0240CST			0	0	1K		Thunderstorm Wind (G52)
	A five inch diameter tree was uprooted along with shingles blown off a roof. Several fence panels were also blown down near the intersection of Southwest 97th Street and May Avenue in southwest Oklahoma City.								
OKZ021>022-033>034 Beckham - Washita - Harmon - Greer									
	23	0030CST 0130CST			0	0	15K		High Wind (G61)
	An area of strong thunderstorms moved east across the Texas panhandle into extreme southwest Oklahoma where they dissipated. A heatburst developed as these storms dissipated causing winds to gust as high as 70 mph. An Oklahoma mesonet site located 10 ENE of Willow measured a wind gust of 59 mph at 0105 CST. This heatburst blew a shed into a fence on the west side of Mangum and blew a utility barn across a field northwest of Jester in Greer County. On Jester Road, a swing set was also blown across a field with the slide found 0.75 miles away from its original position. Trees were downed in Mangum causing electrical lines to also be downed. A bottle calf operation northwest of Willow, one mile north of the Greer-Beckham county line, had many of the calf huts blown around. In Harmon County, several high line power poles were downed near Vinson.								
	Temperatures at several mesonet locations increased during this heatburst. The mesonet site near Mangum rose to 99 degrees at 0115 CST. Winds gusted as high as 53 mph at this location along with dewpoints falling from the low to mid 60s before 0100 CST to 39 degrees at 0115 CST. The temperature at the mesonet site 10 ENE of Willow rose from 80 degrees to 95 degrees while the mesonet site near Hollis recorded a slight increase in temperature from 80 degrees to 85 degrees during the heatburst.								
Kay County									
5.5 ENE Blackwell	25	1610CST			0	0	3.5K		Thunderstorm Wind (G61)
	Strong winds caused minor roof and house siding damage. A garage door was also blown away.								
Kay County									
Newkirk	25	1615CST			0	0			Thunderstorm Wind (G52)
Comanche County									
Lawton	25	1620CST 1815CST			0	0			Flash Flood
	Torrential rains in Lawton produced flash flooding during the evening hours. Motorists became stranded in parking lots and on some streets after floodwaters rose up to 4.5 feet deep in some areas.								

Storm Data and Unusual Weather Phenomena

June 2003

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

Kay County

Ponca City	25	1650CST 1845CST			0	0			Heavy Rain
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Rainfall amounts of 2 to 3.5 inches were received over eastern Kay County including the Ponca City area. The subsequent urban flooding covered many streets and stalled multiple vehicles in Ponca City. Motorists at two locations in Ponca City were stranded by floodwaters and were rescued by emergency personnel.

Bryan County

Durant	26	0245CST 0700CST			0	0			Heavy Rain
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Three-hour rainfall totals of 4 to 4.5 inches during the early morning hours caused Chuckwa Creek to overtop its banks and flood a low-water bridge along Briarwood Avenue. At about 0400 CST, a woman attempted to cross the bridge in her truck. The truck became stranded by the floodwaters, and was nearly swept away. The woman and her baby were later rescued by firefighters.

OKZ044

Cotton	27	0100CST 0700CST			0	0	10K		Flood
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East Cache Creek near Walters crested at 0100 CST at 21.7 feet, or 0.7 feet above flood stage. Only low-lying agricultural lands were flooded along the creek.

Woods County

12 ENE Camp Houston	28	1000CST			0	0			Hail (0.88)
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Harper County

Buffalo	28	2105CST			0	0	0.10K		Thunderstorm Wind (G52)
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Several tree limbs were downed.

OKZ005-010

Woods - Woodward	29	0220CST 0500CST			0	0			High Wind (G62)
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Wind gusts ranging from 60 mph to 71 mph were measured at the Oklahoma mesonet site 2 WSW Woodward. These winds occurred during the development of a wake-low along the Oklahoma-Kansas state line. A line of thunderstorms moved through the area with a gap of about 60 miles of no precipitation between the line of storms and an area of stratiform rain. These winds occurred as the stratiform rain moved into the area.

OREGON, Central and East

Wallowa County

6 S Imnaha to Imnaha	18	1630PST 1740PST			0	0	1K		Thunderstorm Wind (G50)
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Strong winds from a thunderstorm knocked down several trees. In addition, an estimated one inch of rain fell in 10 to 15 minutes in Imnaha.

OREGON, Northwest

ORZ001

Northern Oregon Coast

14	0615PST			0	0	500K		Heavy Surf/High Surf
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The Taki-Tooo, a 32 foot fishing charter with 19 onboard, rolled over in the heavy surf/swell while crossing the Tillamook Bar during one of the strongest ebb currents of the summer. There were nine fatalities, two remain missing, and eight survived.

Polk County

Independence	21	0900PST	0.3	30	0	0		Tornado (F1)
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According to a report from the public, a tornado touched down for approximately 5 minutes near Independence. No damage was reported.

Polk County

Salem	21	0914PST			0	0		Funnel Cloud
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Weather observers at the Salem Airport Control Tower reported a funnel cloud 5 miles west of Salem.

OREGON, Southeast

NONE REPORTED.

OREGON, Southwest

ORZ029>031

Klamath Basin - Northern & Eastern Klamath County & Western Lake County - Central & Eastern Lake County

10	1451PST			0	0			Extreme Cold/Wind Chill
11	0800PST							

See below.

A Frost Warning was issued this night for Oregon zones ORZ029/030/031. No frost was reported, but reported low temperatures ranged from 27 to 43, so frost likely did occur.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
PENNSYLVANIA, Central									
PAZ058		Schuylkill							
	01	0625EST			0	0			Flood
		1030EST							
	From EMA...Up to 3 inches of rain fell across Schuylkill County, causing streams and creeks to rise sharply. Smaller tributaries of the Schuylkill River exceeded bankful...causing flooding of portions of Route 209, as well as other roads in Cass and Branch Townships.								
Cambria County									
Johnstown	03	1700EST			0	0			Flash Flood
		2000EST							
	Heavy rains caused multiple road closures throughout the county. Of most significance was a portion of Route 403. There were also two reported mudslides.								
Franklin County									
Greencastle	03	2100EST			0	0			Flash Flood
	04	0700EST							
	Heavy rains caused flooding county wide. Flooding was extensive in the Shippensburg area, where the sewage treatment plant sustained damage. Also, numerous road closures and flooded basements were reported in the Greencastle area.								
PAZ026		Huntingdon							
	04	0100EST			0	0			Flood
		2015EST							
	Heavy rainfall caused Aughwick Creek at Shirleysburg to exceed its flood stage of 10.0 feet. The creek exceeded flood stage at 01:00 EST on Wednesday June 4th, crested at 12.6 feet at 12:30 EST on the 4th, then fell below flood stage at 20:15 EST on the 4th.								
Bedford County									
Bedford	04	0800EST			0	0			Flash Flood
		1400EST							
	Several people were rescued after becoming stranded by flood waters in the town of Bedford due to flooded streams. Also, Bob's Creek exceeded bankful, flooding several roads in the towns of Reynoldsdale and Pavia.								
PAZ063-065		Cumberland - York							
	07	1715EST			0	0			Flood
	08	0130EST							
	Heavy rainfall caused Yellow Breeches Creek at Camp Hill to exceed its flood stage of 7.0 feet. The creek exceeded flood stage at 17:15 EST on Saturday June 7th, crested at 7.6 feet at 21:45 EST on the 7th, then fell below flood stage at 01:30 EST on the 8th.								
PAZ063		Cumberland							
	08	1645EST			0	0			Flood
	Heavy rainfall caused Conodoguinet Creek at Hogestown to reach Flood Stage of 8.0 feet. The creek crested just at flood stage at 16:45 EST on Sunday June 8th, then receded below flood stage at 17:45 EST on the 8th.								
Clearfield County									
Rockton Station	08	2015EST			0	0	35K		Thunderstorm Wind (G50)
	Pennsylvania Department of Transportation storage shed blown down (80' x 60') and across the road. Numerous power lines also down.								
York County									
Fawn Grove	13	1900EST			0	0	25K		Flash Flood
		2300EST							
	A nearly stationary thunderstorm produced extremely heavy rain across southern York county during the evening of June 13. Maximum rainfall estimates from doppler radar indicated 8 to 10 inches fell in the town of Fawn Grove, with 5 to 6 inches in the Sunnyburn area. Local fire officials in Fawn Grove reported 6 inches of rain in 1 hour. 1.99 inches of rain was reported in Peach Bottom. County Emergency Management officials reported Neill Run and Muddy Creek Fork were significantly out of their banks. One bridge near the intersection of Gemmil Road and Lakeside drive was completely washed out. Damage to a second bridge on Kilgore Road was also reported, with some of the road surface damaged. Numerous houses sustained some water damage, the most serious near Neill Run where 7 feet of water entered the home. Two cars and one camper were swept away on Quiet Stream Road from rising waters. Two heating oil tanks were also swept away. In addition, a section of Route 851 was washed out.								
PAZ066		Lancaster							
	20	2005EST			1	0			Flood
	21	1400EST							
	Heavy rain started minor flooding across Lancaster county during the early afternoon of Friday June 21st. By mid evening, significant flooding began. Over a dozen roads were closed across the county, including Farmersville Road, Route 772, Cider Mill Road, Log Cabin Road and Route 322 in West Earl Township. Significant stream flooding was also noted, the most severe along the Conestoga River and it's tributaries in Earl, East Earl, Strasburg, Manheim, Lampeter, Warwick and Lancaster townships. Calls for 4 water rescues were dispatched across the county. One fatality occurred when a motorist drove his car across a flooded bridge, and was								

Storm Data and Unusual Weather Phenomena

June 2003

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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PENNSYLVANIA, Central

PAZ059

Lebanon

21	0630EST				0	0			Flood
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Heavy rainfall caused Swatara Creek at Harper Tavern to exceed its flood stage of 9.0 feet. The creek exceeded flood stage at 06:30 EST on Saturday June 21st, crested at 10.3 feet at 17:45 EST on the 21st, then fell below flood stage at 23:15 EST on the 21st.

PAZ066

Lancaster

21	0945EST				0	0			Flood
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Heavy rains caused the Conestoga River at Lancaster to exceed its flood stage of 11.0 feet. The creek exceeded flood stage at 09:45 EST on Saturday June 21st, crested at 11.7 feet at 12:30 EST on the 21st, then fell below flood stage at 15:15 EST on the 21st.

Cumberland County

Boiling Spgs

21	1600EST				0	0			Flash Flood
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Heavy rains caused rapid rises in streams and closed several roads in southern Cumberland county near the town of Boiling Springs. Roads that were closed included Lerew Road, Petersburg Road and Mount Zion Road, all directly adjacent to Old Town Run and Lerew Creek.

Adams County

2.5 NW York Spgs

21	1630EST				0	0			Flash Flood
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Heavy rains caused rapid flooding in northern Adams county. In addition to 5 roads being closed due to flood waters and numerous flooded basements, a mud slide occurred near the intersection of Latimore and Strager road in the town of Latimore. Latimore Creek spilled it's banks, washing out about 100 campers parked at the Latimore Valley Fair. There were no injuries or deaths.

PENNSYLVANIA, East

Carbon County

Countywide

01	0000EST				0	0			Heavy Rain
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Monroe County

Countywide

01	0000EST				0	0			Heavy Rain
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Heavy rain fell across the Poconos from the late afternoon of May 31st into the mid morning on June 1st. Doppler Radar storm total estimates ranged between 2 and 4 inches across most of Carbon and Monroe Counties. No stream flooding was reported, but poor drainage and low lying area flooding did occur. Storm totals included 3.33 inches in Blakeslee (Monroe County), 3.24 inches in Mount Pocono (Monroe County), 3.04 inches in Pocono Summit (Monroe County), 2.21 inches in Lehighton (Carbon County) and 1.95 inches in East Stroudsburg (Monroe County). The heavy rain was caused by a low pressure system which moved from lower Wisconsin the evening of May 30th east to Ohio the morning of the May 31st, to near Harrisburg, Pennsylvania the early evening of May 31st, near Philadelphia just after Midnight EDT on June 1st and then accelerated eastward to just south of Cape Cod during the morning of June 1st. The central pressure of the system as it passed near Nantucket Island fell to 982 millibars during the afternoon of June 1st, a fairly intense extratropical system for late May and early June.

PAZ068

Montgomery

04	0754EST				0	0			Flood
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Heavy rain fell across Montgomery County between 3 a.m. and 10 a.m. EDT on the 4th. Storm totals averaged around 2 inches. The recent wet weather coupled with this rain caused urban and poor drainage flooding and flooding along the East Branch of the Perkiomen Creek. The East Branch of the Perkiomen Creek in was above its 7 foot flood stage from 854 a.m. through 540 p.m. EDT on the 4th. It crested at 8.28 feet at 230 p.m. EDT. The creek swept away a vegetable garden from one home in Schwenksville. Storm totals included 2.60 inches in Pottstown, 2.57 inches in Green Lane, 2.24 inches in Palm, 2.16 inches in Norristown, 1.78 inches in Hatboro and 1.57 inches at the Willow Grove NAS. The low pressure system that caused the heavy rain moved from the Southern Plains the morning of the 2nd, into the Ohio Valley the morning of the 3rd, near Pittsburgh the morning of the 4th and into Lake Erie during the evening of the 4th. The heavy rain preceded the arrival of this low pressure system's warm front.

PAZ069

Bucks

04	0900EST				0	0			Flood
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Heavy rain fell across Bucks County in two surges. One between 11 p.m. EDT on the 3rd and 2 a.m. EDT on the 4th and the second between 5 a.m. and 10 a.m. EDT on the 4th. Storm totals averaged between 2 and 3 inches. The recent wet weather coupled with this rain caused urban and poor drainage flooding and flooding along parts of the Neshaminy Creek and the East Branch of the Perkiomen Creek. The Neshaminy Creek in Langhorne was above its 9 foot flood stage from 150 p.m. EDT through 430 p.m. EDT on the 9th. It crested at 9.19 feet at 3 p.m. EDT on the 9th. In Perkasio, the East Branch of the Perkiomen Creek swept away shrubs along its banks. Flooding along the creek forced the closure of one road. Storm totals included 3.20 inches in Perkasio, 2.64 inches in New Hope, 2.63 inches in Sellersville, 2.60 inches in Fricks, 2.47 inches in Doylestown and 1.90 inches in Southampton. The low pressure system that caused the heavy rain moved from the Southern Plains the morning of the 2nd, into the Ohio Valley the morning of the 3rd, near Pittsburgh the morning of the 4th and into Lake Erie during the evening of the 4th. The heavy rain preceded the arrival of this low

Storm Data and Unusual Weather Phenomena

June 2003

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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PENNSYLVANIA, East

PAZ067

Chester

04	0934EST 1439EST	0	0		Flood
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Heavy rain fell across Chester County between 3 a.m. and 10 a.m. EDT on the 4th. Storm totals averaged between 2 and 3 inches. The recent wet weather coupled with this rain caused urban and poor drainage flooding and flooding along the East Branch of the Brandywine Creek. The East Branch of the Brandywine Creek in Downingtown was above its 7 foot flood stage from 1034 a.m. through 339 p.m. EDT on the 4th. It crested at 8.34 feet at 115 p.m. EDT. Storm totals included 2.89 inches in Morgantown (Lower Berks County), 2.70 inches in Glenmoore, 2.60 inches in Downingtown, 2.52 inches in Honey Brook and 2.45 inches in West Chester and 1.91 inches in Valley Forge. The low pressure system that caused the heavy rain moved from the Southern Plains the morning of the 2nd, into the Ohio Valley the morning of the 3rd, near Pittsburgh the morning of the 4th and into Lake Erie during the evening of the 4th. The heavy rain preceded the arrival of this low pressure system's warm front.

Carbon County

Central Portion

12	0200EST 0300EST	0	0		Flash Flood
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Thunderstorms with torrential downpours produced flash flooding of streams in central Carbon County. Doppler Radar storm total estimates reached between 3 and 4 inches, most of which fell within two hours. The heaviest rain fell in Lehigh and Penn Forest Townships.

Chester County

West Chester

12	1900EST	0	0	0.10K	Hail (0.50)
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Small hail damaged the window of a West Chester home. Pea size hail was also reported in East Bradford Township.

Delaware County

Chadds Ford

12	1935EST	0	0		Thunderstorm Wind (G50)
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A severe thunderstorm knocked down wires and large tree limbs in Chadds Ford. PECO energy reported power outages to 31,000 of their customers in their service area including Delaware County.

Berks County

Lenhartsville

12	1945EST 2045EST	0	0		Flash Flood
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Thunderstorms with torrential downpours dropped between 4 and 5 inches of rain within about an hour around Lenhartsville Borough in Berks County. A Rodale Institute employee measured 5 inches of rain in an hour. A section of Pennsylvania State Route 143 was closed after flood waters and mud swept across the roadway. The torrential rain and flash flooding loosened the dirt and knocked down several trees and subsequently power lines in the area. No major damage or injuries were reported.

Bucks County

Richlandtown

12	2000EST	0	0		Thunderstorm Wind (G50)
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Lehigh County

Coopersburg

12	2000EST	0	0		Thunderstorm Wind (G50)
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A severe thunderstorm downed a few trees mainly along the Lehigh and Bucks County border and caused scattered power outages.

Monroe County

Long Pond

12	2000EST	0	0	0	Lightning
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Monroe County

Marshalls Creek

12	2000EST	0	0	0	Lightning
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Lightning strikes ignited fires which badly damaged a barn in Marshall Creek (Smithfield Township) and a garage in Tunkhannock Township. No injuries were reported.

Carbon County

East Central Portion

12	2025EST 2330EST	0	0		Flash Flood
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A thunderstorm with torrential downpours caused flash flooding across east central Carbon County. Doppler Radar storm total estimates were between 3 and 4 inches, most of which fell within one hour. In Penn Forest Township, the Bass Dam was breached and the flood waters washed away the driveway and landscaping at a home near the dam. Another pond overflowed into the Towamensing Trails Development. In Towamensing Township, a small creek flooded sections of Pennsylvania State Route 903. In Kidder Township, Scotts Run overflowed in Albrightsville.

Monroe County

South Portion

12	2025EST	0	0		Flash Flood
13	0223EST				

Thunderstorms with torrential downpours caused flash flooding in Monroe County in two surges: first from the heavy rain and then from damaged dams overnight. In Polk Township, Dodder's Creek flooded near Pennsylvania State Route 534 in Pleasant Valley Estates. A dam along the creek was damaged and people in about 20 homes along the creek and downstream from the dam were temporarily evacuated. Homes had damaged basements and rugs. A private wooden bridge that was used by two homes was destroyed. Half a mile farther east, the raging creek washed away 600 trout owned by the Indian Mountain Rod and Gun Club. The creek rose four feet in minutes around 1015 p.m. EDT. In the southeastern part of the county, in Smithfield Township, concern about the Twin Lakes Dam led to the evacuation of 40 residents at the Milford Manor Nursing Home. Flood waters ruined the home's heating system and flooded its basement. In Hamilton Township, several roads were washed out or covered with rocks, debris and water in Bossardsville. In

Storm Data and Unusual Weather Phenomena

June 2003

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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PENNSYLVANIA, East

Stroud Township, rocks tumbled onto Pennsylvania State Route 611 in Delaware Water Gap. The Pohopoco Creek in Kresgeville was above its 8.5 foot flood stage from 1208 a.m. EDT through 323 a.m. EDT on the 13th. It crested at 9.09 feet at 114 a.m. EDT. Storm totals included 3.26 inches in Bossardsville and 3.19 inches in East Stroudsburg. Most of the rain fell within an hour.

Bucks County

Dublin to Springtown	20	1200EST 1900EST			0	0			Heavy Rain
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Monroe County

Countywide	20	1400EST 2200EST			0	0			Heavy Rain
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Northampton County

Countywide	20	1400EST 2100EST			0	0			Heavy Rain
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A slow moving low pressure system at both the surface and aloft helped trigger heavy rain across northern Bucks, Northampton and Monroe Counties from the afternoon into the evening on the 20th. Storm totals averaged around 2.0 inches. The heavy rain led to poor drainage flooding, but the counties were spared stream and river flooding that occurred with locations farther west in Pennsylvania. Blocked culverts exacerbated poor drainage flooding in Sellersville (Bucks County). In Northampton County, roadway flooding was reported on Pennsylvania State Routes 33 and 611. The Lehigh River at Walnutport briefly reached its flood stage overnight. Storm totals included 2.98 inches in Pocono Summit (Monroe County), 2.08 inches in Perkasie (Bucks County), 2.07 inches in Fricks (Bucks County), 1.86 inches in Easton (Northampton County), 1.85 inches in Springtown (Bucks County), 1.64 inches in East Stroudsburg (Monroe County) and Forks Township (Northampton County).

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals ranged from 7.9 inches in Bucks County to 8.8 inches in Northampton County to 10.0 inches in Monroe County. Normal is around 3.8 inches. The June monthly precipitation total of 8.08 inches at the Philadelphia International Airport was the second wettest on record. The June monthly precipitation total of 8.30 inches at the Lehigh Valley International Airport was the third wettest on record. The June monthly precipitation total at East Stroudsburg also set a new record. The monthly precipitation total of 9.62 inches at Mount Pocono was 5.09 inches wetter than normal.

The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

PAZ067

Chester

20	1458EST				0	1			Flood
21	2103EST								

A slow moving low pressure system at both the surface and aloft helped trigger very heavy rain across Chester County from the late morning into the afternoon 20th. Storm totals averaged between 2.0 and 5.0 inches, most of which fell during the afternoon at the rate of half an inch to inch per hour. The heavy rain led to widespread poor drainage flooding as well as flooding of most of the gaged rivers and streams in the county. The worst flooding occurred in and around Downingtown along the East Branch of the Brandywine Creek and the Beaver Creek. All roads leading into and out of Downingtown were flooded. The borough was blockaded by flood waters. Gas and electricity was cut to about 40 homes until flood waters receded shortly after midnight EDT on the 21st. Sand bags were used to block the creek from homes. The East Branch of the Brandywine expanded to five times its normal width. Benches in parks were swept away and several homes were flooded. Diesel fuel also spilled into the creek. Elsewhere in the county, flooding was reported in all low lying areas. In Kennett Square Borough, flooding along the East Branch of the Red Clay Creek closed South Street. In West Chester Borough, Goose Creek overflowed and blocked several roads after 4 p.m. EDT on the 20th. Several people were rescued from vehicles. In East Bradford Township, U.S. Route 322 and Pennsylvania State Route 162 were closed along the East Branch of the Brandywine. In Pocopson Township, Street Road and Pennsylvania State Route 100 became part of the Brandywine Creek. A roof collapse in East Goshen Township was the only rain related injury. One person was lacerated. The water saturated soil, mudslides and the general flooding caused trees to fall. About 29,000 PECO Energy customers lost power.

The East Branch of the Brandywine Creek in Downingtown was above its 7 foot flood stage from 527 p.m. EDT on the 20th through 807 a.m. EDT on the 21st. It crested at 13.22 feet at 1105 p.m. EDT on the 20th. The West Branch of the Brandywine Creek at Honey Brook was above its 7 foot flood stage from 657 p.m. EDT on the 20th through 533 a.m. EDT on the 21st. It crested at 10.03 feet at 1015 p.m. EDT on the 20th. Farther downstream the creek in Coatesville was above its 7 foot flood stage from 725 p.m. EDT on the 20th through 627 a.m. EDT on the 21st. It crested at 7.75 feet at 3 a.m. EDT on the 21st. In Modena, the creek was above its 9 foot flood stage from 303 a.m. EDT through 434 a.m. EDT on the 21st. It crested at 9.15 feet at 4 a.m. EDT. Along the main stem of the

Storm Data and Unusual Weather Phenomena

June 2003

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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PENNSYLVANIA, East

EDT on the 20th through 1003 p.m. EDT on the 21st. It crested at 12.82 feet at 457 a.m. EDT on the 21st. The French Creek at Phoenixville was above its 9 foot flood stage from 533 p.m. EDT on the 20th through 1145 a.m. EDT on the 21st. It crested at 10.99 feet at midnight EDT on the 21st. The Valley Creek at Valley Forge was above its 7 foot flood stage from 358 p.m. EDT on the 20th through midnight EDT on the 21st. It crested at 8.91 feet at 8 p.m. EDT on the 20th.

Storm totals included 5.36 inches in West Chester, 4.47 inches in Downingtown, 3.70 inches in Honey Brook, 3.09 inches in Glenmoore, 3.03 inches in Thorndale, 2.75 inches in Sanatoga, 2.35 inches in Exton and 1.86 inches in Glenmoore.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 9.7 inches in Chester County. Normal is around 3.7 inches. The June monthly precipitation total of 8.08 inches at the Philadelphia International Airport was the second wettest on record. The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

PAZ060

Berks

20	1600EST	0	0	Flood
21	0641EST			

A slow moving low pressure system at both the surface and aloft helped trigger very heavy rain across Berks County from the afternoon into the first half of the evening on the 20th. Storm totals averaged between 2.0 and 4.0 inches, most of which fell around the early evening commute at the rate of half an inch per hour. The heavy rain led to widespread poor drainage flooding as well as flooding of some of the streams in the county. Even retention basins were overflowing. The worst water damage occurred in the eastern part of the county in Amity, Douglass and Union Townships. Road closures began around 5 p.m. EDT. Pennsylvania State Route 724 was closed through the evening in Union Township, throughout the county thousands of basements were flooded. The water saturated soil, mudslides and the general flooding caused hundreds of trees to fall. Downed power lines closed several roads. The Manatawny Creek in Spangville was above its 6 foot flood stage from 710 p.m. EDT on the 20th through 741 a.m. EDT on the 21st. It crested at 7.76 feet at 1230 a.m. EDT on the 21st. Storm totals included 4.15 inches in Bernville, 3.25 inches in Bechtelsville, 2.61 inches in Reading and 2.48 inches in Hamburg.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 8.7 inches in Berks County. Normal is around 3.9 inches. The June monthly precipitation total of 7.20 inches at the Reading Regional Airport was 2.84 inches wetter than normal. The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

PAZ070

Delaware

20	1625EST	0	0	Flood
21	2103EST			

A slow moving low pressure system at both the surface and aloft helped trigger very heavy rain across Delaware County from the late morning into the afternoon 20th. Storm totals averaged between 2.0 and 4.0 inches, most of which fell during the afternoon at the rate of half an inch per hour. The heavy rain led to widespread poor drainage flooding as well as flooding of most of the gaged rivers and streams in the county. The worst flooding occurred along the Chester Creek. About 60 homes were evacuated along Powell Road in Chester City and suffered basement flooding. In Birmingham Township in the Chadds Ford area, a couple of roads were closed along Harvey Run. The Chester Creek in Chester was above its 8 foot flood stage from 534 p.m. EDT on the 20th through 510 a.m. EDT on the 21st. It crested at 14.63 feet at 830 p.m. EDT on the 20th. The Crum Creek at Newtown Square was above its 6 foot flood stage from 525 p.m. EDT on the 20th through 1204 a.m. EDT on the 21st. It crested at 8.72 feet at 8 p.m. EDT on the 20th. Along the county border with Chester County, the Brandywine Creek at Chadds Ford was above its 9 foot flood stage from 555 p.m. EDT on the 20th through 1003 p.m. EDT on the 21st. It crested at 12.82 feet at 457 a.m. EDT on the 21st. The water saturated soil, mudslides and the general flooding caused trees to fall. About 29,000 PECO Energy customers lost power. No serious injuries were reported. Storm totals

Storm Data and Unusual Weather Phenomena

June 2003

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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PENNSYLVANIA, East

included 4.03 inches in Havertown, 3.70 inches in Aston and 2.25 inches in Springfield Township.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 8.0 inches in Delaware County. Normal is around 3.4 inches. The June monthly precipitation total of 8.08 inches at the Philadelphia International Airport was the second wettest on record. The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

PAZ068

Montgomery

20	1650EST	0	0	Flood
21	0824EST			

A slow moving low pressure system at both the surface and aloft helped trigger very heavy rain across Montgomery County from the late morning into the afternoon 20th. Storm totals averaged between 1.5 and 3.5 inches, most of which fell during the afternoon at the rate of half an inch per hour. The heavy rain led to widespread poor drainage flooding as well as flooding along some of the gaged rivers and streams in the county. Several vehicles became stuck in flood waters. The worst flooding occurred along the Perkiomen Basin in the upper half of the county.

The West Branch of the Perkiomen Creek at East Greenville was above its 4 foot flood stage from 848 p.m. EDT on the 20th through 430 a.m. EDT on the 21st. It crested at 6.5 feet at 1215 a.m. EDT on the 21st. A bit farther downstream, in Hillegass, the creek was above its 5 foot flood stage from 754 p.m. EDT on the 20th through 215 a.m. EDT on the 21st. It crested at 5.32 feet at 930 p.m. EDT on the 20th. The East Branch of the Perkiomen Creek in Schwenksville was above its 7 foot flood stage from 710 p.m. EDT on the 20th through 334 a.m. EDT on the 21st. It crested at 8.28 feet at 1130 p.m. EDT on the 20th. Along the main stem of the Perkiomen Creek at Graterford, the creek was above its 11 foot flood stage from 824 p.m. EDT on the 20th through 740 a.m. EDT on the 21st. It crested at 13.78 feet at 130 a.m. EDT on the 21st. The first gaged creek to go over in the county was the Manatawny Creek in Pottstown which reached its 6 foot flood stage at 550 p.m. EDT on the 20th, crested at 9.55 feet 830 p.m. EDT on the 20th and was back within bankfull at 924 a.m. EDT on the 21st. The Schuylkill River in Pottstown was briefly above its 13 foot flood stage from 1022 p.m. EDT through 1140 p.m. EDT on the 20th. It crested at 13.04 feet at 11 p.m. EDT.

Storm totals included 3.89 inches in Pottstown, 3.35 inches in Wynnewood, 3.18 inches in Palm, 2.80 inches in Green Lane, 2.30 inches in Royersford and 1.51 inches at the Willow Grove NAS.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 9.5 inches in Montgomery County. Normal is around 3.5 inches. The June monthly precipitation total of 8.08 inches at the Philadelphia International Airport was the second wettest on record. The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

PAZ061

Lehigh

20	1900EST	0	0	Flood
21	0630EST			

A slow moving low pressure system at both the surface and aloft helped trigger heavy rain across Lehigh County. Storm totals averaged around 2.5 inches. The heavy rain led to poor drainage flooding and flooding of streams and rivers in the county. In Salisbury Township, the flooding of the Little Lehigh River closed one road. In Allentown, Cedar Creek and Lake Muhlenberg overflowed. Seven blocks were closed. In Lower Macungie Township, flooding along the Swabia Creek forced a bridge closure. Several vehicles throughout the county became trapped in flood waters. The Little Lehigh River in Allentown was above its 6 foot flood stage from 1058 p.m. EDT on the 20th through 347 a.m. EDT on the 21st. It crested at 6.8 feet at 115 a.m. EDT on the 21st. The Lehigh River at Walnutport (along the Northampton County border) reached and stayed at its 8 foot flood stage from 630 a.m. EDT through 730 a.m. EDT on the 21st. Storm totals included 2.67 inches at the Lehigh Valley International Airport.

Storm Data and Unusual Weather Phenomena

June 2003

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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PENNSYLVANIA, East

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 9.1 inches in Lehigh County. Normal is around 3.9 inches. The June monthly precipitation total of 8.30 inches at the Lehigh Valley International Airport was the third wettest on record.

The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

PAZ071

Philadelphia

20	1907EST	0	0	Flood
21	1207EST			

A slow moving low pressure system at both the surface and aloft helped trigger very heavy rain across Philadelphia from the late morning into the afternoon 20th. Storm totals averaged around 1.5 inches, most of which fell during the afternoon at the rate of half an inch per hour. The heavy rain led to widespread poor drainage flooding as well as flooding of some of the gaged rivers and streams in the city. Even heavier rain fell upstream northwest of the city. The Wissahickon Creek at its mouth with the Schuylkill River was above its 5 foot flood stage from 807 p.m. EDT on the 20th through 145 a.m. EDT on the 21st. It crested at 5.33 feet at 11 p.m. EDT on the 20th. The Schuylkill River within Philadelphia was above its 11 foot flood stage from 245 a.m. EDT through 107 p.m. EDT on the 21st. It crested at 11.44 feet at 815 a.m. EDT. The water saturated soil and the general flooding caused trees to fall. About 29,000 PECO Energy customers lost power. No serious injuries were reported. Storm totals included 1.60 inches at the Philadelphia International Airport and 1.38 inches at the Franklin Institute.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 7.1 inches in Philadelphia. Normal is around 3.6 inches. The June monthly precipitation total of 8.08 inches at the Philadelphia International Airport was the second wettest on record. The wet spring weather led to a whole different set of problems from the drought of the previous year. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

PAZ054

Carbon

20	2000EST	0	0	Flood
21	0600EST			

A slow moving low pressure system at both the surface and aloft helped trigger heavy rain across Carbon County. Storm totals averaged between 2.0 and 4.0 inches. The heavy rain led to poor drainage flooding and flooding of streams in the county. Storm totals included 3.52 inches in Lehighton. Beltzville State Park beach was closed because of high bacteria count caused by the runoff.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low north into Chesapeake Bay and Eastern Pennsylvania concentrated the heavy rain along its axis.

June as a whole was an unseasonably wet month. On a county weighted average, June monthly precipitation totals averaged 9.6 inches in Carbon County. Normal is around 4.1 inches. The June monthly precipitation total of 8.30 inches at the Lehigh Valley International Airport was the third wettest on record. The June monthly precipitation total of 9.62 inches at Mount Pocono (Monroe County) was 5.09 inches wetter than normal.

The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

Storm Data and Unusual Weather Phenomena

June 2003

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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PENNSYLVANIA, East

PAZ055

Monroe

21	1700EST				0	0			Flood
22	0200EST								

A slow moving low pressure system at both the surface and aloft helped trigger heavy rain across Monroe County on both the 20th and 21st. Two day storm totals averaged between 3.0 and 6.0 inches with the highest amounts in the northern half of the county. This led to poor drainage and creek flooding during the evening of the 21st. Brodhead Creek flooding was reported along Pennsylvania State Route 191 in Analomink (Stroud Township). Basement flooding was reported in Stroudsburg. Two day storm totals included 5.43 inches in Pocono Summit, 4.04 inches in Mount Pocono and 3.87 inches in East Stroudsburg. A new monthly precipitation record for June was established in East Stroudsburg.

The low pressure system responsible for the heavy rain formed along a stationary front over the Carolinas during the morning of the 20th. It moved to just east of Wallops Island, Virginia during the evening of the 20th and well east of the Delmarva Peninsula during the morning of the 21st. An inverted trough at the surface that extended from the low westward into Northern New Jersey and Northeast Pennsylvania concentrated the heavy rain along its axis. On the 21st, the heaviest rain fell from the afternoon into the early evening.

The wet spring weather led to a whole different set of problems from the drought of the previous year. Planted seeds were drowning and rotting. Many soybean, corn and berry fields were too wet. There were also problems with slugs. Vegetables were generally about a month behind. Double crop fields fell behind schedule because of the slow growth of straw and hay. Garden shops sales have been down. Pool installations were about three to six weeks behind. Ant infestations increased. Windshield wipers were tearing. Many spring athletic seasons were extended because of postponed events. There will be a bumper crop of mosquitoes. Attendance along the shore and at amusement parks was down. Road work was delayed. The one few positives from the wet weather was lower utility bills.

PAZ054

Carbon

22	1025EST				0	0			Flood
	1300EST								

Runoff from the heavy rain on the 20th and additional lighter rain on the 21st caused minor flooding along the Pohopoco Creek on the 22nd. The Pohopoco Creek in Parryville was above its 5.5 foot flood stage from 1125 a.m. through 1 p.m. EDT on the 22nd. It crested at 5.99 feet at 1215 p.m. EDT on the 22nd. The storm total in Lehighton for the 20th and 21st was 4.07 inches.

PAZ067>071

Chester - Montgomery - Bucks - Delaware - Philadelphia

23	0900EST				3	0			Excessive Heat
27	2000EST								

The first run of excessive heat and humidity of the summer season occurred during the work week of June 23rd across Philadelphia and its suburbs. The highest temperatures and heat indices occurred on the 26th. This was a marked contrast from the unseasonably cool and wet June prior to this week. Temperatures and moisture levels eased after a cold front moved through the region during the day on the 27th. There were three heat related deaths reported, two in Philadelphia and one in West Chester (Chester County). In all three cases windows were found closed and the persons either had no air conditioning or it was unplugged. The room temperature of the dead gentleman found in West Chester was over 90 degrees. During excessive heat events the Philadelphia Corporation for the Aging opens a heat hot line. Outreach programs are initiated to help those in the city who are most at risk. Highest temperatures included 100 degrees at the Franklin Institute within Philadelphia, 97 degrees at the Philadelphia International Airport, 96 degrees in West Chester (Chester County), 93 degrees in Doylestown (Bucks County) and 92 degrees in Pottstown (Montgomery County). M96PH, F77PH, F78PH

PENNSYLVANIA, Northeast

Lackawanna County

Scranton

01	0600EST				0	0	30K		Flash Flood
	1000EST								

Heavy rain fell from May 31st into the 1st of June. This rain combined with additional water from an overtopped dam, washed out Smallacombe Drive where Leach Creek goes under it. The overtopped dam was around a mile upstream of Smallacombe Drive. Other roads that closed were Old Trail Road in the town of Glenburn and Nay Aug Avenue in Scranton. In the town of South Abington, about a foot of water was in the intersection of Northern Boulevard and South Abington Road. Over three inches of rain fell in less than 24 hours. Between May 31st and June 1st, 3.31 inches fell at the Scranton Wilkes-Barre airport in Avoca.

Luzerne County

Parsons to Plains

14	1800EST				0	0	50K		Flash Flood
	2000EST								

Thunderstorms with heavy rain moved across the area on June 14th. Rainfall rates were 1 to 2 inches an hour. In Parsons on the northeast side of Wilkes-Barre, several apartment buildings on Woodside Drive flooded. Cars were stuck in the rising waters past their doors. In the town of Plains, state route 315 lost stretches of shoulder due to torrents of water.

Bradford County

Countywide

21	1523EST				0	0	100K		Flash Flood
	2030EST								

The hardest hit areas were in the northeast quarter of Bradford County, including the townships of Warren, Orwell, and Windham. Creeks came out of their banks. Many roads were closed due to water on the roads. A few closed due to washouts. SR4018 washed out in Athens township. Heavy rain fell during the afternoon and evening of the 21st. Rainfall amounts on the 21st were around two inches. On the 20th, 1 to 2 inches of rain made the ground saturated.

Storm Data and Unusual Weather Phenomena

June 2003

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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PENNSYLVANIA, Northeast

Pike County

10 W Milford	21	1900EST 2300EST			0	0	20K		Flash Flood
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State route 739 washed out in Dingman Township. Heavy rain fell during the afternoon into the evening of the 21st. Radar estimated 2 to 3 inches of rain fell. Rain also fell on the 20th making the ground saturated.

PENNSYLVANIA, Northwest

Crawford County

Springboro	12	1900EST			0	0			Funnel Cloud
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A funnel cloud was observed near Springboro. The funnel persisted several minutes but caused no damage.

Crawford County

Springboro	12	1910EST			0	0	15K		Thunderstorm Wind (G50)
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Thunderstorm winds downed several trees.

Crawford County

Conneautville	12	2029EST			0	0			Funnel Cloud
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A rotating funnel cloud was observed four miles southeast of Conneautville along State Route 18. The funnel persisted for several minutes but caused no damage.

PAZ002

Southern Erie

12	2100EST				0	0	500K		Flood
13	0200EST								

Thunderstorms dumped heavy rains on western Erie County during the evening of the 12th. Over two inches of rain fell in 45 minutes at Albion during the peak of the storm. Two day rainfall totals of over five inches were reported in this same area. Lowland and street flooding occurred throughout the western portion of the county. Many roads were closed and at least two culverts damaged by the flooding.

PAZ003

Crawford

12	2100EST				0	0	500K		Flood
13	0200EST								

Thunderstorms dumped two to four inches of rain on portions of Crawford County during the evening of the 12th. This rain combined with ground already saturated from rain the previous day led to widespread lowland and street flooding. The flooding was most severe in the western and northwestern portions of the county, especially in the Linesville and Conneautville areas. Many roads, including U.S. Route 6 and State Route 18, had to be closed in these areas as a result of flooding. The flood waters were up to four feet deep in some areas. Many homes and cars were damaged.

PENNSYLVANIA, West

Allegheny County

Pittsburgh Intl Arpt	08	1833EST			0	0			Thunderstorm Wind (G52)
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60 mph wind gust caused considerable structural damage.

Allegheny County

Moon	08	1833EST			0	0	15K		Thunderstorm Wind (G52)
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Two 100-ft pine trees snapped off 30 ft above ground.

Allegheny County

Countywide	08	1834EST 1845EST			0	0	20K		Thunderstorm Wind (G78)
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Numerous large trees downed by wind. A microburst hit Moon Twp, moved east northeast across the townships of Ross and Shaler, to near Natrona Heights. In Natrona Heights, the microburst was one quarter to one half mile wide, and produced a wind of 70 to 90 mph. In the North Hills of Pittsburgh, skywarn spotters reported some roads still blocked by fallen trees beyond 1:40 AM EDT on 9th. 6000 customers lost electric power.

Washington County

3 W Mc Murray	08	1835EST			0	0	1K		Thunderstorm Wind (G52)
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Large trees down.

Washington County

Mc Murray	08	1850EST			0	0	5K		Thunderstorm Wind (G55)
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Utility pole snapped off by wind.

Allegheny County

Elizabeth	08	1850EST			0	0	10K		Thunderstorm Wind (G55)
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Large trees blown down onto houses.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>PENNSYLVANIA, West</u>									
Westmoreland County									
Hyde Park	08	1850EST			0	0	5K		Thunderstorm Wind (G55)
			Large trees down and siding ripped from house.						
Allegheny County									
South Park	08	1854EST			0	0	1K		Thunderstorm Wind (G52)
			Large trees down.						
Allegheny County									
Oakmont	08	1900EST			0	0	1K		Thunderstorm Wind (G52)
			Large trees down.						
Allegheny County									
Natrona Hgts	08	1900EST			0	0	15K		Thunderstorm Wind (G55)
			Wind damage to houses, swimming pools, and sheds along Freeport Rd and Jefferson St. Part of roof of pizza shop damaged.						
Washington County									
Hickory	08	1900EST			0	0	10K		Thunderstorm Wind (G53)
			Roofs blown off 2 barns.						
Westmoreland County									
Weinel Xrds	08	1910EST			0	0	5K		Thunderstorm Wind (G55)
			Large tree blown down, blocking Route 356.						
Butler County									
Harmony	08	1915EST			0	0	2K		Thunderstorm Wind (G52)
			Trees blown down onto Clearfield Rd and Crab Run Rd.						
Armstrong County									
Leechburg	08	1915EST			0	0	1K		Thunderstorm Wind (G52)
			Trees down.						
Armstrong County									
Ford City	08	1925EST			0	0	5K		Thunderstorm Wind (G65)
			Large trees and power lines blown down from winds estimated at 75 mph.						
Armstrong County									
Elderton	08	1930EST			0	0	5K		Thunderstorm Wind (G60)
			Large trees and power lines blown down from winds estimated 69 mph.						
Indiana County									
West Lebanon	08	1938EST			0	0	5K		Thunderstorm Wind (G55)
			Large trees down.						
Westmoreland County									
Latrobe	08	1940EST			0	0	1K		Thunderstorm Wind (G52)
			Large trees blown down onto Route 980.						
Indiana County									
Indiana	08	1942EST			0	0	2K		Thunderstorm Wind (G55)
			Large trees down.						
Fayette County									
Uniontown	08	1950EST			0	0	2K		Thunderstorm Wind (G55)
			Large trees down.						
Jefferson County									
Brookville	08	1956EST			0	0	2K		Thunderstorm Wind (G50)
			Large trees down.						
Fayette County									
Flat Rock	08	2000EST			0	0	2K		Thunderstorm Wind (G55)
			Large trees down.						
Jefferson County									
Brockway	08	2010EST			0	0	1K		Thunderstorm Wind (G54)
			Large trees down.						
Allegheny County									
.5 E Carnegie to 4 NE Carnegie	12	1640EST 1644EST	5.5	50	0	0	30K		Tornado (F0)

F0 tornado touched down in Scott Twp near Scott Twp Municipal Park. It traveled northeast about 20 mph to Greentree. It crossed near the intersection of Greentree Rd and the Parkway West. As it continued to travel northeast, it produced considerable tree damage along Springfield Rd and New York Rd. The tornado path ended with snapped trees along Grandview Dr on top of Mount Washington, where there was minor damage to roofs, siding, and structures. Estimated max wind 70 mph. Path length 5.5 mi. Path wide 50 yds.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>PENNSYLVANIA, West</u>									
Allegheny County									
Greentree	12	1645EST			0	0	7K		Thunderstorm Wind (G50)
									Trees and power lines downed by wind. 7000 customers lost electric power.
Allegheny County									
2 SE Gibsonia	12	1650EST			0	0			Hail (1.75)
Armstrong County									
Freeport	12	1745EST			0	0	2K		Thunderstorm Wind (G50)
									Trees down.
Armstrong County									
Kittanning	12	1800EST 1930EST			0	0	25K		Flash Flood
									Numerous flooded roads, basements, 2 businesses, and an ice arena/swimming pool flooded.
Allegheny County									
Russelton	12	1839EST 2000EST			0	0			Flash Flood
									Retention dam failed on Little Deer Creek.
Clarion County									
Foxburg	12	1850EST			0	0	1K		Thunderstorm Wind (G50)
									Large trees down.
Venango County									
President	12	1915EST 2000EST			0	0			Flash Flood
									Small streams flooded roads.
Forest County									
Tionesta	12	1930EST 2000EST			0	0			Flash Flood
									Small streams flooded roads.
Beaver County									
Baden	12	1945EST			0	0	1K		Thunderstorm Wind (G50)
									Large trees down.
Butler County									
Butler	12	2010EST			0	0	1K		Thunderstorm Wind (G50)
									Large trees down.
Butler County									
Sarver	12	2130EST 2230EST			0	0			Flash Flood
									Little Bull Creek overflowed.
Allegheny County									
Etna	12	2245EST 2345EST			0	0			Flash Flood
									Little Pine Creek flooded Route 8.
Venango County									
Emlenton Station	12	2255EST 2359EST			0	0			Flash Flood
									Numerous roads flooded.
Clarion County									
St Petersburg	12 13	2330EST 0030EST			0	0			Flash Flood
									Numerous roads flooded.
Forest County									
West Hickory to Tionesta	13	0030EST 0130EST			0	0	10K		Flash Flood
									Little Hickory Creek flooded Route 62 between Tionesta and West Hickory. 2 cars submerged.
Lawrence County									
New Castle to Eastbrook	13 14	2150EST 0015EST			0	0			Flash Flood
									Numerous roads flooded in the townships of Hickory, Neshannock, Union, and Mahoning.

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Butler County									
Butler	13	2200EST 2355EST			0	0			Flash Flood
Route 38 in Center Twp closed by flooding.									
Greene County									
Bobtown	20	1500EST			0	0			Hail (0.75)
Washington County									
Mc Murray	20	1620EST 1700EST			0	0			Flash Flood
Mc Murray Rd flooded.									
Washington County									
Washington	20	1623EST 1715EST			0	0	5K		Flash Flood
Streams overflowed onto roads. At 6:15 PM EDT, several motorists were stranded in their cars on Chestnut St because of water as high as the car hoods.									
Allegheny County									
Pittsburgh	20	1820EST 2030EST			0	0			Flash Flood
Numerous roads and basements flooded in the Squirrel Hill and Greenfield sections of Pittsburgh. Mud slide on Beechwood Ave, trapping car.									
<u>PUERTO RICO</u>									
San Juan And Vicinity									
Carolina to Bayamon	04	2145AST 2215AST			0	0			Heavy Rain
A line of heavy showers moved across the San Juan Metro area producing gusty winds and low visibilities. The NWS ASOS site at Luis Munoz Marin International Airport recorded a gust of 53 mph at 2156 AST.									
Culebra									
Culebra	13	1225AST 1240AST			0	0			Funnel Cloud
Roosevelt Roads Naval Base tower reported a funnel cloud between northeast of Puerto Rico and Culebra island.									
<u>RHODE ISLAND</u>									
NONE REPORTED.									
<u>SOUTH CAROLINA, Central</u>									
Bamberg County									
Ehrhardt	10	1430EST			0	0	10K	0	Thunderstorm Wind (G60)
Newspaper reported trees down on a home and car in Ehrhardt.									
Richland County									
Columbia	11	1355EST 1405EST			0	0		0	Hail (0.75)
KE4LHS reported 3/4 inch hail in east and northeast Columbia.									
Richland County									
Columbia	11	1405EST 1410EST			0	0	30K	0	Thunderstorm Wind (G55)
Trees fell on a home in Columbia causing moderate damage to the roof. WOLO TV studio had part of the roof and side of the building torn off.									
Richland County									
Columbia	11	1410EST			0	0	55K	0	Lightning
Lightning struck a home starting a fire that caused \$55k in damage.									
Bamberg County									
3 W Bamberg to 13 S Bamberg	12	2030EST			0	0		0	Thunderstorm Wind (G55)
Sheriff reported trees down on hwy 78 and also near Ehrhardt.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH CAROLINA, Central</u>									
Richland County									
5 S Eastover	16	1342EST			0	0			Hail (0.75)
			Post Office reported 3/4 inch hail west of Eastover on hwy 764.						
Barnwell County									
8 NW Barnwell	16	1352EST			0	0			Hail (0.88)
			Sheriff reported nickel size hail northwest of Barnwell on hwy 278.						
Aiken County									
Aiken	16	1540EST			0	0	0		Thunderstorm Wind (G50)
			Sheriff reported trees down in Aiken.						
Lancaster County									
Lancaster	17	2000EST 2200EST			0	0	0		Flash Flood
			Newspaper reported flash flooding in the city of Lancaster flooded several apartments and stranded several motorists.						
Lexington County									
West Columbia	18	1700EST			0	0	55K	0	Lightning
			Lightning struck a home setting on fire and destroying it.						
Sumter County									
Sumter	28	1420EST			0	0	0	0	Thunderstorm Wind (G50)
			Sheriff reported several trees down in west Sumter.						
Barnwell County									
3 N Blackville	29	1838EST			0	0	0	0	Thunderstorm Wind (G50)
			Emergency manager reported trees down on hwy 3 north of town.						
Aiken County									
Aiken	29	1800EST			0	0	3.5K	0	Lightning
			Lightning struck a pine tree which fell on a pickup truck doing moderate damage.						
<u>SOUTH CAROLINA, North Coastal</u>									
Florence County									
Florence	11	1925EST			0	0			Hail (0.75)
			The Florence County 911 center reported penny size hail.						
Darlington County									
Mechanicsville	11	1945EST			0	0	10K		Thunderstorm Wind (G60)
			Two trees were reported down on the north side of Mechanicsville. One of the trees fell on a car.						
Williamsburg County									
Trio	12	1210EST			0	0	5K		Thunderstorm Wind (G65)
			Strong winds blew the roof off a mobile home.						
Dillon County									
1 NE Lake View	19	1756EST			0	0			Thunderstorm Wind (G60)
			The Dillon 911 reported trees down.						
Florence County									
Florence	20	1430EST			0	0	10K		Thunderstorm Wind (G65)
			A television newsman reported that several pine trees had their tops snapped off. There was damage to the siding and underpinnings of several mobile homes.						
<u>SOUTH CAROLINA, Northwest</u>									
York County									
Rock Hill	07	2130EST			0	0			Flash Flood
	08	0100EST							
			Several small creeks flooded. Part of highway 5 was washed out.						
Spartanburg County									
Enoree	11	1732EST			0	0	1K		Thunderstorm Wind (G50)
			Some trees and power lines were blown down on Mountain Shoals Rd.						
Abbeville County									
Due West to Donalds	11	1940EST			0	0			Thunderstorm Wind (G50)
			A couple of trees were blown down and a pontoon boat was blown off a trailer.						
Laurens County									
5 NW Joanna	16	1655EST			0	0			Thunderstorm Wind (G50)
			Several trees were blown down.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH CAROLINA, Northwest</u>									
York County									
Ft Mill	16	1945EST			0	0			Lightning
			Lightning struck a house.						
Anderson County									
Pendleton	18	2330EST			0	0	250K		Flash Flood
	19	0300EST	Seven-and-a-half inches of rain fell in 3 hours along the Anderson/Pickens County line just after midnight on the nineteenth. The result was flooding of numerous bridges, roads, and buildings. A vehicle was swept from a road by rushing water, and the driver required rescuing. Trees were washed away along highways 8, 81 and 178.						
Pickens County									
Easley	18	2330EST			0	0			Flash Flood
	19	0400EST	Pope Field Rd was flooded and highway 8 was covered by 8 inches of water just south of the city.						
Pickens County									
Clemson to Central	18	2330EST			0	0			Flash Flood
	19	0300EST	Several creeks flooded, mainly in areas south of Clemson to near Central.						
Anderson County									
3 NW Piedmont	19	0100EST 0300EST			0	0	10K		Flash Flood
			Several roads and bridges were flooded in the Slabtown and Powdersville areas. A car was swept off a road by rushing water.						
Union County									
Union	19	1415EST			0	0			Thunderstorm Wind (G50)
			Several trees were blown down.						
Union County									
Carlisle	19	1430EST			0	0			Thunderstorm Wind (G50)
			Several trees were blown down.						
York County									
Ft Mill	19	1600EST			0	0	10K		Thunderstorm Wind (G50)
			A 100-year-old oak tree was blown into a home, causing considerable damage.						
Chester County									
2 W Chester	27	1600EST			0	0	1K		Thunderstorm Wind (G50)
			A large tree was blown onto part of a house, causing relatively minor damage.						
<u>SOUTH CAROLINA, South Coastal</u>									
Jasper County									
Hardeeville	03	1700EST 1705EST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down trees, large limbs, and power lines.						
Colleton County									
Cottageville	03	1715EST 1720EST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down trees.						
Beaufort County									
Beaufort	03	1720EST 1725EST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds knocked down trees.						
Colleton County									
Walterboro	03	1735EST 1740EST			0	0			Thunderstorm Wind (G50)
			Strong winds knocked down trees.						
Charleston County									
Ravenel to Mt Pleasant	03	1750EST 1830EST			0	0			Thunderstorm Wind (G50)
			Thunderstorm winds caused widespread damage across the county. Trees and power lines were knocked down in Hollywood, Ravenel, Kiawah Island, Johns Island, the West Ashley section of Charleston, and in Mount Pleasant. A carport was moved 500 feet in Hollywood.						

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH CAROLINA, South Coastal</u>									
Berkeley County									
Hanahan	03	1820EST 1825EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down trees.
Berkeley County									
St Stephen to 5 SE Jamestown	03	1840EST 1900EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down trees on Mendle Road near St. Stephen and on Highway 45 just north of the Charleston county line.
Charleston County									
Awendaw	03	1905EST 1907EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down large limbs in Awendaw.
Berkeley County									
Jamestown	08	1820EST 1900EST			0	0			Flash Flood
									Two to 4 inches of rain fell in only a few hours causing roads to be flooded.
Colleton County									
Cottageville	13	1450EST 1455EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds uprooted several trees.
Berkeley County									
Cross	16	1500EST 1505EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down 3 trees.
Berkeley County									
Moncks Corner	16	1545EST 1550EST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down trees and power lines.
Berkeley County									
Moncks Corner	16	1700EST 1830EST			0	0			Flash Flood
									Thunderstorms dumped up to 5 inches of rain in just a few hours around Moncks Corner. Numerous streets were flooded and 5 apartments took in water.
Beaufort County									
Port Royal	16	1925EST			0	0			Lightning
									Lightning struck a power line and traveled through the line to a Coca-Cola bottling plant in Port Royal. Two fires were started which caused some damage to the building.
<u>SOUTH DAKOTA, Central and North</u>									
Roberts County									
2 N Summit	05	1510CST			0	0			Hail (0.75)
Grant County									
6 W Marvin	05	1525CST			0	0			Hail (0.88)
Marshall County									
6 SW Britton	05	1815CST			0	0			Hail (0.75)
Stanley County									
20 N Hayes	09	1623CST			0	0			Hail (0.75)
Jones County									
Draper	09	1715CST			0	0			Hail (0.75)
Jones County									
5 E Draper	09	1732CST			0	0			Hail (0.88)
Lyman County									
1 W Vivian	09	1735CST			0	0			Hail (1.75)
Lyman County									
Vivian	09	1740CST			0	0			Hail (0.75)
Hughes County									
26 S Harrold	09	1815CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

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									
20 S Harrold	09	1838CST			0	0			Hail (1.00)
Hyde County									
7 W Stephan	09	1845CST			0	0			Hail (0.75)
Stanley County									
12 S Ft Pierre	11	1725CST			0	0			Hail (0.88)
Lyman County									
15 N Vivian	11	1730CST			0	0			Hail (1.50)
Hughes County									
7 N Pierre	11	1827CST			0	0			Hail (1.75)
Lyman County									
17 N Presho	11	1830CST			0	0			Hail (0.88)
Hughes County									
Pierre	11	1849CST			0	0			Hail (1.75)
Lyman County									
10 NW Kennebec	11	1859CST			0	0			Hail (2.75)
Faulk County									
2 N Onaka	11	1904CST			0	0			Hail (1.75)
Lyman County									
4 N Kennebec	11	1908CST			0	0			Thunderstorm Wind (G78)
Lyman County									
10 NE Presho	11	1917CST			0	0			Hail (4.50)
Sully County									
3 E Onida	11	1936CST			0	0			Hail (0.75)
Edmunds County									
10 S Roscoe	11	1940CST			0	0			Hail (0.75)
Hyde County									
16 NW Highmore	11	2000CST			0	0			Hail (0.75)
Potter County									
13 SW Gettysburg	11	1842CST 1843CST	0.1	25	0	0			Tornado (F0)
									A tornado touched down briefly southwest of Gettysburg causing no damage.
Sully County									
10.3 SE Onida to 10.5 SE Onida	11	1858CST 1900CST	0.2	25	0	0			Tornado (F0)
									A tornado touched down in far southern Sully county and moved into northern Hughes county. No damage occurred.
Hughes County									
2 N Blunt to 1.8 N Blunt	11	1900CST 1902CST	0.2	25	0	0			Tornado (F0)
									A tornado moved into Hughes county from Sully county before dissipating. No damage occurred.
Lyman County									
4 N Kennebec	11	1909CST 1912CST	0.1	25	0	0			Tornado (F0)
									A tornado touched down briefly north of Kennebec causing no damage.
Lyman County									
7 E Reliance to 7.5 E Reliance	11	2013CST 2016CST	0.5	50	0	0			Tornado (F0)
									A tornado touched down east of Reliance causing no damage.
Lyman County									
5 N Kennebec	11	2030CST 2031CST	0.1	25	0	0			Tornado (F0)
									A tornado touched down briefly north of Kennebec causing no damage.
Lyman County									
Reliance	11	2030CST 2230CST			0	0			Flash Flood
									Heavy rains of 2 to 4 inches caused flash flooding of Highway 47 in several places near Reliance.

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Faulk County									
4 S Onaka	16	1520CST			0	0			Hail (1.00)
Faulk County									
2 S Onaka	16	1525CST			0	0			Hail (1.00)
Hand County									
11 SW Polo	16	1545CST			0	0			Hail (1.00)
Faulk County									
3 W Onaka	16	1605CST			0	0			Hail (0.75)
Faulk County									
6 NE Onaka	16	1615CST			0	0			Hail (0.75)
Hand County									
3 SW Polo	16	1630CST			0	0			Hail (0.75)
Faulk County									
4 W Chelsea	16	1720CST			0	0			Hail (0.75)
Day County									
6 N Pierpont	16	1745CST			0	0			Hail (1.25)
Marshall County									
7 W Langford	16	1745CST			0	0			Hail (1.00)
Hughes County									
3 E Canning	16	1840CST			0	0			Hail (0.75)
Corson County									
27 S Morristown	21	1610CST			0	0			Hail (1.00)
Corson County									
5 S Bullhead	21	1642CST			0	0			Hail (1.00)
Corson County									
3 NE Little Eagle	21	1700CST			0	0			Hail (0.75)
Campbell County									
2 SW Pollock	21	1730CST			0	0			Hail (0.75)
Campbell County									
6 SE Herreid	21	1751CST			0	0			Hail (0.88)
Mepherston County									
Eureka	21	1820CST			0	0			Thunderstorm Wind (G61)
			Seventy mph wind gusts downed many large tree limbs in Eureka.						
Faulk County									
Seneca	21	1835CST			0	0			Hail (0.75)
Mepherston County									
Long Lake	21	1842CST			0	0			Thunderstorm Wind (G52)
Edmunds County									
Mina	21	1845CST			0	0			Hail (0.75)
Faulk County									
6 W Norbeck	21	1857CST			0	0			Hail (0.75)
Mepherston County									
1 E Leola	21	1915CST			0	0			Thunderstorm Wind (G61)
Faulk County									
1 N Norbeck	21	1930CST			0	0			Hail (0.75)
Hyde County									
Highmore	21	1930CST			0	0			Thunderstorm Wind (G52)
Hyde County									
4 NE Holabird	21	1950CST			0	0			Hail (0.75)
Hughes County									
15 S Harrold	21	2020CST			0	0			Hail (0.75)
Brown County									
Aberdeen	21	2030CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, Central and North</u>									
Hyde County									
1 W Highmore	21	2030CST			0	0			Thunderstorm Wind (G61)
			Seventy mph winds downed many tree limbs near Highmore.						
Faulk County									
8 S Faulkton	21	2035CST			0	0			Thunderstorm Wind (G61)
Faulk County									
1 N Orient	21	2035CST			0	0			Hail (0.75)
Faulk County									
1 N Orient	21	2035CST			0	0			Thunderstorm Wind (G61)
Spink County									
3 W Northville	21	2045CST			0	0			Hail (0.75)
Faulk County									
9 NE Rockham	21	2115CST			0	0			Thunderstorm Wind (G52)
Spink County									
Turton	22	1400CST			0	0			Hail (0.88)
Day County									
Webster	22	1425CST 1436CST			0	0			Hail (0.75)
Day County									
4 S Waubay	22	1510CST			0	0			Hail (1.50)
Clark County									
Willow Lake	22	1515CST			0	0			Hail (0.88)
Day County									
7 S Webster	22	1537CST			0	0			Hail (0.88)
Day County									
Waubay	22	1540CST			0	0			Hail (1.25)
Deuel County									
Toronto	23	0820CST			0	0			Hail (1.00)
Deuel County									
7 E Brandt	23	0835CST			0	0			Hail (0.75)
Clark County									
1.5 NE Garden City	23	0902CST			0	0			Hail (0.75)
Day County									
6 NE Roslyn	23	0945CST			0	0			Hail (0.75)
Marshall County									
2 S Eden	23	0945CST			0	0			Hail (1.00)
Grant County									
14 W Marvin to 13.9 W Marvin	23	1850CST 1851CST	0.1	25	0	0			Tornado (F0)
			A tornado touched down briefly in far northwest Grant county causing no damage.						
Day County									
1 S Waubay	23	1853CST			0	0			Hail (0.75)
Roberts County									
3 SW Wilmot	23	1930CST 1945CST			0	0			Hail (1.75)
Roberts County									
Wilmot	23	1940CST			0	0			Hail (1.00)
Brown County									
4 NE Groton	24	0145CST			0	0			Thunderstorm Wind (G52)
			Sixty mph winds knocked down some large tree branches.						
Buffalo County									
2 N Shelby	24	0200CST			0	0			Hail (0.75)
Hyde County									
17 SW Highmore	24	0215CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	
<u>SOUTH DAKOTA, Central and North</u>									
Day County									
Waubay	24	0320CST			0	0			Hail (0.88)
Grant County									
5.5 NW Marvin	24	1430CST			0	0			Hail (1.00)
Roberts County									
Summit	24	1435CST			0	0			Hail (1.00)
Hyde County									
Stephan	24	1840CST			0	0			Hail (1.00)
Hand County									
14 SE St Lawrence	24	1925CST			0	0			Hail (0.88)
Hamlin County									
5 N Bryant	24	1948CST			0	0			Hail (0.88)
Clark County									
3 S Vienna	24	1956CST			0	0			Hail (2.00)
Clark County									
7 S Vienna	24	2024CST			0	0			Hail (0.75)
Hamlin County									
9 SE Hazel	24	2032CST			0	0			Hail (0.75)
Hamlin County									
5 W Hazel	24	2034CST			0	0			Hail (0.75)
Codington County									
3 S Watertown to 2.5 S Watertown	24	1835CST 1839CST	0.5	25	0	0			Tornado (F0)
A tornado touched down south of Watertown causing no damage.									
Clark County									
4 SE Willow Lake to 3 SE Willow Lake	24	1930CST 1935CST	1	300	0	0			Tornado (F1)
A tornado moved into southern Clark County from Kingsbury county. The tornado snapped off many trees and blew them considerable distances before it dissipated.									
Hand County									
15 S Miller to 15.1 S Miller	24	1930CST 1932CST	0.1	25	0	0			Tornado (F0)
A tornado touched down briefly in far southern Hand county causing no damage.									
Hamlin County									
2 S Bryant	24	1935CST 1936CST	0.1	25	0	0			Tornado (F0)
A tornado touched down briefly south of Bryant causing no damage.									
Lyman County									
10 S Vivian	24	2120CST			0	0			Thunderstorm Wind (G61)
Seventy mph winds brought down many large tree branches.									
Lyman County									
10 S Vivian	24	2130CST			0	0			Hail (0.75)
Marshall County									
Veblen	24 25	2245CST 0245CST			0	0			Flash Flood
Heavy rain caused flash flooding near Veblen with water flowing over County road 7 in several locations. A culvert was washed out along with part of the road at one location.									
Day County									
Roslyn	24 25	2330CST 0300CST			0	0			Flash Flood
Heavy rain caused flash flooding on County road 17 in several locations near Roslyn.									
<u>SOUTH DAKOTA, Southeast</u>									
Lake County									
5 N Madison	05	1220CST			0	0			Hail (1.00)
Lake County									
7 N Madison	05	1226CST			0	0			Hail (1.00)
Large hail covered the ground.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, Southeast</u>									
Moody County 3 SW Colman	05	1335CST			0	0			Hail (0.75)
Gregory County 10 S Dallas	05	1440CST			0	0			Hail (1.00)
			Large hail covered the ground.						
Gregory County 2 N Bonesteel	05	1530CST			0	0			Hail (1.00)
			Large hail covered the ground. The hail damaged corn and soybean crops, but the amount of crop damage was not known.						
Gregory County 2 N Bonesteel	05	1530CST			0	0			Thunderstorm Wind (G52)
			Thunderstorm winds contributed to crop damage caused by large hail. The amount of crop damage was not known.						
Charles Mix County 5 SW Lake Andes to 5 NE Wagner	05	1550CST 1645CST			0	0			Hail (1.75)
			Large hail covered the ground and caused severe crop damage in a 15 mile wide area over southern and eastern Charles Mix County. About 60,000 acres of crops were damaged or destroyed. Damage to soybean crops was severe, but in many places the beans were replanted as it was still early enough in the growing season. Much of the corn that was damaged was reported to be recovering in the weeks after the storm. Wheat crops were in some cases totally destroyed, with beans being planted in place. Alfalfa and hay were also damaged. An estimate of the crop damage was not available due to the ongoing recovery process, and the complications of figuring damages in the case of replanted crops. The hail accumulated to a depth of several inches in places, with drifts as high as four feet in the Wagner area. Snow plows were needed to clear roads in the Wagner and Lake Andes areas. The hail cracked windows and damaged siding in the Wagner area.						
Charles Mix County 5 W Lake Andes	05	1555CST			0	0			Hail (0.88)
Charles Mix County Lake Andes	05	1605CST 1615CST			0	0			Hail (0.75)
			Large hail covered the ground.						
Charles Mix County 5 W Wagner	05	1625CST			0	0			Hail (1.00)
			Large hail covered the ground to a depth of several inches. Snowplows were needed to clear roads.						
Charles Mix County Wagner	05	1630CST			0	0			Hail (0.88)
			Large hail covered the ground to a depth of several inches. Wind blew the hail into drifts as high as four feet.						
Charles Mix County 4 NE Wagner	05	1638CST			0	0			Thunderstorm Wind (G52)
Charles Mix County 4 NE Wagner	05	1640CST			0	0	10K		Hail (1.75)
			Large hail cracked windows and damaged siding.						
Bon Homme County 3 N Tyndall	05	1710CST			0	0			Hail (1.00)
Bon Homme County 4 S Scotland	05	1730CST			0	0			Hail (0.75)
Yankton County 7 N Lesterville	05	1742CST			0	0			Hail (0.75)
Lincoln County Worthing	05	1921CST			0	0			Hail (0.75)
			Large hail covered the ground. The hail caused damage to corn and soybean crops, but the amount of crop damage was not known.						
Lincoln County Worthing	05	1921CST			0	0			Thunderstorm Wind (G52)
Lincoln County 1 NE Worthing	05	1922CST			0	0			Hail (0.88)
Moody County 1 NE Colman	06	1559CST 1607CST			0	0			Hail (0.75)
			Large hail covered the ground to a depth of one inch. The hail caused crop damage, but the amount of crop damage was not known.						

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<u>SOUTH DAKOTA, Southeast</u>									
Bon Homme County									
Springfield	09	1712CST			0	0	50K		Hail (1.75)
Large hail damaged vehicles and cracked windows. Crop damage was suspected in the area but no damage estimates were available.									
Bon Homme County									
Springfield	09	1715CST			0	0			Hail (0.75)
Yankton County									
10 S Lesterville	09	1716CST			0	0			Hail (1.00)
Yankton County									
5 W Yankton	09	1724CST			0	0			Hail (1.00)
Yankton County									
Yankton	09	1725CST			0	0			Hail (1.75)
Bon Homme County									
8 W Springfield	09	1750CST			0	0			Hail (0.75)
Yankton County									
7 W Yankton	09	1755CST			0	0			Hail (2.00)
Large hail damaged vehicles. The amount of damage was not known.									
Sanborn County									
1 NW Woonsocket	09	1819CST			0	0			Hail (1.50)
Sanborn County									
Woonsocket	09	1820CST 1835CST			0	0			Hail (1.50)
Large hail accumulated up to two inches. The hail stripped leaves from trees and damaged branches. The hail also damaged corn, melon, and bean crops in the area, but the amount of crop damage was not known.									
Jerauld County									
Wessington Spgs	09	1819CST			0	0			Hail (1.00)
Sanborn County									
5 SE Woonsocket	09	1828CST			0	0			Hail (1.25)
Gregory County									
2 N Dallas	09	1842CST			0	0			Hail (1.00)
Gregory County									
3 N Dallas	09	1842CST 1843CST	0.1	50	0	0			Tornado (F0)
A brief tornado in open country caused no reported damage.									
Gregory County									
10 SW Gregory	09	1852CST			0	0			Hail (0.75)
Sanborn County									
Forestburg	09	1857CST			0	0			Hail (1.50)
Sanborn County									
Letcher	09	1900CST			0	0	10K		Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage and tilted utility poles.									
Gregory County									
5 NW Gregory to 2 N Gregory	09	1902CST 1910CST	4	400	0	0			Tornado (F0)
A tornado moved across open country and caused no reported damage.									
Gregory County									
4 NW Herrick	09	1910CST			0	0			Hail (1.00)
Large hail covered the ground. The hail caused an unknown amount of crop damage.									
Davison County									
(Mhe)Mitchell Arpt	09	1930CST			0	0			Thunderstorm Wind (G59)
Miner County									
7 SW Roswell	09	1933CST			0	0			Hail (0.88)
Hanson County									
2 N Fulton	09	1935CST			0	2	100K		Thunderstorm Wind (G69)
Thunderstorm winds destroyed a mobile home, causing minor injuries to the couple inside at the time. The winds also caused damage to trees and sheds.									

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<u>SOUTH DAKOTA, Southeast</u>									
Hanson County									
Fulton	09	1945CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage, including numerous branches torn off.									
Hanson County									
1 S Epiphany	09	1950CST			0	0			Hail (0.75)
Mccook County									
7 NW Salem	09	2008CST			0	0			Thunderstorm Wind (G52)
Hutchinson County									
9 N Freeman	09	2030CST			0	0			Hail (0.75)
Turner County									
1 N Marion	09	2048CST			0	0			Hail (0.75)
Turner County									
2 S Marion	09	2050CST			0	0			Hail (0.75)
Turner County									
6 SE Marion	09	2105CST			0	0			Thunderstorm Wind (G52)
Brule County									
Chamberlain	11	2010CST			0	0			Hail (1.00)
Brule County									
4 W Pukwana	11	2040CST			0	0			Hail (1.75)
Gregory County									
6 NW Dixon	11	2041CST			0	0			Hail (0.75)
Gregory County									
5 NE Lucas	11	2121CST			0	0			Hail (1.50)
Brule County									
2 S Pukwana	11	2155CST			0	0			Hail (0.75)
Gregory County									
Burke	16	1318CST			0	0			Hail (0.88)
Gregory County									
1 E Burke	16	1330CST			0	0			Hail (0.75)
Brule County									
6 S Pukwana	16	1330CST 1335CST			0	0			Hail (0.75)
Jerauld County									
3 E Wessington Spgs	16	1500CST			0	0	5K		Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage,, including several trees blown down, and destroyed calf shelters.									
Douglas County									
8 NE Armour	17	1454CST			0	0			Hail (0.75)
Mccook County									
2 SE Spencer	17	1710CST			0	0			Hail (0.75)
Davison County									
Mitchell	23	0345CST			0	0			Thunderstorm Wind (G57)
Thunderstorm winds caused an unknown amount of tree damage.									
Sanborn County									
3 NE Letcher	23	0400CST			0	0			Hail (0.88)
Union County									
Elk Pt	23	2200CST 2201CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage, including large limbs blown down. The winds also blew over playground equipment, including a basketball hoop on a heavy stand.									
Lake County									
Madison	23	2333CST			0	0			Hail (1.00)
Charles Mix County									
Lake Andes	24	0028CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, Southeast</u>									
Davison County									
7 NW Mt Vernon	24	0115CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage, including several trees blown down.									
Davison County									
Mt Vernon	24	0135CST			0	0			Thunderstorm Wind (G52)
Davison County									
8 NE Mt Vernon	24	0135CST			0	0			Thunderstorm Wind (G52)
Sanborn County									
9 NE Forestburg	24	0140CST			0	0			Thunderstorm Wind (G52)
Miner County									
Carthage	24	0210CST			0	0			Thunderstorm Wind (G52)
Kingsbury County									
6 SE Esmond	24	0210CST			0	0			Thunderstorm Wind (G52)
Davison County									
Mt Vernon	24	1600CST			0	0			Hail (1.00)
Davison County									
Mt Vernon	24	1611CST			0	0			Hail (0.88)
Davison County									
2.1 SE Mt Vernon to 1.8 SE Mt Vernon	24	1615CST 1616CST	0.4	50	0	0			Tornado (F0)
A short lived tornado caused no reported damage.									
Davison County									
4 N Mitchell	24	1616CST			0	0			Hail (1.75)
Davison County									
3 N Mitchell	24	1617CST			0	0			Hail (1.75)
Davison County									
1 SE Mt Vernon to 5 N Mt Vernon	24	1617CST 1631CST	6	400	0	0	500K		Tornado (F2)
A tornado damaged crops, trees, and numerous buildings on several farms. On one farm the northeast corner of a home was heavily damaged, and several buildings including a barn, a grainery, and a machine shed were destroyed. Large trees were blown down.									
Clay County									
1 NW Meckling	24	1650CST			0	0			Hail (0.88)
Clay County									
Vermillion	24	1658CST 1659CST	0.2	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Sanborn County									
Woonsocket	24	1702CST			0	0			Hail (1.00)
Jerauld County									
Crow Lake	24	1702CST			0	0			Hail (1.00)
Lincoln County									
7 NW Beresford	24	1717CST 1719CST	1	50	0	0			Tornado (F0)
A tornado caused no reported damage.									
Sanborn County									
4 W Forestburg	24	1719CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Jerauld County									
6 SE Lane	24	1723CST 1726CST	1	300	0	0	10K		Tornado (F1)
A tornado destroyed trees and crops before crossing the county line from Jerauld into Sanborn County.									

Storm Data and Unusual Weather Phenomena

June 2003

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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SOUTH DAKOTA, Southeast

Lincoln County

2 N Harrisburg to 2.1 N Harrisburg	24	1730CST 1731CST	0.1	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage.

Clay County

Vermillion	24	1730CST			0	0			Hail (0.75)
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Lincoln County

Harrisburg	24	1736CST			0	0			Hail (0.88)
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Lincoln County

Tea	24	1736CST			0	0			Hail (2.75)
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Minnehaha County

Sioux Falls	24	1741CST			0	0			Hail (1.75)
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Large hail caused an unknown amount of damage to vehicles and windows.

Minnehaha County

Sioux Falls	24	1742CST			0	0			Hail (0.75)
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Minnehaha County

Sioux Falls	24	1742CST			0	1	10K		Thunderstorm Wind (G61)
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Thunderstorm winds blew a truck off Interstate 29, injuring the driver. The winds also blew the roof off a garage.

Clay County

6 NE Vermillion to 6.5 NE Vermillion	24	1742CST 1744CST	0.5	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage.

Clay County

5 N Vermillion to 5.1 N Vermillion	24	1742CST 1743CST	0.1	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage.

Beadle County

9 S Huron	24	1744CST			0	0			Hail (1.75)
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Clay County

1 S Hub City	24	1745CST			0	0			Hail (0.88)
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Minnehaha County

Sioux Falls	24	1745CST			0	0			Hail (1.00)
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Sanborn County

5 NE Woonsocket to 5.5 NE Woonsocket	24	1745CST 1747CST	0.5	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage.

Minnehaha County

Sioux Falls	24	1750CST			0	0			Hail (0.75)
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Minnehaha County

2 S Garretson	24	1753CST			0	0			Hail (1.75)
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Sanborn County

10 N Artesian to 10.1 N Artesian	24	1755CST 1756CST	0.1	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage.

Beadle County

2 SE Huron	24	1800CST 1801CST	0.2	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage. The tornado was observed close to another tornado.

Beadle County

2.2 SE Huron	24	1800CST 1801CST	0.2	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage. The tornado was observed close to another tornado.

Beadle County

12 SE Cavour	24	1816CST 1817CST	0.1	50	0	0			Tornado (F0)
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A brief tornado caused no reported damage.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Southeast</u>									
Davison County									
5 E Mt Vernon	24	1821CST			0	0	10K		Thunderstorm Wind (G61)
									Thunderstorm winds damaged a farmhouse and destroyed outbuildings.
Davison County									
7 SE Mt Vernon	24	1821CST			0	0	10K		Thunderstorm Wind (G61)
									Thunderstorm winds damaged a farmhouse.
Kingsbury County									
1 NW Esmond to 1.3 N Esmond	24	1827CST 1829CST	0.4	100	0	0			Tornado (F0)
									A brief tornado caused no reported damage. The tornado dissipated as another tornado formed nearby, leaving a brief moment with two tornadoes in close proximity to each other.
Kingsbury County									
1.5 N Esmond to 3 N Manchester	24	1829CST 1853CST	10	1000	0	4	3M		Tornado (F4)
									A tornado destroyed or heavily damaged all buildings, other structures, and vehicles in the small town of Manchester. Propane and fuel oil tanks were destroyed. Many homes were stripped to the foundation. Of the six residents of the town, four were injured and were transported to hospitals. Three were deemed to be seriously injured, but non of the injuries were life threatening. One of the injured was in a basement, one was blown out of the home on the way to the same basement, and two were in a mobile home which was destroyed. The tornado damaged crops, trees, and power lines south of Manchester prior to reaching the town. The tornado also heavily damaged several farms north of Manchester, including two farms on which several buildings including the homes were destroyed. One of the farms was a "Centennial Farm". About 12 cattle were killed and others injured. The amount of crop damage was not known. During its path, the tornado was observed to have multiple vortices. The tornado was observed and video taped by numerous storm chasers and researchers. Researchers also deployed weather sensors around the town of Manchester. One of these sensors recorded a 100 millibar pressure drop as the tornado passed.
Clay County									
3 NW Dalesburg	24	1830CST 1832CST	0.7	100	0	0			Tornado (F0)
									A weak tornado caused no reported damage.
Clay County									
5 E Wakonda to 6 E Wakonda	24	1830CST 1832CST	1	100	0	0			Tornado (F0)
									A weak tornado tracked northeast across farmland.
Clay County									
4 NE Wakonda to 6 NE Wakonda	24	1832CST 1837CST	2	100	0	0			Tornado (F0)
									A tornado damaged trees and cropland.
Clay County									
4 E Wakonda to 5.5 NE Wakonda	24	1832CST 1837CST	1.5	200	0	0			Tornado (F1)
									A tornado damaged buildings on a farm. The tornado also cause tree and crop damage. The tornado was in close proximity to another tornado which tracked during the same time.
Clay County									
7 NE Wakonda to 7.5 NE Wakonda	24	1833CST 1835CST	0.5	50	0	0			Tornado (F0)
									A weak tornado caused no reported damage.
Turner County									
.3 N Centerville to 1.3 NW Centerville	24	1833CST 1837CST	1	100	0	0			Tornado (F0)
									A weak tornado tracked across farmland.
Lincoln County									
6 NW Beresford to 6.5 NW Beresford	24	1838CST 1840CST	0.5	50	0	0			Tornado (F0)
									A weak tornado caused no reported damage.
Kingsbury County									
4 E Manchester	24	1852CST 1853CST	0.1	50	0	0			Tornado (F0)
									A brief tornado caused no reported damage.

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<u>SOUTH DAKOTA, Southeast</u>									
Turner County									
2 E Centerville to 1 NE Centerville	24	1855CST 1900CST	2	100	0	0			Tornado (F0)
			A weak tornado tracked across farmland and roads.						
Gregory County									
2 N Bonesteel	24	1855CST			0	0			Hail (0.88)
Kingsbury County									
5 NE Manchester to 5 NW De Smet	24	1858CST 1903CST	2.2	200	0	0	200K		Tornado (F2)
			A tornado caused heavy damage to farm buildings including homes.						
Turner County									
1 N Centerville to 2 NE Viborg	24	1900CST 1914CST	7	400	0	0			Tornado (F2)
			A tornado damaged farm buildings and equipment, as well as crops, trees, and power lines.						
Charles Mix County									
1 NE Lake Andes to 4 NE Lake Andes	24	1903CST 1909CST	3	200	0	0	50K		Tornado (F1)
			A tornado damaged or destroyed several buildings at an abandoned farm, and also caused tree damage.						
Kingsbury County									
3 NW De Smet to 3.5 NW De Smet	24	1905CST 1907CST	0.7	100	0	0			Tornado (F1)
			A tornado damaged farm buildings and crops.						
Lincoln County									
6 NW Beresford to 8.5 NW Beresford	24	1910CST 1916CST	2.8	100	0	0			Tornado (F1)
			A tornado damaged farm buildings, including a machine shed destroyed and damaged equipment inside the shed. The tornado also damaged crops, but the amount of crop damage was not known.						
Turner County									
2 NE Centerville to 4 NW Centerville	24	1910CST 1917CST	3.5	100	0	0			Tornado (F0)
			A weak tornado tracked across farmland.						
Charles Mix County									
5 NE Lake Andes to 8 NE Lake Andes	24	1910CST 1917CST	3	150	0	0			Tornado (F1)
			A tornado destroyed four grain bins and two sheds on a farm.						
Gregory County									
3 E Lucas to 5 NE Lucas	24	1910CST			0	0	10K		Thunderstorm Wind (G61)
			Thunderstorm winds blew the roof off a large hay shed and destroyed a cattle shed. Several windows were broken at a lodge.						
Kingsbury County									
8 NW De Smet to 8.1 NW De Smet	24	1917CST 1918CST	0.1	50	0	0			Tornado (F0)
			A brief tornado caused no reported damage.						
Kingsbury County									
7 NW De Smet to 7.1 NW De Smet	24	1919CST 1920CST	0.1	50	0	0			Tornado (F0)
			A brief tornado caused no reported damage.						
Kingsbury County									
6 N De Smet to 6.7 N De Smet	24	1920CST 1922CST	0.7	100	0	0			Tornado (F1)
			A tornado damaged structures and trees along the edge of Mud Lake.						
Turner County									
Viborg to .7 NW Viborg	24	1920CST 1922CST	0.7	50	0	0			Tornado (F0)
			A weak tornado which formed on the edge of Viborg dissipated over farmland northwest of the town.						

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<u>SOUTH DAKOTA, Southeast</u>									
Lincoln County									
9 S Lennox to 8.5 S Lennox	24	1920CST 1922CST	0.7	100	0	0			Tornado (F0)
A tornado caused no reported damage before crossing from Lincoln County into Turner County.									
Turner County									
4 SE Davis to 3 N Davis	24	1922CST	7	300	0	0	500K		Tornado (F2)
A tornado, after crossing into Turner County from Lincoln County, heavily damaged farm buildings, including one farm home demolished, and roof and window damage to at least two other farm homes. The tornado also caused an unknown amount of crop damage.									
Turner County									
2 E Chancellor	24	1925CST 1945CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds continued for 20 minutes with frequent gusts to 60 mph.									
Kingsbury County									
9.5 N De Smet to 9.6 N De Smet	24	1928CST 1929CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Aurora County									
Stickney	24	1930CST			0	0			Hail (0.75)
Large hail was accompanied by 40 to 50 mph winds.									
Lincoln County									
6.5 NW Beresford to 8 NW Beresford	24	1930CST 1933CST	1.5	100	0	0	200K		Tornado (F1)
A tornado damaged farm buildings, including a farm house heavily damaged and moved four feet off its foundation. Power lines were also blown down. The tornado crossed from Lincoln County into Turner County.									
Turner County									
3 NE Centerville to 3 N Centerville	24	1933CST 1937CST	2	100	0	0			Tornado (F1)
A tornado damaged farm buildings and crops. The tornado crossed into Turner County from Lincoln County.									
Kingsbury County									
10 N De Smet to 10.1 N De Smet	24	1932CST 1933CST	0.1	50	0	0			Tornado (F0)
A brief tornado caused no reported damage.									
Douglas County									
6 W Armour	24	1940CST			0	0	50K		Thunderstorm Wind (G61)
Thunderstorm winds destroyed a large machine shed, ripping its roof off. Two tractors, a van, two loaders and one sprayer inside the shed were damaged.									
Douglas County									
Armour	24	1945CST			0	0	10K		Thunderstorm Wind (G57)
Thunderstorm winds ripped a porch off a motel.									
Minnehaha County									
Sioux Falls	24	1944CST			0	0			Thunderstorm Wind (G52)
Mccook County									
5 S Canistota	24	1945CST			0	0			Thunderstorm Wind (G69)
Davison County									
5 W Ethan	24	1945CST			0	0			Hail (1.00)
Lincoln County									
2 S Lennox to 1.4 S Lennox	24	1952CST 1954CST	0.6	50	0	0			Tornado (F0)
A weak tornado tracked across farmland.									
Douglas County									
2 E Armour to 2.5 E Armour	24	1955CST 1957CST	0.7	50	0	0			Tornado (F0)
A tornado destroyed the roof and one wall of a barn..									
Lincoln County									
3 SW Tea to 2.2 SW Tea	24	1955CST 1957CST	0.8	50	0	0			Tornado (F0)
A weak tornado tracked across farmland.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, Southeast</u>									
Lincoln County									
Lennox	24	1955CST			0	0			Hail (0.88)
Lincoln County									
Lennox	24	1955CST			0	0			Thunderstorm Wind (G52)
									Thunderstorm winds caused tree damage, including several large limbs and branches blown down. Power lines were blown down, resulting in a power outage.
Lincoln County									
2 N Lennox	24	1956CST			0	0			Hail (0.88)
Lincoln County									
3 N Lennox	24	1959CST			0	0			Hail (1.75)
Aurora County									
White Lake	24	1955CST			0	0			Thunderstorm Wind (G57)
Minnehaha County									
Sioux Falls	24	1955CST			0	0			Thunderstorm Wind (G52)
Minnehaha County									
Garretson	24	1959CST			0	0			Thunderstorm Wind (G52)
Lincoln County									
4 S Lennox to 2.7 S Lennox	24	2000CST 2003CST	1.3	100	0	0			Tornado (F1)
									A tornado damaged farm structures.
Douglas County									
3.5 NE Armour to 4.2 NE Armour	24	2005CST 2007CST	0.7	50	0	0			Tornado (F0)
									A weak tornado tracked across farmland.
Lincoln County									
5 SW Harrisburg to 2.8 W Harrisburg	24	2005CST	2.3	100	0	0			Tornado (F0)
									A weak tornado tracked across farmland.
Lincoln County									
4.5 W Harrisburg to 3 W Harrisburg	24	2007CST	1.5	50	0	0			Tornado (F0)
									A weak tornado tracked across farmland.
Lincoln County									
2.5 SW Tea to 1.4 W Tea	24	2009CST 2011CST	1.2	50	0	0			Tornado (F0)
									A weak tornado tracked across farmland.
Lincoln County									
1 SE Tea to 1.4 SE Tea	24	2012CST	0.8	50	0	0			Tornado (F0)
									A weak tornado tracked across farmland.
Brule County									
Kimball	24	2015CST			0	0			Thunderstorm Wind (G65)
Hutchinson County									
Parkston	24	2018CST			0	0			Thunderstorm Wind (G61)
									Thunderstorm winds caused tree and power line damage.
Jerauld County									
Wessington Spgs	24	2020CST			0	0	1M		Thunderstorm Wind (G78)
									Thunderstorm winds damaged numerous structures. The roofs and siding of several homes were damaged, and the roof of a camping bath house was blown off. A picnic shelter and a baseball grandstand were destroyed, as were lumber yard structures. The brick wall of a high school was damaged. The storm overturned and heavily damaged a camper and a van. Several other vehicles were heavily damaged by tree or other debris, including at least two inside destroyed small garages. The walls of a church were damaged when moved slightly by the wind. There was widespread tree damage, including numerous trees blown down. Power lines were blown down, resulting in power outages. Several windows were broken.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, Southeast</u>									
Turner County									
1 S Parker to .5 N Parker	24	2030CST 2035CST	1.5	200	0	0	3M		Tornado (F2)
A tornado heavily damaged or destroyed numerous structures at the county fairgrounds, uprooted numerous trees, and blew down power lines, resulting in power outages which lasted up to a day. The tornado damaged other structures in Parker including homes and the county courthouse. One home was shifted off its foundation and received broken windows and damaged siding. Some of the damage resulted from falling trees or wind blown debris.									
Davison County									
Mitchell	24	2030CST			0	0			Thunderstorm Wind (G52)
Hanson County									
Rockport	24	2030CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage.									
Turner County									
1 NW Parker to 1.5 N Parker	24	2040CST 2042CST	0.6	100	0	0			Tornado (F0)
A weak tornado tracked across farmland.									
Bon Homme County									
Scotland	24	2040CST			0	0			Thunderstorm Wind (G52)
Mccook County									
5 SE Montrose	24	2040CST			0	0			Thunderstorm Wind (G61)
Mccook County									
Salem	24	2043CST			0	0	100K		Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage, and blew down two walls of a concrete business.									
Bon Homme County									
Avon	24	2045CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage, including at least one large tree uprooted.									
Bon Homme County									
Tyndall	24	2045CST			0	0	100K		Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage, including several trees and large limbs blown down. A few houses sustained roof and siding damage.									
Bon Homme County									
Springfield	24	2045CST			0	0	100K		Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage, including numerous trees and large limbs down. Several houses and vehicles were damaged by falling trees or tree debris.									
Minnehaha County									
4 SE Pumpkin Center to 4 E Pumpkin Center	24	2050CST 2052CST	0.6	100	0	3	500K		Tornado (F1)
A tornado damaged several homes just west of Wall Lake. Two residents were injured and hospitalized when the tornado pushed one home off its foundation, tilting it on its side. Another resident received minor injuries.									
Kingsbury County									
Osceola	24	2050CST			0	0			Thunderstorm Wind (G52)
Turner County									
Marion	24	2055CST			0	0	200K		Thunderstorm Wind (G78)
Thunderstorm winds caused widespread tree damage, including large trees blown down. Several vehicles were damaged by falling trees or wind blown tree debris, at least two being destroyed.									
Bon Homme County									
5 SW Scotland	24	2100CST			0	0			Thunderstorm Wind (G52)
Hutchinson County									
Freeman	24	2100CST			0	0	200K		Thunderstorm Wind (G61)
Thunderstorm winds caused widespread tree damage, including several large trees blown down. Numerous roads were blocked by tree debris. There was shingle and trim damage to houses, and at least one window was broken. Power lines were down in part of town. At least two vehicles were heavily damaged by falling trees.									
Beadle County									
4 E Yale to 5.6 NE Yale	24	2105CST 2110CST	2	150	0	0			Tornado (F2)
A tornado destroyed or heavily damaged farm structures.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, Southeast</u>									
Minnehaha County									
.7 SE Hartford to 2.2 E Hartford	24	2105CST 2110CST	1.7	100	0	0	2.5M		Tornado (F1)
A tornado heavily damaged 20 or more homes in the Hartford Heights development east of Hartford. Roofs were removed from houses and garages were destroyed. The tornado uprooted large trees. Many of the homes had to be destroyed afterwards due to the amount of damage they received.									
Yankton County									
Lesterville	24	2110CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage, including numerous trees, some large, blown down. Minor damage to roofs also occurred. The winds caused damage to corn crops, but the amount of damage was not known.									
Minnehaha County									
Brandon	24	2110CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds blew down a frame for a business building under construction, and damaged a fence.									
Kingsbury County									
9.8 N De Smet to 10.5 N De Smet	24	2113CST 2115CST	0.7	100	0	0			Tornado (F1)
A tornado destroyed or heavily damaged several farm structures.									
Minnehaha County									
Colton	24	2125CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage.									
Mccook County									
Montrose	24	2125CST			0	0			Hail (1.00)
Mccook County									
Montrose	24	2125CST			0	0			Thunderstorm Wind (G61)
Minnehaha County									
1.8 SW Renner to 1.7 S Renner	24	2134CST	0.5	50	0	0			Tornado (F0)
A weak tornado tracked across farmland. The tornado was witnessed by National Weather Service employees at the Sioux Falls Weather Forecast Office, causing the employees to seek safe shelter.									
Minnehaha County									
2 W Baltic	24	2135CST			0	0	20K		Thunderstorm Wind (G61)
Thunderstorm winds blew down several trees and destroyed a storage building on a church property. The church building had several windows blown out and part of its siding ripped off.									
Lake County									
4 SW Chester	24	2140CST			0	0	20K		Thunderstorm Wind (G57)
Thunderstorm winds tore the roof off a hog confinement building and blew over a semi truck.									
Lake County									
2 S Wentworth to 2 SE Wentworth	24	2140CST 2143CST	0.8	50	0	0			Tornado (F0)
A weak tornado tracked across farmland.									
Turner County									
1.2 SW Viborg to Viborg	24	2140CST 2143CST	1.2	100	0	0	1M		Tornado (F1)
A tornado destroyed small farm buildings, tore the roof off a barn, blew down trees, severely damaged at least two houses in Viborg, destroyed two garages, and damaged other structures including homes and a large propane tank.									
Lincoln County									
8.5 S Lennox to 8 S Lennox	24	2147CST 2149CST	0.9	50	0	0			Tornado (F0)
A weak tornado tracked across farmland.									
Moody County									
2.5 W Egan to 2 NW Egan	24	2150CST 2153CST	0.8	50	0	0			Tornado (F0)
A weak tornado tracked across farmland.									
Minnehaha County									
Colton	24	2200CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage, including several trees blown down. A mobile home was shaken by the wind.									
Lincoln County									
Canton	24	2202CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, Southeast</u>									
Meccook County									
Salem	24	2215CST 2315CST			0	0			Flash Flood
Heavy rainfall caused flooding of roadways and other low areas. Minor property damage was reported but the amount of damage was not known.									
Brookings County									
Brookings	24	2215CST			0	0			Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage, including at least one large tree blown down.									
Brookings County									
Elkton	24	2215CST			0	0			Thunderstorm Wind (G61)
Thunderstorm winds caused tree damage.									
Clay County									
7 NE Wakonda	24	2345CST 25 0315CST			0	0			Flash Flood
Heavy rain caused flooding of fields and some roads, and caused the Vermillion River to rise rapidly to just out of its banks.									
Lincoln County									
5 SW Hudson to 4 SW Hudson	25	0012CST 0300CST			0	0			Flash Flood
Heavy rain caused flooding of roads, including South Dakota Highway 11. Cropland and other low areas were also flooded.									
Moody County									
3 SE Colman	27	1458CST			0	0			Hail (0.75)
Moody County									
3 S Egan	27	1510CST			0	0			Hail (0.75)
Hutchinson County									
6 N Freeman	27	1724CST			0	0			Hail (0.75)
Large hail, driven by winds up to 50 mph, damaged crops in the area. The amount of crop damage was not known.									
Turner County									
Monroe	27	1750CST			0	0			Hail (0.75)
<u>SOUTH DAKOTA, West</u>									
Shannon County									
13 W Oglala	04	1155MST			0	0	0	0	Hail (1.25)
Lawrence County									
2 NW Nemo	09	1145MST			0	0	0	0	Hail (0.75)
Pennington County									
5 SW Rapid City	09	1217MST			0	0	0	0	Hail (1.00)
Pennington County									
17 NE Creighton	09	1400MST			0	0	0	0	Hail (0.75)
Haakon County									
20 NE Milesville	09	1500MST			0	0	0	0	Hail (0.88)
Ziebach County									
7 W Cherry Creek	09	1500MST			0	0	0	0	Hail (0.75)
Ziebach County									
3 ENE Cherry Creek	09	1518MST	0.1	10	0	0	0	0	Tornado (F0)
Haakon County									
20 NE Milesville	09	1530MST			0	0	0	0	Thunderstorm Wind (G62)
A severe thunderstorm developed along a frontal boundary across northeastern Pennington County and then tracked across northern Haakon and southern Ziebach Counties. Hail to the size of nickels and strong winds were reported with the storm. A brief tornado touchdown was reported by the public 3 miles east of Cherry Creek with no damage.									
Mellette County									
6 S White River	09	1551MST			0	0	0	0	Hail (1.00)
Todd County									
5 N Mission	09	1554MST			0	0	0	0	Hail (1.00)
Todd County									
5 E Okreek	09	1628MST			0	0	0	0	Hail (0.75)
Tripp County									
1 S Winner	09	1645MST			0	0	0	0	Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Tripp County									
Witten	09	1645MST			0	0	0	0	Hail (0.75)
Tripp County									
Winner	09	1710MST			0	0	50K	0	Hail (1.75)
Large hail broke car windows.									
Tripp County									
3 SW Winner to 2 W Colome	09	1715MST 1725MST	200	10	0	0	5K	0	Tornado (F1)
Tripp County									
Colome	09	1730MST			0	0	0	0	Hail (1.75)
Tripp County									
Colome	09	1755MST			0	0	0	0	Hail (0.88)
Supercell thunderstorms developed in the vicinity of a frontal boundary and a surface low over Todd and Mellette Counties and slowly tracked eastward into Tripp County. Numerous reports of dime to golf ball sized hail were reported from the Mission and White River areas, eastward to Okreek, Winner, and Colome. A tornado developed 3 miles southeast of Winner and tracked southeastward toward Colome. The tornado dissipated west of Colome. The tornado was on the ground for about 10 minutes and produced only minor damage to a couple of farms.									
Fall River County									
6 SE Edgemont	10	1640MST			0	0	0	0	Hail (0.88)
Fall River County									
8 W Ardmore	10	1717MST			0	0	0	0	Hail (0.75)
Hail drifts up to a foot deep.									
Pennington County									
7 NW Rapid City	11	1205MST			0	0	0	0	Hail (1.25)
Pennington County									
4 NW Rapid City	11	1215MST			0	0	0	0	Hail (1.25)
Pennington County									
7 NW Rapid City	11	1217MST			0	0	0	0	Hail (0.75)
Pennington County									
4 NW Rapid City	11	1230MST			0	0	0	0	Hail (1.75)
Lawrence County									
2 NE Nemo	12	1129MST			0	0	0	0	Hail (0.75)
Pennington County									
15 SW Rapid City	12	1230MST			0	0	0	0	Hail (0.88)
Pennington County									
3 S Rockerville	12	1245MST			0	0	0	0	Hail (0.75)
Pennington County									
6 S Rapid City	12	1250MST			0	0	0	0	Hail (0.75)
Pennington County									
Rockerville	12	1255MST 1310MST			0	0	0	0	Hail (1.00)
Pennington County									
6 S Rapid City	12	1306MST			0	0	0	0	Hail (1.00)
A severe thunderstorm developed over southeastern Lawrence County and slowly moved southeast into central Pennington County. Hail to the size of quarters fell from Nemo to the Rockerville area. Hail fell for about 15 minutes in Rockerville and was a foot deep.									
Custer County									
3 SW Custer	13	1230MST			0	0	0	0	Hail (0.75)
Custer County									
6 SW Custer	13	1330MST			0	0	0	0	Hail (0.75)
Custer County									
5 S Pringle	13	1455MST			0	0	0	0	Hail (0.88)
Custer County									
4 SE Argyle	13	1520MST			0	0	0	0	Hail (0.88)
Fall River County									
6 NW Hot Spgs	13	1530MST			0	0	0	0	Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Fall River County									
6 NE Oelrichs	13	1650MST			0	0	0	0	Hail (1.00)
Fall River County									
7 SW Oelrichs	13	1820MST			0	0	0	0	Flash Flood
	14	0300MST							
Slow moving thunderstorms moved southward across central Custer County and into Fall River County, producing heavy rain and hail to the size of quarters. Two to four inches of rain fell southwest of Oelrichs and caused the tributaries of Black Banks Creek to overflow their banks. County roads 4 and 5 west of Oelrichs were closed overnight. No property damage resulted.									
Lawrence County									
Cheyenne Crossing	13	1255MST			0	0	0	0	Hail (0.88)
Pennington County									
9 NW Hill City	14	1310MST			0	0	0	0	Hail (0.75)
Lawrence County									
11 S Deadwood	15	1435MST			0	0	0	0	Hail (1.00)
Pennington County									
10 SW Hill City	15	1440MST 1500MST			0	0	0	0	Hail (1.75)
Hail to the size golf balls fell for 20 minutes.									
Custer County									
6 NW Custer	15	1500MST 1515MST			0	0	0	0	Hail (0.88)
Bennett County									
2 SE Vetal	15	1547MST			0	0	0	0	Hail (0.75)
Hail covered the ground.									
Bennett County									
Vetal	15	1555MST			0	0	0	0	Hail (0.75)
Bennett County									
Tuthill	15	1615MST 1625MST			0	0	0	0	Hail (1.00)
Bennett County									
10 E Martin	15	1620MST			0	0	0	0	Hail (0.75)
Bennett County									
15 S Martin	15	1640MST			0	0	5K	0	Thunderstorm Wind (G61)
Wind blew over a greenhouse.									
Bennett County									
8 SE Martin	15	1645MST			0	0	0	0	Hail (1.75)
Bennett County									
8 SE Martin	15	1645MST			0	0	0	0	Thunderstorm Wind (G52)
A supercell thunderstorm developed over eastern Bennett County and moved slowly southward across the county. Hail to the size of quarters were reported as it moved through Vetal and Tuthill. As the storm began to dissipate, golf ball sized hail and wind gusts to 70 mph were reported southeast of Martin.									
Butte County									
14 NW Belle Fourche	15	1715MST			0	0	0	0	Thunderstorm Wind (G52)
Butte County									
Hoover	15	1805MST			0	0	0	0	Thunderstorm Wind (G52)
Butte County									
11 NE Castle Rock	15	1820MST			0	0	0	0	Thunderstorm Wind (G52)
Harding County									
1 N Ralph	15	1820MST			0	0	0	0	Thunderstorm Wind (G52)
A dry line moving into northwest South Dakota helped produce thunderstorms with strong straight-line winds across Butte and Harding Counties. The strong winds with the storms lasted about an hour with several reports of 60 mph winds.									
Lawrence County									
8 WNW Spearfish	15	1752MST			0	0	0	0	Hail (0.88)
Lawrence County									
8 W Spearfish	15	1752MST			0	0	0	0	Hail (0.75)
Lawrence County									
Oneill Pass	16	1425MST			0	0	0	0	Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Shannon County									
9 N Pine Ridge	17	1045MST			0	0	0	0	Hail (1.75)
Shannon County									
4 N Pine Ridge	17	1130MST 1300MST			0	0	0	0	Flash Flood
A slow moving thunderstorm with heavy rain and large hail moved across southern Shannon County. Rainfall amounts up to 4 inches were measured around the Pine Ridge area, including 3.5 inches of rainfall at Pine Ridge Airport in less than 3 hours. Law enforcement reported flash flooding at the Red Cloud School 4 miles north of Pine Ridge. Highway 18 north of Pine Ridge was closed for over an hour due to flooding. Cheyenne Creek, north of Pine Ridge, overflowed its banks. No damage was reported.									
Fall River County									
Edgemont	20	1641MST			0	0	0	0	Thunderstorm Wind (G57)
Fall River County									
Oelrichs	20	1649MST			0	0	0	0	Thunderstorm Wind (G52)
Fall River County									
Hot Spgs	20	1657MST			0	0	100K	0	Thunderstorm Wind (G57)
Custer County									
4 SE Pringle	20	1704MST			0	0	0	0	Thunderstorm Wind (G52)
Custer County									
12 SE Custer	20	1715MST 1725MST			0	0	0	0	Thunderstorm Wind (G61)
Shannon County									
Oglala	20	1724MST			0	0	0	0	Thunderstorm Wind (G52)
Custer County									
6 SW Hermosa	20	1730MST 1745MST			0	0	0	0	Thunderstorm Wind (G52)
Shannon County									
10 W Kyle	20	1730MST			0	0	0	0	Thunderstorm Wind (G52)
Shannon County									
11 N Porcupine	20	1740MST			0	0	0	0	Thunderstorm Wind (G52)
Custer County									
Hermosa	20	1745MST			0	0	0	0	Thunderstorm Wind (G52)
Pennington County									
Mt Rushmore	20	1745MST			0	0	0	0	Hail (0.75)
Shannon County									
4 S Porcupine	20	1745MST			0	0	0	0	Thunderstorm Wind (G52)
Pennington County									
1 W Caputa	20	1800MST			0	0	0	0	Thunderstorm Wind (G52)
Strong southerly flow at the surface, combined with a line of thunderstorms moving northward across southwestern South Dakota, produced wind gusts of 60 to 70 mph during the late afternoon and early evening hours. In Hot Springs, wind gusts around 65 mph brought down trees and power lines in town, causing damage to some homes and automobiles. Small trees were also reported down in Hermosa.									
Butte County									
26 NE Newell	21	1340MST			0	0	0	0	Hail (1.00)
Meade County									
1 S Fairpt	21	1340MST			0	0	0	0	Hail (1.00)
Meade County									
4 SW Faith	21	1500MST			0	0	0	0	Hail (1.75)
Meade County									
Faith	21	1508MST 1510MST			0	0	250K	0	Hail (2.50)
Large hail damaged homes and automobiles in Faith.									
Ziebach County									
16 W Dupree	21	1515MST			0	0	0	0	Hail (1.00)
A supercell thunderstorm developed in northeastern Butte County and moved across northern Meade County and into central Ziebach County. Numerous reports of 1 inch hail were received along with some golf ball and tennis ball sized hail in Faith.									
Meade County									
4 SSW Plainview	21	1400MST			0	0	0	0	Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

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									
Howes	21	1418MST			0	0	0	0	Hail (1.00)
Perkins County									
16 SE Zeona	21	1410MST			0	0	0	0	Hail (0.75)
Ziebach County									
9 SW Glad Vly	21	1435MST			0	0	0	0	Hail (1.25)
Ziebach County									
Glad Vly	21	1435MST			0	0	0	0	Hail (1.00)
A supercell thunderstorm developed over southern Perkins County and moved eastward across central Ziebach County producing dime to golf ball sized hail.									
Lawrence County									
8 W Spearfish	21	1533MST			0	0	0	0	Hail (1.25)
Lawrence County									
Spearfish	21	1547MST 1600MST			0	0	1M	0	Hail (1.00)
Some hail damage to homes and automobiles in Spearfish.									
Lawrence County									
St Onge	21	1600MST 1603MST			0	0	0	0	Hail (1.00)
Meade County									
10 N Sturgis	21	1630MST			0	0	0	0	Hail (0.75)
A severe thunderstorm moved from Crook County, Wyoming and into western Lawrence and northwestern Meade Counties in South Dakota with numerous reports of large hail. The largest hail was generally around an inch in diameter, however it accumulated to a depth of 2 inches in Spearfish, causing damage in parts of town.									
Butte County									
4 S Belle Fourche	21	1554MST			0	0	0	0	Hail (0.75)
Butte County									
3 SW Vale	21	1630MST			0	0	0	0	Hail (0.75)
Pennington County									
7 E Farmingdale	21	1725MST			0	0	0	0	Hail (0.88)
Bennett County									
6 E Martin	21	1753MST			0	0	0	0	Thunderstorm Wind (G57)
Mellette County									
6 WNW Cedar Butte	21	1800MST			0	0	0	0	Hail (0.75)
Harding County									
5 NW Redig	22	1715MST			0	0	0	0	Thunderstorm Wind (G52)
A trained spotter estimated wind gusts to 60 mph with a passing thunderstorm.									
Custer County									
3 N Dewey	23	2010MST			0	0	0	0	Hail (0.88)
Custer County									
3 SW Custer to 2 SW Custer	23	2023MST 2035MST			0	0	0	0	Hail (1.00)
Custer County									
Custer	23	2032MST			0	0	50K	0	Hail (1.50)
Hail damage to cars in and near Custer.									
Custer County									
7 NE Custer	23	2040MST			0	0	0	0	Hail (0.75)
Pennington County									
Keystone	23	2045MST			0	0	0	0	Hail (0.88)
Custer County									
8 W Hermosa	23	2048MST			0	0	0	0	Hail (1.00)
Custer County									
Hermosa	23	2053MST			0	0	0	0	Hail (1.00)
Haakon County									
4 NW Milesville	23	2240MST			0	0	0	0	Hail (0.75)
A single supercell thunderstorm produced a swath of 3/4 inch to 1 inch hail from extreme southwestern Custer County to northeastern									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
									and produced hail in northern Haakon County.
Jackson County									
Kadoka	24	1645MST			0	0	0	0	Hail (0.88)
Pennington County									
Mt Rushmore	24	1755MST			0	0	0	0	Hail (0.75)
Custer County									
6 SW Hermosa to Hermosa	24	1803MST 1810MST			0	0	0	0	Hail (1.00)
Pennington County									
1 W Caputa	24	1815MST			0	0	0	0	Hail (1.25)
Pennington County									
Rapid City to New Underwood	24	1820MST			0	0	0	0	Hail (0.75)
Pennington County									
7 N Owanka	24	1840MST			0	0	0	0	Hail (0.75)
Meade County									
Elm Spgs	24	1853MST			0	0	0	0	Hail (1.25)
Pennington County									
17 NNE Creighton	24	1922MST			0	0	0	0	Hail (0.75)
									Afternoon convection began over the Black Hills and moved onto the adjacent plains, producing dime to half dollar sized hail before quickly dissipating.
Tripp County									
Millboro	24	1854MST 1900MST			0	0	0	0	Hail (1.25)
Harding County									
8 N Buffalo	27	1320MST 1327MST			0	0	0	0	Hail (0.75)
Harding County									
(2Wx)Buffalo	27	1330MST			0	0	0	0	Thunderstorm Wind (G53)
Harding County									
11 NE Redig	27	1401MST			0	0	0	0	Hail (1.00)
Harding County									
19 SE Reva	27	1420MST			0	0	0	0	Thunderstorm Wind (G52)
Meade County									
1 W Maurine	27	1445MST			0	0	0	0	Thunderstorm Wind (G52)
Perkins County									
15 SE Zeona	27	1445MST			0	0	0	0	Hail (0.88)
Meade County									
4 W Maurine	27	1500MST			0	0	0	0	Hail (1.00)
Meade County									
1 E Red Owl to 2 N Red Owl	27	1530MST			0	0	0	0	Thunderstorm Wind (G52)
Pennington County									
9 NE Creighton	27	1605MST			0	0	0	0	Hail (0.75)
Pennington County									
9 NE Creighton	27	1605MST			0	0	0	0	Thunderstorm Wind (G52)
Haakon County									
17 NW Philip to 11 NW Philip	27	1615MST 1630MST			0	0	0	0	Hail (1.00)
Haakon County									
Philip Arpt	27	1642MST			0	0	0	0	Thunderstorm Wind (G57)
									A cold front moved into northwestern South Dakota during the early afternoon hours. Thunderstorms developed along the front and persisted as the front moved across northwestern South Dakota. Numerous reports of dime to quarter sized hail and wind gusts of 60 to 70 mph were reported. The winds broke 4 inch diameter tree limbs as a storm passed Red Owl in central Meade County.
Mellette County									
5 NW Cedar Butte	30	1655MST			0	0	0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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>									
Jackson County									
15 NE Longvalley	30	1705MST 1710MST			0	0	0	0	Hail (1.75)
Jackson County									
12 NE Longvalley	30	1725MST 1730MST			0	0	0	0	Hail (1.75)
Mellette County									
4 SE Norris	30	1750MST			0	0	0	0	Hail (0.75)
Mellette County									
1 W Norris	30	1808MST			0	0	0	0	Hail (1.00)
Jackson County									
6 SE Longvalley	30	1815MST 1825MST			0	0	0	0	Hail (2.75)
Bennett County									
13 NE Vetal to 20 E Martin	30	1830MST 1905MST			0	0	0	0	Hail (1.75)
Todd County									
7 NW Parmelee	30	1840MST			0	0	0	0	Hail (1.00)
A supercell thunderstorm developed rapidly in extreme northeastern Jackson County, then moved southward. This storm produced golfball to baseball sized hail for over 3 hours as it moved along the Jackson/Mellette County line and then through Bennett and Todd Counties.									
<u>ST LAWRENCE RIVER</u>									
St Lawrence R Above Ogdensburg Ny									
St. Lawrence River	09	1400EST			0	0			Marine Tstm Wind
<u>TENNESSEE, Central</u>									
Dickson County									
Dickson	10	1350CST			0	0			Hail (0.75)
Ham radio operator reported penny size hail.									
Davidson County									
4.4 SSW Nashville	10	1405CST			0	0	10K		Thunderstorm Wind (G55)
Tree fell on a house located at 113 Belvedere Drive in Nashville.									
Davidson County									
Antioch	10	1408CST			0	0			Thunderstorm Wind (G50)
Large tree limbs were down about one mile west of Hickory Hollow Mall.									
Davidson County									
Antioch	10	1410CST			0	0			Thunderstorm Wind (G60)
Ham radio operator reported a 16 inch diameter tree blew down on a house. 2 other trees were uprooted.									
Sumner County									
Gallatin	10	1415CST			0	0			Thunderstorm Wind (G50)
TDOT reported a tree down in Gallatin and in Portland.									
Wilson County									
Gladeville	10	1420CST			0	0			Thunderstorm Wind (G50)
911 center reported a tree down on Vesta Rd.									
Wilson County									
4 S Mt Juliet	10	1425CST			0	0			Thunderstorm Wind (G50)
Trained spotter reported tree limbs down in front yard in Poplar Ridge subdivision.									
Cheatham County									
3 E Ashland City	10	1432CST			0	0			Lightning
Lightning started a fire at the Barr Tire landfill. There were 800 tires ablaze at one point.									
Smith County									
North Portion	10	1445CST			0	0			Thunderstorm Wind (G60)
Sheriff's office reported numerous trees were down in the northern part of the county.									
Rutherford County									
Eagleville	10	1505CST			0	0			Hail (1.00)
Spotter reported quarter size hail on Mt. Pleasant Road near Eagleville.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, Central</u>									
Jackson County									
Southeast Portion	10	1520CST			0	0			Thunderstorm Wind (G50)
	TDOT reported 2 trees down in the east and southeast sections of the county.								
Warren County									
Mc Minnville	10	1555CST			0	0			Thunderstorm Wind (G60)
	911 center reported trees were blown down on vehicles near the McMinnville Civic Center.								
Warren County									
5 N Mc Minnville	10	1600CST			0	0			Thunderstorm Wind (G60)
	911 center reported trees were down and were blocking Highway 56 in the northern part of the county.								
Warren County									
Mc Minnville	10	1610CST			0	0			Thunderstorm Wind (G50)
	Spotter reported trees down.								
Moore County									
5 NE Lynchburg	10	1615CST			0	0			Thunderstorm Wind (G50)
	Sheriff's office reported trees down in the northeast part of the county.								
Van Buren County									
Piney	10	1615CST			0	0			Thunderstorm Wind (G70)
	Newspaper account about trees being uprooted and damage to several barns and chicken houses. A barn lost part of a metal roof, and there was also damage to the backside of the barn.								
Van Buren County									
Spencer	10	1615CST			0	0			Thunderstorm Wind (G50)
	911 center reported a tree down on old Highway 11 near Spencer.								
Warren County									
4 S Mc Minnville	10	1615CST			0	0			Thunderstorm Wind (G50)
	Spotter reported power lines down.								
Coffee County									
Tullahoma	10	1630CST			0	0			Thunderstorm Wind (G50)
	Ham radio operator reported trees were down on Highway 130.								
Giles County									
9 SW Pulaski	10	1650CST			0	0			Hail (1.00)
	911 center reported quarter size hail on Oak Grove Road between Oak Grove and Goodsprings.								
Franklin County									
4 ENE Estill Spgs	10	1655CST			0	0			Thunderstorm Wind (G50)
	Spotter reported trees blown down.								
Rutherford County									
Smyrna	11	1048CST			0	0			Hail (1.00)
	Ham radio operator reported quarter size hail.								
Rutherford County									
Smyrna to Walterhill	11	1050CST			0	0			Thunderstorm Wind (G50)
	TDOT reported several trees were blown down between Smyrna and Walter Hill.								
Rutherford County									
Smyrna	11	1112CST			0	0			Thunderstorm Wind (G60)
	Spotter reported trees were down. Also, there was a newspaper report that a 350 year-old white oak tree was blown down at the Sam Davis Home in Smyrna. The tree fell on a school bus (YMCA van). There was no one on the bus at the time. 62 children from the YMCA Summer Odyssey program were getting a tour of the house when the tree fell. 6 other large trees fell and damaged the Spring House at the historic site.								
Jackson County									
Gainesboro	11	1201CST			0	0			Hail (0.75)
	Spotter reported penny size hail.								
Van Buren County									
Spencer	11	1241CST			0	0			Thunderstorm Wind (G70)
	State Park employee reported half of barn was destroyed northwest of Fall Creek Falls S.P. near Spencer.								
Perry County									
Lobelville	11	1245CST			0	0			Thunderstorm Wind (G60)
	Several trees were uprooted and were blocking some roads near Lobelville.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, Central</u>									
Warren County									
Mc Minnville	11	1247CST			0	0			Thunderstorm Wind (G50)
									TDOT reported a tree was down and blocking a road.
Lawrence County									
Westpoint	11	1300CST			0	0			Thunderstorm Wind (G60)
									TDOT reported 3 trees were down.
Lawrence County									
Countywide	11	1302CST			0	0			Thunderstorm Wind (G50)
									EMA reported tree limbs were down around the county.
Stewart County									
Dover	11	1325CST			0	0			Thunderstorm Wind (G50)
									TDOT reported one tree was down.
Dickson County									
Dickson	11	1330CST			0	0	5K		Thunderstorm Wind (G70)
									Spotter reported numerous trees were down. A large pavilion partially collapsed. There was roof damage to one home and 2 windows were blown out of another home. A tree fell on a home in Dickson.
Giles County									
Lynnville to Bodenham	11	1330CST			0	0			Thunderstorm Wind (G50)
									TDOT reported 3 trees were down between Lynnville and Bodenham.
Maury County									
Countywide	11	1330CST			0	0			Thunderstorm Wind (G60)
									TDOT reported numerous trees were blown down.
Williamson County									
Southwest Portion	11	1330CST			0	0			Thunderstorm Wind (G55)
									EMA reported numerous trees were blown down.
Maury County									
Columbia	11	1345CST			0	0			Hail (0.75)
									Ham radio report of penny size hail.
Maury County									
Columbia	11	1345CST			0	0			Thunderstorm Wind (G55)
									Ham radio operator reported large trees were blown down.
Williamson County									
Countywide	11	1345CST			0	0			Thunderstorm Wind (G60)
									TDOT reported numerous trees down.
Williamson County									
8.9 N Franklin	11	1355CST			0	0			Thunderstorm Wind (G55)
									Public reported several trees were blown down in Brentwood.
Davidson County									
Forest Hills	11	1400CST			0	0			Thunderstorm Wind (G60)
									EMA reported numerous trees were down.
Hickman County									
10.3 ESE Centerville	11	1400CST			0	0			Thunderstorm Wind (G50)
									TDOT reported several trees down around Burnham.
Williamson County									
8.9 NE Franklin	11	1404CST			1	0			Thunderstorm Wind (G60)
									A large tree fell on a minivan during a severe thunderstorm. It killed a 58 year-old woman who was driving southbound on Liberty Church Road. F58VE
Marshall County									
Chapel Hill	11	1410CST			0	0			Thunderstorm Wind (G50)
									TDOT reported a tree down.
Marshall County									
Mooreville	11	1410CST			0	0			Thunderstorm Wind (G50)
									TDOT reported a tree down.
Davidson County									
Donelson	11	1415CST			0	0			Thunderstorm Wind (G55)
									Ham radio operator reported trees down and one power line down.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, Central</u>									
Sumner County									
Portland	11	1430CST			0	0	0.10K		Lightning
	Lightning caused a natural gas service line to rupture on Corinth Rd. 8 people had to be evacuated from their homes as a precaution. One home owner was able to put out the fire with a boat fire extinguisher.								
Wilson County									
2 SW Mt Juliet	11	1430CST			0	0			Thunderstorm Wind (G55)
	Public report of trees down along I-40 at mile marker 225.								
Sumner County									
2 S Gallatin	11	1445CST			0	0			Thunderstorm Wind (G57)
	Spotter measured a wind gust of 65 mph. Newspaper article reported that there were about 20 trees blown down around the county.								
Wilson County									
3 S Mt Juliet	11	1445CST			0	0			Thunderstorm Wind (G50)
	NWS employee reported 2 trees were down.								
Lincoln County									
Lincoln	11	1448CST			0	0			Thunderstorm Wind (G50)
	EMA reported trees down.								
Williamson County									
5 SW Franklin	15	1525CST 1615CST			0	0			Flash Flood
	Water was across Old Hillsboro Road near Leipers Fork.								
Perry County									
8 WSW Linden	15	1606CST			0	0			Thunderstorm Wind (G55)
	Trees were down on power lines at U.S. Highway 412 and the Tennessee River.								
Cheatham County									
7 N Ashland City	15	2030CST 2300CST			0	0			Flash Flood
	Highway 49 flooded in several spots from Pleasant View to I-24.								
Houston County									
Tennessee Ridge	16	1245CST 1545CST			0	0			Flash Flood
	TDOT reported culvert overflowed. About 2 inches of rain fell in one hour.								
Davidson County									
10 NE Nashville	16	1515CST			0	0			Thunderstorm Wind (G50)
	2 trees were blown down near the Rivergate Mall.								
Wayne County									
Northeast Portion	16	1535CST			0	0			Thunderstorm Wind (G50)
	TDOT reported a tree down in the northeast part of the county.								
Sumner County									
Hendersonville	16	1540CST			0	0			Thunderstorm Wind (G55)
	Trees and power lines were down on McCrory Lane.								
Sumner County									
Hendersonville	16	1545CST			0	0			Thunderstorm Wind (G50)
	Public report of large tree limbs were down in the northern part of the city.								
Bedford County									
Shelbyville	16	1705CST			0	0			Thunderstorm Wind (G50)
	Trees were blown down on Oakwood Dr. and Lane Pkwy. Trees were also blown down from Sims Road just west of Shelbyville through the northern part of the city.								
Warren County									
Centertown	16	1740CST			0	0			Thunderstorm Wind (G50)
	TDOT reported a tree was blown down on U.S. Highway 70S.								
Dekalb County									
Dowelltown	16	1745CST			0	0			Thunderstorm Wind (G50)
	TDOT reported a tree was blown down near the intersection of U.S. Highway 70 and Dry Creek Rd.								
Cannon County									
7 NE Woodbury	16	1750CST			0	0			Thunderstorm Wind (G50)
	TDOT reported a tree was blown down on Gunther Hollow Road in the Short Mountain area of Cannon County.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, Central</u>									
Warren County									
.5 N Mc Minnville	16	1800CST			0	0			Thunderstorm Wind (G50)
	TDOT reported a tree was blown down on Highway 56 north.								
White County									
Countywide	16	1815CST			0	0			Thunderstorm Wind (G50)
	TDOT reported a few trees were blown down.								
Putnam County									
5 N Cookeville	16	1820CST			0	0			Thunderstorm Wind (G50)
	TDOT reported a tree was down on Ben Mason Rd.								
Overton County									
Alpine	16	1915CST			0	0			Thunderstorm Wind (G50)
	Trees were blown down on Highway 52.								
Cumberland County									
5 S Crossville	16	1940CST			0	0			Thunderstorm Wind (G60)
	Trees were blown down in the Lake Tansi area.								
Fentress County									
Jamestown	16	1940CST			0	0			Thunderstorm Wind (G55)
	Trees and power lines were blown down near Airport Estates.								
Fentress County									
Jamestown	16	2015CST 2300CST			0	0			Flash Flood
	Water was rising near apartments in Jamestown. Water was bumper high to vehicles in some locations. Apartments were being evacuated.								
Montgomery County									
10 SW Clarksville	18	0330CST 0500CST			0	0			Flash Flood
	911 center reported that Palmyra and Hackberry were the hardest hit areas of the county. Part of Hembree Lane was washed away. Residents in their homes were cut off from their homes on Budds Creek Road and Vernon Creek Rd. There was also flooding on Louise Creek Road, Locust Grove Road, and Shallow Bridge Rd. A command post was set up near Palmyra to help flood victims.								
Montgomery County									
Countywide	18	0400CST 0500CST			0	0			Flash Flood
	Streets and roads were flooded around the county.								
Sumner County									
West Portion	18	0400CST 0600CST			0	0			Flash Flood
	TDOT reported high water on roads from 5 AM CDT through 7 AM CDT in the vicinity of White House and Portland. Many big creeks were running bank full.								
Cumberland County									
Crab Orchard	18	1310CST 1530CST			0	0			Flash Flood
	TDOT reported high water on U.S. Highway 70 east at Crab Orchard.								
Cumberland County									
Grassy Cove	19	1310CST 1530CST			0	0			Flash Flood
	TDOT reported high water on State Highway 68 near Grassy Cove.								
Houston County									
Erin	30	1030CST 1330CST			0	0	5K		Flash Flood
	Newspaper story about flash flooding that hit the city of Erin. Officials said that 4 to 6 inches of rain fell in a 3 hour period. The high water closed off one lane (westbound lane) of State Route 49 in Erin, in front of the AmSouth Bank entrance. There was high water on a road at Grices Creek. Water poured off of Arlington Hill and got inside the Erin Post Office. Ankle deep water got into Bab's Restaurant in Erin. Maple Street was closed as water ran over the low water bridge. Chunks of pavement were broken lose from streets in Erin. The rain was very localized and other parts of Houston County received no rain. This rivaled the last bad flood in 1969 where 9 inches of rain fell in an eight-hour period.								
<u>TENNESSEE, East</u>									
Marion County									
Jasper	11	1245CST			0	0	18K		Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<u>TENNESSEE, East</u>							
Sequatchie County							
Dunlap	11	1305CST			0 0	3K	Thunderstorm Wind (G55)
	Several trees were reported down in Jasper including a tree with a four foot diameter trunk which fell across a city street. A tree was reported down in Dunlap.						
Bledsoe County							
3 NE Pikeville	11	1310CST			0 0		Hail (0.75)
	Penny sized hail occurred three miles northeast of Pikeville.						
Scott County							
8 SW Oneida	11	1330EST			0 0	12K	Thunderstorm Wind (G55)
	Several trees were reported down in the northwest part of the county in the Big South Fork National River and Recreation area.						
Roane County							
6 SW Rockwood	11	1415EST			0 0		Hail (0.75)
	Penny sized hail fell near the Glen Alice community.						
Rhea County							
Dayton	11	1415EST			0 0		Hail (0.75)
	Penny sized hail fell just northwest of Dayton.						
Blount County							
Alcoa	11	1435EST			0 0	20K	Thunderstorm Wind (G55)
	Numerous trees and power lines were reported down west of a line from Alcoa to Spring View.						
Knox County							
7 SE Knoxville	11	1510EST			0 0	5K	Thunderstorm Wind (G55)
	A few trees were reported down in eastern Knox County near Kodak.						
Grainger County							
Bean Station	11	1545EST			0 0	12K	Thunderstorm Wind (G55)
	A few trees were reported down in Bean Station.						
Campbell County							
Countywide	11	1605EST			0 0	15K	Thunderstorm Wind (G55)
	Trees were reported down across the county.						
Scott County							
Oneida	11	1610EST			0 0	12K	Thunderstorm Wind (G55)
	A few trees were reported down in Oneida.						
Washington County							
2 E Gray	11	1615EST			0 0		Hail (0.75)
	Pea to Penny sized hail fell about one and a half miles east of Gray.						
Carter County							
Elizabethton	11	1620EST			0 0	16K	Thunderstorm Wind (G55)
	Numerous trees were reported down in and around Elizabethton.						
Marion County							
Whitwell	11	1630CST			0 0	15K	Thunderstorm Wind (G55)
	Trees were reported down in Whitwell and Kimball.						
Greene County							
Chuckey	11	1640EST			0 0	20K	Thunderstorm Wind (G55)
	Numerous trees and power lines were reported down in Chuckey.						
Washington County							
Countywide	11	1644EST			0 0		Hail (0.75)
	Penny sized hail fell near Boones Station.						
Sullivan County							
Kingsport	11	1700EST			0 0	15K	Thunderstorm Wind (G55)
	Several trees were reported down across the west half of the county.						
Campbell County							
Countywide	11	1700EST			0 0	12K	Thunderstorm Wind (G55)
	A few trees were reported down in the west half of the county.						
Johnson County							
Countywide	11	1700EST			0 0	20K	Thunderstorm Wind (G55)
	Numerous trees and power lines were reported down across the county.						
Hamilton County							
Chattanooga	11	1700EST			0 0	10K	Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, East</u>									
A 70 mile an hour wind gust was reported by a television station in Chattanooga.									
Washington County									
Johnson City	11	1710EST			0	0	10K		Thunderstorm Wind (G55)
A few trees were reported down in Johnson City and across the north half of the county.									
Hamilton County									
Chattanooga	11	1710EST			0	0	18K		Thunderstorm Wind (G55)
Numerous trees were reported down across Chattanooga.									
Polk County									
Countywide	11	1710EST			0	0	30K		Thunderstorm Wind (G55)
Numerous trees and power lines were downed across the county. Some of the trees were reported to have fallen on vehicles									
Hamilton County									
Red Bank	11	1715EST			0	0	20K		Thunderstorm Wind (G55)
Numerous trees, power poles, and power lines were reported down in Red Bank.									
Mcminn County									
Countywide	11	1730EST			0	1	20K		Thunderstorm Wind (G55)
Numerous trees were reported down across the county. A tree fell on a mobile home at 222 county road 61 injuring an occupant.									
Meigs County									
Countywide	11	1730EST			0	0	18K		Thunderstorm Wind (G55)
Several trees were reported down across the county.									
Monroe County									
2 SE Madisonville	11	1740EST			0	0	18K		Thunderstorm Wind (G55)
Numerous trees and power lines were reported down two miles southeast of Madisonville.									
Bradley County									
Countywide	11	1745EST			0	0	20K		Thunderstorm Wind (G55)
Numerous trees and power lines were reported down across the county.									
Washington County									
Johnson City	11	1800EST 2100EST			0	0			Flash Flood
Numerous main roads closed citywide.									
Rhea County									
Dayton	11	1800EST			0	0	15K		Thunderstorm Wind (G55)
Numerous trees were reported down in and around Dayton.									
Roane County									
Rockwood	11	1815EST			0	0	15K		Thunderstorm Wind (G55)
Numerous trees were reported down at Rockwood and near Midtown.									
Blount County									
Countywide	11	1820EST			0	0	20K		Thunderstorm Wind (G55)
Numerous trees and power lines were reported down across the county.									
Morgan County									
Countywide	11	1830EST			0	0	25K		Thunderstorm Wind (G55)
Numerous trees and power lines were reported down across the county.									
Knox County									
South Knoxville	11	1830EST			0	0	12K		Thunderstorm Wind (G55)
A few trees were reported down in the south half of the county.									
Mcminn County									
Countywide	11	1830EST			0	0	15K		Thunderstorm Wind (G55)
Numerous trees and power lines were reported down across the county.									
Monroe County									
Countywide	11	1835EST			0	0	20K		Thunderstorm Wind (G55)
Numerous trees and power lines were reported down across the county.									
Sevier County									
Kodak	11	1855EST			0	0	12K		Thunderstorm Wind (G55)
Trees and power lines were reported down near Kodak.									
Sullivan County									
Bloomingdale	11	1900EST 2100EST			0	0			Flash Flood
Flooding around Bloomingdale from streams out of banks and clogged storm drains. Some road closures.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, East</u>									
Anderson County									
Countywide	11	1900EST			0	0	15K		Thunderstorm Wind (G55)
A few trees were reported down across the county.									
Union County									
Countywide	11	1910EST			0	0	20K		Thunderstorm Wind (G55)
Numerous trees were reported down across the county.									
Grainger County									
Countywide	11	1915EST			0	0	12K		Thunderstorm Wind (G55)
A few trees were reported down in the south part of the county.									
Jefferson County									
2 NW Jefferson City	11	1920EST			0	0	10K		Thunderstorm Wind (G55)
A few trees were reported down along highway 92 between Jefferson City and Cherokee Dam.									
Campbell County									
.5 SE Four Corners	11	1920EST			0	0	10K		Thunderstorm Wind (G55)
Numerous trees were reported down in Pinecrest.									
Sullivan County									
Bristol	11	1920EST			0	0	8K		Thunderstorm Wind (G55)
A few trees were reported down in Bristol.									
Grainger County									
Countywide	11	1920EST			0	0	15K		Thunderstorm Wind (G55)
A few trees were reported down across the county.									
Hamblen County									
Countywide	11	1930EST			0	0	15K		Thunderstorm Wind (G55)
Numerous trees were reported down across the county.									
Claiborne County									
Countywide	11	1940EST			0	0	12K		Thunderstorm Wind (G55)
Several trees were reported down across the county.									
Jefferson County									
Countywide	11	1950EST			0	0	12K		Thunderstorm Wind (G55)
A few trees were reported down across the county.									
Hancock County									
Sneedville	11	1955EST			0	0	8K		Thunderstorm Wind (G55)
A few trees were reported down in Sneedville.									
Hamblen County									
Countywide	11	1955EST			0	0	15K		Thunderstorm Wind (G55)
Numerous trees were reported down across the county.									
Hawkins County									
Mooresburg	11	2000EST			0	0	20K		Thunderstorm Wind (G55)
Numerous trees and power lines were reported down across the county with the greatest coverage occurring in the Mooresburg area.									
Cocke County									
Newport	11	2000EST			0	0	10K		Thunderstorm Wind (G55)
A few trees were reported down along highway 160 and just east of Newport along highway 25-70.									
Hawkins County									
Countywide	11	2015EST			0	0	18K		Thunderstorm Wind (G55)
Several trees and power lines were reported down across the county.									
Sullivan County									
10 SW Bristol	16	1510EST			0	0			Hail (0.75)
Penny size hail occurred approximately ten miles southwest of Bristol on interstate 81.									
Hawkins County									
Countywide	16	1515EST			0	0	6K		Thunderstorm Wind (G55)
One tree was reported down on highway 70 south of Rogersville and another tree was down on highway 70 north of Clinch Mountain.									
Bradley County									
Cleveland	16	1945EST			0	0			Hail (1.00)
Quarter sized hail fell north of Cleveland in the northern part of the county.									
Roane County									
Countywide	16	2110EST			0	0	15K		Thunderstorm Wind (G55)
Several trees were reported down across the county.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, East</u>									
Morgan County									
Wartburg	16	2120EST			0	0	8K		Thunderstorm Wind (G55)
	A few trees were reported down in Wartburg.								
Scott County									
Helenwood	16	2130EST			0	0	8K		Thunderstorm Wind (G55)
	A few trees were reported down in Helenwood.								
Roane County									
Countywide	18	1330EST 2015EST			0	0			Flash Flood
	Roads closed countywide. Lows spots flooded countywide. White Creek and Black Creek out of banks.								
Rhea County									
Countywide	18	1545EST 2015EST			0	0			Flash Flood
	Roads countywide covered in water. Highway 302 closed.								
Campbell County									
Countywide	18	1600EST 2015EST			0	0	100K		Flash Flood
	Roads, culverts, and private bridges washed out countywide.								
Morgan County									
12 SW Wartburg	18	1600EST 2015EST			0	0			Flash Flood
	Lower Rockwood Road partially washed out, along with a culvert and part of the shoulder.								
Washington County									
Johnson City	30	1645EST 1830EST			0	0			Flash Flood
	One to two feet of water in Johnson City. Streets closed.								
Greene County									
9 SE Greeneville	30	1655EST			0	0	6K		Thunderstorm Wind (G55)
	Two trees were reported down on Houston Valley Road nine miles southeast of Greeneville.								
<u>TENNESSEE, West</u>									
Gibson County									
Rutherford	10	1345CST 1350CST			0	0	0.05K		Hail (0.88)
Henderson County									
Darden	10	1500CST 1505CST			0	0	0.05K		Hail (0.88)
Tipton County									
5 NW Covington	11	1100CST 1105CST			0	0	1K		Thunderstorm Wind (G50)
	Large tree limbs were blown down.								
Tipton County									
1 E Covington	11	1130CST 1135CST			0	0	5K		Thunderstorm Wind (G55)
	Several trees were knocked down.								
Haywood County									
Brownsville	11	1150CST 1155CST			0	0	10K		Thunderstorm Wind (G60)
	A barn was damaged. Some trees were blown down.								
Crockett County									
Johnsons Grove	11	1205CST 1210CST			0	0	10K		Thunderstorm Wind (G50)
	A shed was blown down. Some tree limbs and power lines were knocked down.								
Fayette County									
Somerville	11	1300CST 1305CST			0	0	5K		Thunderstorm Wind (G55)
	Some trees were knocked down.								

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>TENNESSEE, West</u>									
Haywood County									
Brownsville	16	1217CST 1400CST			0	0	1K		Flash Flood
Several roads were closed. Flood water approached several homes in the area.									
Shelby County									
Memphis	16	1530CST 1630CST			0	0	1K		Flash Flood
Several streets were flooded.									
<u>TEXAS, Central</u>									
Coke County									
13 W Robert Lee	01	1516CST			0	0			Hail (1.75)
Taylor County									
1 E Abilene	01	1628CST			0	0			Hail (0.88)
Tom Green County									
12 N San Angelo	01	1632CST			0	0			Hail (0.88)
Nolan County									
Sweetwater	01	1640CST			0	0			Hail (1.00)
Tom Green County									
10 N San Angelo	01	1645CST			0	0			Hail (1.75)
Tom Green County									
12 N San Angelo	01	1648CST			0	0			Hail (2.50)
Tom Green County									
10 N San Angelo	01	1650CST			0	0			Thunderstorm Wind (G61)
Tom Green County									
10 N San Angelo	01	1652CST			0	0	10M		Hail (2.50)
The community of Grape Creek was pounded by hail up to the size of tennis balls combined with winds to 70 mph. This produced considerable damage to trees, roofs and cars. Hail of golf ball size or larger fell for almost 20 minutes. Severe hail of penny size or larger fell for 50 minutes. Almost every home in the community needed roof repairs.									
Tom Green County									
11 N San Angelo	01	1655CST			0	0			Hail (1.75)
Tom Green County									
1 N San Angelo	01	1657CST			0	0			Hail (1.75)
Tom Green County									
San Angelo	01	1700CST			0	0			Thunderstorm Wind (G61)
Fisher County									
Mc Caulley	01	1712CST			0	0			Hail (1.00)
Tom Green County									
San Angelo	01	1715CST			0	0			Hail (1.00)
Tom Green County									
1 N San Angelo	01	1717CST 1817CST			0	0			Flash Flood
Tom Green County									
1 NNE San Angelo	01	1717CST			0	0			Hail (1.75)
Tom Green County									
10 N San Angelo	01	1720CST			0	0			Hail (1.00)
Tom Green County									
San Angelo	01	1721CST			0	0	4M		Hail (1.75)
The thunderstorm moved from Grape Creek into the city of San Angelo. The thunderstorm produced golf ball size hail and winds to 70 mph over the north and east portions of San Angelo. This caused damage to cars, roofs and businesses.									
Tom Green County									
1 E San Angelo	01	1725CST			0	0			Thunderstorm Wind (G61)
Tom Green County									
San Angelo	01	1726CST			0	0			Hail (1.75)
Tom Green County									
1 N San Angelo	01	1728CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
Tom Green County									
San Angelo	01	1731CST			0	0			Hail (1.75)
Tom Green County									
San Angelo	01	1732CST			0	0			Hail (1.75)
Tom Green County									
10 N San Angelo	01	1735CST 1835CST			0	0			Flash Flood
Coleman County									
1 S Leaday	01	1745CST			0	0			Thunderstorm Wind (G61)
Concho County									
9 N Millersview	01	1745CST			0	0			Thunderstorm Wind (G61)
Tom Green County									
3 E Wall	01	1746CST			0	0			Thunderstorm Wind (G61)
Jones County									
Stamford	01	1750CST			0	0			Hail (1.75)
Tom Green County									
San Angelo	01	1750CST			0	0			Hail (0.75)
Jones County									
Stamford	01	1800CST			0	0	30K		Hail (2.50)
Tom Green County									
3 S Wall	01	1800CST			0	0			Hail (0.75)
Haskell County									
Haskell	01	1828CST			0	0			Hail (0.88)
Concho County									
Eden	01	1900CST			0	0	5K		Thunderstorm Wind (G61)
Mcculloch County									
Melvin	01	1930CST			0	0	2K		Thunderstorm Wind (G61)
Fisher County									
Roby	01	2010CST			0	0	500K		Thunderstorm Wind (G65)
Strong thunderstorm winds moved through the town of Roby and caused structural damage to homes. Car windows were broken by flying debris. Numerous trees and power lines were downed.									
Sterling County									
2 N Sterling City	01	2020CST			0	0			Thunderstorm Wind (G52)
Coke County									
Bronte	01	2025CST			0	0			Hail (0.88)
Coke County									
2 W Robert Lee	01	2045CST			0	0			Hail (0.75)
Concho County									
3 S Paint Rock	01	2113CST			0	0			Hail (1.75)
Runnels County									
Ballinger	01	2125CST			0	0	6K		Thunderstorm Wind (G61)
Sveral power lines and trees blown down.									
Tom Green County									
2 S Veribest	01	2250CST 2350CST			0	0			Flash Flood
Concho County									
5 E Eola	01	2331CST			0	0			Flash Flood
	02	0031CST							
Sterling County									
8 NE Sterling City	02	0000CST			0	0			Thunderstorm Wind (G52)
Severe thunderstorms erupted over much of west central Texas on the first day on June. However the most significant storm of the day was a supercell that formed in southern Coke county then moved southeast towards Grape Creek and San Angelo. This storm caused significant hail and wind damage as it moved through Tom Green County. The storm continued southeast while producing hail and wind damage across Concho and McCulloch counties.									
Tom Green County									
4 S San Angelo	03	1853CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
Tom Green County									
3 S San Angelo	03	1900CST			0	0			Hail (1.00)
Tom Green County									
San Angelo	03	1900CST 2000CST			0	0	200K		Lightning
Intense lightening from a severe thunderstorm produced a house fire, which was a total loss. Also numerous appliances and televisions across the city were knocked out. The National Weather Service office in San Angelo also received a lightening strike that knocked out computer systems and a amateur radio transceiver.									
Tom Green County									
3 SW San Angelo	03	1908CST			0	0			Hail (1.50)
Tom Green County									
1 SW San Angelo	03	1910CST			0	0	800K		Hail (4.25)
Large hail and strong winds combined to produce significant damage to homes and cars in San Angelo. This was the second severe thunderstorm to hit the city of San Angelo in three days.									
Tom Green County									
1 E San Angelo	03	1913CST			0	0			Hail (1.75)
Tom Green County									
2 W San Angelo	03	1915CST			0	0			Hail (1.75)
Tom Green County									
1 SW San Angelo	03	1915CST			0	0			Hail (2.75)
Nolan County									
Sweetwater	03	1920CST			0	0			Thunderstorm Wind (G52)
Tom Green County									
5 SW San Angelo to 5 SE San Angelo	03	1951CST			0	0			Hail (1.00)
Tom Green County									
7 SE San Angelo	03	1955CST			0	0			Thunderstorm Wind (G60)
Tom Green County									
9 SW San Angelo	03	2000CST			0	0			Hail (1.75)
Coke County									
Robert Lee	03	2027CST 2127CST			0	0			Flash Flood
Streets flooded in Robert Lee.									
Concho County									
1 NW Eden	03	2030CST			0	0			Hail (1.00)
Runnels County									
Ballinger	03	2030CST			0	0			Thunderstorm Wind (G61)
Coleman County									
10 N Coleman	03	2044CST			0	0			Hail (1.75)
Tom Green County									
6 SW San Angelo	03	2052CST 2252CST			0	0			Flash Flood
Concho County									
Eden	03	2100CST			0	0			Thunderstorm Wind (G61)
Brown County									
Lake Brownwood	03	2105CST			0	0			Thunderstorm Wind (G58)
Brown County									
Owens	03	2105CST			0	0			Hail (4.25)
Menard County									
Ft Mckavett	03	2110CST			0	0			Thunderstorm Wind (G52)
Tom Green County									
San Angelo	03	2119CST 2219CST			0	0	150K		Flash Flood
Several cars were stranded and a restaurant was flooded.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central									
Brown County									
Bangs	03	2124CST			0	0			Hail (0.75)
Runnels County									
1 S Ballinger	03	2124CST			0	0			Thunderstorm Wind (G52)
Coke County									
Robert Lee	03	2130CST			0	0	3K		Thunderstorm Wind (G55)
Concho County									
Eden	03	2130CST			0	0	10K		Thunderstorm Wind (G57)
Strong thunderstorm winds caused a porch to blow down onto a house and knocked down several large trees.									
Mcculloch County									
Brady	03	2155CST			0	0	10K		Thunderstorm Wind (G61)
Part of the roof was lifted off of the police station in Brady.									
Mcculloch County									
1 S Brady	03	2200CST 2202CST	0.2	30	0	0	10K		Tornado (F0)
A weak tornado went through a subdivision south of Brady and damaged several homes.									
Mcculloch County									
Lohn	03	2210CST 2310CST			0	0			Flash Flood
Water over a highway.									
Kimble County									
5 S Junction	03	2220CST			0	0			Thunderstorm Wind (G61)
Mason County									
11 N Mason	03	2240CST			0	0			Thunderstorm Wind (G61)
San Saba County									
San Saba	03	2245CST			0	0			Thunderstorm Wind (G61)
Severe thunderstorms rapidly developed over the Concho Valley during the evening and spread to the east and southeast across the Heartland and Northwest Hill Country. The most severe thunderstorm of the evening was one that formed right over the city of San Angelo and was nearly stationary over the city for almost one hour. This thunderstorm produced very large hail and damaging winds in the city. This storm also produced frequent cloud to ground lightning strikes that damaged electronic equipment, and caused a house fire.									
Nolan County									
Roscoe	05	0035CST			0	0	3K		Thunderstorm Wind (G52)
Strong winds knocked down some power poles in Roscoe.									
Fisher County									
Roby	05	0044CST			0	0			Thunderstorm Wind (G52)
Coke County									
Robert Lee	05	0138CST			0	0			Thunderstorm Wind (G52)
Nolan County									
Countywide	05	0150CST 0400CST			0	0			Flash Flood
Sherrif reported flooding all over the county.									
Coke County									
5 W Robert Lee	05	0200CST			0	0			Hail (1.00)
Fisher County									
Countywide	05	0215CST 0500CST			0	0			Flash Flood
Sherrif reported widespread flooding across the county with some roads completely impassable.									
Tom Green County									
13 N San Angelo	05	0215CST			0	0			Thunderstorm Wind (G52)
Irion County									
Mertzon	05	0230CST			0	0			Thunderstorm Wind (G52)
Tom Green County									
13 N San Angelo	05	0235CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, Central</u>									
Runnels County									
Ballinger	05	0245CST			0	0	2K		Thunderstorm Wind (G55)
Irion County									
Mertzon	05	0315CST			0	0			Thunderstorm Wind (G52)
Tom Green County									
East Portion	05	0317CST 0500CST			0	0			Flash Flood
Numerous roads were impassable in the eastern portion of Tom Green county due to flooding. The most significant flooding was around the community of Veribest.									
Coleman County									
Coleman	05	0405CST 0600CST			0	0			Flash Flood
Significant street flooding reported in Coleman.									
Runnels County									
Ballinger	05	0405CST 0600CST			0	0			Flash Flood
Significant street flooding reported in Ballinger.									
Callahan County									
Clyde	05	0420CST 0520CST			0	0			Flash Flood
Taylor County									
Countywide	05	0420CST 0600CST			0	0			Flash Flood
Several roads were flooded in Taylor county, along with significant street flooding in the City of Abilene.									
Brown County									
Brownwood	05	0440CST 0800CST			0	0			Flash Flood
Numerous street closures in Brownwood due to high water. There was a report of 2.5 inches of rain that fell in 30 minutes.									
San Saba County									
Algerita	05	0459CST			0	0			Hail (1.75)
San Saba County									
Algerita	05	0459CST			0	0			Thunderstorm Wind (G61)
San Saba County									
San Saba	05	0505CST			0	0	11K		Thunderstorm Wind (G70)
San Saba County									
Countywide	05	0530CST			0	0			Thunderstorm Wind (G70)
Numerous trees blown down throughout the county.									
San Saba County									
Countywide	05	0617CST 0800CST			0	0			Flash Flood
Law enforcement reported high water over numerous streets and highways across the county including Richland Springs and San Saba.									
Nolan County									
Sweetwater	07	1845CST			0	0			Hail (1.75)
Nolan County									
Sweetwater	07	1848CST			0	0			Hail (1.75)
Sterling County									
1 N Sterling City	07	1938CST			0	0			Hail (1.75)
Nolan County									
Nolan	07	1955CST			0	0			Hail (1.75)
Nolan County									
Nolan	07	1955CST			0	0			Thunderstorm Wind (G52)
Coke County									
5 N Robert Lee	07	2048CST			0	0			Hail (0.75)
Sterling County									
3 S Sterling City	07	2114CST 2300CST			0	0			Flash Flood
Water went over highway 87 south of Sterling City.									

Storm Data and Unusual Weather Phenomena

June 2003

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</u>									
Coke County									
Robert Lee	07	2116CST 2300CST			0	0			Flash Flood
Coke County									
Bronte	07	2123CST			0	0			Thunderstorm Wind (G52)
Nolan County									
Blackwell	07	2150CST			0	0	3K		Thunderstorm Wind (G61)
									Roof was blown off of a mobile home.
Taylor County									
Dyess Afb	07	2213CST			0	0			Hail (0.88)
Jones County									
5 SE Hawley	07	2225CST			0	0			Hail (2.75)
Taylor County									
Abilene	07	2225CST			0	0			Hail (1.75)
Callahan County									
Clyde	07	2248CST			0	0			Hail (1.75)
Callahan County									
Clyde	07	2253CST			0	0	100K		Hail (2.50)
									Damage to cars and windows were broken out of homes.
Brown County									
Brownwood Arpt	08	0746CST			0	0			Thunderstorm Wind (G52)
Brown County									
Brownwood	08	0828CST 0930CST			0	0			Flash Flood
									Law enforcement reported significant street flooding in the city of Brownwood.
Tom Green County									
13 N San Angelo	09	2352CST			0	0			Thunderstorm Wind (G52)
Jones County									
Stamford	10	1945CST			0	0	8K		Thunderstorm Wind (G62)
									Roof was blown off of a house.
Throckmorton County									
Throckmorton	10	2000CST			0	0			Hail (0.75)
Sterling County									
Sterling City	11	1658CST			0	0			Hail (1.75)
Haskell County									
Weinert	11	1715CST			0	0			Hail (2.75)
Haskell County									
Weinert	11	1715CST	0.1	20	0	0			Tornado (F0)
									Brief tornado reported by cooperative observer.
Haskell County									
Rochester	11	1720CST			0	0			Thunderstorm Wind (G61)
Haskell County									
9 E Weinert	11	1730CST			0	0			Hail (1.75)
Sutton County									
5 W Sonora	11	1745CST			0	0			Hail (0.75)
Taylor County									
14 SSE Abilene	11	1757CST			0	0			Hail (1.75)
Coke County									
11 SSW Robert Lee	11	1800CST			0	0			Hail (1.00)
Schleicher County									
10 E Eldorado	11	1800CST			0	0			Thunderstorm Wind (G61)
Coke County									
12 SW Robert Lee	11	1810CST			0	0			Hail (0.75)
Callahan County									
Clyde	11	1811CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

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</u>									
Menard County									
7 N Ft Mckavett	11	1827CST			0	0			Thunderstorm Wind (G61)
Coke County									
Robert Lee	11	1830CST			0	0			Hail (0.75)
Coke County									
12 S Robert Lee	11	1842CST			0	0			Hail (1.75)
Tom Green County									
17 N San Angelo	11	1842CST			0	0			Hail (1.75)
Tom Green County									
18 NNE San Angelo	11	1844CST			0	0			Hail (1.75)
Shackelford County									
Albany	11	1845CST			0	0			Hail (0.75)
Taylor County									
1 S Abilene	11	1848CST			0	0			Hail (0.75)
Taylor County									
1 S Abilene	11	1850CST			0	0			Thunderstorm Wind (G59)
Taylor County									
2 SW Abilene	11	1857CST			0	0	3K		Thunderstorm Wind (G61)
									Power poles blown down.
Haskell County									
9 E Weinert	11	1900CST 2000CST			0	0			Flash Flood
									FM 1720 had a foot of water over the road.
Throckmorton County									
10 NW Throckmorton	11	1900CST			0	0			Thunderstorm Wind (G61)
Tom Green County									
4 NNE San Angelo	11	1900CST	0.1	20	0	0			Tornado (F0)
Callahan County									
12 S Baird	11	1905CST			0	0			Hail (1.00)
Coleman County									
1 NE Echo	11	1920CST			0	0			Thunderstorm Wind (G59)
Runnels County									
Rowena	11	1937CST			0	0	3K		Thunderstorm Wind (G58)
									Power lines downed.
Runnels County									
Rowena	11	1940CST			0	0			Hail (0.75)
Haskell County									
Lake Stamford	11	1945CST			0	0			Hail (0.75)
Concho County									
Lowake	11	1949CST			0	0	2K		Hail (1.75)
									Car windows broken.
Brown County									
Lake Brownwood	11	1955CST			0	0			Thunderstorm Wind (G61)
Coleman County									
Coleman	11	1958CST			0	0			Hail (0.88)
Coleman County									
Coleman	11	1958CST			0	0			Thunderstorm Wind (G61)
Callahan County									
Clyde	11	2000CST 2100CST			0	0			Flash Flood
									Numerous low water crossings flooded.
Coleman County									
Coleman	11	2012CST 2112CST			0	0			Flash Flood
									Several roads flooded.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, Central</u>									
Coleman County									
Gouldbusk	11	2015CST			0	0			Thunderstorm Wind (G58)
Brown County									
Bangs	11	2017CST			0	0	5K		Thunderstorm Wind (G61)
Trees and powerlines downed.									
Brown County									
Brownwood	11	2027CST			0	0	10K		Thunderstorm Wind (G61)
Trees and powerlines downed all over Brownwood.									
Coleman County									
1 NE Echo	11	2030CST 2130CST			0	0			Flash Flood
Flooded low water crossings.									
Brown County									
Lake Brownwood	11	2100CST 2200CST			0	0	10K		Flash Flood
Water entered a few homes near Lake Brownwood.									
Taylor County									
Abilene	13	1110CST			0	0			Hail (0.75)
Taylor County									
Countywide	13	1142CST 1900CST			0	0			Flash Flood
Thunderstorms brought heavy rains to much of Taylor county during the afternoon. High water forced the closure of numerous roads across the county.									
Crockett County									
24 SSW Ozona	13	1145CST			0	0			Hail (0.75)
Crockett County									
20 SSW Ozona	13	1215CST 1415CST			0	0			Flash Flood
Nolan County									
2 S Blackwell	13	1415CST 1800CST			0	0			Flash Flood
Numerous roads flooded around Oak Creek Lake.									
Coke County									
11 NE Robert Lee	13	1427CST 1800CST			0	0	10K		Flash Flood
Road washouts reported.									
Brown County									
Countywide	13	1455CST 1700CST			0	0			Flash Flood
Numerous road closures reported.									
Haskell County									
West Central Portion	25	2100CST 2200CST			0	0			Flash Flood
Flooding reported along California Creek.									
<u>TEXAS, Central Southeast</u>									
Liberty County									
4 E Romayor	02	1443CST			0	0	3K		Thunderstorm Wind (G55)
Tree down.									
Liberty County									
.5 S Moss Bluff	02	1529CST			0	0	1K		Hail (0.75)
Liberty County									
3 S Moss Hill	02	1529CST	0.3	20	0	0			Tornado (F0)
No damage.									
Liberty County									
2 SW Hardin	02	1535CST			0	0	3K		Hail (1.75)
Golf ball sized hail.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Central Southeast									
Liberty County									
Daisetta	02	1540CST			0	0	9K		Thunderstorm Wind (G57)
									Car wash roof collapsed and trees downed.
Liberty County									
Hardin	02	1620CST			0	0	3K		Hail (1.75)
									Golf ball sized hail.
Liberty County									
Devers	02	1646CST			0	0	2K		Thunderstorm Wind (G55)
									Tree down.
Chambers County									
Mont Belvieu	02	1705CST			0	0	7K		Thunderstorm Wind (G65)
									18-wheeler overturned on Interstate 10.
Fort Bend County									
Sugarland	03	1700CST 1720CST	1	20	0	0	14K		Tornado (F0)
									Tornado formed just northeast of the Sugar Land Airport (Hull Field) and moved north into the city. Several homes received minor roof and other property damage.
Brazos County									
Kurten	04	0215CST			0	0	15K		Thunderstorm Wind (G58)
									High winds uprooted trees, downed fences and ripped roofs off barns.
Brazos County									
4 SW Kurten	04	0250CST			0	0			Thunderstorm Wind (G52)
									60 mph wind gust in Wixon Valley.
Brazos County									
6 N Kurten	04	0303CST			0	0	5K		Thunderstorm Wind (G52)
									Trees down along FM 974 near Wilson Pasture.
Galveston County									
2 E Jamaica Beach	04	0640CST			0	0			Funnel Cloud
									Observed off the coast near Jamaica Beach.
San Jacinto County									
Shepherd	05	1245CST 1246CST	0.2	20	0	0	10K		Tornado (F0)
									Damage to Shepherd High School and roof damage to an agricultural building and nearby homes.
Trinity County									
5 ESE Groveton	10	1535CST			0	0	3K		Thunderstorm Wind (G52)
									Trees down.
Trinity County									
5 S Apple Spgs	10	1545CST			0	0	3K		Thunderstorm Wind (G52)
									Trees down.
Polk County									
Livingston	12	1256CST	0.2	20	0	0			Tornado (F0)
									No damage.
Houston County									
Crockett	12	1802CST			0	0	9K		Thunderstorm Wind (G53)
									Trees and power poles down from the western half of the county eastward to Crockett.
Brazos County									
10 N Bryan	12	1822CST			0	0	3K		Thunderstorm Wind (G53)
									Trees blown down.
Polk County									
Livingston	12	1256CST	0.2	20	0	0			Tornado (F0)
									No damage.
Houston County									
Crockett	12	1802CST			0	0	9K		Thunderstorm Wind (G53)
									Trees and power poles down from the western half of the county eastward to Crockett.
Brazos County									
10 N Bryan to Bryan	12	1822CST			0	0	3K		Thunderstorm Wind (G53)
									Trees blown down.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, Central Southeast</u>									
Trinity County									
Countywide	12	1842CST			0	0	6K		Thunderstorm Wind (G54)
									Trees blown down.
Madison County									
10 N Madisonville to Madisonville	12	1845CST			0	0	3K		Thunderstorm Wind (G53)
									Trees blown down near OSR and Interstate 45.
Walker County									
Countywide	12	1900CST			0	0	6K		Thunderstorm Wind (G54)
									Trees blown down.
Grimes County									
Bedias	12	1912CST			0	0	3K		Thunderstorm Wind (G53)
									Trees down.
Polk County									
Countywide	12	1917CST			0	0	6K		Thunderstorm Wind (G53)
									Trees down.
San Jacinto County									
Countywide	12	1942CST			0	0	6K		Thunderstorm Wind (G54)
									Trees down.
Montgomery County									
Willis	12	1957CST			0	0	5K		Thunderstorm Wind (G54)
									Trees down in Willis and northern portions of the county.
Polk County									
Lake Livingston Dam	12	2005CST			0	0	2K		Hail (1.00)
Polk County									
Lake Livingston Dam	12	2005CST			0	0	3K		Thunderstorm Wind (G54)
									62 mph wind gust.
Liberty County									
Cleveland	12	2047CST			0	0	7K		Thunderstorm Wind (G53)
									Power lines down across northern portions of the county.
Brazos County									
Bryan	13	1450CST			0	0	1K		Hail (0.75)
Brazos County									
College Station to 3 E Wellborn	13	1500CST 1515CST	5	20	0	0	1K		Tornado (F0)
									Tornado touched down on the south side of College Station and tracked to the southeast near Greens Prairie Road and Highway 6. Storm spotters also observed this tornado that caused very little damage.
Washington County									
Burton	13	1712CST			0	0	5K		Thunderstorm Wind (G53)
									TexasDOT signs blown down across the city.
Burleson County									
Caldwell	13	1717CST			0	0			Thunderstorm Wind (G52)
									60 mph wind gust.
Burleson County									
Deanville	13	1720CST			0	0	8K		Thunderstorm Wind (G55)
									Trees and power lines down.
Washington County									
5 E Burton	13	1720CST			0	0	1K		Thunderstorm Wind (G57)
									65 mph wind gust along US 290.
Brazos County									
Kurten	13	1740CST			0	0			Thunderstorm Wind (G52)
									60 mph wind gust.
Grimes County									
3 W Navasota	13	1750CST			0	0			Funnel Cloud
Austin County									
Industry	13	1755CST			0	0	8K		Thunderstorm Wind (G58)
									Numerous signs blown down.

Storm Data and Unusual Weather Phenomena

June 2003

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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TEXAS, Central Southeast

Matagorda County

Markham	14	0836CST	0.2	20	0	0			Tornado (F0)
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No damage; brief touchdown.

Matagorda County

Wadsworth	14	0836CST	0.2	20	0	0			Tornado (F0)
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No damage; brief touchdown.

Washington County

Chappell Hill	16	1633CST	0.2	20	0	0			Tornado (F0)
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No damage.

Galveston County

1 NW (Gls)Scholes Fld C 2 NW (Gls)Scholes Fld Gal	17	1209CST	1	20	0	0			Tornado (F0)
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Tornado was between Scholes Field and the Causway; no damage.

Galveston County

2 SW Hitchcock	17	1215CST			0	0			Funnel Cloud
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Galveston County

Texas City	17	1224CST			0	0			Funnel Cloud
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Fort Bend County

4 S Rosenberg	24	1013CST			0	0			Funnel Cloud
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Funnel cloud was at Highway 6 and US 59.

Harris County

Baytown	26	1023CST			0	0			Funnel Cloud
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Multiple funnel clouds sighted.

TEXAS, Extreme West

Hudspeth County

1 W Sierra Blanca	09	1530MST			0	0			Thunderstorm Wind (G52)
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TEXAS, Mid - South

Webb County

30 N Laredo	02	1943CST			0	0			Hail (1.00)
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Observed 5 miles SW of HWY 83 and HWY 44.

Webb County

Laredo	02	2032CST			0	0			Hail (1.75)
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Reported by TV Meteorologist on North side of Laredo.

Webb County

Laredo	02	2038CST			0	0			Thunderstorm Wind (G61)
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Reported by TV Meteorologist on North side of Laredo.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, Mid - South</u>									
An outflow boundary from MCS over the San Antonio area pushed into McMullen and Duval counties during the late morning. An isolated super cell developed out ahead of boundary. A weak and short-lived tornado was spun up as the supercell intersected the outflow boundary. The supercell continued moving southeast along the outflow boundary through Duval County.									
Nueces County									
Corpus Christi	10	1115CST 1415CST			0	0			Flash Flood
The Corpus Christi Police Department reported flooding of the access roads along South Padre Island Drive around Everhart. Additional widespread flooding was reported on various roads through the central and southern sections of the city. Four inches of rain was reported to have fallen by the public near Airline and Alameda in Corpus Christi.									
Kleberg County									
3 WSW Loyola Beach	10	1315CST 1415CST			0	0			Flash Flood
Flooding reported along County Road 620.									
San Patricio County									
3 SE Gregory	10	1315CST 1415CST			0	0			Flash Flood
Flooding reported along State Highway 361.									
An outflow boundary (from an earlier squall line over the Rio Grande Plains) pushed into the Coastal Bend and stalled. The boundary provided good convergence with the low level jet set up along the coast. Convection was enhanced by an upper level shortwave, which was traversing the south-central part of the state, and upper level divergence with the sub-tropical jet nosing into the region. Deep moisture from the Gulf of Mexico was in place with morning soundings indicating precipitable water values near 2 inches. Training of thunderstorms occurred primarily over portions of Kleberg, central and eastern Nueces, and southern San Patricio Counties. CRP WSR-88D estimated the heaviest rainfall of 3-4 inches to have fallen in Corpus Christi between Rodd Field Road and Airline and near Ocean Drive and Airline. Widespread 2-3 inch amounts were indicated by doppler radar over the south and central parts of the city and along South Padre Island Drive.									
La Salle County									
Cotulla Muni Arprt	13	1813CST			0	0			Thunderstorm Wind (G60)
La Salle County									
Encinal	13	1820CST			0	0			Thunderstorm Wind (G57)
Large trees down around Encinal. Reported by NWS Co-op observer.									
Memullen County									
Tilden	13	1920CST			0	0			Thunderstorm Wind (G52)
County sheriff reported several large trees down in Tilden.									
Webb County									
40 NE Laredo	13	1930CST			0	0			Thunderstorm Wind (G52)
60 mph wind gust reported by Border Patrol checkpoint 16 miles southwest of Freer on U.S. 59.									
Goliad County									
Charco	13	2012CST			0	0			Thunderstorm Wind (G57)
Large trees down all over Charco. Reported by Goliad County EMC.									
Goliad County									
2 NE Weesatche	13	2042CST			0	0			Thunderstorm Wind (G57)
Public report of roof damage and semi-truck overturned near Ander.									
Victoria County									
Mission Vly	13	2056CST			0	0			Thunderstorm Wind (G57)
Skywarn Spotter reported trees uprooted.									
Victoria County									
15 W Victoria	13	2105CST			0	0			Thunderstorm Wind (G57)
Skywarn spotter reported large trees down near Coleta Creek.									
Aransas County									
Rockport	13	2144CST			0	0			Thunderstorm Wind (G52)
County sheriff reported downed power lines.									

Supercells west of CRP County Warning Area developed strong cold pool and organized into squall line across Rio Grande Plains. Squall line moved east across South Texas during the evening of the 13th producing mainly straight-line wind damage.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
<u>TEXAS, Mid - South</u>									
<u>TEXAS, North</u>									
Mills County									
5 SE Goldthwaite	02	1238CST			0	0			Thunderstorm Wind (G52)
Lampasas County									
Lometa	03	1925CST			0	0			Hail (0.75)
Comanche County									
Newburg	03	2130CST			0	0			Hail (1.75)
Mills County									
6 W Priddy	03	2145CST			0	0	3K		Hail (1.75)
			Windshield damage from large hail.						
Hood County									
Acton	04	0022CST			0	0			Thunderstorm Wind (G52)
			A tree was blown down by high winds.						
Lampasas County									
Adamsville	05	0546CST			0	0	2K		Thunderstorm Wind (G52)
			A garage was damaged by high winds.						
Mills County									
10 W Goldthwaite	08	0820CST			0	0	20K		Lightning
			27 goats and some cows were killed by lightning.						
Mills County									
Goldthwaite	08	0828CST			0	0			Thunderstorm Wind (G52)
			Occurred at Lake Merrit.						
Mills County									
Goldthwaite	08	0838CST			0	0			Thunderstorm Wind (G52)
			A large pecan tree was blown down by high winds.						
Montague County									
Nocona	10	2133CST			0	0			Hail (0.75)
Montague County									
Nocona	10	2133CST			0	0			Hail (0.75)
Cooke County									
2 S Gainesville	10	2233CST			0	0			Thunderstorm Wind (G52)
			Two large trees were blown down by high winds.						
Jack County									
Jacksboro	11	0123CST			0	0			Thunderstorm Wind (G52)
Jack County									
10 E Jacksboro	11	0135CST			0	0			Thunderstorm Wind (G52)
Fannin County									
Ector	11	0222CST			0	0			Hail (0.75)
Lamar County									
Paris	11	0330CST			0	0	10K		Thunderstorm Wind (G52)
			Trees and power lines were blown down by high winds.						
Young County									
2 N Newcastle	11	1923CST			0	0			Thunderstorm Wind (G52)
Jack County									
Bryson	11	1952CST			0	0			Hail (1.00)
Jack County									
Jacksboro	11	2020CST			0	0	5K		Thunderstorm Wind (G52)
			Four large trees were blown down and the roof of a hotel was damaged by high winds.						
Palo Pinto County									
Mineral Wells	11	2025CST			0	0	5K		Thunderstorm Wind (G52)
			Trees and power lines were blown down by high winds.						
Jack County									
8 E Jacksboro	11	2040CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North</u>									
Wise County									
Chico	11	2049CST			0	0	5K		Thunderstorm Wind (G52)
			Power lines were blown down by high winds.						
Parker County									
Springtown	11	2105CST			0	0	15K		Thunderstorm Wind (G52)
			Numerous downed power lines, utility poles, and large tree limbs.						
Wise County									
5 N Decatur	11	2111CST			0	0	5K		Thunderstorm Wind (G61)
			Outbuildings destroyed by high winds.						
Tarrant County									
Ft Worth	11	2120CST			0	0			Thunderstorm Wind (G52)
			An 8 inch diameter tree was blown down on North Beach Street in North Ft Worth.						
Hood County									
3 N Granbury	11	2140CST			0	0			Thunderstorm Wind (G52)
			Large tree limbs were broken by high winds.						
Denton County									
2 SW Lewisville	11	2141CST			0	0	15K		Thunderstorm Wind (G52)
			Roof damage was reported by a spotter. A home under construction had the second story blown off by high winds.						
Dallas County									
Richardson	11	2152CST			0	0	5K		Thunderstorm Wind (G52)
			Power lines were blown down on the south side of Plano near the Richardson city limits.						
Hamilton County									
12 N Hamilton	11	2153CST			0	0	5K		Thunderstorm Wind (G52)
			A 40 foot porch was blown off a home on FM 219.						
Collin County									
Frisco	11	2155CST			0	0	5K		Thunderstorm Wind (G52)
			Power lines were blown down by high winds.						
Grayson County									
Sherman	11	2159CST			0	0			Hail (0.75)
Tarrant County									
Haltom City	11	2200CST			0	0	60K		Lightning
			A lightning started fire destroyed a house.						
Bosque County									
Clifton	11	2230CST			0	0			Thunderstorm Wind (G52)
			Two large trees were blown down by high winds.						
McLennan County									
China Spg	11	2245CST			0	0			Thunderstorm Wind (G52)
			Trees were blown down by high winds.						
Grayson County									
Bells	11	2247CST			0	0	5K		Thunderstorm Wind (G52)
			High winds damaged a mobile home roof and blew trees down.						
Kaufman County									
Kaufman	11	2250CST			0	0			Thunderstorm Wind (G52)
			A tree was blown down by high winds.						
Fannin County									
Bonham	11	2300CST			0	0			Thunderstorm Wind (G52)
			Unknown wind damage was reported by law enforcement.						
Hill County									
Hillsboro	11	2330CST			0	0	500K		Lightning
			A lightning started fire destroyed a church.						
Anderson County									
15 N Palestine	12	0115CST			0	0			Thunderstorm Wind (G52)
			Several trees were blown down at the intersection of Highway 19 and Highway 315.						
Henderson County									
.5 N Eustace	12	0745CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North</u>									
Navarro County									
Frost	12	1655CST			0	0			Thunderstorm Wind (G52)
			Trees were blown down by high winds.						
Young County									
2 E Olney to 4 E Olney	12	1655CST 1712CST			0	0			Hail (1.75)
			Quarter to golfball size hail occurred.						
Young County									
4 W Olney	12	1657CST			0	0			Hail (1.00)
Young County									
4 W Olney	12	1657CST 1659CST	0.1	50	0	0			Tornado (F0)
			Brief touchdown.						
Freestone County									
Fairfield	12	1742CST			0	0	2K		Thunderstorm Wind (G52)
			Power lines were blown down by high winds.						
Falls County									
Marlin	12	1755CST			0	0			Thunderstorm Wind (G61)
Jack County									
Jermyn	12	1755CST			0	0			Hail (0.75)
Limestone County									
Mexia	12	1755CST			0	0			Thunderstorm Wind (G52)
			Several trees were blown down by high winds.						
Leon County									
Normangee	12	1830CST			0	0			Thunderstorm Wind (G52)
			Trees were blown down by high winds.						
Young County									
Newcastle	12	1842CST			0	0			Hail (1.75)
Young County									
Newcastle	12	1842CST			0	0			Hail (1.75)
Young County									
2 S Newcastle	12	1844CST			0	0			Hail (0.75)
Young County									
South Bend	12	1910CST			0	0			Hail (0.88)
Young County									
South Bend	12	1910CST			0	0			Hail (0.88)
Palo Pinto County									
Graford	12	1948CST			0	0			Hail (1.00)
Palo Pinto County									
3 W Graford to Graford	12	1948CST			0	0			Hail (1.00)
Palo Pinto County									
3 SE Possum Kingdom I	12	2000CST			0	0			Hail (2.00)
Bosque County									
Iredell	12	2055CST			0	0			Hail (1.00)
Bosque County									
Iredell	12	2155CST			0	0			Hail (1.00)
Bosque County									
Meridian	12	2310CST			0	0			Hail (1.00)
Montague County									
Bowie	13	0050CST			0	0			Hail (1.00)
Montague County									
Bowie	13	0050CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North</u>									
Tarrant County									
Colleyville	13	0330CST			0	0	450K		Lightning
Three homes in Colleyville were hit by lightning. One home valued at 340,000 dollars, was completely destroyed. The other two homes were heavily damaged.									
Tarrant County									
Grapevine	13	0400CST			0	0	96K		Lightning
A lightning started fire completely destroyed a house.									
Bell County									
Bartlett	13	1619CST			0	0			Thunderstorm Wind (G57)
Trees were blown down by high winds.									
Collin County									
Allen	14	1623CST			0	0			Hail (1.50)
Collin County									
Plano	14	1640CST			0	0			Hail (1.00)
Dallas County									
Rowlett	14	1730CST			0	0	2K		Thunderstorm Wind (G52)
High winds broke windows and damaged a wall.									
Palo Pinto County									
6 NW Palo Pinto	14	1930CST			0	0			Hail (1.75)
Jack County									
Bryson	14	1940CST			0	0			Hail (1.00)
Palo Pinto County									
Palo Pinto	14	1943CST			0	0			Hail (1.75)
Montague County									
6 N Forestburg	14	1956CST			0	0			Hail (1.00)
Palo Pinto County									
Gordon	14	2058CST			0	0			Thunderstorm Wind (G52)
4 inch diameter limbs blown down by high winds.									
Erath County									
Morgan Mill	14	2118CST			0	0			Hail (0.88)
Erath County									
Morgan Mill	14	2118CST			0	0			Hail (0.88)
Reported by the co-op observer.									
Comanche County									
7 N De Leon	14	2330CST			0	0			Hail (0.75)
Reported by Coop Observer.									
Erath County									
6 SE Stephenville	14	2342CST			0	0			Hail (1.75)
Bosque County									
Morgan	15	0045CST			0	0	2K		Thunderstorm Wind (G52)
Trees were blown down by high winds.									
Hamilton County									
Carlton	15	0055CST			0	0			Thunderstorm Wind (G52)
Hamilton County									
Hico	15	0055CST			0	0			Hail (0.88)
Hill County									
Aquilla	15	0136CST			0	0			Thunderstorm Wind (G52)
Trees were blown down by high winds.									
McLennan County									
West	15	0148CST			0	0			Thunderstorm Wind (G52)
Large tree limbs were blown down by high winds near Bruceville.									
Limestone County									
Coolidge	15	0215CST			0	0	2K		Thunderstorm Wind (G52)
Large tree limbs were broken by high winds.									
McLennan County									
Mc Gregor	15	0227CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North</u>									
Bell County									
1 N Troy to 5 N Troy	15	0330CST 0338CST			0	0			Hail (1.00)
McLennan County									
Bruceville	15	0335CST			0	0			Hail (1.00)
<u>TEXAS, North Panhandle</u>									
Potter County									
Amarillo	01	1501CST			0	0			Hail (0.75) An isolated severe thunderstorm over the city of Amarillo during the late afternoon hours produced some hail.
Dallam County									
13 S Texline	02	1925CST			0	0			Hail (1.75)
Randall County									
15 ESE Canyon	03	0005CST 0200CST			0	0			Flash Flood Low water crossings were flooded in Palo Duro Canyon State Park. A severe thunderstorm over the extreme northwestern Texas panhandle during the evening hours produced large hail. Very heavy rainfall over the south-central Texas panhandle resulted in flash flooding during the late night hours.
Deaf Smith County									
25 WSW Hereford	03	1729CST			0	0			Hail (1.00)
Deaf Smith County									
26 NW Hereford	03	1837CST 1848CST	0.2	50	0	0			Tornado (F0) Two tornadoes were reported over open country with no damage or injuries reported. The path length and path width were estimated.
Deaf Smith County									
25 NW Hereford	03	1900CST			0	0			Hail (1.75)
Deaf Smith County									
23 W Hereford	03	1908CST 1911CST	0.1	25	0	0			Tornado (F0) The tornado remained over open country and no damage or injuries were reported. The path length and path width were estimated.
Deaf Smith County									
18 NW Hereford	03	1910CST			0	0			Hail (1.00)
Deaf Smith County									
11 N Hereford	03	1925CST			0	0			Hail (0.75)
Deaf Smith County									
19 N Hereford	03	1925CST			0	0			Hail (1.00)
Randall County									
5 W Umbarger	03	1956CST			0	0			Hail (0.75)
Deaf Smith County									
11 N Hereford	03	2000CST 2100CST			0	0			Flash Flood The intersection of U.S. Highway 385 and Farm to Market Road 1057 was reported to be underwater. Severe thunderstorms over the southwestern Texas panhandle during the evening hours produced large hail and a couple of tornadoes. No damage or injuries were reported from these tornadoes. Very heavy rainfall did result in flash flooding over the southwestern Texas panhandle.
Dallam County									
5 NE Texline	04	1414CST			0	0	70K	280K	Hail (1.75) The large hail broke out all of the skylights in a house and barn plus all of the windows in the the house and tore siding off the house. At least one thousand and five acres of corn, three thousand acres of wheat, and two thousand acres of feed milo plus an additional fourteen circles of corn and wheat were destroyed by the hail.
Dallam County									
Texline	04	1514CST			0	0	125K		Thunderstorm Wind (G70) Four sprinklers loaded with water were picked up...twisted and then turned over by the high winds.
Dallam County									
Texline	04	1516CST			0	0			Hail (0.75)
Oldham County									
2 N Vega	04	1829CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
TEXAS, North Panhandle									
Deaf Smith County									
12 N Hereford	04	1856CST 2000CST			0	0			Flash Flood
		Major street flooding reported in the town of Milo.							
Randall County									
Umbarger	04	1906CST 2030CST			0	0			Flash Flood
		Major street flooding reported in the town of Umbarger.							
Randall County									
Umbarger	04	1906CST			0	0			Thunderstorm Wind (G52)
Deaf Smith County									
22 NW Hereford	04	1910CST 2100CST			0	0			Flash Flood
		Major street flooding reported in the town of Simms. Severe thunderstorms moved across the western Texas panhandle during the afternoon and evening hours producing large and damaging hail...damaging winds...and major flash flooding. No damage was reported as a result of the flash flooding and there were no reports of injuries from this event.							
Sherman County									
Stratford	05	1502CST			0	0			Thunderstorm Wind (G56)
Sherman County									
Stratford	05	1506CST			0	0			Hail (0.75)
Hansford County									
6 S Spearman	05	1627CST			0	0	100K		Thunderstorm Wind (G70)
		Numerous power poles were reported broken.							
Hansford County									
6 SE Spearman	05	1630CST			0	0	550K		Thunderstorm Wind (G78)
		A damage assessment was made on this event in which it was determined that a combination of straight-line winds and a tornado...which occurred almost simultaneously...resulted in considerable damage across the southern half of Hansford county. There was moderate damage to barns...outbuildings...and farm equipment along with damage to fences...large trees...and irrigation sprinklers. The evidence suggests that most of the significant damage was the result of the straight-line downburst winds rather than from the tornado. No injuries were reported from the straight-line downburst winds.							
Hansford County									
6 S Spearman to 6 SE Spearman	05	1630CST 1635CST	4	440	0	0	600K		Tornado (F0)
		A damage survey was made on this tornado. Minor damage occurred on a farm home with major damage to several grain elevators and to buildings and other structures on the premises. No injuries were reported from the tornado.							
Oldham County									
8 SE Vega	05	1702CST			0	0			Hail (1.00)
Oldham County									
Wildorado	05	1720CST			0	0	20K		Hail (1.00)
		The windows of some houses were broken by the large hail.							
Oldham County									
Wildorado	05	1722CST			0	0			Hail (1.75)
Randall County									
10 SW Amarillo	05	1734CST			0	0			Hail (0.75)
Hemphill County									
Canadian	05	1745CST			0	0			Thunderstorm Wind (G52)
Lipscomb County									
1 NE Follett	05	1745CST			0	0			Thunderstorm Wind (G52)
Randall County									
5 N Buffalo Lake	05	1745CST			0	0			Hail (0.88)
Deaf Smith County									
3 N Dawn	05	1749CST			0	0			Hail (1.75)
Lipscomb County									
2 NE Follett	05	1750CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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 Panhandle									
Lipscomb County									
2 NE Follett	05	1750CST			0	0			Thunderstorm Wind (G52)
Randall County									
6 N Buffalo Lake	05	1752CST			0	0			Hail (1.75)
Randall County									
2 W Canyon	05	1753CST			0	0			Thunderstorm Wind (G52)
Randall County									
Canyon	05	1755CST			0	0			Hail (0.88)
Randall County									
3 S Canyon	05	1805CST			0	0			Hail (0.75)
Randall County									
Canyon	05	1820CST 2115CST			0	0	80K		Flash Flood
<p>Major flash flooding in the city of Canyon. Numerous roads were closed and garbage dumpsters were reported floating down the street. Bar ditches were reported overflowing. One home received damage by flood waters on Country Club Road and two other homes had their basements flooded. There was a high water vehicle rescue performed in Canyon at the intersection of Country Club Road and Rockwell Road when a woman drove her vehicle into flood waters which then swept her vehicle into the ditch. The water was reported to be up to her vehicle's windows. The woman was rescued by the Canyon Fire Department and no injuries occurred.</p>									
Randall County									
5 SE Canyon	05	1820CST			0	0			Hail (0.75)
<p>Severe thunderstorms moved across the western...south-central and northern Texas panhandle during the late afternoon and evening hours. The severe storms produced damaging winds and large hail along with an isolated tornado and flash flooding. There was considerable damage caused by the high winds...tornado and flash flooding however no injuries were reported.</p>									
Randall County									
3.5 E Buffalo Lake	09	1722CST			0	0			Hail (0.75)
Hutchinson County									
Bunavista	09	1730CST			0	0			Hail (1.00)
Hutchinson County									
Borger	09	1741CST			0	0			Hail (1.00)
Hansford County									
Spearman	09	1822CST			0	0			Hail (1.00)
Hansford County									
Spearman	09	1825CST			0	0			Hail (1.00)
Ochiltree County									
Farnsworth	09	1837CST			0	0			Hail (0.88)
Ochiltree County									
Waka	09	1837CST			0	0			Hail (0.88)
Ochiltree County									
2 S Perryton	09	1859CST			0	0			Hail (0.88)
<p>Severe thunderstorms producing large hail during the early evening hours moved across the central and northeastern Texas panhandle.</p>									
Hartley County									
Channing	12	2310CST			0	0			Hail (0.88)
	13	2310CST							
Oldham County									
Boys Ranch	12	2321CST			0	0			Hail (1.75)
Oldham County									
Boys Ranch	12	2325CST			0	0			Hail (2.75)
Potter County									
23 NW Amarillo	12	2350CST			0	0			Hail (0.88)
Potter County									
23 NW Amarillo	13	0000CST			0	0			Hail (1.75)
<p>Severe thunderstorms during the late evening hours produced large hail across the western Texas panhandle.</p>									
Lipscomb County									
Booker	13	1616CST			0	0			Hail (0.88)
Lipscomb County									
3 NW Booker	13	1630CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North Panhandle</u>									
Ochiltree County									
15 SE Perryton	13	1630CST			0	0			Hail (0.75)
Lipscomb County									
14 SW Lipscomb	13	1714CST			0	3	55K		Thunderstorm Wind (G61)
High winds reportedly caused an empty trailer of a semi truck to slide into an automobile and then overturn along US Highway 83 in the southwest corner of Lipscomb County. Three people in the automobile were reportedly injured.									
Moore County									
Masterson	13	1740CST			0	0			Hail (0.88)
Lipscomb County									
10 W Lipscomb	13	1748CST 1900CST			0	0			Flash Flood
Flooding was reported over the road at the junction of U.S. Highway 83 and State Highway 23.									
Hemphill County									
Canadian	13	1815CST			0	0			Hail (0.88)
Hansford County									
Spearman	13	1825CST			0	0			Hail (1.75)
Hemphill County									
Canadian	13	1830CST			0	0			Hail (0.88)
Hemphill County									
Canadian	13	1830CST			0	0	250K		Thunderstorm Wind (G70)
Tractor trailer rig was overturned and totaled by the strong winds.									
Oldham County									
Wildorado	13	1835CST			0	0			Hail (1.00)
Moore County									
Dumas	13	1841CST			0	0			Hail (0.88)
Hemphill County									
Canadian	13	1845CST 2030CST			0	0	125K		Flash Flood
Numerous reports of street flooding in the city of Canadian along with three homes flooded. No injuries were reported from the flash flooding.									
Moore County									
4 E Dumas	13	1845CST			0	0			Hail (1.00)
Moore County									
Dumas	13	1856CST			0	0			Hail (1.75)
Hutchinson County									
4 W Stinnett	13	1906CST			0	0			Hail (1.00)
Oldham County									
Vega to 4 S Vega	13	1912CST 2130CST			0	0			Flash Flood
Water was reported over the road on the Frontage Road on the north side of Interstate 40 between Vega and Adrian. Also...a truck driver reported eight to nine inches of water on U.S. Highway 385 four miles south of Vega for a length of a hundred and sixty feet.									
Deaf Smith County									
Hereford	13	1926CST			0	0			Thunderstorm Wind (G52)
Ochiltree County									
16 SE Perryton	13	1950CST 2100CST			0	0			Flash Flood
Major flooding along U.S. Highway 83 with water covering the road.									
Deaf Smith County									
Hereford	13	2004CST 2115CST			0	0			Flash Flood
Major street flooding in the city of Hereford. Severe thunderstorms produced large hail...damaging winds and flash flooding across the southwestern...central and northeastern Texas panhandle during the late afternoon and evening hours. Damage was reported due to the high winds and flash flooding. There were three injuries reported in an accident caused by high winds in southwest Lipscomb County.									
Deaf Smith County									
Hereford	18	1409CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North Panhandle</u>									
Deaf Smith County									
1 SW Hereford	18	1415CST			0	0			Hail (1.50)
Severe thunderstorms produced large hail over the southwestern Texas panhandle during the afternoon hours.									
Hartley County									
(Dht)Dalhart Muni Ar	20	1637CST			0	0			Thunderstorm Wind (G53)
Hartley County									
Channing	20	1701CST			0	0			Thunderstorm Wind (G52)
Numerous tree limbs were reported blown down in the town of Channing.									
Moore County									
Dumas	20	1740CST			0	0			Hail (0.88)
Moore County									
Dumas	20	1744CST			0	0			Hail (0.75)
Deaf Smith County									
8 SW Hereford	20	1905CST			0	0	280K		Thunderstorm Wind (G90)
A metal barn was reported destroyed and a cotton stripper was lifted and tossed by the high winds.									
Potter County									
Amarillo	20	1945CST 2130CST			0	0			Flash Flood
Two cars were submerged in underpass but occupants escaped safely. Major street flooding reported across central and eastern Amarillo.									
Randall County									
Amarillo	20	1945CST 2130CST			0	0			Flash Flood
Major street flooding reported across central and southern Amarillo with some streets impassable.									
Randall County									
15 ESE Canyon	20	2052CST 2200CST			0	0			Flash Flood
Low water crossings reported impassable due to two to three feet of fast moving water at Palo Duro Canyon State Park. The low water crossings were barricaded.									
Severe thunderstorms developed during the early evening hours across the western and central sections of the Texas panhandle producing damaging winds...hail...and flooding rains.									
Hartley County									
7 S Dalhart	23	1635CST			0	0			Hail (1.00)
Oldham County									
Adrian	23	1650CST			0	0			Hail (0.75)
Dallam County									
8 NW Dalhart	23	1715CST			0	0			Hail (0.88)
Sherman County									
8 SE Stratford	23	1745CST			0	0	15K		Thunderstorm Wind (G52)
Power lines were reported blown down due the high winds.									
Severe thunderstorms producing damaging winds and large hail moved across the western and northern Texas panhandle during the early evening hours.									
Hartley County									
Hartley	28	2135CST			0	0			Hail (1.00)
Hartley County									
Hartley	28	2144CST			0	0			Hail (0.88)
Hartley County									
4 E Hartley	28	2148CST			0	0			Hail (1.75)
Hartley County									
Hartley	28	2148CST			0	0			Hail (1.75)
Moore County									
Dumas	28	2208CST			0	0			Hail (1.00)
Severe thunderstorms producing large hail moved across the northwestern and central Texas panhandle during the evening hours.									
Deaf Smith County									
20 N Hereford	29	1957CST			0	0			Hail (1.00)
Potter County									
23 NW Amarillo	29	2103CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, North Panhandle</u>									
Potter County									
23 NW Amarillo	29	2110CST			0	0	1K		Hail (2.75)
Several automobile windshields broken from the large hail. Severe thunderstorms over the southwest and south-central Texas panhandle produced some large and damaging hail during the late evening hours. No injuries were reported from the hail.									
<u>TEXAS, Northeast</u>									
Angelina County									
11 NW Lufkin	10	1610CST			0	0			Thunderstorm Wind (G52)
Several large trees down.									
Smith County									
5 NE Tyler	10	1645CST			0	0			Thunderstorm Wind (G52)
Tress and power lines toppled.									
Nacogdoches County									
Cushing	10	1655CST			0	0			Thunderstorm Wind (G55)
Several large trees down.									
Panola County									
Gary	10	1700CST			0	0			Thunderstorm Wind (G56)
Several large to medium size trees down.									
Harrison County									
3 S Karnack	10	1720CST			0	0			Thunderstorm Wind (G55)
Numerous trees and power lines down.									
Panola County									
Deadwood	10	1725CST			0	0			Thunderstorm Wind (G52)
Several large trees down.									
Harrison County									
15 NW Marshall	10	1748CST			0	0			Thunderstorm Wind (G55)
Numerous trees and power lines down.									
Marion County									
Smithland	10	1750CST			0	0			Thunderstorm Wind (G55)
Numerous large to medium size trees down.									
Bowie County									
Texarkana	10	1914CST			0	0	40K		Thunderstorm Wind (G55)
Trees fell across a house causing moderate damage.									
Red River County									
7 N Clarksville	11	0330CST			0	0			Thunderstorm Wind (G65)
Power lines were toppled by the high winds.									
Bowie County									
Texarkana	11	0450CST			0	0			Thunderstorm Wind (G55)
Numerous power lines and trees toppled throughout the Texas side of Texarkana.									
Wood County									
Countywide	12	1405CST			0	0			Thunderstorm Wind (G55)
Trees and power lines down across the county.									
Nacogdoches County									
Martinsville	12	1714CST			0	0			Thunderstorm Wind (G52)
Numerous trees down along State Highway 7.									
San Augustine County									
5 NW Broaddus	12	1810CST			0	0			Thunderstorm Wind (G56)
Numerous trees down along FM 1277.									
San Augustine County									
5 E San Augustine	12	1810CST			0	0			Thunderstorm Wind (G55)
Numerous trees down along Hwy 21.									
Shelby County									
4 SW Joaquin	13	1100CST			0	0			Lightning
As thunderstorms moved across the area lightning struck the J. C. Black Salt Water Disposal system setting it on fire. No injuries were reported and no amount of damages were available.									
Harrison County									
Marshall	14	1835CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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, Northeast</u>									
Panola County									
2 E Carthage	14	2055CST			0	0			Thunderstorm Wind (G55)
			Several large trees down.						
Gregg County									
Longview	15	1830CST 1920CST			0	0			Flash Flood
			Several streets were closed due to high water.						
Bowie County									
Texarkana	16	0720CST 1120CST			0	0			Flash Flood
			Water was up to the bumpers of cars with numerous cars stalled. Water encroached on homes between 3300 block of Texas Blvd and State Line Road with several families stranded.						
Smith County									
Tyler	16	1440CST 1640CST			0	0			Flash Flood
			Several cars stalled in high water on the south side of town.						
Bowie County									
Texarkana	16	2030CST 2300CST			0	0			Flash Flood
			High water covering numerous roads closing many.						
Rusk County									
Henderson	17	0200CST 0500CST			0	0			Flash Flood
			Numerous roads were under water and water entered one house.						
Rusk County									
Henderson to 2 S Henderson	17	0310CST 0630CST			0	0			Flash Flood
			Water entered an apartment complex on West Main St while numerous roads including FM 225 were under water and closed.						
Upshur County									
Ore City	17	2110CST 2300CST			0	0			Flash Flood
			High water across FM 852 just northwest of town.						
<u>TEXAS, South</u>									
Zapata County									
Zapata	03	1945CST			0	0			Thunderstorm Wind (G65)
			Emergency management coordinator reported wind damage from very strong thunderstorms. The coordinator reported medium sized trees uprooted, sheet metal blown off roofs, and the covering of a little league bleacher destroyed.						
Cameron County									
3 E Bayview to 4 E Bayview	06	1921CST			0	0			Thunderstorm Wind (G60)
			Strong thunderstorm winds produced extensive damage to trees and tree limbs.						
Zapata County									
Zapata	14	0215CST			0	0	2K		Thunderstorm Wind (G52)
			Emergency management official reported minor damage to homes from thunderstorm winds.						
<u>TEXAS, South Central</u>									
Llano County									
5 SE Kingsland Sunrise	02	1401CST 1402CST	0.3	30	0	0	0	0	Tornado (F0)
			A small and short-lived tornado was spotted by a Lower Colorado River Authority ranger near Horseshoe Bay. It touched down briefly, then lifted without causing damage.						
Kendall County									
Sisterdale	02	1500CST 1515CST			0	0	0	0	Hail (1.25)
Comal County									
New Braunfels	02	1540CST 1550CST			0	0	20K	0	Thunderstorm Wind (G59)
			An NWS off-duty employee reported that high winds, estimated near 65 mph, had knocked down trees in New Braunfels.						

Storm Data and Unusual Weather Phenomena

June 2003

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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TEXAS, South Central

Hays County

San Marcos	02	1540CST 1545CST			0	0	0	0	Hail (0.75)
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Hays County

3 NW San Marcos to 2 SE San Marcos	02	1545CST 1600CST			0	0	7M	0	Thunderstorm Wind (G60)
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A line of thunderstorms formed along a cold front in central Texas and moved quickly southward. As the storms moved through Hays County, they produced a downburst that struck the town of San Marcos and spread southeastward into Caldwell County. An NWS Storm Survey Team reported numerous large tree limbs of diameter from 6 to 12 inches broken or blown over in San Marcos and along the I-35 corridor. Blown over trees and limbs were generally pointed toward a southeast direction. Many business signs and awnings were damaged along with roof damage to several businesses. Metal or tin roof in some businesses was peeled off on the side of the incoming high winds. Based on the damage and its pattern, it appeared that damage was the result of straight line winds indicative of a strong downburst estimated at 60 knots or greater. The strong winds also toppled over a semi truck. At Dudley Johnson Park the winds knocked over portable toilets and blew down numerous trees across the roads. Total damage in the town was estimated at \$7 million.

Caldwell County

4 NW Martindale to 3 SE Martindale	02	1600CST 1620CST			0	0	13M	0	Thunderstorm Wind (G90)
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As the downburst crossed the Hays County line into Caldwell County, it struck the San Marcos Airport located in extreme eastern Caldwell County. The severe winds caused nearly \$7 million in damages to hangars and to between 25 and 30 general aviation aircraft. As it exited the airport, the downburst moved across the Gary Job Corps Center, damaging buildings and knocking over trees. An additional \$5 million damage was estimated at the campus. The downburst moved past the campus, across open country and through the town of Martindale. Amateur Radio operators reported trees blown down and damage to numerous roofs, vehicles and fences from west of Martindale and throughout the town. Winds in the event at the airport were estimated at between 80 and 90 knots.

Kendall County

5 N Boerne	03	1300CST 1315CST			0	0	10K	0	Thunderstorm Wind (G55)
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A severe thunderstorm winds blew down trees north of Boerne.

Medina County

Castroville to Lacoste	03	1430CST 1456CST			0	0	0	0	Hail (0.88)
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Wilson County

Saspamco	03	1515CST 1517CST	0.3	30	0	0	3K	0	Tornado (F1)
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The small and short-lived tornado struck shortly after 4 pm...damaging the roof of a home. Residents reported strong winds followed by heavy rain and then hail. Following the hail, conditions became very quiet and calm just prior to the tornado. The storm then struck several large trees as it moved toward the southeast. The first tree struck had a diameter of 1 foot. It was broken and laid down toward the north. The second tree, with a diameter of 1.5 feet, was broken off near the ground and laid down toward the southeast. The third tree, located to the southeast of the other two and with a diameter of 1 foot, was twisted out of the ground and laid down toward the south. The width of the tornado track was 20 yards and the length of the path was estimated at .25 miles. The tornado was rated as an F1. It is possible that the tornado might have formed in Bexar County before moving into extreme northwest Wilson County, but that could not be clearly established.

Atascosa County

Countywide	03	1525CST 1545CST			0	0	100K	0	Thunderstorm Wind (G60)
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Spotty damage was seen across northern Atascosa County during an NWS survey. The most significant damage was across the western part of the county. In Pleasanton, only minor damage to tree branches was noted, but in Jourdanton, severe thunderstorm winds took parts of a roof off a restaurant at the intersection of SH16 and FM97. The Atascosa County Sheriff's Department had received reports of strong wind damage along Ogden Road west of Jourdanton. One rancher reported over 90 trees knocked over by the wind. Damage to large tree limbs was indicated along FM97 west of Jourdanton and along FM1333 north of Charlotte. All this damage appeared to have been caused by severe thunderstorm winds.

Atascosa County

8 W Poteet to 7.9 W Poteet	03	1526CST 1527CST	0.1	30	0	0	40K	0	Tornado (F0)
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The public reported that a short-lived and small tornado touched down west of Poteet shortly after the strong winds had begun. The tornado knocked over several trees, then lifted up and dissipated.

Atascosa County

6 W Jourdanton to 5.9 W Jourdanton	03	1535CST 1537CST	0.2	50	0	0	30K	0	Tornado (F0)
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A small tornado struck just west of Jourdanton, knocking over trees and power lines. It was observed by a deputy sheriff as it moved nearly a quarter mile before dissipating. No other damage was indicated.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, South Central</u>									
Llano County									
Kingsland	04	0005CST 0015CST			0	0	30K	0	Thunderstorm Wind (G60)
Thunderstorm winds knocked down trees in Kingsland. Wind gusts were measured at 60 knots by the School Weather Network at the Kingsland Library.									
Kendall County									
Boerne	04	0015CST 0025CST			0	0	50K	0	Thunderstorm Wind (G60)
Severe thunderstorm winds knocked over trees and blew down power lines in Boerne. The winds also took off a portion of the roof of St. Peter's Catholic Church.									
Kerr County									
Hunt to Center Pt	04	0025CST 0055CST			0	0	80K	0	Thunderstorm Wind (G65)
Thunderstorm wind gusts estimated at between 55 and 65 knots blew down trees and power lines in the Ingram area. Three hundred homes were without power early Wednesday morning.									
Val Verde County									
Amistad Res East	09	2330CST 2345CST			0	0	20K	0	Thunderstorm Wind (G55)
Severe thunderstorm wind gusts estimated at 55 knots blew down trees at Lake Amistad.									
Real County									
South Portion	10	0330CST 0830CST			0	0	10K	0	Flash Flood
Heavy rain began falling over southern Real County shortly after midnight. By 3 am CST, nearly 4 inches of rain had fallen over the area and low water crossings were beginning to collect water. At 3:30 am CST, SH337 was closed between Leakey and Camp Wood due to the high water. The rain ended over the county near 7 am CST and the flash flooding ended near 8:30 am CST.									
Bandera County									
West Portion	10	0400CST 0800CST			0	0	20K	0	Flash Flood
Heavy rain began falling just after midnight in Bandera County, producing a general 1 to 2 inch rain over the western part of the County, with isolated totals of up to 5 inches. Flash flooding developed shortly before sunrise and continue through the early morning.									
Bexar County									
San Antonio	10	0600CST 0610CST			0	0	50K	0	Thunderstorm Wind (G55)
Severe thunderstorm winds blew down trees and destroyed a \$35K canopy at Wolff stadium in western San Antonio.									
Val Verde County									
5 S Pandale	11	1610CST 1620CST			0	0	0	0	Hail (0.88)
Val Verde County									
Langtry	11	1945CST 1955CST			0	0	0	0	Hail (1.75)
Val Verde County									
1 N Pandale	13	0910CST 0920CST			0	0	0	0	Hail (0.88)
Williamson County									
Liberty Hill	13	1523CST 1525CST			0	0	5K	0	Thunderstorm Wind (G50)
Severe thunderstorm wind gusts to 50 knots were measured at the Liberty Hill Middle School by the School Weather Network. No damage was indicated.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, South Central</u>									
Travis County									
Austin	13	1545CST 1600CST			0	0	100K	0	Thunderstorm Wind (G56)
Strong thunderstorms struck the Austin metropolitan area. Severe thunderstorm wind gusts to 56 knots were measured at 1534CST at the Texas School for the Deaf by the School Weather Network. Winds damaged buildings at the intersection of US183 and Burnet Road in north Austin. A tin roof was partially blown off an adjoining shopping plaza and was blown eastward into an adjacent service station and convenience store.									
Caldwell County									
Countywide	13	1600CST 1625CST			0	0	70K	0	Thunderstorm Wind (G55)
Severe thunderstorm winds blew down trees across much of Caldwell County.									
Williamson County									
Bartlett	13	1610CST 1620CST			0	0	30K	0	Thunderstorm Wind (G60)
Severe thunderstorm winds blew down trees in the Bartlett area. Wind gusts were estimated at 60 knots.									
Bastrop County									
Bastrop	13	1630CST 1645CST			0	0	80K	0	Thunderstorm Wind (G55)
The Bastrop Sheriff's Department reported that severe thunderstorm winds had blown down trees and knocked over power lines in Bastrop.									
Fayette County									
La Grange	13	1700CST 1715CST			0	0	80K	0	Thunderstorm Wind (G55)
Severe thunderstorm winds were reported by the Fayette County Sheriff's Department to have blown down trees and power lines in the LaGrange area.									
Lee County									
Giddings	13	1710CST 1720CST			0	0	10K	0	Thunderstorm Wind (G55)
The Lee County Sheriff's Department reported that severe thunderstorm winds blew down trees in the Giddings area.									
Val Verde County									
Del Rio	13	1600CST 1730CST			0	0	10K	0	Flash Flood
Heavy rain began falling in the Del Rio area in the mid afternoon, with up to 3 inch totals by 1500CST. Flash flooding began around 1600CST, with numerous reports of flash flooding over low water crossings. The flash flooding was short-lived, ending around 1730CST.									
Zavala County									
Crystal City	13	1740CST 1750CST			0	0	50K	0	Thunderstorm Wind (G55)
Severe thunderstorm winds blew down trees and power poles near Crystal City.									
Travis County									
Austin-Bergstrom Arpt	13	1759CST 1810CST			0	0	0	0	Hail (0.75)
Gillespie County									
Southwest Portion	13	1800CST 1930CST			0	0	5K	0	Flash Flood
A line of showers and thunderstorms formed along a late-season cold front and moved into the Texas Hill Country in the late afternoon. The storms produced rainfall amounts averaging between 1 and 2 inches over the southern part of Gillespie County, with isolated totals of up to 3 inches in the southwest part of the county. Brief flash flooding took place in the early evening.									

Storm Data and Unusual Weather Phenomena

June 2003

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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TEXAS, South Central

Kerr County

East Portion	13	1815CST 2000CST			0	0	5K	0	Flash Flood
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A line of showers and thunderstorms formed along a late-season cold front and moved into the Texas Hill Country in the late afternoon. The storms produced rainfall amounts over eastern Kerr County that averaged from 1 to 2 inches, with totals between 3 and 4 inches near Center Point. Flash flooding was reported between Center Point and Comfort in the early evening.

Blanco County

South Portion	13	1830CST 2030CST			0	0	5K	0	Flash Flood
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The line of showers and thunderstorms moved into Blanco County in the late afternoon, producing general rain amounts of 1 to 2 inches over the south part of the county. Highest totals were near the community of Twin Sisters, south of Blanco, where between 3 and 4 inches was reported. Flash flooding was reported on FM473 between Twin Sisters and Kendalia, in Kendall County, through the early evening.

Comal County

North Portion	13	1830CST 2100CST			0	0	10K	0	Flash Flood
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The line of showers and thunderstorms moved into Comal County in the late afternoon. Rain amounts over the northern half of the county averaged between 1 and 2 inches, with the highest totals west of Canyon Lake. The Comal Sheriff's Department reported numerous roads closed through the early evening.

Hays County

West Portion	13	1830CST 2030CST			0	0	5K	0	Flash Flood
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The line of showers and thunderstorms moved into Hays County in the late afternoon. General rain amounts of one-half to 1 inch were reported over the county, with the heaviest amounts in the western part of the county. Highest rain totals were between 3 and 4 inches near Wimberly. Flash flooding was reported along FM32 and FM12 south of Wimberly.

Kendall County

North Portion	13	1830CST 2000CST			0	0	5K	0	Flash Flood
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The line of showers and thunderstorms moved into Kendall County in the late afternoon, with rain amounts averaging between 1 and 2 inches over the northern half of the county. Highest totals were east of Kendalia where between 3 and 4 inches was reported. Flash flooding was reported on FM473 between Kendalia and Twin Sisters, in Blanco County, through the early evening.

Bexar County

Northeast Portion	13	1845CST 2030CST			0	0	5K	0	Flash Flood
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The line of showers and thunderstorms moved into Bexar County in the late afternoon, producing general rainfall of 1 to 2 inches over the northeast part of the county. Heaviest amounts were 3.5 to 4 inch totals in the Schertz area. Flash flooding was reported along Cibolo Creek north and northwest of Schertz.

Atascosa County

Poteet	13	1825CST 1835CST			0	0	30K	0	Thunderstorm Wind (G55)
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The Atascosa Sheriff's Department reported that severe thunderstorm winds blew down trees near Poteet in the north central part of the county.

Bexar County

San Antonio	13	1845CST 1900CST			0	9	30K	0	Thunderstorm Wind (G55)
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An off-duty NWS employee reported trees blown over by severe thunderstorm winds in northern San Antonio near the intersections of Blanco Road and Loop 410.

Bastrop County

East Portion	13	2000CST 2200CST			0	0	5K	0	Flash Flood
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A line of showers and thunderstorms that had swept across the Hill Country through the late afternoon period moved into Bastrop County in the evening. General rainfall over Bastrop County was between 1 and 2 inches, with accumulations of 3 to 4 inches over the southeast part of the county. Flash flooding developed briefly that evening.

Storm Data and Unusual Weather Phenomena

June 2003

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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TEXAS, South Central

Gonzales County

North Portion	13	2000CST 2200CST			0	0	5K	0	Flash Flood
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A line of showers and thunderstorms that had swept across the Hill Country through the late afternoon period moved into Gonzales County in the evening. General rainfall over Gonzales County was between 1 and 2 inches, with accumulations of up to 4 inches along and north of IH-10. The Gonzales County Sheriff's Department reported flash flooding during the late evening hours.

Lee County

South Portion	13	2000CST 2200CST			0	0	5K	0	Flash Flood
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The line of showers and thunderstorms moved into Lee County shortly before sunset, producing a general 1 to 2 inch rainfall over the county. Heaviest amounts were in the southeast part of the county, where up to 4 inches of rain was reported. Flash flooding began and ended during the late evening period.

De Witt County

Yorktown	13	2030CST 2050CST			0	0	100K	0	Thunderstorm Wind (G55)
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Severe thunderstorm winds damaged roofs of homes and businesses and broke windows in homes and vehicles in Yorktown.

Fayette County

West Portion	13	2030CST 2300CST			0	0	5K	0	Flash Flood
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The line of showers and thunderstorms reached Fayette County shortly before sunset, with general rainfall of 1 to 2 inches over the western part of the county. Totals of up to 4 inches were reported between Ledbetter and Round Top. Flash flooding developed and ended in the late evening period.

Gillespie County

8 NE Fredericksburg	15	0025CST 0035CST			0	0	0	0	Hail (0.75)
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Llano County

Tow	15	0051CST 0100CST			0	0	0	0	Hail (1.75)
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Gillespie County

North Portion	15	0100CST 0300CST			0	0	50K	0	Flash Flood
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Thunderstorms began forming in South Central Texas late on the night of June 14 spread slowly westward. Storms began in Gillespie County near 0100CST with the general 1 to 2 inch amounts over the northern part of the county. The highest accumulations were between Fredericksburg and Doss, where isolated totals were near 6 inches. Flash flooding developed near 0100CST and ended near 0300CST.

Kendall County

Boerne	15	0130CST 0140CST			0	0	100K	0	Thunderstorm Wind (G55)
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Severe thunderstorm winds blew down trees in the Boerne area. The winds also rolled over a trailer, crushing it.

Gillespie County

3 W Fredericksburg	15	0132CST 0140CST			0	0	0	0	Hail (1.75)
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Kerr County

Kerrville	15	0230CST 0245CST			0	0	30K	0	Thunderstorm Wind (G55)
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The Kerrville Fire Department reported that severe thunderstorm winds blew down several trees and a many large limbs in the Kerrville area.

Storm Data and Unusual Weather Phenomena

June 2003

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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TEXAS, South Central

Real County

17 W Leakey **15** **0500CST**
0800CST **0** **0** **5K** **0** **Flash Flood**

Showers and thunderstorms over Gillespie and Kerr Counties continued to spread southwestward into the Edwards Plateau through the early morning hours. Rainfall continued shortly past sunrise, with amounts of 2 to 3 inches over Real and Edwards Counties and northern Uvalde County. Up to 4 inches of rain was reported between Barksdale and Camp Wood along the Edwards-Real line. Flash flooding developed in and around the two towns near 0500CST, with FM337 and SH55 closed.

Uvalde County

10 W Utopia **15** **0530CST**
0930CST **0** **0** **5K** **0** **Flash Flood**

Showers and thunderstorms over Edwards and Real Counties continued to spread southward through the early morning hours. Rainfall continued shortly past sunrise, with amounts of 1 to 2 to 3 inches over northern Uvalde County. Up to 4 inches of rain was reported in and around Garner Park, with several roads closed due to flash flooding.

Val Verde County

1 N Pandale **15** **1430CST**
1440CST **0** **0** **0** **0** **Hail (0.88)**

Kendall County

South Portion **28** **1700CST**
1830CST **0** **0** **5K** **0** **Flash Flood**

Showers and thunderstorms that developed in the mid afternoon across the southern half of Kendall County and eastern Kerr County continued into late afternoon, producing general 1 to 2 inch amounts. The highest accumulations were in southern Kendall County, where between 3 and 4 inch amounts were reported. Brief flash flooding developed near 1700CST. Damage to roads and bridges was minor.

TEXAS, South Panhandle

Dickens County

Dickens **01** **0000CST** **0** **0** **75K** **Lightning**

Lightning struck a home and caused a fire that burned it down.

Swisher County

2 NE Tulia **01** **1625CST** **0** **0** **Thunderstorm Wind (G53)**

The West Texas Mesonet station northeast of town measured a 61 mph thunderstorm wind gust.

Cottle County

10 SW Paducah **01** **1915CST** **0** **0** **Thunderstorm Wind (G53)**

The West Texas Mesonet station southwest of town measured a 61 mph thunderstorm wind gust.

TXZ033

Cochran

01 **2000CST**
2005CST **0** **0** **High Wind (G50)**

Outflow from strong thunderstorms over Bailey, Lamb, and Swisher Counties moved southward into Cochran County and produced a 58 mph wind gust at the West Texas Mesonet station located 1 mile northeast of Morton.

Lubbock County

3 E New Deal **03** **1444CST** **0** **0** **50K** **Hail (0.75)**

Lubbock County

6 E New Deal **03** **1452CST** **0** **0** **300K** **Hail (1.75)**

Storm spotters reported golfball size hail.

Lubbock County

5 NW Idalou **03** **1458CST** **0** **0** **300K** **Hail (1.75)**

Amateur radio storm spotters reported golfball size hail.

Lubbock County

3 N Idalou **03** **1504CST** **0** **0** **300K** **Hail (1.75)**

Amateur radio storm spotters reported golfball size hail.

Lubbock County

Idalou **03** **1506CST** **0** **0** **300K** **Hail (1.75)**

Amateur radio storm spotters reported golfball size hail.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Lamb County									
2 N Spade	03	1543CST			0	0	250K		Hail (1.00)
Lubbock County									
3 SW Idalou	03	1602CST			0	0	300K		Hail (1.75)
Storm spotters reported golfball size hail.									
Garza County									
11 E Southland	03	1610CST			0	0			Hail (2.00)
The public reported two inch diameter hail.									
Lubbock County									
6 E Lubbock	03	1615CST			0	0	300K		Hail (1.75)
The Ransom Canyon PD reported golfball size hail.									
Lubbock County									
Slaton	03	1630CST			0	0	200K		Hail (1.00)
Lubbock County									
5 W Slaton	03	1631CST			0	0	200K		Hail (1.25)
Garza County									
6 NW Post	03	1643CST			0	0	300K		Hail (1.75)
The Garza County Sheriff's Office reported golfball size hail.									
Lynn County									
6 NE Wilson	03	1655CST			0	0	200K		Hail (1.00)
Hale County									
3 NW Abernathy	03	1658CST			0	0	200K		Hail (1.00)
Garza County									
5 SW Graham Chapel	03	1700CST 1710CST			0	0			Thunderstorm Wind (G62)
The West Texas Mesonet station southwest of town measured a 71 mph thunderstorm wind gust.									
Garza County									
Post	03	1701CST			0	0	100K		Hail (1.75)
The Garza County Sheriff's Office reported golfball size hail.									
Lynn County									
Grassland	03	1715CST			0	0	100K		Hail (0.75)
Parmer County									
13 NW Friona	03	1729CST			0	0	300K		Hail (1.00)
Parmer County									
2 N Friona	03	1740CST			0	0	300K		Hail (0.88)
Parmer County									
8 NW Friona	03	1753CST 1757CST			0	0	300K		Hail (2.00)
A storm spotter affiliated with KVII television in Amarillo reported two inch diameter hail.									
Parmer County									
7 NW Friona	03	1757CST			0	0	1M		Hail (2.75)
A storm spotter reported baseball size hail. At least 3000 acres of cotton were destroyed.									
Yoakum County									
8 W Denver City	03	1800CST			0	0	100K		Hail (2.00)
Two inch diameter hail was reported at the cotton gin.									
Parmer County									
8 W Friona	03	1818CST 1820CST	0.5	30	0	0			Tornado (F0)
A storm chaser and the Parmer County Sheriff's office reported a tornado over open country.									
Parmer County									
2 E Bovina	03	1824CST	0.1	30	0	0			Tornado (F0)
A storm chaser reported a brief tornado over open country.									
Parmer County									
4 SW Friona	03	1825CST	0.1	30	0	0			Tornado (F0)
A storm chaser reported a brief tornado over open country.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Parmer County									
1 W Friona	03	1825CST 1826CST	0.3	40	0	0			Tornado (F1)
A tornado destroyed a barn and blew over a tractor trailer.									
Parmer County									
6 E Bovina	03	1831CST	0.1	30	0	0			Tornado (F0)
A storm chaser reported a brief tornado over open country.									
Parmer County									
1 W Bovina	03	1855CST			0	0		200K	Hail (0.88)
Bailey County									
Muleshoe	03	1905CST			0	0	100K		Hail (1.75)
The public reported golfball size hail.									
Lynn County									
1 S New Home	03	1905CST			0	0		300K	Hail (1.75)
A storm spotter reported golfball size hail.									
Bailey County									
Fairview	03	1923CST			0	0		300K	Hail (1.75)
An off-duty NWS employee reported golfball size hail.									
Bailey County									
Needmore	03	1925CST			0	0		300K	Hail (2.50)
Storm spotters reported tennis ball size hail.									
Bailey County									
Needmore	03	1940CST			0	0	5K		Thunderstorm Wind (G61)
Strong thunderstorm wind downed several power poles.									
Bailey County									
Needmore	03	1942CST			0	0		300K	Hail (2.50)
An off-duty NWS employee reported tennis ball size hail.									
Bailey County									
5 E Enochs	03	1943CST 1945CST			0	0		1M	Hail (2.75)
Storm spotters reported baseball size hail. At least 7500 acres of cotton were destroyed.									
Lamb County									
12 W Littlefield	03	1950CST			0	0		200K	Hail (1.50)
Cochran County									
6 NE Morton	03	1953CST			0	0		200K	Hail (0.88)
Hockley County									
Pep	03	2000CST			0	0		1.5M	Hail (0.75)
At least 5000 acres of cotton were destroyed.									
Cochran County									
2 N Whiteface to Whiteface	03	2011CST 2016CST			0	0	25K		Thunderstorm Wind (G61)
Strong thunderstorm wind blew down power poles and damaged a roof.									
Cochran County									
1 W Whiteface	03	2015CST			0	0		200K	Hail (1.00)
Cochran County									
Whiteface	03	2017CST			0	0	25K	100K	Hail (1.75)
Hockley County									
3 W Sundown	03	2034CST			0	0		1.5M	Hail (1.00)
At least 5000 acres of cotton were destroyed.									
Kent County									
Clairemont	04	0001CST			0	0			Thunderstorm Wind (G61)
The Kent County Sheriff's Office reported 70 mph thunderstorm wind gusts.									
Swisher County									
2 NE Tulia	04	2025CST			0	0			Thunderstorm Wind (G50)
The West Texas Mesonet station northeast of town measured a 58 mph thunderstorm wind gust.									
Swisher County									
Tulia	04	2033CST			0	0		100K	Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, South Panhandle</u>									
Swisher County									
Tulia	04	2033CST			0	0			Thunderstorm Wind (G60)
Swisher County									
Kress	04	2042CST			0	0	100K		Hail (0.75)
Castro County									
Dimmitt	04	2049CST 2230CST			0	0			Flash Flood
Widespread flooding was reported in and around Dimmitt.									
Hale County									
1 S Plainview	04	2055CST			0	0			Thunderstorm Wind (G51)
The West Texas Mesonet station south of town measured a 59 mph thunderstorm wind gust.									
Parmer County									
4 SE Farwell	04	2055CST			0	0	150K		Hail (0.88)
Hale County									
Plainview	04	2100CST			0	0	10K		Thunderstorm Wind (G56)
Strong thunderstorm wind blew down trees, power lines, and fences.									
Swisher County									
Kress	04	2107CST			0	0	50K	150K	Thunderstorm Wind (G56)
Strong thunderstorm wind blew down power poles, damaged buildings. Strong wind and hail also destroyed crops.									
Hale County									
Plainview	04	2110CST			0	0			Hail (0.75)
Bailey County									
7 W Maple	04	2128CST 2131CST			0	0	200K		Hail (1.00)
Floyd County									
Lockney	04	2129CST 2133CST			0	0	400K		Hail (0.88)
Floyd County									
Lockney	04	2130CST			0	0	80K		Thunderstorm Wind (G80)
Strong thunderstorm wind destroyed several center pivot irrigation systems and uprooted trees.									
Swisher County									
Tulia	04	2142CST 2315CST			0	0			Flash Flood
Portions of Highway 86 and Highway 87 were reported flooded.									
Floyd County									
2 NE Floydada	04	2145CST			0	0			Thunderstorm Wind (G63)
The West Texas Mesonet station northeast of town measured a 72 mph thunderstorm wind gust.									
Floyd County									
Floydada to 4 S Floydada	04	2148CST			0	0	2M		Hail (1.25)
Wind-driven hail destroyed at least 7000 acres of cotton.									
Cochran County									
8 W Morton	04	2200CST	0.1	30	0	0			Tornado (F0)
A storm spotter reported a tornado over open country.									
Floyd County									
9 SE Floydada	04	2210CST			0	0	200K		Hail (1.00)
Floyd County									
Floydada	04	2210CST			0	0	25K		Thunderstorm Wind (G61)
Strong thunderstorm wind damaged roofs in town and blew down trees and power poles.									
Crosby County									
Ralls	04	2217CST			0	0	100K		Hail (2.75)
Golfball to baseball size hail broke windows at the elementary school and damaged buildings in town.									
Crosby County									
Crosbyton	04	2221CST			0	0			Hail (0.75)
Cochran County									
6 W Lehman	04	2225CST			0	0	150K		Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, South Panhandle</u>									
Swisher County									
Kress	04	2226CST 2330CST			0	0			Flash Flood
Roads were reported flooded in and around Kress.									
Crosby County									
Ralls	04	2234CST			0	0			Hail (0.75)
Cochran County									
8 S Lehman	04	2245CST			0	0	150K		Hail (1.00)
Dickens County									
Mc Adoo	04	2246CST			0	0	10K		Thunderstorm Wind (G56)
Strong thunderstorm wind blew down power lines and large tree limbs.									
Hale County									
Plainview	04	2249CST 2345CST			0	0			Flash Flood
Widespread flooding was reported in town.									
Yoakum County									
4 E Plains	04	2255CST	0.1	30	0	0			Tornado (F0)
The Yoakum County Sheriff's Office reported a tornado over open country.									
Floyd County									
Floydada	04	2258CST 2345CST			0	0			Flash Flood
Widespread flooding was reported in town.									
Garza County									
5 SW Graham Chapel	04	2300CST 2305CST			0	0			Thunderstorm Wind (G55)
The West Texas Mesonet station southwest of town measured a 63 mph thunderstorm wind gust.									
Dickens County									
Mc Adoo	04	2306CST			0	0	10K		Thunderstorm Wind (G56)
Strong thunderstorm wind blew down power lines and large tree limbs.									
Dickens County									
1 W Spur	04	2330CST			0	0			Thunderstorm Wind (G57)
The West Texas Mesonet station west of town measured a 66 mph thunderstorm wind gust.									
Dickens County									
Spur	04	2343CST			0	0			Thunderstorm Wind (G52)
Kent County									
10 W Jayton	04	2345CST			0	0			Thunderstorm Wind (G52)
The Kent County Sheriff's Office reported 60 mph thunderstorm wind gusts.									
Parmer County									
2 NE Friona	05	1805CST			0	0			Thunderstorm Wind (G53)
The West Texas Mesonet station northeast of town measured a 61 mph thunderstorm wind gust.									
Parmer County									
6 W Friona	05	1820CST			0	0	5K		Thunderstorm Wind (G52)
Strong thunderstorm wind destroyed a shed.									
Swisher County									
Happy	05	1833CST			0	0			Hail (0.75)
Parmer County									
Bovina	05	1835CST			0	0			Thunderstorm Wind (G61)
Bailey County									
2 S Muleshoe	05	1845CST			0	0			Thunderstorm Wind (G56)
The West Texas Mesonet station south of town measured a 65 mph thunderstorm wind gust.									
Parmer County									
3 W Lazbuddie	05	1845CST			0	0			Thunderstorm Wind (G52)
Swisher County									
5 NW Kress	05	1855CST			0	0	100K		Hail (0.75)
Lamb County									
Amherst	05	1910CST			0	0	15K		Thunderstorm Wind (G61)
Strong thunderstorm wind blew down several utility poles.									

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Lamb County									
1 NE Amherst	05	1915CST			0	0			Thunderstorm Wind (G67)
The West Texas Mesonet station northeast of town measured a 77 mph thunderstorm wind gust.									
Hale County									
Plainview	05	1917CST			0	0	5K		Thunderstorm Wind (G56)
Strong thunderstorm wind blew down power poles.									
Briscoe County									
Silverton	05	1925CST			0	0			Hail (0.88)
Hockley County									
6 S Anton	05	1955CST			0	0			Thunderstorm Wind (G50)
The West Texas Mesonet station south of town measured a 58 mph thunderstorm wind gust.									
Hockley County									
Smyer	05	2015CST			0	0	40K		Thunderstorm Wind (G70)
Strong thunderstorm wind destroyed a mobile home.									
Lubbock County									
5 NW New Deal	05	2015CST			0	0	100K		Hail (0.88)
Yoakum County									
3 N Plains	05	2035CST			0	0			Thunderstorm Wind (G56)
The West Texas Mesonet station north of town measured a 65 mph thunderstorm wind gust.									
King County									
10 W Guthrie	05	2100CST			0	0			Thunderstorm Wind (G53)
The West Texas Mesonet station west of town measured a 61 mph thunderstorm wind gust.									
Dickens County									
4 NW Spur	05	2145CST 2245CST			0	0		1M	Flash Flood
Farm-to-Market Road 2565 was reported flooded. Flooding destroyed about half of the county's cotton crop.									
Lubbock County									
9 NW Shallowater	08	0010CST			0	0	250K		Hail (1.75)
A retired NWS employee reported golfball size hail.									
Crosby County									
Lorenzo	08	0025CST			0	0			Hail (0.75)
Bailey County									
Muleshoe	09	1645CST			0	0			Hail (0.88)
Parmer County									
3 S Lazbuddie	09	1700CST 1720CST			0	0	100K		Hail (0.88)
Cochran County									
1 NE Morton	09	1735CST 1740CST			0	0			Thunderstorm Wind (G56)
The West Texas Mesonet station northeast of town measured a 65 mph thunderstorm wind gust.									
Cochran County									
3 N Morton	09	1742CST			0	0	100K		Hail (1.00)
Cochran County									
1 N Morton	09	1755CST			0	0	100K		Hail (0.75)
Cochran County									
1 N Morton	09	1755CST			0	0			Thunderstorm Wind (G52)
Castro County									
Dodd	09	1845CST			0	0	100K		Hail (0.88)
Terry County									
Wellman	09	2130CST			0	0	5K		Thunderstorm Wind (G56)
Thunderstorm wind gusts of 60 to 70 mph were estimated at the cotton gin. Power lines and large tree limbs were blown down.									
Hockley County									
6 W Levelland	09	2135CST			0	0	300K		Hail (1.75)
Castro County									
4 S Dimmitt	09	2137CST			0	0	150K		Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Castro County									
6 SE Dimmitt	09	2208CST			0	0	100K		Hail (0.75)
Hale County									
6 SE Plainview	10	1711CST 1713CST			0	0	300K		Hail (1.75)
									A storm chaser affiliated with KCBD television station reported quarter to golfball size hail.
Hale County									
4 S Plainview	10	1715CST			0	0			Thunderstorm Wind (G56)
									A storm chaser affiliated with KCBD television station measured a 65 mph thunderstorm wind gust.
Hale County									
5 S Plainview	10	1725CST			0	0	300K		Hail (1.75)
									A storm chaser affiliated with KCBD television station reported golfball size hail covering the ground.
Floyd County									
1 W Lockney	10	1740CST			0	0	300K		Hail (1.75)
									The Floyd County Sheriff's Office reported golfball size hail.
Floyd County									
Lockney	10	1750CST			0	0	100K		Hail (1.75)
									The Floyd County Sheriff's Office reported golfball size hail.
Stonewall County									
Swenson	10	1816CST			0	0			Hail (0.75)
Floyd County									
10 ENE Lockney	10	1820CST			0	0	250K		Hail (1.25)
Lamb County									
Littlefield	13	1706CST			0	0			Hail (1.00)
Lamb County									
Littlefield	13	1708CST			0	0			Hail (1.50)
Lamb County									
7 N Olton	13	1745CST			0	0	300K		Hail (2.75)
									The Littlefield PD reported baseball size hail.
Hockley County									
Pep	13	1755CST 1815CST			0	0			Hail (0.75)
Terry County									
3 N Wellman	13	1756CST			0	0	200K		Hail (1.00)
Castro County									
Dimmitt	13	1811CST			0	0			Hail (1.00)
Parmer County									
Lazbuddie	13	1850CST			0	0			Hail (0.75)
Hockley County									
1 NW Levelland	13	1854CST			0	0	250K		Hail (1.50)
Cochran County									
6 W Morton	13	1900CST			0	0	200K		Hail (1.00)
Cochran County									
3 E Bledsoe	13	1905CST			0	0	200K		Hail (1.50)
Parmer County									
3 SW Bovina	13	1915CST			0	0	150K		Hail (0.75)
Bailey County									
2 S Muleshoe	13	1930CST			0	0			Thunderstorm Wind (G51)
									The West Texas Mesonet station south of town measured a 59 mph thunderstorm wind gust.
Terry County									
6 N Tokio	13	1930CST			0	0	100K		Hail (0.75)
Lamb County									
1 NE Amherst	13	1945CST			0	0			Thunderstorm Wind (G60)
									The West Texas Mesonet station northeast of town measured a 69 mph thunderstorm wind gust.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Lamb County									
1 NE Amherst	20	0045CST			0	0			Thunderstorm Wind (G67)
The West Texas Mesonet station northeast of town measured a 77 mph thunderstorm wind gust.									
Lamb County									
2 S Olton to 3 E Olton	20	0045CST 0050CST			0	0	500K		Thunderstorm Wind (G70)
Strong thunderstorm wind uprooted trees, downed power lines and power poles, damaged the roofs of homes, and destroyed 15 center pivot irrigation systems.									
Bailey County									
Goodland	20	1805CST			0	0			Hail (0.75)
Bailey County									
Maple	20	1811CST			0	0	150K		Thunderstorm Wind (G70)
Strong thunderstorm wind damaged the roof of the school and destroyed several center pivot irrigation systems.									
Bailey County									
Enochs	20	1830CST			0	0			Hail (1.00)
Yoakum County									
3 N Plains	20	1835CST			0	0	10K		Thunderstorm Wind (G52)
The Texas Tech Mesonet station north of town measured a 60 mph thunderstorm wind gust. The strong wind destroyed a barn.									
Lamb County									
Littlefield	20	1839CST			0	0	5K		Thunderstorm Wind (G56)
Strong thunderstorm wind downed power poles.									
Bailey County									
2 W Maple	20	1845CST			0	0	300K		Hail (1.75)
The Bailey County Sheriff's Office reported golfball size hail.									
Cochran County									
Morton	20	1845CST			0	0			Hail (0.88)
Cochran County									
Lehman	20	1905CST			0	0			Hail (1.00)
Cochran County									
4 W Whiteface	20	1920CST			0	0	300K		Hail (1.75)
The public reported golfball size hail.									
Hockley County									
5 NW Pettit	20	1920CST			0	0			Thunderstorm Wind (G56)
Strong thunderstorm wind blew down trees.									
Lamb County									
Littlefield	20	1935CST			0	0			Hail (1.00)
Lamb County									
6 SE Littlefield	20	1940CST			0	0			Thunderstorm Wind (G52)
Lamb County									
Littlefield	20	1950CST			0	0	10K		Thunderstorm Wind (G56)
Strong thunderstorm wind blew down trees and power poles.									
Castro County									
3 N Hart	20	2000CST			0	0			Thunderstorm Wind (G51)
The Texas Tech Mesonet station north of town measured a 59 mph thunderstorm wind gust.									
Lamb County									
6 S Olton	20	2005CST			0	0			Thunderstorm Wind (G50)
The West Texas Mesonet station south of town measured a 58 mph thunderstorm wind gust.									
Hockley County									
3 N Whitharral	20	2025CST			0	0	100K		Hail (0.75)
Hale County									
Plainview	20	2140CST			0	0	50K		Thunderstorm Wind (G61)
Strong thunderstorm wind damaged a large storage building and a cotton gin and blew a road sign down on I-27.									
Childress County									
(Cds)Childress Arpt	20	2227CST			0	0			Thunderstorm Wind (G58)
The KCDS ASOS system measured a 67 mph thunderstorm wind gust.									
Crosby County									
3 E Cone	22	1725CST			0	0	300K		Hail (1.50)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, South Panhandle									
Floyd County									
4 SE Floydada	22	1753CST			0	0	300K		Hail (1.75)
			The public reported golfball size hail.						
Floyd County									
Lakeview	22	1753CST			0	0			Hail (1.00)
Floyd County									
South Plains	22	1755CST			0	0			Hail (1.25)
Floyd County									
South Plains	22	1802CST			0	0	250K		Hail (1.75)
			The Floyd County Sheriff's Office reported golfball size hail.						
Floyd County									
5 E Lakeview	22	1826CST 1842CST			0	0	300K		Hail (1.75)
			Storm spotters reported golfball size hail.						
Floyd County									
Lakeview	22	1842CST			0	0	25K	250K	Hail (1.75)
			Storm spotters affiliated with the Floydada FD reported golfball size hail.						
Floyd County									
Lakeview	22	1849CST			0	0			Hail (1.00)
Floyd County									
Dougherty	22	1925CST			0	0	25K	200K	Hail (1.75)
			The Floyd County Sheriff's Office reported golfball size hail.						
Motley County									
12 W Matador	22	1925CST			0	0			Hail (1.00)
Motley County									
4 W Roaring Spgs	22	1945CST			0	0			Hail (1.00)
Floyd County									
2 S Sterley	22	2029CST			0	0	150K		Hail (0.88)
Motley County									
Roaring Spgs	22	2030CST			0	0			Hail (0.88)
Cochran County									
6 SE Morton	23	1823CST			0	0	20K		Thunderstorm Wind (G70)
			An amateur radio storm spotter reported several snapped power poles.						
Cochran County									
1 NE Morton	23	1835CST			0	0			Thunderstorm Wind (G58)
			The West Texas Mesonet station northeast of town measured a 67 mph thunderstorm wind gust.						
Cochran County									
4 S Morton	23	1835CST			0	0	300K		Thunderstorm Wind (G70)
			Strong thunderstorm wind damaged 34 center pivot irrigation systems, blew down 19 power poles, uprooted trees, and blew down signs.						
Lamb County									
1 NE Amherst	23	1905CST			0	0			Thunderstorm Wind (G56)
			The West Texas Mesonet station northeast of town measured a 64 mph thunderstorm wind gust.						
Garza County									
6 W Post	24	1710CST			0	0	300K		Hail (1.75)
			The Garza County Sheriff's Office reported golfball size hail.						
Lynn County									
3 N New Moore	24	1924CST			0	0	300K		Hail (1.75)
			A storm spotter reported golfball size hail.						
Lynn County									
3 E New Moore to 3 W New Moore	24	1926CST			0	0	200K		Hail (0.75)
Floyd County									
Floydada	25	1700CST			0	0			Hail (0.88)
Stonewall County									
2 N Aspermont	25	1939CST			0	0			Hail (1.75)
			The Stonewall County Sheriff's Office reported golfball size hail.						

Storm Data and Unusual Weather Phenomena

June 2003

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, South Panhandle</u>									
Kent County									
3 W Jayton	25	2110CST			0	0	25K		Hail (0.75)
Parmer County									
Lazbuddie	26	0145CST			0	0	100K		Hail (1.00)
Bailey County									
Mulshoe	26	0240CST			0	0			Hail (0.75)
Bailey County									
Mulshoe	26	0240CST			0	0			Thunderstorm Wind (G52)
Hockley County									
Whitharral	26	0400CST			0	0	100K		Thunderstorm Wind (G70)
Several center pivot irrigation systems were destroyed and trees were uprooted.									
Hockley County									
Anton	26	0415CST			0	0	5K		Thunderstorm Wind (G56)
Strong thunderstorm wind blew down power lines.									
Lubbock County									
Reese Vlg	26	0430CST 0440CST			0	0			Thunderstorm Wind (G59)
The West Texas Mesonet station at Reese Center measured a 68 mph thunderstorm wind gust.									
Lubbock County									
Lubbock	26	0438CST			0	0			Thunderstorm Wind (G52)
A storm chaser measured 60 mph thunderstorm wind gusts on the northwest side of town.									
Lubbock County									
Shallowater	26	0440CST			0	0	5K		Thunderstorm Wind (G56)
Strong thunderstorm wind blew down trees and power poles.									
Lubbock County									
Lubbock	26	0452CST			0	0			Hail (0.75)
<u>TEXAS, Southeast</u>									
Hardin County									
4 NW Thicket	02	1645CST			0	0			Hail (0.75)
Newton County									
10 SSE Call	03	2030CST			0	0	2K		Thunderstorm Wind (G50)
Trees and power lines were blown down.									
Jasper County									
4 E Buna	03	2100CST			0	0			Hail (0.75)
Jasper County									
Jasper	12	1338CST			0	0	2K		Thunderstorm Wind (G50)
Trees were blown down.									
Newton County									
10 NE Newton	12	1418CST			0	0			Thunderstorm Wind (G50)
Toledo Bend Dam recorded a 50 knot wind gust.									
<u>TEXAS, West</u>									
Pecos County									
Ft Stockton	01	1430CST			0	0	0	0	Hail (0.75)
Brewster County									
13 S Alpine	01	1439CST			0	0	0	0	Hail (0.75)
Reported by the U.S Border Patrol at the check point on Highway 118.									
Brewster County									
Alpine	01	1555CST 1615CST			0	0	0	0	Flash Flood
A local radio station reported flash flooding which resulted in over a foot of water running across city streets in low water crossings.									
Pecos County									
3 E Imperial	01	1556CST			0	0	0	0	Thunderstorm Wind (G51)
Pecos County									
12 SE Imperial	01	1610CST			0	0	0	0	Hail (1.75)
Reported by a trained storm spotter on Highway 11.									

Storm Data and Unusual Weather Phenomena

June 2003

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									
Terrell County									
Sanderson	01	1645CST			0	0	0	0	Hail (0.75)
Gaines County									
Seminole	01	1705CST			0	0	0	0	Hail (1.00)
Dawson County									
Patricia	01	1803CST			0	0	0	0	Thunderstorm Wind (G52) Severe thunderstorm winds were accompanied by a wall of dust which reduced visibilities to near zero.
Martin County									
4 W Tarzan	01	1825CST			0	0	0	0	Thunderstorm Wind (G57)
Martin County									
4 W Tarzan to 3 SW Tarzan	01	1840CST 1848CST			0	0	0	0	Hail (1.75) Reported by a trained storm spotter at the intersection of Farm to Market Road 1212 and State Route 176, then south along 1212.
Howard County									
5 S Big Spring to Big Spring	01	1922CST 1925CST			0	0	0	0	Hail (1.00) Multiple reports of nickel to quarter size hail were received.
Martin County									
Stanton	01	1928CST 1931CST			0	0	0	0	Hail (1.75)
Martin County									
Stanton	01	1933CST			0	0	10K	0	Thunderstorm Wind (G61) Law enforcement officials reported power lines blown down by damaging thunderstorm winds.
Scurry County									
Snyder to 4 NE Dunn	01	1933CST 1941CST			0	0	0	0	Hail (1.75)
Mitchell County									
Cuthbert	01	1955CST			0	0	7K	0	Thunderstorm Wind (G61) Severe thunderstorm winds damaged a barn, split a Chinaberry tree, and blew down power lines.
<p>A round of severe thunderstorms brought large hail, damaging winds, and flash flooding to parts of West Texas late on the 1st. Severe thunderstorms initially developed during the late afternoon hours along the mountainous areas. These storms moved east into the adjacent plains, and cold pool interactions generated additional storms near a retreating warm front across the Permian Basin. An isolated supercell thunderstorm tracked across Martin County, and affected the Tarzan and Stanton areas with golfball size hail and damaging winds. Very explosive development occurred during the evening hours along a line from Big Spring to Snyder. These storms also resulted in similar severe weather reports.</p>									
Brewster County									
Marathon	03	1500CST			0	0	0	0	Thunderstorm Wind (G52)
Winkler County									
17 NE Kermit	03	1551CST			0	0	0	0	Hail (0.75) Reported on State Route 115.
Crane County									
16 NW Crane	03	1630CST			0	0	0	0	Thunderstorm Wind (G52) Reported at intersection of Farm to Market Roads 1233 and 1053.
Ector County									
Central Portion to Pleasant Farms	03	1639CST 1659CST			0	0	450K	0	Thunderstorm Wind (G62) A large severe thunderstorm developed over central Ector County in the area between Odessa and Penwell. This storm resulted in numerous reports of destructive thunderstorm winds with blowing large hail. A wind gust of 71 MPH was measured near Penwell. Gusts likely exceeded this measurement in the Odessa and Pleasant Farms vicinities where more extensive damage occurred. A barn was destroyed in Pleasant Farms, and a tractor trailer was overturned on Highway 302 west of Odessa. The most extensive damage occurred in the city of Odessa. Large trees two and half feet in diameter were uprooted. Power lines and poles were blown down. In addition, several roofs were blown off of weakly constructed structures on the southwest side of the city. An apartment complex sustained significant roof damage from the thunderstorm winds, leaving 60 families without shelter. Many city residents were without electricity until the afternoon of the 5th.
Ector County									
Penwell to Pleasant Farms	03	1646CST 1647CST			0	0	0	0	Hail (1.75) Several reports of large hail to the size of golfballs was reported from Penwell to Pleasant Farms.

Storm Data and Unusual Weather Phenomena

June 2003

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									
Ector County									
Odessa	03	1655CST			0	0	0	0	Hail (0.75)
Ector County									
Odessa	03	1659CST 1930CST			0	0	0	0	Flash Flood
Spotters reported flash flooding in the city of Odessa. Numerous city streets were impassable.									
Midland County									
(Maf) Midland Intl to 8 S Midland	03	1705CST 1720CST			0	0	105K	0	Thunderstorm Wind (G51)
Severe thunderstorm outflow winds from the Ector County storm affected the western portions of Midland County. A severe wind gust was measured by the Midland International Airport ASOS. It is likely winds were stronger south and west of the city where twenty six power poles were snapped in half by the thunderstorm winds along Farm to Market 1788, resulting in that highway's temporary closing.									
Crane County									
19 WNW Crane	03	1725CST			0	0	0	0	Hail (0.75)
Reported at the intersection of Farm to Market Roads 1053 and 1233.									
Borden County									
2 SE Gail	03	1740CST 1755CST			0	0	0	0	Thunderstorm Wind (G56)
Measured by the West Texas Mesonet site near Gail. Indicated wind gust was the average gust over a fifteen minute period.									
Borden County									
17 NE Gail	03	1741CST			0	0	0	0	Hail (1.00)
Borden County									
17 NE Gail	03	1741CST 1810CST			0	0	0	0	Thunderstorm Wind (G65)
Scurry County									
Fluvanna	03	1745CST			0	0	0	0	Thunderstorm Wind (G52)
Howard County									
Forsan to Coahoma	03	1800CST 1840CST			0	0	0	0	Hail (1.75)
Numerous reports of penny to golfball hail were received from the cities of Forsan and Coahoma.									
Borden County									
5 E Gail	03	1803CST			0	0	0	0	Thunderstorm Wind (G52)
Borden County									
15 E Gail	03	1815CST			0	0	0	0	Hail (1.75)
Borden County									
15 E Gail	03	1815CST			0	0	0	0	Hail (1.75)
Reported on Highway 180 just west of the county line.									
Howard County									
2 E Forsan	03	1825CST			0	0	3K	0	Hail (2.75)
Baseball size hail was reported two miles east of Forsan. No significant damage was reported.									
Borden County									
12 NE Gail	03	1830CST 2030CST			0	0	0	0	Flash Flood
The intersection of Farm to Market Roads 612 and 2350 was under high water due to flash flooding.									
Scurry County									
8 SW Snyder	03	1830CST 2030CST			0	0	0	0	Flash Flood
Flash flooding caused Farm to Market Road 1806 to be covered by high water.									
Gaines County									
5 S Seagraves	03	1835CST			0	0	0	0	Hail (1.00)
Pea to quarter size hail was reported on Highway 385.									
Howard County									
Coahoma	03	1836CST			0	0	0	0	Thunderstorm Wind (G70)
Severe thunderstorm wind gusts were estimated by the Coahoma Fire Department. No reports of significant damage were received.									
Scurry County									
Dermott	03	1845CST			0	0	0	0	Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

June 2003

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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TEXAS, West

Howard County

East Portion

03	1850CST				0	0	100K	0	Flash Flood
04	0050CST								

A significant flash flood event affected the eastern part of Howard County. At least one vehicle was stalled in high water on the access road of Interstate 20 east of Big Spring. The occupants were rescued. Houses were flooded in both Forsan and Coahoma. Pavement on rural roadways was washed away. No injuries were reported.

TXZ061>062

Ector - Midland

03	1850CST				0	0			Dust Storm
	2100CST								



A visually spectacular, and widely photographed, haboob affected the West Texas Permian Basin on the evening of June 3, 2003. This was the second such feature to impact the region within forty-eight hours. The Permian Basin haboob originated as thunderstorm outflow surged southwest from a pair of supercell thunderstorms which moved out of the Texas South Plains, and evolved into a large convective complex over the northeast Permian Basin. Although wind speeds associated with the haboob were non-severe, visibilities were reduced to near zero.

This day's severe thunderstorm activity evolved into two organized multicell clusters by mid evening. A large outflow boundary moved southwest in the wake of a convective complex located over the northeast Permian Basin. This feature evolved into a classic haboob as it moved across the central Permian Basin. This was the second such event to occur across the region in forty-eight hours (A similar haboob affected the southeast New Mexico plains on June 1st). A visually spectacular and abrupt wall of dust accompanied the onset of the dust storm. Although visibilities were lowered to well under a quarter of a mile over a large area, associated wind speeds were maximized around 35 MPH. Radar and surface observations indicated the haboob affected a large portion of the Permian Basin, yet specific reports were amazingly limited. Our observations indicated that blowing dust significantly reduced visibility across the central Permian Basin for about two hours.

Mitchell County

Colorado City

03	1915CST				0	0	10K	0	Thunderstorm Wind (G57)
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A semi-truck was damaged by severe thunderstorm winds.

Mitchell County

West Portion

03	2156CST				0	0	0	0	Flash Flood
	2300CST								

Flash flooding resulted in flood waters running over many roadways in western Mitchell County including Highway 163 and Farm to Market Roads 1229 and 1808.

Severe thunderstorms were numerous across parts of the Permian Basin during the evening of the 3rd, with less coverage over the Big Bend and Trans Pecos regions. This event began as a pair of supercell thunderstorms moved southeast from the Texas South Plains along a frontal boundary. These storms moved into the northeast Permian Basin, and resulted in large hail to the size of baseballs, damaging winds, and flash flooding. A second area of severe storm development occurred to the southwest, across the western Permian Basin. The most damaging severe weather of the event occurred as this activity moved into Ector County. This storm was responsible

Storm Data and Unusual Weather Phenomena

June 2003

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									
Brewster County 2 SW Marathon	04	1925CST			0	0	0	0	Hail (0.75)
Gaines County Seagraves to Loop	04	2340CST 2345CST			0	0	0	0	Thunderstorm Wind (G52)
Severe thunderstorm winds were reported from Seagraves to Loop.									
Scurry County 5 NW Snyder	04	2355CST			0	0	0	0	Hail (1.00)
Scurry County 2 SW Knapp to Snyder	05	0000CST 0010CST			0	0	7K	0	Thunderstorm Wind (G57)
Damaging thunderstorm winds were reported in an area from near Knapp, to the city of Snyder. One power pole was blown down by the winds, along with several large trees with two feet diameter trunks.									
Dawson County Friendship	05	0015CST			0	0	0	0	Thunderstorm Wind (G52)
Upton County Rankin	05	0020CST			0	0	0	0	Thunderstorm Wind (G52)
Mitchell County Colorado City	05	0040CST			0	0	0	0	Thunderstorm Wind (G52)
Martin County Stanton	05	0053CST 0219CST			0	0	0	0	Thunderstorm Wind (G52)
Howard County Coahoma	05	0100CST			0	0	0	0	Hail (0.75)
Reagan County Big Lake	05	0100CST 0105CST			0	0	0	0	Hail (0.75)
Reagan County Big Lake	05	0100CST 0105CST			0	0	0	0	Thunderstorm Wind (G52)
Scurry County 8 WNW Dermott	05	0100CST 0200CST			0	0	0	0	Flash Flood
Flash flooding resulted in high water covering the intersection of Farm to Market Roads 2126 and 612.									
Scurry County Snyder to 3 E Snyder	05	0100CST 0105CST			0	0	60K	0	Thunderstorm Wind (G52)
A severe thunderstorm wind gust was measured by the West Texas Mesonet site near Snyder. Several warehouse-type structures received considerable damage.									
Glasscock County Lees TXZ061	05	0115CST			0	0	0	0	Thunderstorm Wind (G52)
	05	0118CST			0	0	3K	0	High Wind (G57)
Several reports of high and damaging winds were received from parts of Ector County, including in West Odessa where a barn was destroyed. This area was removed from the severe thunderstorm activity by approximately 35 miles, with the winds occurring in an area of more stratiform precipitation west of the main convective complex.									
Midland County Greenwood	05	0125CST			0	0	5K	0	Thunderstorm Wind (G57)
Law enforcement officials reported several power lines blown down by severe thunderstorm winds in Greenwood.									

Storm Data and Unusual Weather Phenomena

June 2003

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

Mitchell County

Colorado City

05	0130CST 0330CST				0	0	3K	0	Flash Flood
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Local officials reported flash flooding which resulted in high water in parts of Colorado City. One report indicated the water was "knee high" outside a partially flooded trailer home.

Severe weather affected parts of West Texas during the late evening of the 4th and the early morning hours of the 5th. Although an isolated severe storm produced large hail in the Big Bend region near Marathon, most of the activity was concentrated across the eastern half of the Permian Basin. Most of the reports received were the result of a large and organized MCS which evolved into a bow echo structure as it propagated across the area. Reports of severe winds were common, although damage was limited to mainly downed trees, power poles and lines. Reports of large hail and flash flooding were also received with this complex of storms.

Jeff Davis County

**10 W Ft Davis to
2 S Ft Davis**

05	1445CST 1458CST				0	0	0	0	Hail (0.75)
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Brewster County

**7 N Alpine to
6.8 NNE Alpine**

05	1515CST 1525CST	0.2	50		0	0	0	0	Tornado (F0)
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This landspout tornado developed seven miles north of Alpine, Texas during the afternoon of June 5, 2003. The tornado persisted ten minutes as it drifted very slowly to the southeast in the rural country side of the Texas Big Bend. Photo courtesy of John Ryan-Alpine, Texas.

Several local authorities reported a tornado which developed north of the city of Alpine, and moved very slowly toward the southeast over the next ten minutes. Radar indicated a severe thunderstorm in the area, but no indication of supercellular characteristics. This evidence, combined with photographs taken by Alpine authorities, indicate the tornado was likely a landspout type tornado. No damage was reported.

Reeves County

4 N Orla

05	2020CST				0	0	0.10K	0	Thunderstorm Wind (G52)
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Severe thunderstorm winds ripped a door from the hinges on a residential structure.

Gaines County

2 N Seminole

05	2125CST 2135CST				0	0	0	0	Thunderstorm Wind (G53)
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Severe thunderstorm wind gusts were measured by the West Texas Mesonet site near Seminole.

Ward County

3 E Barstow

05	2130CST				0	0	5K	0	Lightning
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Lightning struck a 300 foot radio antenna, knocking an FM radio station off the air. Some of the station's equipment was destroyed.

Storm Data and Unusual Weather Phenomena

June 2003

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									
Dawson County									
8 SE Lamesa	05	2230CST			0	0	0	0	Thunderstorm Wind (G52)
Martin County									
6 NE Lenorah	05	2230CST			0	0	0	0	Thunderstorm Wind (G57)
Gaines County									
Seminole	05	2258CST			0	0	0	0	Flash Flood
	06	0100CST							
Law enforcement officials reported high water over several roadways in Seminole due to flash flooding. Highway 385 was reported to be under water as a result of the flooding.									
Ector County									
1 E Penwell to Pleasant Farms	05	2307CST 2335CST			0	0	105K	0	Thunderstorm Wind (G53)
A trained weather spotter measured a 61 MPH severe thunderstorm wind gust with a home weather station near Penwell. These winds were responsible for overturning a tractor trailer on Interstate 20 at mile marker 102. The storm then propagated southeast toward the Pleasant Farms vicinity. Several weakly constructed homes were heavily damaged in Pleasant Farms. Winds associated with the storm were likely higher than indicated across the southeast portions of the county, where most of the damage was concentrated. Due to the light construction of the damaged structures, the sole measured wind gust is referenced here instead of a damage based estimate.									
Ector County									
Odessa	05	2325CST			0	0	0	0	Flash Flood
	06	0100CST							
Flash flooding resulted in reports of "extensive" street flooding in the city of Odessa. Numerous city streets were impassable.									
Upton County									
Rankin	06	0000CST			0	0	0	0	Thunderstorm Wind (G57)
The public reported winds estimated at 65 MPH in the city of Rankin as the severe thunderstorm previously responsible for damage in Ector County continued southeast across Upton County. These winds did not result in significant damage, but blew a trampoline a considerable distance.									
In a near repeat of the previous day's severe weather activity, thunderstorms initiated along the higher terrain of West Texas and New Mexico. A thunderstorm near Alpine produced a ten minute duration tornado. More widespread severe weather affected the area during the late evening, and into the early morning hours of the 6th. For the second night in a row, a severe linear MCS took on a bow echo structure as it moved southeast across parts of Dawson and Martin Counties. In addition, a severe thunderstorm developed over the southern parts of Ector County, and resulted in damaging winds from Penwell to Pleasant Farms.									
Upton County									
Rankin	07	1707CST 1720CST			0	0	0	0	Hail (1.75)
Reagan County									
11 N Stiles	07	1755CST 1815CST			0	0	0	0	Thunderstorm Wind (G70)
A trained storm spotter estimated severe thunderstorm winds of at least 80 MPH. The winds broke tree limbs up to eight inches in diameter.									
Andrews County									
Andrews	07	1822CST			0	0	0	0	Hail (0.88)
Glasscock County									
St Lawrence to Garden City	07	1840CST 1915CST			0	0	0	0	Hail (1.75)
Law enforcement officials reported large hail between quarter and golfball size from St. Lawrence to Garden City.									
Scurry County									
Hermleigh	07	2210CST			0	0	0	0	Hail (1.75)
The Snyder Fire Department reported golfball size hail in Hermleigh.									
Severe thunderstorms developed in advance of a dryline across parts of the Permian Basin during the evening of the 7th. These storms resulted in large hail up to the size of golfballs and severe thunderstorm winds of 80 MPH.									
Presidio County									
Marfa to 1 E Marfa	08	1715CST 1723CST			0	0	0	0	Hail (1.50)
Multiple reports of hail ranging from nickel to ping pong ball size were received from the Marfa vicinity as an isolated severe thunderstorm affected the area.									
Terrell County									
5 W Dryden	09	1717CST			0	0	0	0	Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

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									
Ward County									
Grandfalls	09	1810CST 1820CST			0	0	0	0	Hail (1.00)
Ward County									
Grandfalls	09	1815CST 1820CST			0	0	2K	0	Thunderstorm Wind (G57)
A large tree was blown down. In addition, an empty but very large tank on the city's water tower was moved a small distance.									
Pecos County									
Imperial	09	1840CST			0	0	0	0	Hail (1.25)
Pecos County									
3 N Ft Stockton	09	2015CST			0	0	0	0	Hail (0.75)
Reported on Highway 285.									
Ward County									
Monahans	09	2020CST			0	0	50K	0	Thunderstorm Wind (G61)
Severe thunderstorm winds resulted in several roofs being blown off of businesses in Monahans, including the Boys and Girls Club. In addition, a new radio antenna tower which was installed by the city just nine months prior to the storm was blown down and destroyed.									
Brewster County									
16 NE Terlingua	09	2030CST			0	0	50K	0	Thunderstorm Wind (G61)
Several structures at Terlingua Ranch sustained roof damage and a few barns were destroyed.									
Ector County									
8 W Odessa	09	2035CST			0	0	0	0	Thunderstorm Wind (G60)
A severe thunderstorm wind gust of 69 MPH was measured by a trained spotter with a home weather station.									
Pecos County									
6 W Ft Stockton to Ft Stockton	09	2048CST			0	0	0	0	Hail (0.75)
Several reports of penny size hail were reported by spotters along Interstate 10 in Fort Stockton and west of the city.									
Pecos County									
6 W Ft Stockton to 11 W Ft Stockton	09	2050CST 2215CST			0	0	0	0	Flash Flood
Storm spotters reported flash flooding which resulted in high water flowing over Interstate 10 west of Fort Stockton. By late evening, two feet of water was reported flowing over the interstate service road eleven miles west of Fort Stockton.									
Gaines County									
1 SW Seagraves	09	2105CST			0	0	0	0	Thunderstorm Wind (G56)
Severe thunderstorm wind gust measured by the West Texas Mesonet.									
Midland County									
Midland Arpt to Midland	09	2117CST 2118CST			0	0	0	0	Thunderstorm Wind (G50)
A severe thunderstorm wind gust was measured at the Midland International Airport ASOS. The general public estimated 65 MPH winds in northeast Midland. No significant damage was reported.									
Martin County									
Stanton	09	2125CST			0	0	0	0	Thunderstorm Wind (G52)
Ector County									
Odessa	09	2130CST			0	0	35K	0	Lightning
A lightning strike sparked a fire which destroyed a home in Odessa, leaving a family homeless.									
Midland County									
4 NW Spraberry	09	2130CST 2200CST			0	0	0	0	Thunderstorm Wind (G61)
Large trees were blown down on Farm to Market Road 307.									
Dawson County									
Patricia	09	2138CST			0	0	0	0	Thunderstorm Wind (G52)
Glasscock County									
3 W Garden City	09	2144CST			0	0	0	0	Thunderstorm Wind (G61)
Law enforcement officials reported a car was blown off a rural road just north of Highway 158.									
Howard County									
Big Spring to Coahoma	09	2200CST 2215CST			0	0	0	0	Thunderstorm Wind (G61)
Numerous reports of severe thunderstorm winds between 60 and 70 MPH were received from Big Spring to Coahoma. No significant reports of damage were received.									

Storm Data and Unusual Weather Phenomena

June 2003

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									
Borden County									
16 SW Gail	09	2205CST 2210CST			0	0	0	0	Thunderstorm Wind (G57)
		A local farmer reported 65 MPH severe thunderstorm winds.							
Mitchell County									
9 W Colorado City	09	2215CST			0	0	0	0	Thunderstorm Wind (G52)
Scurry County									
2 SW Knapp	09	2228CST			0	0	0	0	Thunderstorm Wind (G52)
Glasscock County									
6 S Garden City	09	2240CST 2255CST			0	0	0	0	Flash Flood
		Flash flooding resulted in over a foot of water crossing Highway 137 south of Garden City.							
Midland County									
Midland	09 10	2320CST 0015CST			0	0	0	0	Flash Flood
		Local officials reported flash flooding from earlier heavy rain resulting in high water flowing over a bridge, and onto Highway 158 just south of Interstate 20.							
		Severe thunderstorms which developed along the mountains of West Texas moved east across the Permian Basin through the evening hours. These storms evolved into a squall line which produced widespread severe weather, including damaging winds and hail. The most significant damage occurred in the Monahans vicinity.							
Terrell County									
21 NNE Sanderson	11	1200CST			0	0	0	0	Hail (3.00)
		A rancher a few miles north of Farm to Market Road 2400 in rural parts of northwest Terrell County reported three inch hail stones as a supercell thunderstorm moved across rural sections of the county. The hail stones were reported to be sporadic.							
Pecos County									
24 SSW Bakersfield	11	1559CST			0	0	0	0	Hail (1.00)
		The public reported nickel to quarter size hail.							
Mitchell County									
2 ESE Cuthbert	11	1600CST			0	0	0	0	Hail (0.75)
Terrell County									
21 NNE Sanderson	11	1626CST 1640CST			0	0	0	0	Hail (1.75)
		Golfball size hail was reported by a rancher a few miles north of Farm to Market Road 2400 in rural parts of northwest Terrell County. This was the second supercell thunderstorm to result in large hail at this rancher's location on the 11th. The first severe thunderstorm impacted northwest Terrell County between four and five hours earlier with up to three inch hail, and is listed previously.							
Scurry County									
3 S Hermleigh	11	1700CST			0	0	0	0	Hail (0.75)
		Severe thunderstorms developed just east of a dryline across the eastern Permian Basin and Lower Trans Pecos on the 11th. Two very intense supercell storms impacted parts of southeast Pecos and northwest Terrell Counties this day. The second storm became potentially tornadic as it moved southeast across central Terrell County, with very strong radar indications of tornadic activity. Two reports of large funnel clouds were received from spotters and the public. These funnels were observed at considerable distances from the storm as it tracked across remote rural areas. The witnesses could not confirm debris at the ground, or any other evidence of a tornado. Other severe thunderstorms developed further north along the dryline. These storms exhibited characteristics consistent with low precipitation supercells, and produced large hail.							
Glasscock County									
5 SW St Lawrence	13	1325CST 1420CST			0	0	0	0	Flash Flood
		Flash flooding resulted in high water covering several rural roadways in southwest Glasscock County. Farm to Market Road 1357 was impassable.							
Mitchell County									
14 S Colorado City	13	1330CST 1400CST			0	0	0	0	Flash Flood
		Flash flooding resulted in high water flowing over County Road 337.							

Storm Data and Unusual Weather Phenomena

June 2003

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									
Midland County									
26 ESE Midland Arpt	13	1345CST 1420CST			0	0	0	0	Flash Flood
									Over three feet of water was reported flowing over the intersection of Farm to Market Roads 1357 and 1379 as a result of flash flooding.
Midland County									
26 ESE Midland Arpt	13	1345CST			0	0	0	0	Hail (1.75)
									Reported at the intersection of Farm to Market Roads 1357 and 1379.
Glasscock County									
Garden City	13	1400CST 1415CST			0	0	0	0	Hail (0.88)
Upton County									
Midkiff	13	1412CST 1419CST			0	0	0	0	Hail (0.88)
Howard County									
1 S Big Spring	13	1415CST			0	0	0	0	Hail (1.00)
Howard County									
Big Spring	13	1425CST 1430CST			0	0	4K	0	Thunderstorm Wind (G57)
									Ham radio spotters reported that severe thunderstorm winds blew down power lines and blew the roof off of a metal storage building on the northeast side of Big Spring.
Midland County									
9 NE Midland	13	1515CST 1520CST			0	0	0	0	Hail (1.75)
									Reported on County Road 1133.
Reagan County									
11 NNW Stiles	13	1515CST			0	0	0	0	Hail (0.88)
									Reported on Farm to Market Road 1357.
Dawson County									
8 NE Lamesa	13	1525CST			0	0	0	0	Hail (0.75)
									Reported at the intersection of Highway 87 and Farm to Market Road 2411.
Midland County									
Midland to Greenwood	13	1529CST 1600CST			0	0	25K	0	Hail (1.75)
									Numerous reports of large hail ranging in size from quarters to golfballs were received from the north and east sides of the city of Midland. The swath of hail generally stretched east and southeast from the Wal-Mart store at Midland Drive and Loop 250 in Midland to Greenwood. No reports of significant damage were received, however, minor damage to vehicles and roofs likely occurred.
Reagan County									
10 NW Texon	13	1630CST			0	0	0	0	Thunderstorm Wind (G57)
									Reported on Farm to Market Road 1558 just east of the Upton/Reagan County line.
Dawson County									
Lamesa	13	1730CST			0	0	0	0	Hail (1.00)
									Reported on the north side of the city.
Crane County									
18 S Crane	13	1810CST 1830CST			0	0	5K	0	Thunderstorm Wind (G57)
									Severe thunderstorm winds at the Rio Pecos Power Plant resulted in damage to Power Unit #5.
Pecos County									
Girvin	13	1831CST			0	0	0	0	Hail (0.88)
Pecos County									
Bakersfield	13	1850CST			0	0	0	0	Thunderstorm Wind (G52)
Pecos County									
5 W Bakersfield	13	1905CST			0	0	0	0	Hail (1.75)
									Reported on Interstate 10.
Gaines County									
Seminole	13	1917CST 1919CST			0	0	0	0	Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

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

Severe thunderstorms were widespread across the Permian Basin on the 13th. Numerous storms resulted in large hail and damaging thunderstorm winds. Flash flooding also resulted. A pair of supercell thunderstorms trained across northern Midland County. The second of these storms produced golfball hail over a large swath of the city of Midland. Other supercell thunderstorms resulted in hail up to the size of golfballs across southeast Midland County and Pecos County.

Loving County

4 SSW Red Bluff Res	14	2037CST			0	0	0	0	Hail (1.75)
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An isolated and long lived low precipitation supercell moved south across the New Mexico state line and into West Texas. An NWS COOP observer reported golfball size hail near Red Bluff Lake on the Reeves/Loving County line.

Reeves County

5 N Orla	14	2037CST			0	0	0	0	Hail (1.75)
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Ward County

3 SE Grandfalls	14	2143CST 2145CST			0	0	0	0	Thunderstorm Wind (G52)
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Ward County

3 SE Grandfalls	14	2150CST			0	0	0	0	Hail (0.75)
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Pecos County

7 SW Imperial	14	2200CST			0	0	0	0	Thunderstorm Wind (G52)
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A local deputy reported severe thunderstorm winds at the intersection of Farm to Market Roads 1450 and 1053.

A long-lived supercell thunderstorm moved south out of southeast New Mexico, and resulted in large hail across parts of the Upper Trans Pecos. As this storm weakened, additional severe thunderstorms developed along a line just south of Interstate 20. This line of storms moved south and resulted in severe thunderstorm winds and hail.

Loving County

4 N Mentone	20	1645CST			0	0	0	0	Hail (1.75)
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Reeves County

6 SE Orla	20	1658CST			0	0	0	0	Hail (0.88)
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Reported along Highway 285.

Jeff Davis County

Ft Davis	20	1918CST 1920CST			0	0	0	0	Hail (0.75)
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Gaines County

Higginbotham	20	1925CST 1937CST			0	0	0	0	Flash Flood
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A spotter reported flash flooding resulting in high water flowing in the city streets of Higginbotham.

Presidio County

20 WNW Marfa	20	2000CST			0	0	0	0	Thunderstorm Wind (G62)
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A severe thunderstorm wind gust of 70 MPH was measured at a federal government facility in northern Presidio County.

Jeff Davis County

Ft Davis	20	2025CST 2115CST			0	0	0	0	Flash Flood
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The fire department reported flash flooding which resulted in high water flowing through several city streets in Fort Davis.

Presidio County

10 E Marfa	20	2030CST			0	0	15K	0	Thunderstorm Wind (G61)
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A tractor-trailer carrying cattle was overturned by severe thunderstorm winds on Highway 67/90 one mile east of the Marfa Lights Viewing Area. Reports did not indicate the status of the cattle.

Severe thunderstorms affected parts of the Texas Big Bend, Trans Pecos, and western Permian Basin during the afternoon and evening of the 20th. Some of these storms resulted in large hail, damaging winds, and flash flooding.

Andrews County

3 SW Andrews	22	1845CST			0	0	0	0	Hail (1.75)
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Andrews County

3 W Andrews to Andrews	22	1855CST 1900CST			0	0	30K	0	Thunderstorm Wind (G61)
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A very intense storm developed rapidly at the intersection of two outflow boundaries over Andrews County. The storm produced golfball size hail and an intense downburst which destroyed a barn just west of town, blew down power poles, and blew a large tree across a city street in town.

Ector County

Penwell	23	1912CST			0	0	0	0	Thunderstorm Wind (G52)
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A few strong to severe thunderstorms developed over the western Permian Basin and Upper Trans Pecos region of West Texas during the afternoon and evening of the 23rd. One of these storms resulted in severe wind gusts in Ector County.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, West</u>									
Howard County									
Big Spring	25	1923CST 1930CST			0	0	0	0	Hail (1.00)
Several reports of large hail were received from Big Spring. Quarter size hail was reported near the airport on the west side of the city. Hail up to the size of pennies was reported in the downtown area.									
Howard County									
Big Spring	25	1925CST			0	0	2K	0	Thunderstorm Wind (G57)
A severe thunderstorm wind gust resulted in minor roof damage to a structure on the west side of Big Spring.									
Glasscock County									
13 SW St Lawrence to 6 W St Lawrence	25	2035CST 2130CST			0	0	0	0	Flash Flood
Flash flooding caused areas of high water to run across Farm to Market Road 2401 from the county line to Highway 137.									
Reagan County									
21 NW Stiles	25	2035CST 2115CST			0	0	0	0	Flash Flood
Spotters reported high water running across Farm to Market Road 2401 in the northwest corner of Reagan County.									
Upton County									
Midkiff to 1 E Midkiff	25	2035CST 2110CST			0	0	0	0	Flash Flood
Flash flooding resulted in high water flowing down city streets in Midkiff.									
Midland County									
19 S Spraberry	25	2040CST 2120CST			0	0	0	0	Flash Flood
Flash flooding washed out County Road 1090 near the Upton County line.									
Strong to severe thunderstorms resulted in flash flooding across the central Permian Basin on the 25th. One storm became severe producing large hail and minor wind damage in Big Spring.									
Reeves County									
3 S Saragosa	26	1300CST 1315CST			0	0	0	0	Hail (0.75)
The public reported penny size hail falling at a gas station along Interstate 10 for fifteen minutes.									
Terrell County									
28 NNE Dryden	26	1415CST			0	0	0	0	Thunderstorm Wind (G52)
Reported at the Terrell County Gas Plant.									
Jeff Davis County									
31 NNW Ft Davis	26	1435CST 1437CST			0	0	0	0	Hail (0.75)
Reported by a rural resident.									
An unseasonably strong cold front swept south across West Texas on the 26th. Severe thunderstorms developed near the front across the Davis Mountains and the Lower Trans Pecos. These storms resulted in large hail and severe thunderstorm winds.									
<u>TEXAS, Western North</u>									
Archer County									
Lake Kickapoo	01	1901CST			0	0			Hail (1.75)
Foard County									
19 WNW Crowell	01	1910CST			0	0			Hail (0.75)
Archer County									
3 W Holliday	01	1915CST			0	0			Hail (1.75)
Hail was observed on Highway 277.									
Knox County									
Rhineland	01	1920CST			0	0			Hail (0.88)
Archer County									
Holliday	01	1922CST			0	0			Hail (2.75)
Archer County									
Lakeside City	01	1929CST			0	0			Hail (1.00)
Wichita County									
Wichita Falls	01	1934CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TEXAS, Western North</u>									
Wichita County									
Wichita Falls	01	1938CST			0	0			Hail (1.25)
			Hail was observed one mile west of the stadium.						
Wichita County									
Wichita Falls	01	1938CST			0	0			Hail (1.75)
			Hail was observed at the mall.						
Wichita County									
Wichita Falls	01	1940CST			0	0			Hail (2.50)
Wichita County									
Wichita Falls	01	1944CST			0	0			Hail (1.25)
			Hail was observed in the southwest part of town.						
Wichita County									
Wichita Falls	01	1949CST			0	0			Hail (1.00)
			Hail was observed downtown.						
Wichita County									
Wichita Falls	01	1949CST			0	0			Hail (1.75)
			Hail was observed in the City View area of town.						
Knox County									
5 SW Benjamin	01	1953CST			0	0	0.05K		Thunderstorm Wind (G52)
			Several tree limbs were snapped.						
Wichita County									
Sheppard Afb	01	1956CST			0	0			Hail (1.00)
Wilbarger County									
Vernon	01	2030CST			0	0	15K		Thunderstorm Wind (G61)
			Numerous tree limbs were downed. An apartment building sustained roof damage.						
Wilbarger County									
Oklunion	01	2045CST			0	0	0.05K		Thunderstorm Wind (G61)
			Several tree limbs were downed.						
Knox County									
Knox City	10	1847CST			0	0			Hail (0.75)
Knox County									
Knox City	10	1847CST			0	0			Thunderstorm Wind (G52)
Wilbarger County									
4 NE Elliott	10	1855CST			0	0			Hail (1.00)
Wichita County									
Haynesville	10	1919CST			0	0			Hail (0.88)
Baylor County									
8 N Mabelle	10	1930CST			0	0			Hail (0.75)
Wichita County									
1 W Burkburnett	10	1950CST			0	0			Hail (0.88)
Wichita County									
1 W Burkburnett	10	1951CST			0	0			Hail (1.75)
Wichita County									
Burkburnett	10	1955CST			0	0			Hail (1.75)
Wichita County									
Sheppard Afb	10	2000CST 2005CST			0	0	10K		Thunderstorm Wind (G84)
			The Wichita Falls ASOS (SPS) measured a maximum wind gust of 97 mph just before the instruments stopped reporting. Wind damage at Sheppard Air Force Base was estimated to be 2 to 3 miles wide. Several hangers sustained roof damage along with a few storage sheds gone. A 10 inch diameter tree was blown a quarter of a mile east-southeast of its original location one mile north of the ASOS site. Several 2 foot diameter cottonwood trees were also snapped at the ground or uprooted. A large cargo jet, which was tied down with chains, had the chains snapped at the ground and the plane was rotated 90 degrees from its original position.						
Wichita County									
Kadane Corner	10	2003CST			0	0			Hail (1.75)
Wichita County									
Wichita Falls	10	2017CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
TEXAS, Western North									
Archer County									
Archer City	10	2032CST			0	0			Hail (0.75)
Clay County									
Jolly	10	2035CST			0	0	0.25K		Thunderstorm Wind (G74)
			A four foot diameter tree was downed.						
Clay County									
Jolly	10	2040CST			0	0			Hail (0.75)
Archer County									
2 W Windthorst	11	0000CST			0	0			Hail (1.00)
Knox County									
Knox City	11	1627CST			0	0			Hail (1.50)
Knox County									
5 SW Benjamin	11	1635CST			0	0			Hail (1.75)
Knox County									
Knox City	11	1645CST			0	0			Hail (1.50)
Knox County									
Munday	11	1648CST			0	0			Hail (0.88)
Knox County									
Munday	11	1710CST			0	0			Hail (1.00)
Wilbarger County									
11 WSW Grayback	11	1750CST			0	0			Hail (0.75)
Wilbarger County									
11 WSW Grayback	11	1750CST			0	0			Thunderstorm Wind (G52)
Wilbarger County									
3 W Grayback	11	1758CST			0	0			Thunderstorm Wind (G52)
Wilbarger County									
8 SW Grayback	11	1801CST			0	0			Hail (1.00)
Knox County									
Benjamin	11	1805CST			0	0			Hail (1.00)
Wilbarger County									
12 S Vernon	11	1810CST			0	0			Hail (1.75)
Baylor County									
Westover	11	1835CST			0	0			Hail (0.88)
Baylor County									
Westover	11	1835CST			0	0			Thunderstorm Wind (G52)
Wilbarger County									
1 E Harrold	11	1845CST			0	0			Hail (0.75)
Archer County									
2 N Archer City to 5 N Archer City	12	0145CST 0148CST			0	0			Hail (0.75)
			Hail was observed on Highway 79.						
Archer County									
Megargel	12	1614CST			0	0			Hail (1.00)
Archer County									
4 N Megargel	12	1614CST			0	0			Hail (0.88)
Archer County									
8 N Megargel	12	1623CST			0	0			Hail (1.00)
Wichita County									
Wichita Falls	12	2257CST			0	0			Hail (1.00)
			Hail was observed on south side of town.						
Archer County									
Lakeside City	12	2259CST			0	0			Hail (1.00)
Wichita County									
1 S Iowa Park	12	2332CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

June 2003

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

UTAH, East

UTZ022>025-027>029 Southeast Utah - Eastern Uinta Mountains - Eastern Uinta Basin - Tavaputs Plateau - Grand Flat And Arches - La Sal & Abajo Mountains - Canyonlands / Natural Bridges

01	0000MST				0	0			Drought
30	2359MST								

Extreme drought conditions persisted during the month throughout the area. Abnormally dry weather resulted in an area of exceptional drought across extreme southeast Utah. Please see the July 2003 Storm Data publication for a continuation of this drought situation.

Grand County

Harley Dome	09	1325MST 1340MST			0	0			Funnel Cloud
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UTZ027

Grand Flat And Arches

12	1500MST 1600MST				0	0			Dust Storm
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A dust storm blew across Interstate 70 about 12 miles east of Thompson Springs and resulted in multiple vehicle accidents. Five passenger cars and three tractor trailers were involved in one accident, and a single tractor trailer was involved in another accident. In the multiple vehicle accident, one person received a broken leg. The accidents closed both the east and west bound lanes of Interstate 70 for about 2 hours.

Grand County

35 N Crescent Jct to 34 N Crescent Jct	14	1700MST			0	0			Wildfire
	17	1500MST							

This lightning caused fire became known as the Anna Laura Fire. The fire occurred on the Tavaputs Plateau in the Uintah and Ouray Indian Reservation. The fire consumed 240 acres of mixed brush, aspen, juniper, and pine trees.

Grand County

20 NE Crescent Jct	22	1700MST			0	0			Wildfire
	24	1400MST							

Lightning was the probable cause of the Spruce Fire which occurred in Horse Canyon along the Book Cliffs. The fire consumed around 23 acres of pinyon pine and juniper trees.

San Juan County

25 W Blanding to 26 W Blanding	28	1800MST			0	0			Wildfire
	30	2359MST							

This human caused fire became known as the Woodenshoe Fire. It was ignited in the Dark Canyon Wilderness area of the Manti-La Sal National Forest. The fire consumed 500 acres of mixed conifer trees by the end of June and continued burning into July. See the July 2003 Storm Data publication for a continuation on this fire.

UTAH, West and Central

Kane County

Bullfrog	02	1530MST			0	0	0	0	Thunderstorm Wind (G70)
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A microburst from a thunderstorm produced estimated wind gusts as high as 80 mph (70 kts) at Bullfrog Marina, whipping up the waves on the bay. A mesonet site nearby recorded a gust of 67 mph (58 kts) about an hour earlier.

Utah County

Payson	09	1519MST 1520MST	0.1	10	0	0	2K	0	Tornado (F0)
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A small tornado (F0) touched down in Payson in Utah County. The tornado damaged about 100 feet of vinyl fence and lifted a small aluminum boat off of its trailer. The path of the tornado was about 100 yards.

Utah County

Spanish Fork to Orem	09	1530MST 1540MST			0	0	2K	0	Thunderstorm Wind (G60)
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Strong microburst winds knocked down small trees and power lines in Spanish Fork. Wind gusts recorded in the event included 69 mph (60 kts) in Orem and 54 mph (47 mph) in Payson.

Utah County

Springville to Provo	19	1150MST 1200MST			0	0	0	0	Thunderstorm Wind (G52)
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Several tree branches were downed between Provo and Springville as thunderstorm winds estimated at 60 mph (52 kts) blew through the area.

Box Elder County

Tremonton	20	1650MST 1700MST			0	0	10K	0	Thunderstorm Wind (G52)
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Strong thunderstorm winds knocked down trees and knocked out power in the Tremonton area. The wind storm also threw a large trampoline over 100 yards from a residents home before dropping it in an empty field. No injuries were reported.

Storm Data and Unusual Weather Phenomena

June 2003

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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UTAH, West and Central

UTZ008>009

Wasatch Mountains South Of I80 - Western Unita Mountains

24	1200MST				0	0	0	0	Heavy Snow
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An unseasonably cold storm system dumped a thick blanket of snow across the higher elevations of Northern Utah, catching some campers in the High Uintas by surprise. Some of the snow amounts included 6-10 inches in the High Uintas above 7000 feet, 6 inches at Alta and Brighton, and 3 inches at Solitude.

VERMONT, North and Central

Chittenden County

Hinesburg

29	1830EST				0	0	5K		Thunderstorm Wind (G50)
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An area of low pressure moved across southern Canada during Sunday, June 29th. The associated cold front moved into northern New York during late Sunday night (June 29th). Thunderstorms developed along and ahead of this cold front. Some of the thunderstorms resulted in strong winds. In the town of Hinesburg, trees were blown down.

Caledonia County

Lyndonville

29	2130EST				0	0			Lightning
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Caledonia County

Newark Hollow

29	2130EST				0	0			Lightning
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Caledonia County

Wheelock

29	2130EST				0	0			Lightning
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Thunderstorms during the night of Sunday, June 29th resulted in a number of lightning strikes in northeast Vermont. In and around the towns of Lyndonville, Wheelock and Newark, lightning strikes resulted in a few tree fires and power outages.

Addison County

Salisbury

29	2215EST				0	0	5K		Thunderstorm Wind (G60)
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Addison County

Whiting

29	2215EST				0	0	5K		Thunderstorm Wind (G60)
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An area of low pressure moved across southern Canada during Sunday, June 29th. The associated cold front moved across northern New York during late Sunday night (June 29th). Thunderstorms developed along and ahead of this cold front. Some of the thunderstorms resulted in strong winds. Between the towns of Whiting and Salisbury, numerous tree limbs and trees were blown down, and small hail was reported. The town of Salisbury was without power and telephone service for a time.

Rutland County

Mendon

29	2225EST				0	0	5K		Thunderstorm Wind (G60)
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An area of low pressure moved across southern Canada during Sunday, June 29th. The associated cold front moved into northern New York during late Sunday night (June 29th). Thunderstorms developed along and ahead of this cold front. Some of the thunderstorms resulted in strong winds. In Atkins State Forest, trees and limbs were blown down.

Windsor County

Rochester

29	2250EST				0	0	5K		Thunderstorm Wind (G60)
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An area of low pressure moved across southern Canada during Sunday, June 29th. The associated cold front moved into northern New York during late Sunday night (June 29th). Thunderstorms developed along and ahead of this cold front. Some of the thunderstorms resulted in strong winds and very heavy rainfall. In the town of Rochester, a few trees and power lines were blown down along with a large tent. Power was out for a time.

Orange County

Braintree

29	2255EST				0	0			Lightning
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Orange County

Randolph

29	2255EST				0	0			Lightning
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Thunderstorms during the night of Sunday, June 29th resulted in a number of lightning strikes in northeast Vermont. In and around the towns of both Braintree and Randolph, lightning strikes resulted in a few tree fires.

Chittenden County

Williston

30	0200EST				0	0			Hail (0.75)
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An area of low pressure moved across southern Canada during Sunday, June 29th. The associated cold front moved into northern New York during late Sunday night (June 29th). Thunderstorms developed along and ahead of this cold front Sunday night (June 29th) into early Monday morning (June 30th). Some of the thunderstorms resulted in gusty winds and hail. In the town of Williston, Penny size hail was reported along with very heavy rain in a thunderstorm.

Orleans County

Greensboro

30	1205EST				0	0			Lightning
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Thunderstorms during the early morning of Monday, June 30th resulted in a number of lightning strikes. In and around the town of Greensboro, lightning strikes resulted in tree damage.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>VERMONT, South</u>									
NONE REPORTED.									
<u>VIRGIN ISLANDS</u>									
NONE REPORTED.									
<u>VIRGINIA, East</u>									
Suffolk (C)									
Whaleville	07	1825EST			0	0	5K		Thunderstorm Wind (G50)
Parts of a building blown into the road.									
Richmond (C)									
Richmond	11	1950EST			0	0	2K		Thunderstorm Wind (G50)
Several trees down throughout city.									
Suffolk (C)									
7 SW Suffolk Arprt	13	2100EST			0	0	2K		Thunderstorm Wind (G50)
One tree down on a house in Holland section of Suffolk.									
Louisa County									
Boswells Tavern to Louisa	14	2100EST 2200EST			0	0			Flash Flood
Many secondary roads were reported impassable or closed due to high water. Route 33, Route 15, and Route 22 were reported impassable due to significant standing water.									
Brunswick County									
2 NNE Danieltown	30	1525EST			0	0	5K		Thunderstorm Wind (G50)
Couple of trees down and small outbuilding destroyed.									
<u>VIRGINIA, Extreme Southwest</u>									
Washington County									
Abingdon	11	1600EST			0	0	10K		Thunderstorm Wind (G55)
A few trees were reported down in Abingdon.									
Scott County									
Countywide	11	1700EST			0	0	8K		Thunderstorm Wind (G55)
A few trees were reported down across the county.									
Washington County									
Abingdon	11	1718EST			0	0			Hail (0.75)
Penny sized hail was reported in Abingdon.									
Washington County									
Abingdon	11	1718EST			0	0			Hail (0.75)
Penny sized hail was reported at Abingdon.									
Russell County									
Countywide	11	1730EST			0	0	15K		Thunderstorm Wind (G55)
A few trees were reported down across the county.									
Scott County									
Countywide	11	1740EST			0	0	15K		Thunderstorm Wind (G55)
A few trees were reported down across the county.									
Washington County									
Countywide	11	1800EST 2000EST			0	0			Flash Flood
Numerous roads closed due to adjacent streams out of banks and clogged drains, inadequate culverts.									
Bristol (C)									
Countywide	11	1800EST 2000EST			0	0			Flash Flood
Numerous roads closed from flooding of nearby streams, inadequate drainage.									
Washington County									
Countywide	11	1800EST			0	0	18K		Thunderstorm Wind (G55)
Numerous trees were reported down across the county.									
Washington County									
Countywide	11	1800EST			0	0	15K		Thunderstorm Wind (G55)
Several trees were reported down across the county.									

Storm Data and Unusual Weather Phenomena

June 2003

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, Extreme Southwest</u>									
Lee County									
Dryden	11	2030EST			0	0	10K		Thunderstorm Wind (G55)
A few trees were reported down across the north half of the county.									
Scott County									
2 S Fairview	11	2040EST			0	0	6K		Thunderstorm Wind (G55)
A few trees were reported down two miles south of Fairview.									
<u>VIRGINIA, North</u>									
VAZ028-030>031-041>042-052>057									
Frederick - Warren - Clarke - Fauquier - Loudoun - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George									
01		0400EST 1300EST			0	0	11K		Strong Wind
A strong cold front moved through the region during the early morning hours of the 1st. After the front passed, winds gusted up to 55 MPH through early afternoon. The gusty winds downed a number of trees region wide because the ground was saturated from recent heavy rains. Measured wind gusts across northern Virginia included 52 MPH at Falls Church and Page, 46 MPH at Washington Reagan National Airport and Leesburg, 44 MPH at Manassas and Woodbridge, 42 MPH at Alexandria, and 41 MPH in Reston. In Loudoun County, a large tree fell onto a road in Middleburg. In Fairfax County, trees were downed onto power lines in Annandale. Power was knocked out in Springfield. Countywide, 23 minor fires were reported after power lines were torn down. Also, a fallen tree severely damaged a home in Vienna. In Alexandria, a large tree significantly damaged a house on Vantage Road and another tree was felled onto a home on Wythe Street. In Falls Church, trees were downed onto power lines. In Stafford County, several trees were reportedly downed.									
Madison County									
Madison	08	2255EST			0	0			Lightning
A lightning strike damaged structures and landscape in the Malvern of Madison subdivision. A late night thunderstorm produced a bolt of lightning that struck a picnic table in the back yard of a home in the Malvern of Madison subdivision of the city of Madison. The bolt spread out along the ground, leaving a "Y" shaped scar in the landscape. Underground telephone and cable lines were fried by the bolt. In addition, the bolt damaged a shed and threw the picnic table a few feet and covered it in dirt.									
Augusta County									
Stuarts Draft	11	1630EST 1800EST			0	0			Flash Flood
Water flowed over Route 610.									
Staunton (C)									
Staunton	11	1630EST 1730EST			0	0			Flash Flood
Numerous streets were full of running water.									
Nelson County									
Lovingston	11	1714EST 1814EST			0	0			Flash Flood
Flooding was reported on the south side of town.									
Greene County									
Standardsville	11	1728EST			0	0	0.50K		Thunderstorm Wind (G50)
Trees were downed.									
Culpeper County									
White Shop to Catalpa	11	1825EST			0	0	2K		Thunderstorm Wind (G50)
Numerous trees were downed.									
Clarke County									
3 SE Berryville	11	1840EST			0	0	2K		Thunderstorm Wind (G50)
Several trees were downed along Route 7 between Berryville and the Shenandoah River.									
Loudoun County									
West Portion	11	1910EST 1930EST			0	0	2K		Thunderstorm Wind (G50)
Numerous trees were downed between Route 50 and Leesburg.									
Fauquier County									
Bealeton	11	1915EST			0	0	10K		Thunderstorm Wind (G50)
A portion of a roof was blown off a school.									
Loudoun County									
Leesburg	11	1927EST			0	0			Hail (0.75)
Penny sized hail fell.									

Storm Data and Unusual Weather Phenomena

June 2003

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, North</u>									
Loudoun County									
Ashburn	11	1928EST			0	0			Thunderstorm Wind (G53)
A wind gust of 61 MPH was recorded in Ashburn Village. The time was estimated.									
Loudoun County									
Sterling	11	1929EST			0	0			Thunderstorm Wind (G52)
A wind gust of 60 MPH was recorded.									
Fairfax County									
Vienna	11	1945EST			0	0	0.50K		Thunderstorm Wind (G50)
A tree was downed.									
Fairfax (C)									
Fairfax	11	1945EST			0	0	0.50K		Thunderstorm Wind (G50)
A large tree was uprooted at the intersection of Gallows Road and Iliff Drive.									
Alexandria (C)									
Alexandria	11	2000EST			0	0	1K		Thunderstorm Wind (G50)
Trees were downed in the northern portion of the city.									
Arlington County									
Arlington	11	2000EST			0	0	1K		Thunderstorm Wind (G50)
Trees were downed at the intersection of Glebe Road and Route 123.									
An area of thunderstorms with high winds, hail, and heavy rainfall moved through the northern half of the state during the afternoon and evening of the 11th. In Nelson County, flooding was reported on the south side of Lovingson. In Augusta County, water was flowing over Route 610 at Stuarts Draft. Trees were downed in New Hope and Middlebrook. In Staunton, numerous streets were turned into rivers by heavy downpours. In Greene County, trees were downed in Standardsville. In Culpeper County, numerous trees were downed between Whiteshop and Catawba. One tree fell onto a house in Whiteshop and severely damaged the garage. In Fauquier County, the portion of a roof was blown off Cedar Lee Middle School in Bealton. Pea sized hail was also reported. Trees were also downed along Springs Road near the intersection of Route 687. In Clarke County, several trees were downed along Route 7 between Berryville and the Shenandoah River. In Loudoun County, penny sized hail fell in Leesburg. Numerous trees were downed between Route 50 and Leesburg in the western portion of the county. A wind gust of 60 MPH was recorded at the National Weather Service office in Sterling and a gust of 61 MPH was recorded at Ashburn Village. In Fairfax County, a large tree was uprooted at the intersection of Gallows Road and Iliff Drive in Fairfax. Another tree was downed in Vienna. A wind gust of 50 MPH was recorded in Reston and a gust of 46 MPH was reported in Chantilly. In Alexandria, trees were downed on the north side of the city. In Arlington County, trees were downed at the intersection of Glebe Road and Route 123 in North Arlington.									
Madison County									
Countywide	12	1400EST			0	0	2K		Thunderstorm Wind (G50)
Trees were downed.									
Clarke County									
Berryville	12	1415EST			0	0	5K		Thunderstorm Wind (G50)
A tree was downed onto a car.									
Culpeper County									
Countywide	12	1430EST			0	0	0.50K		Thunderstorm Wind (G50)
A few trees were downed.									
Fauquier County									
Warrenton	12	1452EST			0	0	0.50K		Thunderstorm Wind (G50)
Large tree limbs were downed.									
Prince William County									
Greenwich	12	1515EST			0	0	1K		Thunderstorm Wind (G50)
Trees were downed.									
Fairfax County									
Countywide	12	1615EST 1900EST			0	0			Flash Flood
Wolf Trap Road was flooded. One person had to be rescued from a small stream after being caught in flood waters.									
Arlington County									
Arlington	12	1635EST			0	0			Lightning
Lightning struck the main police transmitter antenna.									
Alexandria (C)									
Alexandria	12	1640EST			0	0	5K		Thunderstorm Wind (G50)
Trees were downed onto homes.									

Storm Data and Unusual Weather Phenomena

June 2003

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, North</u>									
Clarke County									
Countywide	12	1700EST 1830EST			0	0			Flash Flood
			Route 50 was closed by flooding.						
Loudoun County									
Countywide	12	1830EST			0	0	5K		Thunderstorm Wind (G50)
			Several trees were downed.						
Prince William County									
North Portion	12	1830EST 1910EST			0	0			Flash Flood
			Several roads were flooded.						
Shenandoah County									
Countywide	12	1830EST 1930EST			0	0			Flash Flood
			Several roads were flooded.						
Loudoun County									
East Portion	12	1840EST 1940EST			0	0			Flash Flood
			Route 606 was flooded near Dulles Airport.						
Fauquier County									
North Portion	12	1900EST 2000EST			0	0			Flash Flood
			Roads were flooded. Several showers and thunderstorms moved through the northern third of Virginia during the afternoon and evening of the 12th. These storms contained very heavy rainfall and high winds. Several locations reported wind damage and flooding. In Shenandoah County, several roads were flooded. In Madison County, gusty winds downed trees. In Culpeper County, a few trees were downed. In Fauquier County, large tree limbs were downed in Warrenton. Roads were flooded in the northern portion of the county. In Clarke County, a tree was downed onto a car near Berryville. Route 50 was closed by flooding 3 miles south of Boyce. In Loudoun County, several trees were downed. Route 606 was flooded near the intersection of the Dulles Greenway. A total of 2.55 inches of rain was recorded near Ashburn. A small stream near Algonkian Boulevard in Countryside overflowed its banks. Standing water was also reported at the intersection of Route 7 and Route 28 west of Sterling. In Fairfax County, Wolf Trap Road near Vienna was flooded. In Reston, one person had to be rescued from a small stream after getting caught in flood waters while trying to cross. In Arlington County, lightning struck the county's main police and fire transmitter antenna, knocking it out of service for 43 minutes. In Alexandria, trees were downed onto houses at the intersection of Yale Road and Janneys Road. In Prince William County, trees were downed in Greenwich. Several roads were flooded in the northern portion of the county including Waterfall Road. An observer in Waterfall reported 1.61 inches of rain in only 25 minutes. A total of 2.7 inches of rain was recorded near Lake Jackson. In King George County, many trees were downed.						
Shenandoah County									
Countywide	13	1630EST 1730EST			0	0			Flash Flood
			Several roads were washed out.						
Warren County									
Countywide	13	1715EST 1815EST			0	0			Flash Flood
			Numerous roads were closed by flooding.						
Orange County									
Orange	13	1800EST 1900EST			0	0			Flash Flood
			Flooding was reported. Showers and thunderstorms with heavy rainfall moved through the Shenandoah Valley and the Northern Piedmont during the afternoon and evening of the 13th. In Orange County, flooding was reported in Gordonsville. In Shenandoah County, several small roads were washed out. In Warren County, numerous roads were closed by flooding.						
Fauquier County									
Morrisville	14	1400EST			0	0	1K		Thunderstorm Wind (G50)
			Trees were downed.						
Loudoun County									
Countywide	14	1500EST 1800EST			0	0			Heavy Rain
Spotsylvania County									
Countywide	14	1500EST 1900EST			0	0			Heavy Rain

Storm Data and Unusual Weather Phenomena

June 2003

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, North</u>									
Fairfax County									
Groveton	14	1509EST			0	0	5K		Thunderstorm Wind (G50)
	A tree was downed onto a house.								
Fairfax County									
Springfield	14	1511EST			0	0	5K		Thunderstorm Wind (G50)
	A tree fell onto a house.								
Fairfax County									
Countywide	14	1515EST 1700EST			0	0			Flash Flood
	Fairfax County Parkway was washed out.								
Fairfax County									
Lorton	14	1515EST			0	0	0.50K		Thunderstorm Wind (G50)
	Trees were downed onto wires.								
Stafford County									
Countywide	14	1700EST 1800EST			0	0			Flash Flood
	Some roads were closed by flooding.								
Madison County									
Banco	14	1807EST			0	0	0.50K		Thunderstorm Wind (G50)
	Trees were downed.								
Madison County									
Madison	14	1849EST			0	0	2K		Thunderstorm Wind (G50)
	Trees were downed in the Malvern of Madison subdivision.								
Orange County									
Somerset	14	1900EST			0	0	0.50K		Thunderstorm Wind (G50)
	A tree was downed onto Route 20.								
Fairfax County									
Huntington	14	1921EST			0	0	0.50K		Thunderstorm Wind (G50)
	Trees were uprooted on Telegraph Road near the Beltway.								
	Scattered thunderstorms with high winds and very heavy downpours moved through Northern Virginia between 3 PM and 8 PM on the 14th. In Orange County, a tree was downed onto Route 20. In Madison County, trees were downed in Banco and in the Malvern subdivision of Madison. In Spotsylvania County, street flooding was reported in Chancellorsville where 2 inches of rain fell in one hour. In Stafford County, Route 1, Decatur Road, and Mountain View Road were partially closed by flooding. An observer at Shelton Shop Road in the northern part of the county recorded 2.24 inches of rain. In Fauquier County, a tree was downed onto Route 17 in Morrisville. In Loudoun County, water covered roads in Hamilton. Ponding of water was also reported at the intersection of Route 28 and Old Ox Road (Route 606). In Fairfax County, trees were downed onto wires in Lorton. Trees were uprooted in Huntington near the intersection of Telegraph Road and the Beltway. In Groveton Heights, a large tree was downed onto a house. In Springfield, three trees were downed including one which fell onto a home. A tree was also downed onto the George Washington Parkway and Morningside Drive. A wind gust of 46 MPH was recorded near Lorton. In addition, heavy rains washed out a portion of the Fairfax County Parkway.								
Prince William County									
North Portion	19	0125EST 0225EST			0	0			Flash Flood
	Route 15 and Interstate 66 were flooded.								
Fairfax County									
West Portion	19	0225EST 0500EST			0	0			Flash Flood
	Numerous roads were closed by flooding.								
Loudoun County									
Countywide	19	0230EST 0500EST			0	0			Flash Flood
	Roads and small streams flooded.								
VAZ042-053									
Loudoun - Fairfax	19	0615EST 1230EST			0	0			Flood
	Water lingered across roads and continued to keep small stream levels high.								

Storm Data and Unusual Weather Phenomena

June 2003

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, North

Showers and thunderstorms with very heavy downpours moved through the western suburbs of Washington D.C. during the pre-dawn hours of the 19th. Another round of heavy rain fell during the early evening hours. Up to 5 inches of rain accumulated across a portion of Fairfax, Loudoun, and Prince William counties by the end of the day. Two inches of rain fell in Alexandria during the evening in less than an hour, causing localized flooding as well. In Prince William County, high water was reported on Route 15 and Interstate 66 in the northern portion of the county. In Loudoun County, a small creek along Waxpool Road near the AOL complex in Ashburn overflowed its banks. Just southwest of Dulles Airport where 2 inches was recorded, up to 4 inches of rain may have fallen. Minor flooding was reported on unspecified county roads. In Fairfax County, several roads were closed by flooding in the western and central portion of the county. Hardest hit areas included Chantilly, Reston, and Oakton. Rainfall totals included 5.18 inches in Herndon, 4.81 inches in Chantilly, 3.18 inches between Reston and Tyson's Corner, and 2.46 inches in Reston. Difficult Run overflowed its banks at Brown's Mill Road. The following roads were closed by flooding during and after the morning deluge: Hunter Mill Road, Walnut Road, Route 50 at the intersection of Route 28, Lee's Mill Road, White Chimney Road, Hunter Station Road, Brown's Mill Road, Belleview Road, and Woodburn Road. In addition, Telegraph Road and Huntington Road in Kingstowne were flooded during the evening. Twelve homes on Elmwood Avenue in Franconia were also flooded.

Culpeper County

Countywide

20	0930EST				0	0			Flash Flood
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More than a dozen roads were flooded.

Fairfax County

Countywide

20	1145EST				0	0			Flash Flood
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Eight roads were flooded.

Showers and thunderstorms with heavy rainfall moved through for a second straight day on the 20th. In Fairfax County, the following roads were closed by flooding: Browns Mill Road, Swinks Mill Road, Hunter Mill Road at the intersection of Lawyers Road, Braeburn Road and Guinea Road at Rutherford Park, Lorton Road at the intersection of Route 1, Campbell Drive at the intersection of Franconia Road, Old Courthouse Road, South Van Dorn Road under the Interstate 95 overpass, Cinderbed Road at the intersection of Newington Road, Route 1 at the intersection of Mt. Vernon Parkway, Burke Lake Road, and Walker Road at the intersection of Colvin Run Road. In Culpeper County, high water was reported in many low spots between Eggbornsville to the Orange County line. A small creek at a low water crossing on Route 628 overflowed onto the road. Other roads that were flooded by the heavy downpours included Route 685 (Chestnut Fork Road), Reva Road, Slate Mill road, Route 3 at Ellis Road, Route 614, Route 721 in the Rapidan area, Stevensburg Road, Coles Hall Road, Umberger Road, Berry Hill Road off Route 29, and Route 729 near Settletown Road. In addition, saturated soil allowed a tree to fall onto power lines on Alum Spring Church Road.

Fauquier County

Warrenton

27	1255EST				0	0	0.50K		Thunderstorm Wind (G50)
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Large branches were downed onto power lines. The time was estimated.

Fauquier County

Calverton

27	1301EST				0	0	0.50K		Thunderstorm Wind (G50)
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Trees were downed on Metze Road.

A thunderstorm with gusty winds moved across Fauquier County during the early afternoon of the 27th. Trees were downed onto Metze Road near Calverton. Large tree branches fell onto power lines in Warrenton.

VIRGINIA, Northwest

NONE REPORTED.

VIRGINIA, Southwest

Henry County

Fieldale

04	2018EST				0	0	0		Flash Flood
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2130EST

Henry County

Fieldale

04	2100EST				0	0	0		Thunderstorm Wind (G65)
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Thunderstorms on the 4th produced flash flooding and wind damage.

In Fieldale, heavy thunderstorm rains caused flash flooding of Jordan Creek with several people evacuated and resulted in mudslides.

Thunderstorms winds on the 4th downed trees in Fieldale.

Carroll County

2 NW Hillsville

08	1845EST				0	0	0		Thunderstorm Wind (G65)
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Carroll County

Dugspur

08	1850EST				0	0	0		Thunderstorm Wind (G65)
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Tazewell County

Tazewell

08	1910EST				0	0	0		Hail (0.80)
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Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of		Estimated		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, Southwest</u>									
Craig County									
Sinking Creek	08	1935EST			0	0	0		Thunderstorm Wind (G65)
Carroll County									
Dugspur	08	1945EST 2045EST			0	0	0		Flash Flood
Carroll County									
3 NE Hillsville	08	1950EST 2015EST			0	0	0		Flash Flood
Henry County									
Bassett	08	2000EST			0	0	0		Thunderstorm Wind (G65)
Patrick County									
Stuart	08	2125EST 2215EST			0	0			Flash Flood
Thunderstorms on the 8th produced damaging winds, flash flooding, and hail up to penny size.									
Thunderstorm winds downed trees in Dugspur, Bassett, 2 miles northwest of Hillsville onto Route 52, and in Sinking Creek onto Route 42.									
Heavy thunderstorm rains caused flash flooding of Island Creek across Route 221 3 miles northeast of Hillsville, flooded and closed Riverside Drive and numerous secondary roads around Stuart. Numerous roads were flooded with some mudslides in Dugspur.									
Franklin County									
Rocky Mt	11	1530EST			0	0	0		Thunderstorm Wind (G60)
Giles County									
Pembroke	11	1545EST			0	0	0		Thunderstorm Wind (G60)
Giles County									
2 W Pembroke	11	1545EST			0	0	0		Thunderstorm Wind (G60)
Carroll County									
Galax City	11	1730EST			0	0	5K		Lightning
Halifax County									
3 NW Nathalie	11	1740EST			0	0	0		Hail (0.88)
Halifax County									
3 NW Nathalie	11	1740EST			0	0	0		Thunderstorm Wind (G60)
Smyth County									
East Portion	11	1800EST 2200EST			0	0	0		Flash Flood
Smyth County									
Sugar Grove	11	1800EST 1900EST			0	0	0		Flash Flood
Thunderstorms during the 11th produced damaging winds, flash flooding, dangerous lightning, and hail up to nickel size.									
Thunderstorm winds downed trees 2 miles west of Pembroke, in Pembroke, in Rocky Mount, and 3 miles northwest of Nathalie.									
Heavy thunderstorm rains caused Flint Creek to flood across Route 16 and Cedar Springs Road, both in in Sugar Grove. Numerous county roads were partially washed out in the eastern portion of Smyth County.									
Lightning struck a tree in Galax, causing it to explode and cause minor damage to nearby home.									
Pittsylvania County									
Countywide	12	1230EST 1330EST			0	0	0		Thunderstorm Wind (G70)
Charlotte County									
3 NE Wylliesburg	12	1250EST			0	0	0		Thunderstorm Wind (G65)
Henry County									
Countywide	12	1315EST 1325EST			0	0	0		Thunderstorm Wind (G70)

Thunderstorms on the 12th produced damaging winds.

Thunderstorm winds downed trees onto Route 47, 3 miles northeast of Wylliesburg, across Pittsylvania County, and across Henry County.

Storm Data and Unusual Weather Phenomena

June 2003

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, Southwest</u>									
Patrick County									
Claudville	13	1935EST 2250EST			0	0			Flash Flood
Patrick County									
Claudville	13	1935EST 2250EST			0	0			Flash Flood
Patrick County									
12 NE Stuart	13	2135EST 2250EST			0	0			Flash Flood
Thunderstorms with very heavy rain produced flash flooding during the evening of the 13th.									
Flash flooding in Claudville occurred as Hooker Creek overflowed its banks. This flooded and closed the following roads, Dobyons, Little Dan River and Old Orchard Loop.									
Several small streams also overflowed their banks 12 miles northeast of Stuart.									
Bedford County									
Chamblissburg	14	1715EST 1845EST			0	0			Flash Flood
Bedford County									
Hardy	14	1715EST			0	0	0		Thunderstorm Wind (G60)
Thunderstorms with very heavy rain brought flash flooding and strong winds.									
Thunderstorm winds downed trees in Hardy.									
Numerous roads were closed in Chamblissburg due to flash flooding and mudslides.									
Roanoke County									
Starkey	16	0830EST 0915EST			0	0			Flash Flood
Roanoke County									
3 E Starkey	16	0830EST 0915EST			0	0			Flash Flood
Roanoke County									
Vinton	16	0830EST 1200EST			0	0			Flash Flood
Bedford County									
4 S Stewartville	16	0855EST 1045EST			0	0	5K		Flash Flood
Botetourt County									
3.5 SE Cloverdale	16	0900EST 0945EST			0	0	0		Flash Flood
Bedford County									
Hardy	16	0910EST 1045EST			0	0			Flash Flood
Henry County									
Spencer	16	0930EST 1100EST			0	0			Flash Flood
Danville (C)									
Danville	16	1200EST 1330EST			0	0			Flash Flood
Bedford County									
Goodview	16	1630EST 1700EST			0	0	10K		Flash Flood

Heavy rains produced flash flooding during the morning and early afternoon of the 16th.

An area of heavy rain caused flash flooding 3 miles east of Starkey, as well as in the town of Starkey in Roanoke County. Heavy rains also produced flash flooding of Tinker and Glade Creeks in Vinton, closing some streets. This area of heavy rain then produced flash flooding over Western Bedford County. Route 757, four miles west of Stewartville was washed out. Route 608 was closed due to

Storm Data and Unusual Weather Phenomena

June 2003

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

Heavy rain caused flash flooding on Route 630 in Spencer in Henry County.

Flash flooding also affected the city of Danville as heavy rain brought Apple Branch Creek out of its banks.

Smyth County

Broadford	16	1630EST			0	0			Flash Flood
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Slow moving thunderstorms brought excessive rains to Smyth County the afternoon of the 16th. The heavy rain caused a mudslide in Broadford.

Carroll County

Byllesby	18	1715EST			0	0			Flash Flood
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Grayson County

2 N Fries	18	1715EST			0	0			Flash Flood
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Grayson County

Fries	18	1720EST			0	0			Flash Flood
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Craig County

New Castle	18	1915EST			0	0			Flash Flood
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Heavy rains during the late afternoon and evening of the 18th caused flash flooding.

A thunderstorm with excessive rainfall produced flash flooding of Eaglebottom Creek, with numerous road closures, 2 miles north of Fries in Grayson County, as well as one road in Fries. The heavy rain from this storm also caused Brush Creek to flood in Northwest Carroll County, at Byllesby. Numerous roads were also closed.

Heavy rains produced flash flooding around New Castle in Craig County. The southbound lane of Highway 311 was flooded, as were several other roads in and around New Castle.

WASHINGTON, Northeast

Chelan County

Wenatchee to Cashmere	09	1600PST			0	0			Heavy Rain
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During the late afternoon of June 9th a thunderstorm dumped up to 1/3 of an inch of rain in a short period of time. Minor urban flooding of storm drains and culverts resulted. Highway 2 between Wenatchee and Cashmere was closed briefly due to water ponding over all four lanes of the road.

Spokane County

Spokane	10	1315PST			0	0			Hail (0.75)
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Pend Oreille County

Newport	10	1407PST			0	0			Hail (1.50)
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Pend Oreille County

Newport	10	1415PST			0	0			Hail (1.00)
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Pend Oreille County

1 NW Newport	10	1415PST			0	0			Hail (2.00)
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Spokane County

Otis Orchards	10	1545PST			0	0			Hail (0.75)
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Spokane County

Spokane	10	1622PST			0	0			Hail (0.75)
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During the afternoon of June 10th a cluster of thunderstorms developed over northeastern Washington. Many of these thunderstorms contained large hail. Numerous reports from spotters were received of 3/4 inch diameter hail. Reports of hail with diameters of one to two inches were received from the Newport area.

WASHINGTON, Northwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

June 2003

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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WASHINGTON, Southeast

Walla Walla County

2 S Wallula Jct	29	1400PST 1900PST			0	0			Wildfire
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A lightning sparked fire on Hatch Grade burned 150-200 acres of grass, sagebrush, and wheat. Fire District number five, the College Place Fire Department, and firefighters from the U.S. Fish and Wildlife Service all assisted in putting out the blaze.

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

WVZ052>053

Berkeley - Jefferson

01	0400EST 1300EST				0	0	2K		Strong Wind
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A strong cold front moved through the region during the early morning hours of the 1st. After the front passed, winds gusted up to 45 MPH through early afternoon. In nearby Maryland and Virginia, scattered trees were downed.

Morgan County

Countywide	07	0600EST 1200EST			0	0			Heavy Rain
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Jefferson County

Countywide	07	1200EST			0	0			Heavy Rain
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Showers and thunderstorms with heavy rainfall moved through the Eastern Panhandle during the morning and early afternoon hours of the 7th. Around 2 inches of rain accumulated and some roads were covered by water. In Jefferson County, the Potomac River reached 13 feet at Shepherdstown at 2:45 PM on the 8th. Flood Stage is 15 feet. Water began to overflow low lying areas along the river, including portions of River Road just upstream from the water plant. In Morgan County, water covered Route 9 at a low spot in Allensville.

Hardy County

Moorefield	12	1415EST			0	0	1K		Thunderstorm Wind (G50)
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Trees were downed.

Jefferson County

Charles Town	12	1445EST			0	0	2.5K		Lightning
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A home caught fire after being struck by lightning.

Jefferson County

Charles Town	12	1445EST			0	0	2K		Thunderstorm Wind (G50)
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Trees and power lines were downed.

Hampshire County

Green Spg	12	1730EST 1830EST			0	0			Flash Flood
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Water overflowed onto Green Spring Bridge. A woman had to be rescued from the roof of her car after being caught in flood waters.

Showers and thunderstorms with heavy rainfall and high winds moved through the Eastern Panhandle during the afternoon and evening of the 12th. In Hardy County, trees were downed in Moorefield. In Hampshire County, heavy downpours caused water to overflow onto Green Spring Bridge in Green Spring. A motorists got stuck in the flood waters and had to be rescued from the roof of her car. In Jefferson County, trees and power lines were downed in Charles Town. One tree was felled onto a car on Samuel Street. Job Corps Road was closed for an hour after a downed power line caused trees along the road to smoulder. In addition, a home in the county caught fire after being struck by lightning.

Hardy County

Countywide	13	1515EST 1615EST			0	0			Flash Flood
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Roads near Mathias were flooded.

Mineral County

Countywide	13	1515EST 1615EST			0	0			Flash Flood
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Secondary roads were flooded.

Berkeley County

Countywide	13	1615EST 1715EST			0	0			Flash Flood
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Roads were closed by high water in the Martinsburg area.

Storm Data and Unusual Weather Phenomena

June 2003

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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WEST VIRGINIA, East

Thunderstorms with heavy rainfall moved through the Eastern Panhandle during the afternoon and early evening of the 13th. In Hardy County, roads near Mathias were flooded. In Mineral County, some secondary roads were flooded. In Berkeley County, roads were closed by flooding near Martinsburg. In Jefferson County, water flowed over Leetown Road in Kearneysville.

Jefferson County

Harpers Ferry

14	1345EST				0	0			Hail (0.75)
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Penny sized hail fell. The time was estimated.

A severe thunderstorm dropped penny sized hail on Harpers Ferry as it passed through during the afternoon of the 14th.

WVZ052

Berkeley

21	2315EST				0	0			Flood
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22	2145EST								
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Opequon Creek rose nearly 3 feet over bankful stage.

Heavy rainfall on the 21st caused Opequon Creek to overflow its banks on the 22nd. In Martinsburg, the creek reached its bankful stage of 10 feet at 12:15 AM. It crested at 12.8 feet at 10:45 AM and fell below bankful stage by 10:45 PM. Water overflowed low lying areas along the creek including private property and a public picnic area. Some roads on the eastern edge of Martinsburg and near Blairton were also flooded. In addition, the creek inundated a concrete culvert in Martinsburg.

Berkeley County

2 S Martinsburg

30	2025EST				0	0	2K		Thunderstorm Wind (G50)
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A tree was downed onto a power line.

A thunderstorm with high winds moved through Berkeley County during the evening of the 30th. A tree was downed onto a power line just south of Martinsburg, which caused a transformer fire.

WEST VIRGINIA, North

Preston County

Kingwood

12	1825EST				0	0	1K		Thunderstorm Wind (G50)
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Trees down.

Marion County

2 E Colfax

14	1340EST				1	0			Flash Flood
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	1345EST								
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Major flooding along Route 310. Numerous roads washed out. Three boys, playing near a creek, were swept away. One died. Others rescued unharmed. Dead 10-yr old boy was found in Scratchers Creek near Hopewell Rd.

M10IW

Marion County

4 NE Valley Falls

14	1440EST				0	0			Flash Flood
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	1530EST								
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Hopewell Rd flooded.

Preston County

Newburg

14	1600EST				0	0			Flash Flood
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	1700EST								
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Scotch Hills Rd (off Route 92) flooded.

Marion County

Fairmont to 2.5 NW Fairmont

15	0415EST				0	0			Flash Flood
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	0500EST								
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Bonnars Ridge Rd flooded. Ices Run caused flooding near Barrackville.

Preston County

Reedsville

15	0420EST				0	0			Flash Flood
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	0500EST								
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Flooding along Route 7.

Marion County

2.5 NW Fairmont

20	1500EST				0	0	5K		Flash Flood
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	1530EST								
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Roads and basements flooded in Barrackville.

WEST VIRGINIA, Southeast

NONE REPORTED.

WEST VIRGINIA, West

Mingo County

Matewan

11	1340EST				0	0			Hail (0.88)
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Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>WEST VIRGINIA, West</u>									
Kanawha County									
Charleston to Elkview	11	1425EST 1615EST			0	0	3M		Flash Flood
Thunderstorm cells developed and intensified on the north side of a large complex of showers. Rains of 2.5 to 3.5 inches fell between 1340 and 1500E, in a narrow corridor from the Fort Hill section of Charleston on northeast, toward Big Chimney, Pinch, and Elkview. Charleston's airport received 2.4 inches of rain. Meanwhile, further east, the State Capital area of Charleston had less than 0.75 inches. Prior to these downpours, the ground was dampened by a lighter thunderstorm. Around a third of an inch of rain was measured at the airport between 1000 and 1100E. Also, 4 days earlier, on the 7th, an inch fell.									
Severe flash flooding occurred. Flooding was seen along such waterways as Magazine Branch, Sugar Creek, Woodward Branch, Mink Shoal Run, Coopers Creek, Indian Creek, Pinch Creek, and Blue Creek. The majority of the damage in Charleston was from Magazine Branch along Garrison Avenue. Urban development on adjacent hilltops also aided the runoff into the hollow. This stream is piped underground about halfway down the hollow. The 8 foot diameter conduit could not handle the runoff, forcing the excess to run down the street, flooding homes on either side. The most damage in the hollow was below Rockaway Road. Three homes were moved off their foundations, many others received water damage. Several vehicles were also flooded.									
Further northeast, stores, garages, and vehicles were flooded at the Pinch to Quick intersection. Six to 8 mobile homes were knocked off their foundations by flood waters along Turner Road near Elkview.									
This flood was the initial event, that when combined with additional flash flooding in June, prompted a federal disaster declaration. See FEMA's declaration number 1474 for the specifics.									
Lincoln County									
Harts	14	1505EST 1630EST			0	0	25K		Flash Flood
Creeks such as Big Harts and Frances flooded. Private bridges and outbuilding were damaged. About 4 homes had minor water damage.									
Taylor County									
Knotsville	14	1520EST 1630EST			0	0	5K		Flash Flood
Roads were flooded by small streams. No dwellings were affected.									
Logan County									
Chapmanville to Mitchell Hgts	14	1530EST 1730EST			0	0	20K		Flash Flood
Small streams feeding into the Guyandotte River flooded several roads.									
Gilmer County									
Normantown	14	1630EST 1800EST			0	0	25K		Flash Flood
A mobile home was flooded along Route 33, by the headwaters of Steer Creek.									
Kanawha County									
Pocatalico to Sissonville	14	1640EST 1800EST			0	0	30K		Flash Flood
Water overflowed onto Routes 21 and 622 from small streams. A few homes sustained water damage.									
Putnam County									
South Portion	14	1645EST 1830EST			0	0	600K		Flash Flood
Streams overflowed from Teays Valley on south. A rain gauge in Hurricane measured 2.7 inches of rain in 1 hour. One mobile home was destroyed, about a dozen other homes had major damage. One church and a public pool were also damaged.									
Cabell County									
Culloden	14	1700EST 1830EST			0	0	25K		Flash Flood
Roads along Ball and Charley Creeks flooded.									
Doddridge County									
West Portion	14	1930EST 2100EST			0	0	10K		Flash Flood
Small streams, such as Nutter Fork and Piggin Run, flooded. Route 18 was blocked by high water.									

Storm Data and Unusual Weather Phenomena

June 2003

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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WEST VIRGINIA, West

Kanawha County

Pocatalico to Charleston	16	0345EST 1100EST			0	0	7M		Flash Flood
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The initial flooding began along Grapevine Creek and Legg Fork in the Sissonville and Pocatalico region, but shifted southeast after dawn. The flooding became more severe after 0730E in the area from Charleston northeast toward Rutledge and Pinch. The axis of the heaviest rain was slightly east of the flash flood on the 11th. However, both flood events hit the Pinch vicinity hard. The airport was on the western edge of the heavy rain this Monday morning, measuring 1.9 inches between 0600-1000E. Amounts of 2.5 to 3.5 inches likely fell just to the east and northeast of the airport, with isolated amounts of 3.5 to 4 inches possible in those 4 hours. A National Weather Service employee measured 3 inches of rain on Valley Grove Branch near Rutledge.

Severe flash flooding hit Elk Two Mile, mainly downstream of its junction with Valley Grove Branch at Rutledge. This severe flash flooding also included the Baker Fork tributary. Other hard hit streams included Mill Creek, Indian Creek, Pinch Creek, and Blue Creek.

Businesses, plus the Kanawha County Animal Shelter, and a state and federal office building were flooded along Route 114. Some buildings had 4 feet of water inside. Employees of the Federal Express office sought refuge, from the rising water, on their flat rooftop. Passengers arriving at Yeager Airport could not leave the hilltop. Meanwhile, no one could get to the airport to catch departing planes.

An American Red Cross survey, including the events on the 11th and 16th, had 46 homes destroyed, over 150 homes with major damage. Around 50 apartment units were also destroyed or heavily damaged. Many vehicles were flooded, some washed into the stream bed.

The 2 flash floods on the 11 and 16th, contributed greatly to Charleston's monthly rain amount of 9.9 inches. It was the second wettest June on record at Charleston.

Nicholas County

Drennen	16	0830EST 1030EST			0	0	200K		Flash Flood
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Peters Creek and small tributaries such as Jones Branch flooded. Rain amounts of 2 to 3 inches likely fell. Two homes sustained major damage.

Boone County

South Portion	16	1645EST 2100EST			0	0	3M		Flash Flood
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The Pond Fork drainage from Wharton thru Bob White, Van, and Quinland, on toward Madison was hit hard. Route 85 was flooded and damaged. American Red Cross surveyed 46 mobile homes destroyed and 8 single family dwellings destroyed. State officials surveyed 10 to 15 businesses damaged.

Mingo County

Breeden	16	1645EST 1800EST			0	0	500K		Flash Flood
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The headwaters of Twelvopole Creek flooded. Downpours, containing 3 to 3.5 inches of rain in less than 90 minutes, skirted northern Mingo County before moving toward western Logan County. Evacuations took place along McCloud Branch. The American Red Cross surveyed 4 single family dwellings and 3 mobile homes destroyed.

Logan County

West Portion	16	1650EST 1800EST			0	0	4M		Flash Flood
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Localized downpours caused severe flash flooding from Hoover Branch of Big Harts Creek on northeast, through the Chapmanville vicinity. The Big Creek drainage, including North Fork, Garrett Fork, and Rocklick Branch, were flooded. Godby Branch also flooded. American Red Cross surveyed 12 single family dwellings and 4 mobile homes destroyed. Major damage occurred to 34 single family homes. In addition, 16 mobile homes had major damage. Some residents along Garrett Fork, sat on their roofs awaiting rescue. In the June flash flooding, damage to private homes in Logan County was second, only to Kanawha County.

Wayne County

Dunlow	16	1715EST 1845EST			0	0	350K		Flash Flood
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Twelvopole Creek flooded. Route 52 was damaged. About a dozen homes had major damage.

Mason County

Southside	16	1730EST 1900EST			0	0	100K		Flash Flood
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Southside measured 3.4 inches of rain. Evacuations were required in a mobile home park.

Putnam County

Robertsburg	16	1800EST 1930EST			0	0	15K		Flash Flood
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Localized downpours of 2 to 3 inches fell in an hour. Roads were flooded by the small creeks feeding into Eighteenmile Creek from the Mason County line.

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>WEST VIRGINIA, West</u>									
Cabell County									
Dudley Gap	16	1820EST 1930EST			0	0	50K		Flash Flood
									Private bridges and a church were flooded along small creeks, such as Jenkins Branch.
Logan County									
Chapmanville	17	2315EST 2345EST			0	0	20K		Flash Flood
									Godby Branch flooded Route 10. One house was evacuated.
Wayne County									
Crum	17 18	2345EST 0015EST			0	0	10K		Flash Flood
									Small streams flooded and closed roads, but did not affect nearby dwellings.
Mason County									
North Portion	19	1620EST 1700EST			0	0	250K		Flash Flood
									Flooding occurred around New Haven, Letart, and Upper Flats. A few evacuations were required. Combined with the downpour on the 16th, Mason County had 7 mobile homes destroyed.
Medowell County									
Iaeger	28	1926EST			0	0			Hail (1.00)
Wyoming County									
Cyclone	28	2025EST			0	0			Hail (1.00)
<u>WISCONSIN, Northeast</u>									
Winnebago County									
4 W Oshkosh Wittman F	08	1140CST	0.1	15	0	0			Tornado (F0)
Winnebago County									
Omro	08	1145CST			0	0			Funnel Cloud
Winnebago County									
Oshkosh	08	1205CST			0	0			Funnel Cloud
Winnebago County									
5 E Oshkosh Wittman F	08	1220CST	0.5	40	0	0			Tornado (F0)
5.5 ESE Oshkosh Wittman Fld		1226CST							
Calumet County									
4.3 W Brothertown to 4.1 WSW Brothertown	08	1242CST 1246CST	0.4	40	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

June 2003

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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WISCONSIN, Northeast

Wood County

4 S Marshfield Muni Ar	08	1259CST	0.1	50	0	0	5K		Tornado (F0)
4.1 S Marshfield Muni Arprt		1302CST							



Waterspout on Lake Winnebago. Photo by Troy Peterson.

Showers and thunderstorms developed across central and east-central Wisconsin during the late morning and afternoon hours, producing funnel clouds and four tornadoes.

A slow moving tornado that touched down about 4 miles south of Marshfield (Wood co.) tore siding from a garage, broke windows, destroyed a playhouse and a dog house, and blew two 50 pound barrels 200 yards away.

A tornado briefly touched down west of Oshkosh (Winnebago co.) but no damage was reported. Two other tornadoes that touched down over Lake Winnebago were viewed by numerous participants of a fishing tournament that was taking place on the lake. One of these tornadoes touched down about 5 miles east of Oshkosh (Winnebago co.) and the other touched down about 4 miles west of Brothertown (Calumet co.).

Winnebago County

Oshkosh	25	1545CST			0	0			Thunderstorm Wind (G50)
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Thunderstorms developed across Wisconsin in unstable air ahead of an approaching cold front. One of the storms produced winds that downed trees and power lines in Oshkosh (Winnebago co.).

WISCONSIN, Northwest

Burnett County

Alpha to 5 E Grantsburg	24	2107CST			0	0			Hail (0.75)
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WISCONSIN, Southeast

Green Lake County

2 N Markesan	08	1330CST			0	0			Funnel Cloud
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Fond Du Lac County

4.7 NNW Eden to 3.6 ESE Fond Du Lac	08	1333CST 1336CST	30	.8	0	0			Tornado (F0)
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A short-lived, weak tornado was videotaped by a storm chaser east-southeast of the city of Fond du Lac up on the ridge locally known as "The Ledge." This tornado spun up on the east side of Rienzi Cemetery, about one-half mile east of the intersection of County Trunk Highway K and Rienzi Rd., and moved north-northeast to just north of the intersection of County Trunk T and Artesian Rd in the vicinity of Taycheedah Creek. Only minor vegetative damage was noted to trees and grasses.

Fond Du Lac County

3 SE Eden	08	1420CST			0	0			Funnel Cloud
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Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>WISCONSIN, Southeast</u>									
Green Lake County									
3 E Kingston	08	1425CST			0	0			Funnel Cloud
Dodge County									
5 S Fox Lake	08	1435CST			0	0			Funnel Cloud
A cold-core low pressure system from the surface to 30,000 feet above the ground moved southeast through Fond du Lac County to Milwaukee County. The combination of daytime heating, surface dewpoints in the low to mid 60s, and the tight rotation of the low pressure resulted in the development of clusters or short lines of storms. Some of the storms managed to develop a rotating updraft and interacting outflow boundaries which led to the spin up of one tornado over Fond du Lac County. Refer to tornado report for more details. Several funnel clouds were also sighted. Many of the non-severe storms had gusty winds to 35 to 39 knots (40 to 45 mph), small hail, and brief heavy rains of one-half inch. Spotters indicated that cloud bases were low.									
Rock County									
3 NW Beloit	18	1252CST			0	0			Thunderstorm Wind (G56)
Columbia County									
Cambria to 4.5 N Fall River	18	1943CST 1953CST			0	0			Thunderstorm Wind (G50)
Dodge County									
4.7 S Randolph	18	1950CST			0	0			Thunderstorm Wind (G50)
Widely scattered marginally-severe thunderstorms popped up over parts of south-central and southeast Wisconsin during a typical summer day. Powerful gusty winds to an estimated 56 knots (65 mph) toppled large trees and some power-lines.									
Iowa County									
5 SE Highland	25	1305CST			0	0	1K		Thunderstorm Wind (G61)
Sauk County									
Lake Delton	25	1338CST			0	0			Hail (0.88)
Sauk County									
3 N Baraboo	25	1415CST			0	0			Thunderstorm Wind (G52)
Columbia County									
1 N Arlington	25	1420CST			0	0			Thunderstorm Wind (G52)
Rock County									
2 S Evansville	25	1428CST			0	0			Thunderstorm Wind (G65)
Columbia County									
2 W Friesland	25	1445CST			0	0			Thunderstorm Wind (G52)
Dane County									
Stoughton	25	1448CST			0	0			Thunderstorm Wind (G52)
Rock County									
5 SSW Evansville	25	1500CST			0	0	15K		Thunderstorm Wind (G52)
Fond Du Lac County									
3.2 NW Brandon	25	1505CST			0	0	1K		Thunderstorm Wind (G61)
Jefferson County									
3 N Jefferson	25	1515CST			0	0			Thunderstorm Wind (G52)
Dane County									
Rockdale	25	1520CST			0	0			Thunderstorm Wind (G52)
Clusters or short lines of thunderstorms, some severe, moved east-southeast through parts of south-central and southeast Wisconsin. The primary effect was powerful, downburst, straight-line winds that toppled large trees and some power-lines. Estimated gusts were mostly in the 52 to 56 knot range (60 to 65 mph). Two gustnadoes were observed southeast of Highland (Iowa Co.) on the west shore of Blackhawk Lake. Other than tearing up some trees, the gustnadoes blew around camping gear, tables, etc. A boat on Blackhawk Lake was spun around by one of the gustnadoes. A gustnado was also observed by a storm spotter northwest of Brandon (Fond du Lac Co.). Its path length was about 1/4 to 1/2 mile and it managed to shred or push down some corn crop and small tree limbs. Gustnadoes are ground-based vortices that spin up on a gust front preceding a downburst, and are not recognized as true tornadoes. Rather, they are documented as thunderstorm wind events. Last, but not least, the powerful thunderstorm winds blew over a silo located on a farm south of Evansville (Rock Co.).									
Sauk County									
3 W Plain	28	1455CST			0	0			Hail (1.00)
Sauk County									
3 W Plain	28	1507CST			0	0			Thunderstorm Wind (G52)
Jefferson County									
Ft Atkinson	28	1808CST 1818CST			0	0			Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

June 2003

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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WISCONSIN, Southeast

Powerful downburst, straight-line winds gusted to an estimated 52 knots (60 mph), resulting in toppled large trees. Large hail was also noted west of Plain (Sauk Co.).

WISCONSIN, Southwest

La Crosse County

Onalaska	07	1610CST			0	0			Funnel Cloud
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A funnel cloud was reported by an off duty National Weather Service employee.

La Crosse County

La Crosse	24	0342CST			0	0			Thunderstorm Wind (G54)
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Monroe County

3 S Sparta	24	0419CST			0	0	0.50K		Thunderstorm Wind (G52)
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Jackson County

5 S Black River Falls	24	0425CST			0	0	0.75K		Thunderstorm Wind (G52)
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Monroe County

Tomah	24	0430CST			0	0	1.5K		Thunderstorm Wind (G52)
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Winds gusts of 60 to 65 mph were reported by amateur radio operators and law enforcement officials.

Crawford County

Gays Mills	25	1124CST			0	0	0.50K		Hail (0.75)
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Crawford County

Wauzeka	25	1200CST			0	0	1K		Hail (1.00)
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Richland County

Gillingham	25	1200CST			0	0			Hail (0.75)
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Grant County

Platteville	25	1300CST			0	0	0.75K		Hail (0.75)
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Amateur radio operators and the public reported hail the size of dimes and quarters.

Grant County

Boscobel	28	1400CST			0	0	1.5K		Hail (1.75)
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Richland County

Boaz	28	1435CST			0	0	1.3K		Hail (1.00)
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Amateur radio operators and law enforcement officials reported hail the size of quarters and golf balls.

WISCONSIN, West

St. Croix County

Hudson	25	0000CST 0200CST			0	0			Flash Flood
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Western portion of the county flooded. Three to five inches of rain fell within a few hours, which produced street flooding in Hudson, WI. Several township roads were under water.

WYOMING, Central and West

Natrona County

10 S Casper	02	1940MST 1955MST			0	0			Hail (0.75)
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Sublette County

40 SE Pinedale	16	1400MST 1500MST			1	1			Lightning
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Lightning struck two hikers twice. After the first strike, they awaited for the storm to pass. They were then struck a second time as they waited. M200U

Washakie County

13 SSE Ten Sleep	16	1543MST			0	0			Funnel Cloud
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Natrona County

Hiland	16	1600MST			0	0			Hail (1.00)
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Natrona County

Hiland	16	1608MST			0	0			Hail (1.00)
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Fremont County

Lysite	16	1615MST			0	0			Hail (1.75)
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Fremont County

2 S Moneta	16	1630MST			0	0			Funnel Cloud
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Natrona County

2 W Hiland	16	1645MST			0	0			Hail (1.00)
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Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WYOMING, Central and West</u>									
Fremont County									
1 E Moneta	16	1645MST			0	0			Hail (1.00)
Fremont County									
10 N Lysite	16	1650MST 1750MST			0	0			Flash Flood
Creeks and streams reported out of their banks.									
Natrona County									
Casper	16	1715MST			0	0			Hail (1.75)
Reported on Zero Road on the west side of Casper.									
Natrona County									
13 SW Casper	16	1726MST			0	0			Hail (1.00)
Natrona County									
9 SW Casper	16	1742MST 1840MST			0	0			Flash Flood
Rocks, boulders, mud and water were over Highway 220 near mile marker 103.									
Fremont County									
4 W Shoshoni	17	1850MST 1900MST			0	0			Flash Flood
Water flowing over US Highway 20/26.									
Johnson County									
10 S Buffalo	19	1820MST 2130MST			0	0	60K		Flash Flood
Water reported flowing over Tisdale Road, 10 S of Buffalo. Flood waters washed out a portion of Trabing Road, 6 S of Buffalo. Two motorcyclists clung to a fence 6 E of Buffalo, as their motorcycles were washed away. Neither were injured.									
Sweetwater County									
64 ESE Rock Spgs	24	1230MST 1234MST	0	0	0	0			Tornado (F0)
Sweetwater County									
64 ESE Rock Spgs	24	1230MST			0	0			Thunderstorm Wind (G50)
Johnson County									
Buffalo	28	1405MST			0	0			Hail (0.75)
Fremont County									
58 NW Riverton	28	1505MST			0	0			Hail (1.00)
Fremont County									
10 N Ft Washakie	28	1540MST 1555MST			0	0			Funnel Cloud
Fremont County									
7 N Ft Washakie	28	1612MST			0	0			Hail (1.75)
Fremont County									
Ft Washakie	28	1629MST			0	0			Hail (1.75)
Fremont County									
Lander	28	1639MST 1645MST			0	0			Hail (1.00)
Fremont County									
7 N Lander	28	1652MST			0	0			Funnel Cloud
Natrona County									
Hiland	28	1719MST			0	0			Hail (1.00)
Fremont County									
30 W Jeffrey City	28	1805MST			0	0			Thunderstorm Wind (G50)
Natrona County									
27 W Casper	28	1820MST			0	0			Funnel Cloud
Fremont County									
Jeffrey City	28	1845MST			0	0			Hail (0.88)
<u>WYOMING, Extreme Southwest</u>									
NONE REPORTED.									

Storm Data and Unusual Weather Phenomena

June 2003

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

WYOMING, North Central

NONE REPORTED.

WYOMING, Northeast

Campbell County									
(Gcc)Gillette Arpt	02	1729MST			0	0	0	0	Thunderstorm Wind (G62)
Campbell County									
9 SE Gillette	02	1750MST			0	0	0	0	Hail (0.75)
Campbell County									
10 S Gillette	10	1425MST			0	0	0	0	Hail (1.00)
Campbell County									
10 S Gillette	10	1442MST			0	0	0	0	Hail (0.75)
Campbell County									
13 SSE Gillette	10	1450MST 1503MST			0	0	0	0	Hail (0.75)
Campbell County									
15 SE Gillette	10	1505MST 1510MST			0	0	0	0	Hail (0.88)
Campbell County									
12 SE Gillette	10	1507MST			0	0	0	0	Hail (1.00)
A severe thunderstorm moved across central portions of Campbell County. Hail to the size of quarters were reported in many areas south and southeast of Gillette. Hail fell for about fifteen minutes at a location 13 miles south-southeast of Gillette and covered the ground 3 inches deep.									
Crook County									
4 N Oshoto	10	1505MST 1520MST			0	0	0	0	Hail (1.75)
Crook County									
2 W Hulett	10	1540MST			0	0	0	0	Hail (0.75)
Crook County									
Colony	10	1625MST			0	0	0	0	Hail (1.00)
Campbell County									
1 E Weston	12	1550MST			0	0	0	0	Hail (0.75)
Campbell County									
10 SE Wright	15	1850MST 1905MST			0	0	0	0	Hail (0.88)
Campbell County									
15 SE Gillette	15	1930MST			0	0	0	0	Hail (1.00)
Crook County									
4 E Keyhole Reservoir	16	1738MST 1750MST			0	0	0	0	Hail (1.75)
Campbell County									
15 W Wright	16	1825MST			0	0	0	0	Hail (1.00)
Campbell County									
12 W Gillette	21	1250MST 1253MST	0.5	10	0	0	0	0	Tornado (F0)
Campbell County									
8 W Gillette	21	1304MST			0	0	0	0	Hail (1.75)
Campbell County									
Gillette	21	1309MST 1310MST			0	0	17M	0	Hail (2.75)
Campbell County									
5 E Gillette	21	1325MST 1329MST	1	10	0	0	0	0	Tornado (F0)
Campbell County									
5 E Rozet	21	1405MST			0	0	0	0	Hail (1.75)
Crook County									
5 N Moorcroft	21	1408MST			0	0	0	0	Hail (1.75)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WYOMING, Northeast</u>									
Crook County									
9 NE Moorcroft to 12 NE Moorcroft	21	1426MST 1430MST			0	0	0	0	Hail (1.00)
Crook County									
6 NW Sundance	21	1455MST 1500MST			0	0	0	0	Hail (0.75)
Crook County									
2 W Beulah	21	1528MST			0	0	0	0	Hail (0.75)
A strong upper-level shortwave moving over northeastern Wyoming produced a long lived supercell thunderstorm. The thunderstorm developed over western Campbell County and moved east across Gillette and continued to Rozet. The storm continued into southern Crook County, moving just north of Moorcroft and Sundance. West of Gillette, the storm became tornadic and produced brief tornadoes. One tornado briefly touched down 12 miles west of Gillette in the vicinity of Force Road, north of Interstate 90, with no damage. Another tornado briefly touched down near the Wyodak Power Plant, about 5 miles east of Gillette, also with no damage. Golf ball to baseball sized hail was common across Campbell and Crook Counties. Extensive hail damage was reported in Gillette, particularly across northern parts of the city. Auto dealerships estimated losses of several million dollars. Insurance companies estimated claims totals from automobile and roof damage to be in the millions of dollars.									
Campbell County									
3 E Spotted Horse	21	1810MST			0	0	0	0	Hail (1.00)
Crook County									
18 N Hulett	21	2015MST			0	0	0	0	Hail (0.75)
Campbell County									
16 N Weston	22	1445MST			0	0	0	0	Hail (0.75)
Crook County									
Lightning Flat	22	1530MST			0	0	0	0	Hail (0.75)
A supercell thunderstorm developed over northern Campbell County and proceeded to drop dime sized hail from north of Weston in Campbell County to Lightning Flat in extreme northwestern Crook County.									
Weston County									
19 SW Upton to 6 NE Upton	30	2019MST 2030MST			0	0	0	0	Thunderstorm Wind (G61)
High based thunderstorms developed over the Big Horn Mountains and moved across northeastern Wyoming. These storms produced strong winds as they moved across Weston County. Several spotters from southwest of Upton to northeast of Upton reported 60 to 70 mph wind gusts.									
<u>WYOMING, Southeast</u>									
Platte County									
20 NW Wheatland	01	1445MST 1449MST			0	0			Hail (1.75)
Platte County									
17 N Wheatland	01	1508MST 1511MST			0	0			Hail (0.75)
Platte County									
7 E Wheatland	01	1516MST 1519MST			0	0			Hail (0.75)
Laramie County									
2.5 S Burns	01	1628MST 1634MST			0	0			Hail (0.75)
Platte County									
Wheatland	01	1905MST 1914MST			0	0			Hail (1.00)
Nickel to quarter size hail reported.									
Platte County									
Chugwater	01	1945MST 1949MST			0	0			Hail (1.00)
Laramie County									
Burns	01	2049MST 2054MST			0	0			Hail (0.88)
Laramie County									
3 NE Carpenter	01	2059MST 2104MST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

June 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WYOMING, Southeast</u>									
Laramie County									
8 W Pine Bluffs	01	2100MST 2105MST			0	0	2K		Hail (2.50)
Albany County									
Laramie	04	0745MST 0800MST			0	0			Hail (0.88)
			Nickel size hail at Interstate 80 and Grand Street Exit.						
Laramie County									
17 W Cheyenne	10	1620MST 1625MST			0	0			Hail (0.75)
Niobrara County									
28 N Lusk	10	1640MST 1646MST			0	0			Hail (0.75)
Laramie County									
20 W Albin	10	1648MST 1652MST			0	0			Hail (0.75)
Laramie County									
5 S Cheyenne to 3 SE Cheyenne	10	1648MST 1656MST			0	0			Hail (0.75)
Niobrara County									
8 SE Redbird	10	1652MST 1657MST			0	0			Hail (1.00)
Goshen County									
Yoder	11	1720MST 1733MST			0	0			Hail (1.00)
Platte County									
Wheatland	20	1405MST 1410MST			0	0			Hail (0.88)
Goshen County									
Lingle	20	1440MST 1445MST			0	0			Hail (0.75)
Goshen County									
Lingle	20	1450MST 1451MST			0	0			Thunderstorm Wind (G52)
Carbon County									
Seminole Dam	23	1550MST 1553MST			0	0			Hail (0.75)
Carbon County									
32 NE Rawlins	23	1555MST 1556MST			0	0			Thunderstorm Wind (G52)
Laramie County									
Cheyenne to 2 E Cheyenne	23	1837MST 1845MST			0	0			Hail (1.00)
			3/4 to 1 inch hail reported on east side of Cheyenne, WY.						
Laramie County									
15 E Cheyenne to 20 E Cheyenne	23	1913MST 1920MST			0	0	30K		Hail (2.00)
			1 1/2 to 2 inch diameter hail reported.						
Laramie County									
8 NNE Burns	23	1952MST 1956MST			0	0			Hail (1.75)
Laramie County									
Albin	23	2005MST 2009MST			0	0			Hail (1.50)
Laramie County									
2 S Burns to Burns	23	2223MST 2227MST			0	0			Hail (1.75)
			1 inch to 1 3/4 inch hail reported in and south of Burns, WY.						

Storm Data and Unusual Weather Phenomena

June 2003

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

Goshen County

Lingle	23	2230MST 2234MST			0	0			Hail (1.00)
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Laramie County

Burns	23	2244MST 2249MST			0	0			Hail (1.75)
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Storm Data and Unusual Weather Phenomena

March 2003

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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Additions/Corrections

GEORGIA, North and Central

Catoosa County

Ringgold	19	1025EST			0	0	3K		Thunderstorm Wind (G50)
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The Catoosa county 911 center reported that several trees and power lines were blown down along Interstate 75. Several barrels were also blown off the interstate in this area.

Walker County

Fairview	19	1050EST			0	0			Hail (0.88)
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The Walker county 911 center reported that they had received several reports of penny to nickel size hail.

Catoosa County

5 NW Ringgold	19	1102EST			0	0	1K		Thunderstorm Wind (G50)
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The Catoosa county 911 center reported that several trees were blown down.

Dade County

Morganville	19	1510EST			0	0	0.25K		Thunderstorm Wind (G35)
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The Dade county 911 center reported that a tree was blown down at Old Hales Gap.

Walker County

Chickamauga	19	1550EST			0	0			Hail (0.75)
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The Walker county 911 center reported penny size hail.

Chattooga County

Lyerly to 4 W Lyerly	19	1555EST 1600EST			0	0	5K		Hail (1.75)
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The Summerville Post Office reported that a person experienced golf ball size hail while driving on Georgia Highway 42 between Summerville and Menlo. The hail caused damage to the vehicle. The Chattooga county 911 center reported quarter size hail in Lyerly.

Chattooga County

6 E Trion to Summerville	19	1617EST 1630EST			0	0			Hail (1.00)
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The public reported penny size hail east of Trion near the city of New. The Summerville News reported quarter size hail in Summerville.

Whitfield County

5 NW Dalton to Dawnville	19	1708EST 1715EST			0	0			Hail (0.88)
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Amateur radio operators relayed reports of penny to nickel size hail along and near Interstate 75 from northwest of Dalton at the Rocky Face exit into Dalton. The public reported penny size hail at Praetor's Mill near Dawnville.

Murray County

5 E Eton	19	1709EST			0	0			Thunderstorm Wind (G50)
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An amateur radio operator relayed a report from the Murray County Emergency Operations Center of a 55 to 60 mph wind gust measured on their local weather station.

Chattooga County

Lyerly	19	1710EST			0	0			Hail (1.00)
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The Lyerly police reported quarter size hail.

Polk County

Cedartown	19	1800EST			0	0			Hail (1.00)
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The Polk county Emergency Operations Center reported quarter size hail.

Heard County

Glenn to Franklin	19	1810EST 1830EST			0	0			Hail (0.88)
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The Heard county sheriff reported penny to nickel size hail in Glenn. A cooperative observer for the National Weather Service reported penny size hail in Franklin.

Haralson County

Felton	19	1815EST			0	0			Hail (0.88)
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The public reported penny to nickel size hail.

Storm Data and Unusual Weather Phenomena

March 2003

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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Additions/Corrections

GEORGIA, North and Central

Marion County Five Pts	19	1855EST			0	0	25K		Thunderstorm Wind (G50)
The public reported that strong thunderstorm winds blew part of a roof off a barn, blew over a grain auger, and knocked over one tree.									
Coweta County 2 NE Grantville to 3 E Newnan	19	1900EST 1915EST			0	0			Hail (0.75)
The Coweta county 911 center received reports of penny size hail from just northeast of Grantville to east of Newnan in the Thomas Crossroads area.									
Heard County Corinth	19	1900EST			0	0			Hail (0.75)
The Coweta county 911 center relayed a report of penny size hail.									
Coweta County Raymond	19	1910EST			0	0	1K		Thunderstorm Wind (G50)
The Coweta county 911 center reported that trees had blown down.									
Coweta County Newnan to 2 N Moreland	19	1918EST 1927EST			0	0			Hail (0.75)
The public reported penny size hail in Newnan and an amateur radio operator reported penny size hail just northeast of Moreland.									
Taylor County 2 N Butler to Butler	19	1920EST 1933EST			0	0			Hail (0.75)
The Taylor county 911 center reported penny size hail north of Butler and penny size hail was observed at a local grocery store in Butler.									
Taylor County Charing	19	1920EST			0	0	1K		Thunderstorm Wind (G45)
The Macon Telegraph reported that a large tree fell across Georgia Highway 137 near Charing. Several thousand customers were also left without power across the county.									
Crawford County Knoxville to 9 NE Knoxville	19	1949EST			0	0			Hail (0.75)
Amateur radio operators reported penny size hail.									
Bibb County Lizella	19	1950EST 2002EST			0	0			Hail (1.00)
Amateur radio operators reported quarter size hail.									
Taylor County Reynolds	19	1950EST			0	0			Hail (1.75)
The Taylor county 911 center reported golf ball size hail.									
Crawford County 3 E Roberta	19	2010EST			0	0	25K		Thunderstorm Wind (G52)
The Crawford county 911 center reported that several trees were blown down on automobiles.									
Peach County Ft Vly to Byron	19	2015EST 2026EST			0	0			Hail (1.00)
Several reports of quarter size hail were received from Byron, with penny size hail in the Fort Valley area.									
Peach County 6 NE Ft Vly	19	2019EST			0	0	10K		Thunderstorm Wind (G52)
The Peach Emergency Management Director reported that a 60 foot by 60 foot pole barn, enclosed on three sides, was completely destroyed. This structure was located about halfway between Fort Valley and Byron.									

Storm Data and Unusual Weather Phenomena

March 2003

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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Additions/Corrections

GEORGIA, North and Central

Bibb County Macon	19	2020EST			0	0			Hail (0.75)
			The public reported penny size hail.						
Twiggs County Huber	19	2025EST			0	0			Hail (0.88)
			An amateur radio operator reported nickel size hail.						
Wilkinson County Mc Intyre	19	2039EST			0	0			Hail (0.75)
			The public reported penny size hail.						
Houston County Warner Robins	19	2040EST 2050EST			0	0			Hail (2.50)
			Numerous reports of hail, ranging in size from penny to quarter to golf ball hail, were received from the public in the Warner Robins area. There was one report of tennis ball size hail.						
Baldwin County Hardwick	19	2050EST			0	0			Hail (0.75)
			The public reported penny size hail.						
Twiggs County Bullard	19	2050EST			0	0			Hail (1.75)
			The Twiggs county 911 center reported golf ball size hail.						
Houston County (Wrb)Warner Robins A t Warner Robbins Arpt	19	2059EST			0	0			Thunderstorm Wind (G54)
			The Warner Robins airport METAR observation indicated a wind gust of 54 knots or 62 mph.						
Henry County Hampton	19	2113EST			0	0			Hail (0.75)
			An amateur radio operator reported penny size hail.						
Wilkinson County Irwinton	19	2135EST			0	0			Hail (0.75)
			The Wilkinson county 911 center reported penny size hail.						
Wilkinson County Toombsboro	19	2200EST			0	0			Hail (0.75)
			The U.S. Post Office in Toombsboro relayed a report of penny size hail.						
Washington County Oconee	19	2205EST			0	0			Hail (0.75)
			The U.S. Post Office in Oconee relayed a report of penny size hail in Oconee. Most of the hail was less than dime size.						
Jefferson County Louisville	19	2320EST			0	0			Hail (0.75)
			The Jefferson county 911 center and the public both reported penny size hail.						
Coweta County Newnan to Sharpsburg	19	2336EST 2355EST			0	0			Hail (1.00)
			Several reports were received from the public, including one report from an off duty National Weather Service employee, of hail ranging in size from pennies to quarters were reported from Newnan to the Thomas Crossroads area east of Newnan to Sharpsburg.						

Storm Data and Unusual Weather Phenomena

March 2003

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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Additions/Corrections

GEORGIA, North and Central

Barrow County									
Bethlehem	19	2345EST			0	0			Hail (0.88)
	20	0003EST							
			The public reported penny to nickel size hail.						
Walton County									
Loganville	19	2350EST			0	0			Hail (0.75)
			The public reported penny size hail.						
Gwinnett County									
Centerville to Grayson	20	0000EST 0015EST			0	0			Hail (1.25)
			Numerous reports of penny to nickel size hail were received from the cities of Centerville, Snellville, and Grayson. One report of quarter size hail and another report of quarter to half-dollar size hail were received from Grayson.						
Gwinnett County									
Snellville	20	0015EST			0	0			Heavy Rain
			The public reported that some streets were flooded because of very heavy rain. In excess of three inches of rain fell across much of the county between midnight and 3 am.						
Meriwether County									
Durand	20	0015EST			0	0			Hail (0.88)
			The Meriwether county 911 center reported penny to nickel size hail.						
Fulton County									
College Park	20	0025EST			0	0	2K		Thunderstorm Wind (G50)
			The Fulton county Emergency Management Director reported that some power lines were blown down.						
Troup County									
La Grange	20	0050EST			0	0			Hail (0.75)
			The Troup county 911 center reported penny size hail.						
Clayton County									
Countywide	20	0200EST 0600EST			0	0			Flash Flood
			The Clayton county 911 center reported that excessive rainfall across the county in a 2-4 hour time period resulted in the flooding of many roads across the county. Upper Riverdale Road, Homestead Road, and Minnor Drive were all flooded and had to be closed. Numerous other roads around the county had standing water and minor flooding as well.						
Fayette County									
Countywide	20	0200EST 0300EST			0	0			Flash Flood
			The Fayette county 911 center reported that several roadways were flooded from heavy rain during a 2-3 hour period. Roads included Georgia Highway 54/McDonough Road east of Fayetteville, Georgia Highway 74 at Tyrone Road, Adams Road at Sandy Creek Road, and parts of Rising Starr Road. The flooding was limited to about a one-hour period and no road closures were reported.						
Henry County									
Countywide	20	0200EST 0600EST			0	0			Flash Flood
			The Henry county 911 center reported that excessive rainfall resulted in the flooding of several roads. Several roads had to be closed, including Pinehurst Road between Valley Road and Old Conyers Road, and Georgia Highway 20 at Interstate 75.						
Banks County									
South Portion	20	0300EST 0700EST			0	0			Flash Flood
			The Banks county 911 center reported that excessive rainfall resulted in the flooding of several roads in the south part of the county near the Jackson county border. U.S. Highway 441 had to be closed for several hours because of flooding.						
Coweta County									
3 E Newnan	20	0300EST 0800EST			0	0	8.5K		Flash Flood
			An off duty National Weather Service employee reported that flash flooding caused extensive damage to his home in the Thomas Crossroads area east of Newnan.						

Storm Data and Unusual Weather Phenomena

March 2003

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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Additions/Corrections

GEORGIA, North and Central

Barrow County

5 N Statham

20 0948EST
21 1545EST

0 0

Flash Flood

National Weather Service automated river gages indicated that because of excessive rainfall on the order of 3 to 5 inches in 6-hours or less, the Middle Oconee River on the Jackson/Barrow county line rose from 5 feet or less to flood stage of 16 feet in less than six hours. The river then continued to rise and crested at 19.7 feet around 7 pm in the evening. Moderate flooding begins at 18 feet and major flooding occurs at 22 feet.. Residents in the area reported that the river was higher than they had seen in years.

Jackson County

3 S Arcade

20 0948EST
1545EST

0 0

Flash Flood

National Weather Service automated river gages indicated that because of excessive rainfall on the order of 3 to 5 inches in 6-hours or less, the Middle Oconee River on the Jackson/Barrow county line rose from 5 feet or less to flood stage of 16 feet in less than six hours. The river then continued to rise and crested at 19.7 feet around 7 pm in the evening. Moderate flooding begins at 18 feet and major flooding occurs at 22 feet.. Residents in the area reported that the river was higher than they had seen in years.

Treutlen County

Soperton

20 1415EST

0 0

Hail (1.75)

The Treutlen county 911 center reported golf ball size hail.

Emanuel County

Twin City

20 1440EST

0 0

Hail (0.75)

The Emanuel county 911 center reported penny size hail.

Emanuel County

3 SE Twin City

20 1455EST

0 0

Hail (1.75)

The George L. Smith State Park reported golf ball size hail.

Telfair County

3 WSW Cobbsville

20 1505EST

0 0

Hail (1.00)

The Jacksonville Post Office relayed a report of quarter size hail. The hail lasted up to 15 minutes.

Storm Data and Unusual Weather Phenomena

April 2003

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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Additions/Corrections

ARKANSAS, Central and North Central

Lincoln County

4 SW Fresno	06	0900CST			0	0			Hail (0.88)
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Nickel sized hail occurred at Cane Creek State Park.

KANSAS, North Central

Phillips County

5 W Phillipsburg	29	0205CST			0	0	10K	0	Heavy Rain
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Three inches of rain fell in a very short amount of time and washed culverts out west of Phillipsburg.

Phillips County

5 W Phillipsburg	29	0205CST			0	0	25K	0	Thunderstorm Wind (G60)
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Phillips County

Phillipsburg	29	0220CST			0	0	0	0	Hail (1.00)
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Phillips County

13 N Phillipsburg	29	0245CST			0	0	100K	0	Heavy Rain
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Torrential rainfall of 3 to 7 inches fell in northern Phillips county and washed out culverts and small bridges on rural roads.

Smith County

9 N Kensington	29	0250CST			0	0	25K	0	Hail (1.25)
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Jewell County

Burr Oak	29	0320CST			0	0	0	0	Hail (1.00)
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Jewell County

13 NW Mankato	29	0405CST			0	0	25K	0	Hail (1.25)
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Late night thunderstorms dumped hail and snapped tree limbs in parts of north-central Kansas. Numerous limbs were broke west of Phillipsburg. Golfball size hail caused roof and vehicle damage north of Kensington, while hail of similar size covered the ground northwest of Mankato.

Smith County

Kensington	29	1920CST			0	0	0	0	Funnel Cloud
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Smith County

Athol	29	1935CST			0	0	0	0	Funnel Cloud
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Smith County

Thornburg	29	2000CST			0	0	0	0	Hail (1.00)
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More thunderstorms later in the day hit parts of northern Smith county. A large supercell thunderstorm produced many occurrences of funnel clouds, but no confirmed tornadoes. Hail also pounded part of the region.

NEBRASKA, South Central

NEZ039>041-046>049- Valley - Greeley - Nance - Sherman - Howard - Merrick - Polk - Dawson - Buffalo - Hall - Hamilton - York - 060>064-072>077- Gosper - Phelps - Kearney - Adams - Clay - Fillmore - Furnas - Harlan - Franklin - Webster 082>085

06	0900CST			0	0	0	0	Winter Storm
07	0000CST							

Though the calender said April, the scene across much of south-central Nebraska looked more like January. A winter storm pound the area and dumped from 6 to 13 inches of snow. The heaviest snow fell along and north of Interstate 80. Greeley measured 13 inches of fresh snow. Not far behind were Dannebrog and Wood River with 10 to 11 inches. Amounts in Kearney, Grand Island and Hastings ranged from 6.3 to 8.5 inches. The heavy wet snow brought very beneficial moisture to the region just ahead of the planting season. Water equivalent rates ranged from three-quarters to one and one-half inches.

Furnas County

2 S Oxford	15	1615CST			0	0	0	0	Hail (0.75)
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Storm Data and Unusual Weather Phenomena

April 2003

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

Additions/Corrections

NEBRASKA, South Central

Harlan County									
Oxford	15	1620CST			0	0	0	0	Hail (0.88)
Gosper County									
Elwood	15	1905CST			0	0	0	0	Hail (0.75)
Dawson County									
3 SW Eddyville	18	1517CST			0	0	0	0	Funnel Cloud
Dawson County									
15 N Lexington	18	1520CST	0.1	25	0	0	0	0	Tornado (F0)
A brief tornado was observed in open country north of Lexington by a Nebraska State Patrol officer.									
Dawson County									
18 N Lexington	18	1524CST			0	0	0	0	Hail (0.88)
Sherman County									
2 W Ashton	18	1625CST			0	0	0	0	Hail (0.88)
Sherman County									
6 S Loup City	18	1625CST	0.1	25	0	0	0	0	Tornado (F0)
The public reported a brief tornado south of Loup City.									
Sherman County									
3 SE Loup City	18	1640CST	0.1	25	0	0	0	0	Tornado (F0)
Another tornado was spotted for a short time just southeast of Loup City by a deputy sheriff.									
Valley County									
2 N North Loup	18	1655CST	0.1	25	0	0	0	0	Tornado (F0)
A brief tornado was seen by a spotter just north to town.									
Greeley County									
5 N Greeley to 7 N Greeley	18	1724CST 1728CST	2	50	0	0	75K	0	Tornado (F0)
The severe thunderstorm which had spawned some brief tornados earlier was to blame for a short path tornado centered about 6 miles north of Greeley. The tornado upset 2 center irrigation pivots and damaged a shelter belt.									
Greeley County									
6 W Spalding to 5 NW Spalding	18	1740CST 1745CST	3.5	50	0	0	40K	0	Tornado (F0)
Another tornado set down west of Spalding and overturned a brand new center irrigation pivot in its path.									
Phelps County									
Funk	29	0330CST			0	0	0	0	Hail (0.75)
Kearney County									
9 N Axtell	29	0350CST			0	0	25K	0	Hail (1.00)
Buffalo County									
Kearney	29	0355CST			0	0	500K	0	Hail (1.00)
Early morning thunderstorms dumped hail and heavy rain on Kearney. On the north side of town, the local Ford dealer reported hail damage to 257 vehicles. Minor street flooding was reported as well. Hail was also reported in northern Kearney and eastern Phelps counties. In some cases, hail was still six inches deep several hours after the storms passed.									
Nance County									
5 SW Belgrade	29	1837CST			0	0	0	0	Hail (0.75)
Nance County									
4 N Fullerton	29	1852CST			0	0	0	0	Hail (0.75)

Storm Data and Unusual Weather Phenomena

April 2003

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

NEBRASKA, South Central

Nance County									
Belgrade	29	1900CST			0	0	0	0	Hail (0.75)
Franklin County									
1 SW Franklin	29	2005CST			0	0	0	0	Hail (0.75)
Franklin County									
1 W Riverton	29	2005CST			0	0	0	0	Funnel Cloud
Webster County									
1 SW Red Cloud	29	2029CST			0	0	0	0	Hail (1.25)
Webster County									
Blue Hill	29	2040CST			0	0	50K	0	Hail (1.75)
Webster County									
Guide Rock	29	2055CST			0	0	0	0	Hail (1.25)
Nuckolls County									
6 W Superior	29	2107CST			0	0	0	0	Hail (0.75)
Nuckolls County									
2 NW Superior	29	2125CST			0	0	25K	0	Hail (1.25)
Dawson County									
5 NW Gothenburg	29	2200CST			0	0	0	0	Hail (0.75)
Thayer County									
Deshler	29	2221CST			0	0	100K	0	Hail (1.75)
Howard County									
Dannebrog	30	0018CST			0	0	0	0	Hail (1.00)
Merrick County									
Central City	30	0107CST			0	0	0	0	Hail (0.75)
Merrick County									
6 SW Havens	30	0116CST			0	0	0	0	Hail (0.75)
Dawson County									
7 NW Gothenburg	30	0118CST			0	0	0	0	Thunderstorm Wind (G58)

Thunderstorms erupted once again by evening and dumped hail across a large part of south-central Nebraska. A supercell thunderstorm drifted across the Kansas border into Franklin county and produced a few funnel clouds along with large hail and torrential rainfall. The storm continued east along U. S. Highway 136 and hammered Superior and Deshler with hail bigger than quarters. Farther north, scattered but less intense severe thunderstorms dropped hail from penny to quarters in size across areas mainly along and north of state highway 92.

Reference Notes:

Storm Data Disclosure

Storm Data is an official publication of the National Oceanic and Atmospheric Administration (NOAA) which documents the occurrence of storms and other significant weather phenomena having sufficient intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce. In addition, it is a partial record of other significant meteorological events, such as record maximum or minimum temperatures or precipitation that occurs in connection with another event.

Some of the information appearing in Storm Data may have been provided by or gathered from sources outside the National Weather Service (NWS), such as the media, law enforcement and/or other government agencies, private companies, individuals, etc. An effort is made to use the best available information, but because of time and resource constraints, information from these sources may be unverified by the NWS. Therefore, when using information from Storm Data, customers should be cautious as the NWS does not guarantee the accuracy or validity of the information. Further, when it is apparent information appearing in Storm Data originated from a source outside the National Weather Service (frequently credit is provided), Storm Data customers requiring additional information should contact that source directly. In most cases, NWS employees will not have the knowledge to respond to such requests. In cases of legal proceedings, under Department of Commerce regulations and/or rules of the court, NWS employees are not legally obligated to provide written or verbal testimony.

Fatality Codes: For events that include a fatality, there is a code containing the gender, age and fatality location at the end of the event narrative.

1st letter: Gender (M/F) – 2nd numbers: Age – 3rd letters Fatality location (see table below)

Example: M51IW – Male, 51 years of age, fatality occurred In Water.

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration
WCM	- Warning Coordination Meteorologist – The meteorologist at each NWS Office responsible for reporting severe weather events
LST	- Local Standard Time Storm Data attempts to always use “Standard Time”
EST	- Eastern Standard Time
EDT	- Eastern Daylight Time

CST - Central Standard Time
CDT - Central Daylight Time
PST - Pacific Standard Time
PDT - Pacific Daylight Time

Other Notes:

An “Episode” is an entire storm system and can contain many different types of events.

An “Event” is an individual type of storm event.

When listing wind speed values under “Character of Storm”, ex. High Wind (G81), the G indicates a “Gust” which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph. This number can be either E (estimated) by damage caused, or M (measured) by known calibrated anemometers. Ex. (M61) = measured 61 knots or E(75) = estimated at 75 knots.

All wind speeds listed are estimated by NWS personnel by the amount and type of damage unless otherwise noted with an “M” which represents an actual wind speed as measured by official NWS approved anemometer.

When listing hail size under “Character of Storm”, ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The fatalities, injuries, and damage amounts appearing in tropical cyclone events are attributed only to wind damage experienced in the coastal counties/parishes listed. Other tropical cyclone related events such as tornadoes and flooding are listed within their separate event types.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage (Suggested)
F0	Gale Tornado	40 - 72	Tree branches broken, chimneys damaged, shallow-rooted trees pushed over; sign boards damaged or destroyed, outbuildings and sheds destroyed
F1	Moderate	73 - 112	Roof surfaces peeled off, mobile homes pushed off foundations or overturned, moving autos pushed off the roads, garages may be destroyed. Category 1-2 hurricane wind speed
F2	Significant	113 - 157	Roofs blown off frame houses; mobile homes rolled and/or destroyed, train boxcars pushed over; large trees snapped or uprooted; airborne debris can cause damage. Category 3-4 hurricane wind speed
F3	Severe	158 - 206	Roofs and walls torn off well constructed houses; trains overturned; large trees uprooted, can knock down entire forest of trees. Category 5 hurricane wind speed
F4	Devastating	207 - 260	Well-constructed frame houses leveled; structures with weak foundations blown off some distance; automobiles thrown, large airborne objects can cause significant damage.
F5	Incredible	261 - 318	Brick, stone and cinderblock buildings destroyed, most debris is carried away by tornadic winds, large and heavy objects can be hurled in excess of 100 meters, trees debarked, asphalt peeled off of roads, steel reinforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the damage produced by F4 and F5 wind speeds that would surround the F6 winds.



Typical F0 Tornado Damage

Note the trees are stripped of leaves, but the trees remain standing. Only light roof damage and a few missing shingles.



Typical F1 Tornado Damage

Note the uprooted trees and missing shingles from the roof. There is significant roof damage.



Typical F2 Tornado Damage

This home is missing its entire roof but the exterior walls remain intact. Some of the stronger hardwood trees remain standing.



Typical F3 Tornado Damage

This home is missing the entire roof as well as some of the exterior walls. Trees are blown over or snapped near the base and outbuildings are destroyed.



Typical F4 Tornado Damage

This home is almost completely obliterated, with no walls standing. The debris from the home is where the house once stood.



Typical F5 Tornado Damage

These homes have been completely removed from their original locations. The debris field has been scattered some distance from their foundation.



Typical F5 Tornado Damage

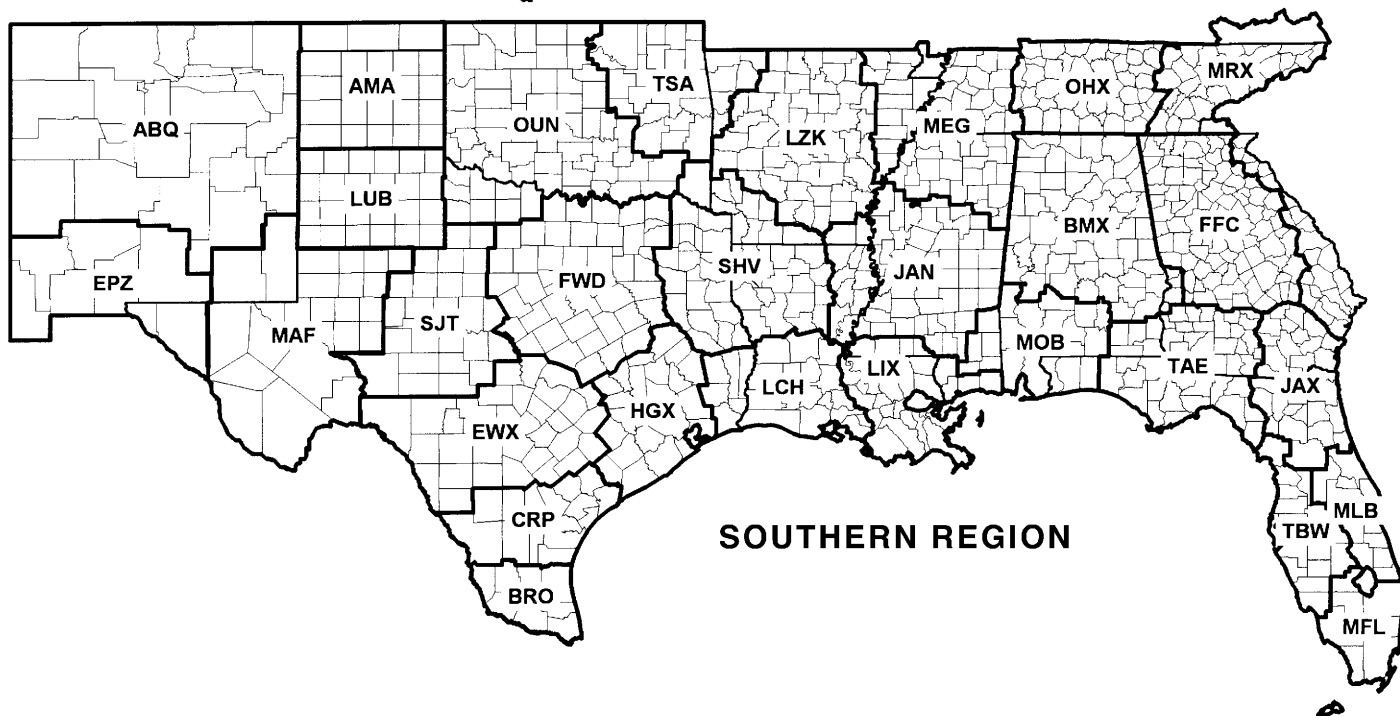
The asphalt surface has been peeled off of this road.

(All photographs courtesy of Brian Smith, Meteorologist, National Weather Service, Valley NE.)

COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS

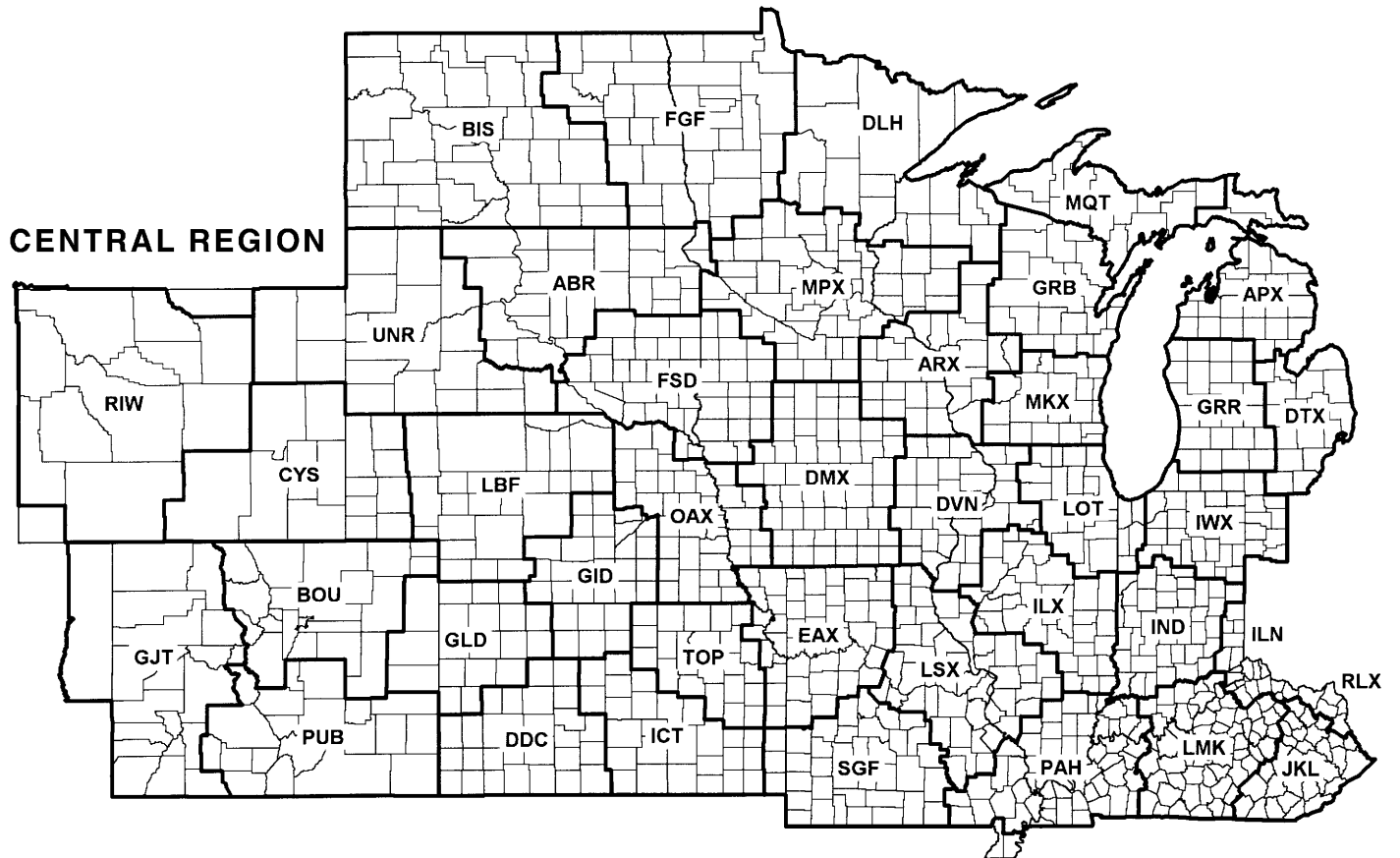
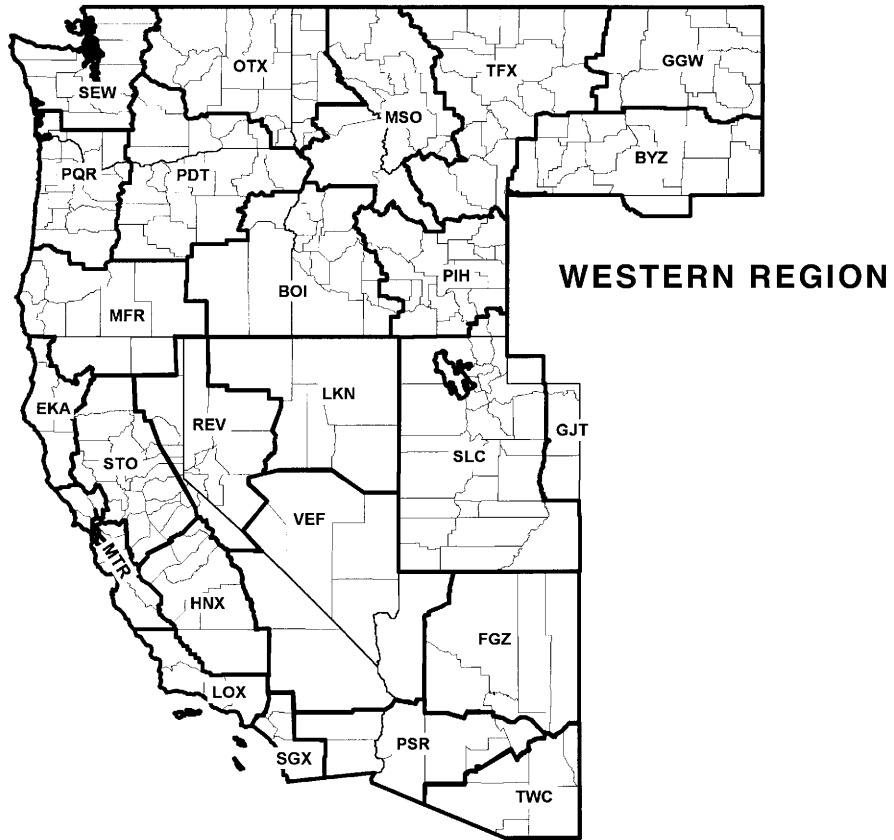


EASTERN REGION

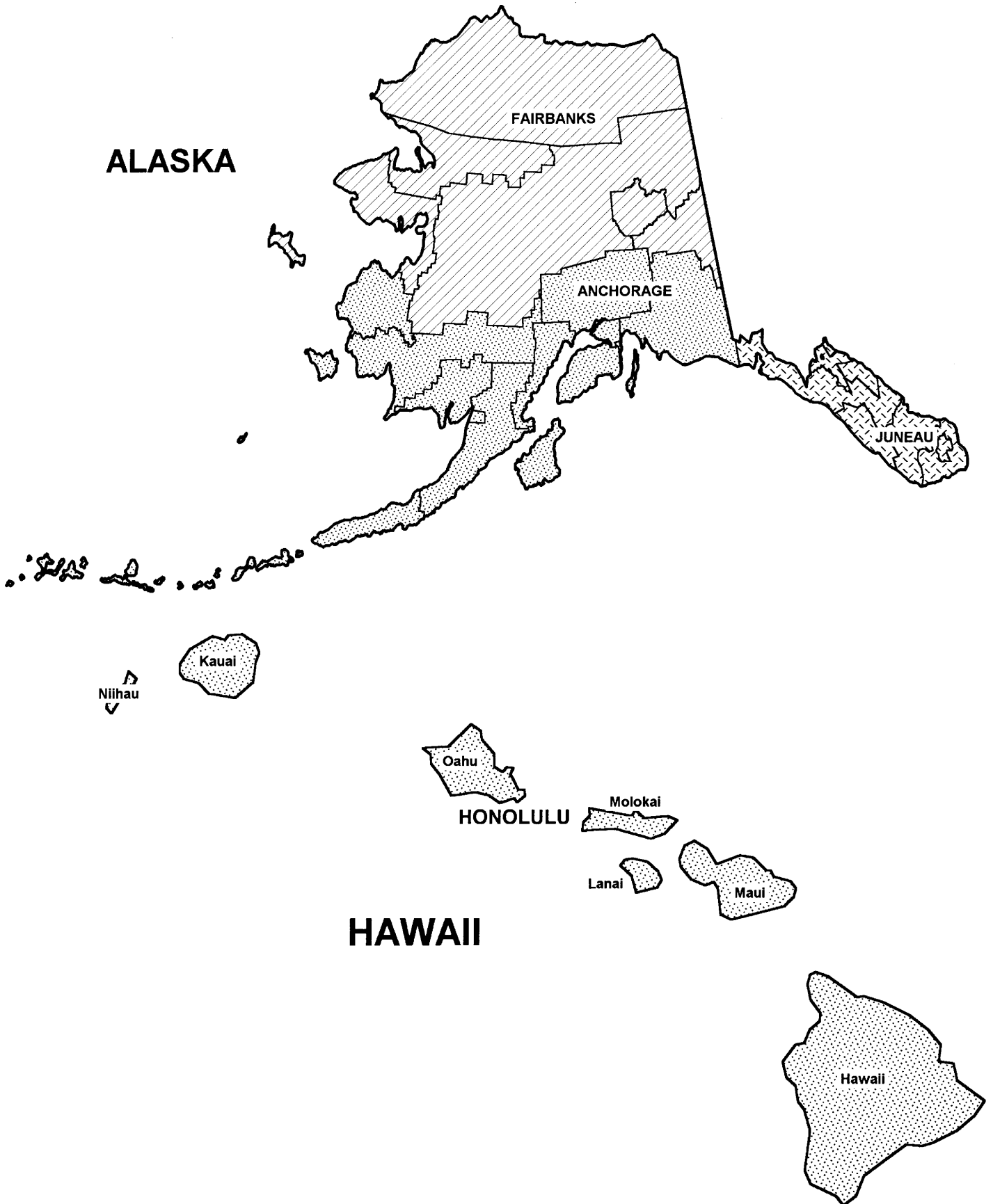


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COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



MODERNIZED COUNTY WARNING AREAS



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