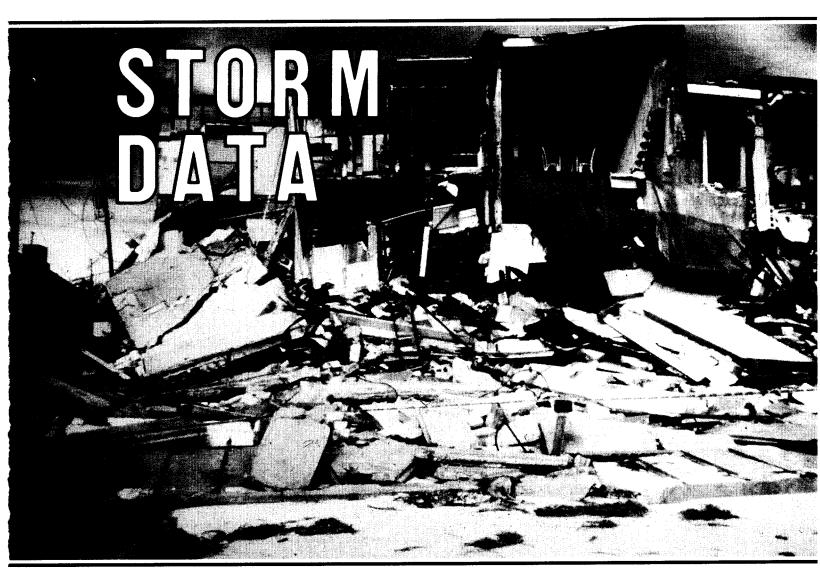
OCTOBER 1995 VOLUME 37 NUMBER 10



AND UNUSUAL WEATHER PHENOMENA WITH LATE REPORTS AND CORRECTIONS





NATIONAL OCEANIC AND / NATIONAL ENVIRONMENTAL SATELLITE, / NATIONAL CLIMATIC DATA CENTER ATMOSPHERIC ADMINISTRATION / DATA, AND INFORMATION SERVICE / ASHEVILLE, N.C.

Cover: This wall and building located in Panama City Beach was destroyed by Opal, a marginal Category 3 Hurricane (winds 111-130 mph) at landfall on October 4. Prior to making landfall, Opal was a Category 4 Hurricane (winds 131-155 mph) on the Saffir/Simpson Scale. Opal's minimum central pressure at landfall was 942 millibars (27.82 inches) with one-minute sustained winds of 100 knots (115 mph). Cover photo was taken on October 15. (*Photot courtesy: Ralph Clark, Department of Environmental Protection, Bureau of Beaches and Coastal Systems, Tallahassee, Florida.*)

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STORM DATA

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

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

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

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

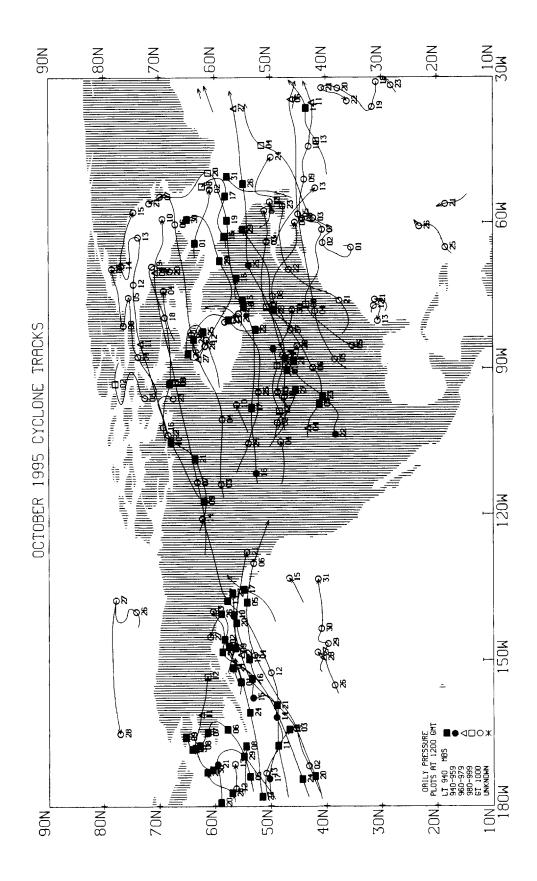
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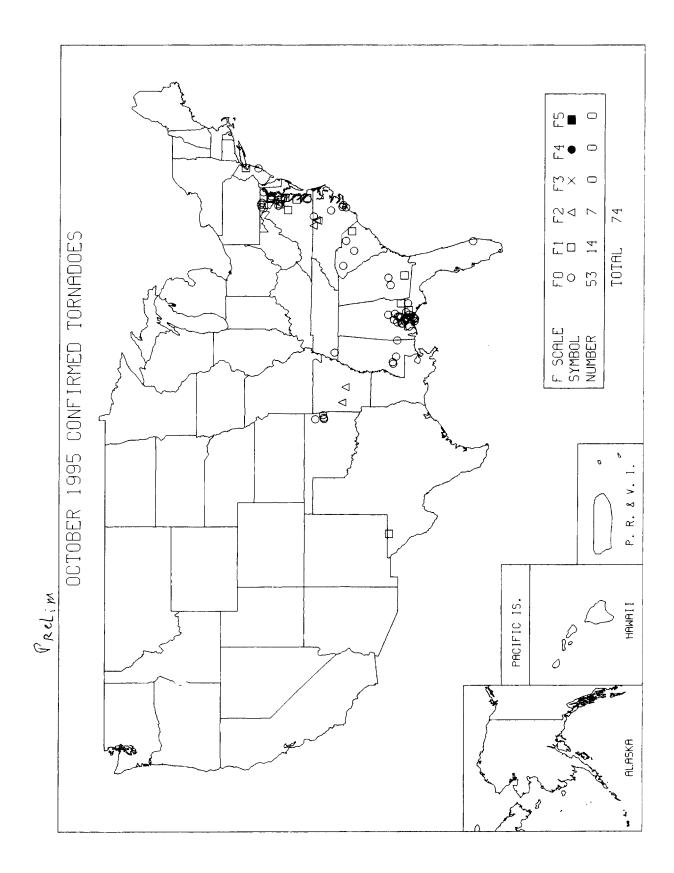
Any such items received by the editor will be for use in **STORM DATA** only. Any other use will be with the permission of the owner of said items. Materials submitted will be returned if requested in the original submission.

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

Kannet D Hoden

Director, National Climatic Data Center





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OUTSTANDING STORMS OF THE MONTH

1. TROPICAL CYCLONES IN THE ATLANTIC OCEAN BASIN A. HURRICANE OPAL - SEPTEMBER 27 - OCTOBER 6

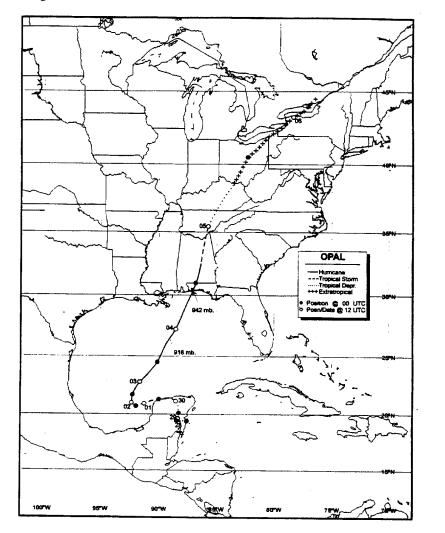
A tropical wave moved from the west coast of Africa on September 11 and moved westward across the Atlantic Ocean and into the western Caribbean Sea on September 23. The tropical wave merged with an area of low pressure in the vicinity of 15°North and 80°West. The system moved west-northwestward for the next several days. Deep convection increased near the center and the system became a tropical depression while located 70 miles south-southeast of Cozumel, Mexico at 1800 UTC on September 27. Steering currents were weak and the depression moved slowly over the Yucatan Peninsula for the next three days. After some intensification, the tropical depression became Tropical Storm Opal at 1200 UTC on September 30 while centered near the north-central coast of the Yucatan Peninsula. The tropical storm slowly strengthened and moved westward into the Bay of Campeche. Aircraft reports and satellite estimates suggested Opal reached hurricane status near 1200 UTC on October 2 while centered 150 miles west of Merida, Mexico. A large mid- to upper-level trough moving into the central United States began steering Hurricane Opal toward the north. On October 3 and 4th, the hurricane moved to the north-northeast then northeast and gradually accelerated. Rapid intensification occurred due to warm water temperatures of 28°C to 29°C (83°F -85°F) beneath the hurricane's circulation. A large, well established upper-level anticyclone over the Gulf of Mexico also aided further intenification. With a pressure fall of 53 millibars (1.57 inches) in 24 hours and 42 millibars (1.24 inches) in 12 hours, Opal intensified into a Category 4 Hurricane (winds 131-155 mph) on the Saffir/Simpson Hurricane Scale on October 4. This is a very rapid rate of deepening, but it is not unprecedented. Several western North Pacfic typhoons have deepened at an even faster rate. Opal reached maximum intensity with a minimum central pressure of 916 millibars (27.05 inches), and maximum sustained (1-minute average) surface winds estimated at 130 knots (150 mph) while centered about 250 nautical miles south-southwest of Pensacola, Florida at 1000 UTC on October 4. Weakening soon began, but Opal was a marginal Category 3 hurricane (winds 111-130 mph) as the center made landfall at Pensacola Beach, Florida near 2200 UTC on October 4. Cooler sea surface temperatures, increased upper-level westerlies, and the collapse of the inner eyewall likely caused the weakening. Opal was moving north-northeast near 20 knots (23 mph) at landfall. Opal's minimum central pressure at landfall was 942 millibars (27.82 inches) with maximum sustained (1-minute average) surface winds estimated at 100 knots (115 mph) in a narrow swath at the coast near the extreme eastern tip of Choctawhatchee Bay about midway between Destin and Panama City. Most of the coastal areas of the Florida panhandle experienced winds of a Category 1 (winds 74-95 mph) or 2 (winds 96-110 mph) hurricane. Extensive coastal damage was due primarily to the storm surge and associated waves. Opal weakened rapidly after moving inland, becoming a tropical storm over southern Alabama, and a tropical depression over southeastern Tennessee. The depression became extratropical as the system moved northeastward over the Ohio Valley and eastern Great Lakes into southwestern Quebec. Isolated tornadoes were reported from the Florida panhandle to the mid-Atlantic states. One tornado fatality occurred in Crestview, Florida, and another tornado injured several people and severely damaged a number of structures as it moved through Charles, Prince Georges, and Anne Arundel Counties in Maryland. (See map, page 6.)

Extensive damage from the storm surge occurred from southeastern Mobile Bay and Gulf Shores, Alabama, eastward through the Florida panhandle to Cedar Key, Florida. Still water marks inside of buildings and tide gage data indicated a storm surge of 5 to 14 feet above mean sea level. Water marks on the outside of buildings or debris lines on sand dunes within 200 feet of the Gulf of Mexico

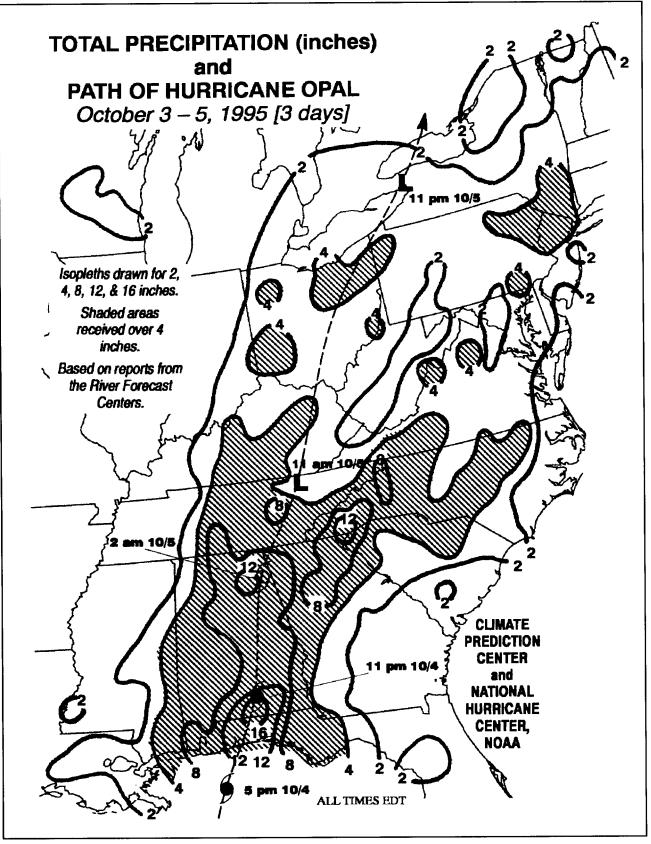
shoreline generally ranged from 10 to 21 feet. Many structures in the combined storm surge and the breaking wave zone suffered major structural damage. Strong winds spread well inland, downing numerous trees and causing power outages to nearly 2 million people in Florida, Alabama, Georgia, and the Carolinas.

The combination of Opal and a frontal system resulted in heavy rains along the path of the hurricane. Rainfall totals ranged from 5 to 10 inches over portions of the Florida panhandle, Alabama, and Georgia. Rains in South Carolina averaged 2 to 4 inches, while in North Carolina, amounts of 3 to 5 inches were common. Highlands, North Carolina recorded 8.95 inches, and Robinson Creek, North Carolina recorded 9.89 inches. Further north, 1 to 4 inch totals occurred over portions of the northeastern United States from Maryland northward. (See map, page 7.)

Total number of deaths directly associated with Opal is 59. Flooding in Guatemala and Mexico killed 31 and injured 19 people, respectively. The United States had 9 deaths; Alabama - 2 deaths from a tree falling on a mobile home; Florida - 1 death from a tornado; Georgia - 5 deaths from falling trees; North Carolina - 1 death from a tree falling on a mobile home. There were no reported deaths due to storm surge flooding. A preliminary estimate of insured property damage for the United States is \$2.1 billion. A total damage estimate from Hurricane Opal could reach \$3 billion with the addition of uninsured property damage, flood claims, and the cost of cleanup.



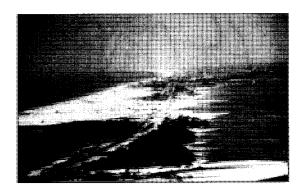
Map courtesy: National Hurricane Center

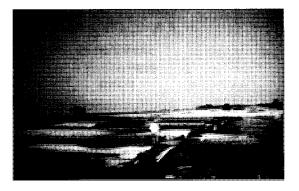






Above(left): An example of good and poor designs of condominiums on Ariola Drive in Pensacola Beach. Above(right): A severely damaged sand dune at Pensacola Beach.

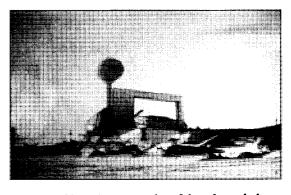




lighway 98 between Fort Walton Beach and Destin was destroyed by storm surge. Above(left) is an aerial view of lighway 98 and above(right) is a close-up view of Highway 98.







Above(left): An example of beach and dune erosion at Fort Walton Beach. Above: Destroyed condominiums at Navarre Beach. Left: This house was swept into Santa Rosa Sound at Navarre Beach.

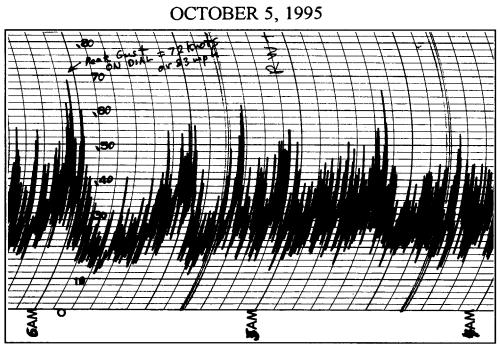
Materials provided by Ralph Clark, Department of Environmental Protection, Bureau of Beaches and Coastal Systems, Tallahassee, Florida. On October 5, 1995, the remains of Hurricane Opal moved through the southern Appalachians, and like Hurricane Hugo in September 1989, brought some hurricane force wind gusts to the mountains



brought some hurricane force wind gusts to the mountains despite the storms having travelled several hundred miles from the nearest shore. As the wind gust trace from Flat Top Mountain, N.C., (elevation 4320 ft.) shows **below**, there were several gusts that exceeded 60 knots (69 mph). The peak gust of 72 knots (83 mph) was observed at 06:03 EST on an accompanying dial indicator that is more responsive to short duration gusts. Damaging winds were also experienced in the lower elevations of the mountains as is indicated by the torn roofing on this barn, **left**, that was located ten miles southeast of Asheville in the Cane Creek Valley at 2200 feet

elevation. (Photo courtesy: Grant Goodge, NCDC, Asheville, N.C.)

TROPICAL STORM "OPAL"



FLAT TOP MNT., NC ELEV. 4320'

Eastern Standard Time

Wind chart courtesy: Grant Goodge, NCDC, Asheville, N.C.

B. TROPICAL STORM PABLO - OCTOBER 4 - 8

Pablo originated from a tropical wave which moved from the west coast of Africa to the Atlantic Ocean on October 3. The wave became a tropical depression at 1800 UTC on the 4th while located about 600 nautical miles southwest of the Cape Verde Islands. As it moved westward at 15 to 20 knots (17-23 mph), slow strengthening occurred. Pablo became a tropical storm on the 5th. The tropical storm quickly moved west-northwest and then west across the tropical Atlantic under the influence of the easterlies. Pablo reached maximum intensity at 0600 UTC on the 6th with an estimated central minimum pressure of 994 millibars (29.35 inches) with a one-minute maximum sustained wind speed of 50 knots (58 mph). The storm's sustained winds remained near 45 knots (52 mph) until the 8th. On October 8, Pablo encountered very strong vertical wind shear and quickly dissipated while centered about 135 nautical miles east-southeast of Barbados. There were no deaths or damages attributed to Pablo.

C. HURRICANE ROXANNE - OCTOBER 7 - OCTOBER 21

A distinct tropical wave moved westward from the west coast of Africa on September 26. It moved into the western Caribbean early on October 7. With a broad well-established low- to mid-level cyclonic circulation, cloudiness and showers were prevalent between the Cayman Islands and Honduras. A slow westward moving upper-level trough located over the Windward Passage allowed the tropical wave to become a tropical depression just east of Nicaragua at 1800 UTC on October 7. Satellite images and surface observations indicated a steady intensification. The depression became Tropical Storm Roxanne at 0000 UTC on October 9 and reached hurricane status at 0600 UTC on October 10. The upper trough previously located over the Windward Passage became a cut-off low and moved west-southwest into Central America. This allowed the outflow to become established over the hurricane in all quadrants. Roxanne moved northward due to a weak trough over Florida and the eastern Gulf of Mexico. The trough moved eastward and was replaced by a high pressure system as the hurricane turned northwestward and then westward toward the Yucatan peninsula and intensified. Roxanne reached maximum intensity with 100 knot (115 mph) winds (1- minute average) and a minimum central pressure of 956 millibars (28.23 inches) about 2152 UTC just to the southeast of Cozumel, Mexico. The hurricane made landfall just north of Tulum, Mexico about 0200 UTC on October 11. Roxanne continued to move westward over the Yucatan peninsula and emerged over the Gulf of Campeche as a minimal hurricane, and then temporarily weakened into a tropical storm.

Once the center of circulation was completely over the waters, Roxanne regained hurricane status for the next 60 hours. Steering winds over the Bay of Campache were weak and Roxanne meandered in the area for almost a week. In the meantime, feeder bands of heavy rain showers and ocean waves of 15 to 20 feet were affecting the coastal areas from the State of Campache to Veracruz. Roxanne was pushed to move southward into the Mexican coastal area near Veracruz by an approaching strong cold front. The hurricane gradually weakened to a tropical storm and then into a tropical depression, and the remnants moved southwestward into Mexico. The coastal area of the State of Campache to Veracruz had previously been affected by Hurricane Opal two weeks earlier and it is difficult to separate damages from both storms. Best estimates place damage in the Yucatan peninsula at \$1.5 billion. Roxanne was responsible for 14 deaths.

D. TROPICAL STORM SEBASTIEN - OCTOBER 20 - 25

Tropical Storm Sebastien originated from a tropical wave that moved westward across the Atlantic Ocean from October 13 through the 20th. On the 20th, deep convection became more concentrated about 350 nautical miles east of Barbados. Based on satellite analyses, it is estimated that the wave became a tropical depression at 1200 UTC on the 20th and a tropical storm at 0000 UTC on the 21st. For the next few days, Sebastien was embedded within the outer periphy of a large deep low-pressure system centered just northeast of Puerto Rico. The associated steering wind currents moved Sebastien toward the north-northwest at 15 knots (17 mph). A southwesterly wind shear (in the vertical dimension) precluded further significant development. Sebastien reached peak intensity of 55 knots (63 mph) at 1800 UTC on the 22nd northeast of the Leeward Islands. Sebastien began moving with the low-level flow toward the southwest on the 23rd. This movement brought Sebastien directly into the upper-level southwesterly wind shear and as a result Sebastien weakened to a tropical depression during the evening of the 23rd. Its dissipating low-level circulation was near the U.S. Virgin Islands 24 hours later with some remnant deep convection persisting well to the east. There were no reports of casualties or damages.

	Storm Data a	ind Ur	านรนส	ıl We	eathe	er Ph	eno	mena		
Location	Time Local/ Date Standard	Path Length (Miles)	Path Width (Yards)	Numb Perso Killed	er of ns Injured	Estimat Damag Property	ed crops	Character of S	October 1995	
ALADAMA Nout	h Control									
ALABAMA, Nort Iefferson County										
Birmingham	03 1300CST- 1900CST After a summer with v developed over central A Opal developed in the cer most of the rain falling o the airport and just south four and five feet deep afternoon. The airport w power shutdown for saf home park was evacuate were affected with road	Alabama ahea ntral Gulf of M during the m of there whe b. Birmingh vas shutdowr ety reasons. d and several	ad of a cold Mexico. Rai id-afternoor re roads we am police r in the even Some busir	front alor infall neasure n from 13 re closed eported the ing due to nesses in V	ig the Mis ured at the 00 to 170 due to hig nat 20 roa o water go Vestavia	ssissippi R e Birming 0 CST. G gh water in ads were o etting into along Patt	tiver. M ham airp reatest f n many l closed d the low on Creek	oist air flowe oort reached 6 lash flooding ow spots - wa ue to high wa er level of the c had water in	torms with very heav d into the area as Hui 5.94 inches for the da occurred in the area ater in some places be ater at one point duri terminal building fo them. In Tarrant, a	rrica y win arou etwe ing t rcing mob
ALZ001>050	04 1200CST- 05 1000CST Hurricane Opal moved a extensive and no county i damage decreasing from with many trees, signs, ar over a week. The center north-northeast with the before exiting the state no damaged signs. Mobile I short table below indica	in the state w n east-to-west of the storm e e center move ear the north nomes were d ates the high	vas spared se st across the s downed. A	ome effect state. D At the wor	t of the st amage als st, 2.6 m coving	torm. Dar so decreas illion peop ton/Escan	nage wa ed as yo ble in Al	cross the state s the greatest u went north abama were w nty line on th	in the eastern countie in the state. Damage vithout electricity, so e Florida border. It t	es wi vari me f
	City Birmingham Huntsville Anniston Tuscaloosa Columbus, GA	Wind Direction NE NE NW SSE		of Gus 48 mpl 55 mpl 35 mpl 46 mpl 44 mpl	1 1 1 1					
	Montgomery Dannelly Field Maxwell Air Force Base	E SE		63 mpl 90 mpl	1					
	Alabaster Ozark Dothan Heavy rain also caused flooding buildings. Wate	Unavailab SSE SE creeks and or damage occ	streams to s curred to stru	49 mpl 98 mpl 69 mpl swell to b ictures in	1 1 1 ankfull a many loc	ations who	ere wind	or falling tre	es damaged roofs. R	f wa ainf:
	measurements made for	-	FLOOD			T on Octo FAGE (DAT	ES)		ollowing reports:	
	RIVER AND STATION (FEET) <u>ALABAMA RIVER</u>	N STAGE		FROM	ТО	STAGE	CREST (FT)	DATE		
	Montgomery Selma Millers Ferry L&D (Lo [,] Claiborne L&D (Lower	·) 42	35 45 66 10/8	10/6 10/6 10/6 10/13	10/10 10/9 10/11 46.50	40.01 Est. 47-4 70.67	8 10/11	10/8 PM 10/8 10/10		
	BLACK WARRIOR RI Selden L&D (Lower)	<u>VER</u>	90	10/6	10/7	90.74		10/7		
	<u>CATOMA CREEK</u> U.S. 331 Bridge <u>COOSA RIVER</u>		20	10/6	10/7	21.80		10/7 AM		
	Weiss Reservoir Gadsden Logan Martin Reservoir TALLAPOOSA RIVER	r 465	564 511 10/5	10/5 10/5 10/12	10/11 10/8 472.52	566.86 512.68	10/7 A	10/8 AM 10/5 AM M		
	Wadley	<u>`</u>	13	10/6	10/8	14.82		10/6		
	<u>VILLAGE CREEK</u> Avenue W - Ensley Following table shows Autauga County		•	10/5 nty:	10/6	11.98		10/5 AM		
	Billingsley Bibb County		5.00							
	Centreville CO Blount County	OP	3.92							
	Oneonta Bullock County Union Springs		4.35							
	Calhoun County Anniston Airpo	/	4.65 5.97							
	Chilton County Clanton		6.30							
ALABAMA, Nort	h Central Cont'd									
· ·	Colbert County Muscle Shoals		1.79							
	Coosa County Rockford		5.12							

cation	Time Local/ Date Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995 Character of Storm
		· · ·	. ,	5	1 2 1	
	Cullman Co	unty	2.05			
	Hanceville Dallas Coun	ty	3.25			
	Selma De Kalb Cou	unty	6.09			
	Fort Payne Valley Head	d	6.10 6.02			
	Etowah Cou Gadsden W	ntv	4.60			
	Fayette Cour Fayette		1.80			
	Franklin Cou	unty				
	Hodges Greene Cour Selden L&I	nty	1.41			
	Selden L&I Gainesville) L&D	3.65 2.05			
	Hale County Moundville		4.00			
	Jackson Cou Bridgeport		3.96			
	Jefferson Co	ounty				
	Birminghan Pinson	-	3.79 2.92			
	Lowndes Co R.F. Henry	L&D	3.57			
	Madison Co Huntsville	unty	2.29			
	Marengo Co Demopolis		4.16			
	Marion Cour Hamilton		1.11			
	Marshall Co	unty				
	Boaz Montgomery	y County	5.05			
	Montgomer Perry Count	y y	3.22			
	Marion Uniontown		$1.93 \\ 4.00$			
	Pickens Cou Aliceville		1.91			
	Reform Bevill L&D		1.93 2.20			
	Pike County		2.20			
	Troy		3.13			
	Shelby Cour Montevallo		2.85			
	Oak Mtn St	ate Park	4.38			
	Helena Indian Sprir	ngs	4.31 3.36			
	Talladega Co	ounty	6.05			
	Sylacaŭga	- .	6.05			
	Tallapoosa C Alexander C		3.00			
	Dadeville Walnut Hill	3W 6.26	4.84			
	Tuscaloosa (Tuscaloosa	County	3 31			
	Oliver L&D Holt L&D)	3.34 2.20 2.05			
	Bankhead L	.&D	2.05 3.60			
	Walker Cour	nty	275			
	Carbon Hill Jasper Sumiton		2.75 3.08 2.70			
	Wilcox Cour	nty				
	Alberta Millers Ferr	•	5.26 5.50			

ALABAMA, North Cental Cont'd

Winston County Haleyville

Two people were killed in Gadsden, Etowah County, when high windoppled a massive oak tree onto their mobile home. Several other people were killed in the state but those deaths such as house fires and asphyixiation were not directly attributable to the weather. M35MH, F33MH Damage figures are estimates from information obtained from the American Red Cross, Alabama Emergency Management Agency, and newspaper articles. Additional information on Hurricane Opal can be found under the heading for Southwds Alabama prepared by the National Weather Service Office in Mobile and under Southeast Alabama prepared by the National

2.00

Location	Time Local/ Date Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995 Character of Storm
	Weather Service Off	ice in Tallaha	ssee, FL.			
Cullman County Jones Chapel	27 0750CST Dime-size hail was r	eported at Jon	es Chapel in	? ? northwest Cullma	??	Hail (0.75)
Tuscaloosa County Tuscaloosa	27 1135CST Lightning struck a ho Heavy rain caused no	use on Fair O	aks Lane kno	??? ocking down the c t flooding. Time i	10K ? himney and making s approximate.	Lightning, Heavy Rain ng holes in the roof but no fire was started
Tallapoosa County New Site	27 1449CST Thunderstorm wind community just north antennas were down	that sounded neast of New ed, shingles w	like a freigh Site in north ere taken of	??? t train according east Tallapoosa Co f several roofs, and	15K ? to witnesses cause ounty. Trees were d one porch was d	Thunderstorm Winds (G50) ed some property damage in the Simpso e blown downa roof was taken off a barn, amaged.
Lee County Marvyn	27 1553CST Nickel-size hail was	-		??	??	Hail (0.88)
Jefferson County Birmingham	Month-long October 1995, was the month of Octobe	ne wettest mo r was 11.79 in	nthon record iches breakir	at the official obs	??? erving site at the l f 10.95 set in 193	Record Rainfall Birmingham Airport. The total rainfall for 4.
ALABAMA, Southeast						
ALZ065>069 Southeast Alabama	occurred to homes an causing damage to yel	nd other struc nicles, building damage to the re lost in one ir lives in traf	tures with sp	oradic occurrence	es of more serious	Hurricane Opal norning hours. Widespread minor damage damage. Trees, many large, were downe percent of the region's electric customers al losses of cotton and peanut crops. Fix t directly attributable to the storms effects, by candle usage during the power outage
Houston County Dothan	27 1420CST A tornado downed tre	.2 es and damæed	50 I two busines	0 2 sses. A person was	90K 0 s injured at each b	Tornado (F1) usiness. (Length and width are estimated.)
ALABAMA, Southwest						
ALZ051>064 Southwest and South Alabama	damage loss was esti Southwest Alabama	mated at \$4 n was generall atest amount	nillion. All o y along and of rainfall w	of this years pecar east of Interstate	cropin Covingtor 65. The highest	Hurricane Opal County line into South Alabama near the pal moved rapidly north northeast through ST. The Governor of Alabama ordered ber 4 at 0500 CST. It was estimated tha fic on Interstate 65 was bumper to bumper e damage to the coastal counties was from ach to Dauphin Island. Some of the dune center of Opal moved through Covington short lived tornadoes occurred mostly near mes suffering major damage. Preliminary concunt National Forest. Preliminary crop n County was lost. Most of the damage in wind speeds were estimated at 90 mphri period in Evergreen. The lowest sea levle
Covington County 10 NW Florala	03 1330CST Trees and power line	s were blown	down along	00 Highway 55 north	10K 0 west of Florala.	Thunderstorm Winds
ALABAMA, Southwest	Cont'd					
Covington County Gantt	03 1830CST- 2030CST Heavy rains caused f	looding of co	unty road 96	0 0 pear Gantt The t	5K 0	Flash Flood or about two hours due to the high water.
Covington County Beda	04 0910CST			0 0	5K 0	Thunderstorm Winds ong Highway 137 near Beda.
Escambia County Atmore	04 1120CST Several trees and por			0 0	5K 0	Thunderstorm Winds
Covington County Andalusia	04 1245CST A tornado briefly tou	.1 Iched down of	25 n U.S. Highv	0 0 way 12 between Ar	10K 0 ndalusia and Rive	Tornado (F0) r Falls. Several trees and power lines were

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbo Person Killed	er of 18 Injured	Estima Dama Property	ited ge Crops	October 1995 Character of Storm
	blow	n down.							
Covington County 5 SW Andalusia	04 A tor	1730CST nado briefly touc	.1 thed down alor	25 1g U.S. High	0 way 29 bet	0 ween Pl	10K easant Ho	0 ome and	Tornado (F0) Andalusia. Several trees and power lines
Escambia County East	were 04 Seve down	blown down. 1730CST- 1800CST tral short lived to in the Damascu	.1 ornadoes were s area, in the B						Tornado (F0) enter of Opal. Tornadoes briefly touched wton. Trees and power lines were blown
Conecuh County Evergreen		n in all these are 1830CST rnado briefly tou		25 ear Evergree	0 n Trees a	0 nd power	10K lines we	0 re blow	Tornado (F0) n down
Butler County Georgiana		1850CST rnado briefly to							
Covington County Gantt Lake		-		-		-			Tornado (F0) al trees and power lines were blown down
Crenshaw County Brantley									Tornado (F0) and power lines were blown down.
Crenshaw County Saville	04 A tor	2000CST nado briefly touc	.1 hed down alo	25 ng U.S. Higł	0 1way 331 ji	0 1st east o	10K of Saville.	0 Severa	Tornado (F0) Il trees and power lines were blown down.
Clarke County 10 W Grove Hill	27 Dim	1345CST e-size hail was r	eported along	U.S. Highw	0 ay 84 west	0 of Grove	0 e hill near	0 the city	Hail (0.75) y of Zimco.
Wilcox County 5 North of Hybart	27 Tree	1430CST s and power line	es were blown	down along	0 Highway 4	0 41 betwe	2K en Hybar	0 t and D	Thunderstorm Winds ry Forks.
Washington County Millry	27 Tree	1805CST s and power line	es were blown	down in the	0 city of Mi	0 llry.	2K	0	Thunderstorm Winds
ARIZONA									
Pinal County Eloy	30 Blov	1400MST ving dust from t	hunderstorm v	vinds caused	0 a three-car	0 r acciden	? it near mi	0 le post 2	Dust Storm 209 on Interstate 10.
ARKANSAS, Central	and N	orth Central							
Boone County Bergman Diamond City Harrison	02 02 02	1430CST 1430CST 1430CST			0 0 0	0 0 0	0 0 0	0 0 0	Hail (0.75) Hail (0.75) Hail (0.75)
Polk County Hatfield	02 Thui	1440CST aderstorm winds	s downed trees	and power l	0 ines.	0	?	0	Thunderstorm Winds
Searcy County St. Joe	02	1500CST	~		0	0	?	0	Thunderstorm Winds
ARKANSAS, Central						1 65			
Johnson County 2 W Clarksville	02	1530CST e trees were blo		n some trees	o no ng hig	0	?	0	Thunderstorm Winds
Marion County Rea Valley	02	1539CST	wii dowii.		0	0	0	0	Hail (0.75)
Pope County 4 N London	02 Thur	1615CST	blew the roof o	ff a barn and (0 Saused struc	0 tral dam	?	0 other ba	Thunderstorm Winds strn. Some trees were also knocked down.
Garland County Hot Springs		1635CST ds gusted to 69 i							
Searcy County Marshall	02	1705CST iderstorm winds	-		0	0	?	0	Thunderstorm Winds
Saline County 5 S Ferndale Van Buren County	02	1720CST			0	0	0	0	Thunderstorm Winds (G52)

Location	Time Local/ Date Standard	Path Path Length Width (Miles) (Yards)	Nun Pers Killed	iber of sons Injured	Dan	nated nage ty Crops	October 1995
Bee Branch	02 1730CST Some power lines we	ere blown down.	0	0	?	0	Thunderstorm Winds
Faulkner County Vilonia	02 1730CST Several trees were ki	nocked down.	0	0	?	0	Thunderstorm Winds
Mount Vernon	02 1735CST Thunderstorm winds	s caused some roof dama	0 age and dov	0 vned som	? e trees.	0	Thunderstorm Winds
Pulaski County Little Rock	02 1740CST Thunderstorm winds	s damaged the roof of a	0 shopping ce	0 nter in Li	? ittle Rock	0 c. Several	Thunderstorm Winds windows were also blown out of stores.
Little Rock	02 1800CST Some trees were blow	wn down in the western	0 part of Litt	0 le Rock.	? A house	0 was dama	Thunderstorm Winds ged by a fallen tree.
Jefferson County 8 NW Pine Bluff	02 1810CST Thunderstorm winds	s knocked down some p	0 ower lines a	0 t the Pine	? Bluff A	0 rsenal.	Thunderstorm Winds (G30)
Lonoke County Furlow	02 1815CST Thunderstorm winds	s blew down some large	0 tree limbs.	0 A mobile	? e home w	0 vas slightl	Thunderstorm Winds y damaged by falling limbs.
White County Searcy	02 1900CST Several trees were bl	lown down.	0	0	?	0	Thunderstorm Winds
Fulton County 1 NW Viola Hot Spring County	26 0545CST		0	0	0	0	Hail (0.75)
Point Cedar Saline County	26 1230CST		0	0	0	0	Hail (0.75)
Avilla Pulaski County	26 1400CST		0	0	0	0	Hail (1.75)
Little Rock	26 1400CST Lightning struck a trar knocked out a portio around \$150 thousar	on of the 911 computer s	0 1 Operation system. Th	0 ns Center e equipm	150K in Little ent was 1	0 Rock. Th repaired a	Lightning e lightning travelled into the building and few daystater. Damage was estimated at
Little Rock Little Rock Little Rock	26 1405CST 26 1415CST 26 1415CST 26 1415CST Thunderstorm winds	s damaged a metal build	0 0 0 ing.	0 0 0	0 0 ?	0 0 0	Hail (1.00) Hail (0.88) Thunderstorm Winds
Independence County 11 NE Batesville	26 2000CST Lightning struck a he	ouse which resulted in a	0 fire. The h	0 louse was	? totally d	0 lestroyed.	Lightning
Franklin County 6 E Cass	26 2030CST		0	0	0	0	Hail (1.00)
Johnson County Ozone	26 2100CST		0	0	0	0	Hail (1.00)
ARKANSAS, Central		Cont'd	-	-	-	-	
Stone County Mountain View	26 2100CST	arn in Mountain View.	0 A fire resul	0 ted which	? n totally d	0 lestroyed	Lightning the barn.
Montgomery County Yell County 4 N Sims to Aly	eastward just over 12	miles, crossing into Yell C	County aroun	d 2130 C	ST, befo	re lifting 1	Tornado (F2) ery County. The tornado travelled north hear the town of Aly in Yell County. The the tornado consisted of extensive timbe
Newton County Lurton Von Buron County	26 2122CST		0	0	0	0	Hail (0.75)
Van Buren County Chimes	26 2126CST		0	0	0	0	Hail (1.00)
Montgomery County Story Independence County	26 2130CST		0	0	0	0	Hail (0.75)
2 N Batesville Searcy County	26 2135CST		0	0	0	0	Hail (1.75)
Witts Spring	26 2200CST A few trees were know	ocked down.	0	0	?	0	Thunderstorm Winds (G56)
Leslie	26 2200CST	s downed a few trees.	0	0	?	0	Thunderstorm Winds (G56)

Garland County

Location	Time Path Path Local/ Length Width Date Standard (Miles) (Yards)	Nu Pe Kille	mber of rsons d Injured	Esti Da Prope	mated mage rty Crops	October 1995
Jessieville Fountain Lake	26 2200CST 26 2230CST Thunderstorm winds blew down a few trees.	0 0	0 0	0 ?	0 0	Hail (0.75) Thunderstorm Winds
Jackson County Swifton	26 2205CST Some trees were blown down.	0	0	?	0	Thunderstorm Winds
Pope County Pelsor Van Buren County Shirley	26 2215CST 26 2240CST	0 0	0 0	0 0	0	Hail (1.25) Hail (0.75)
Stone County 3 N Fox Saline County	26 2245CST	0	0	0	0	Hail (0.75)
Nance Hot Spring County	26 2300CST Thunderstorm winds downed a few trees.	0	0	?	0	Thunderstorm Winds
3 N Magnet Cove	26 2300CST Thunderstorm winds damaged a barn and hou	0 se porch.	0 . Numerou	? is trees a	0 and power	Thunderstorm Winds lines were also blown down.
Sharp County Hardy Franklin County	26 2327CST	0	0	0	0	Hail (0.75)
6 E Cass	26 2345CST Several trees were knocked down.	0	0	?	0	Thunderstorm Winds
Garland County 2 E Hot Springs	26 2355CST Thunderstorm winds downed some trees.	0	0	?	0	Thunderstorm Winds
Hot Spring County TE Magnet Cove	27 0000CST Thunderstorm winds damaged a mobile home	and a co	ouple of bar	rns. Soi	me trees we	Thunderstorm Winds ere also twisted and knocked down.
Jackson County 3 N Tuckerman	27 0015CST Thunderstorm winds gusted to 70 mph and blo	0 ew down	0 some trees	? 5.	0	Thunderstorm Winds (G61)
Newport	27 0020CST Trees and power lines were knocked down.	0	0	?	0	Thunderstorm Winds
Saline County Sardis	27 0022CST- 0024CST 0.5 50 An F2 tornado touched down in the Sardis comm homes were flipped over by the tornado. Altogen- trees and power lines were also blown down.	0 nunity ar er, six pe Several	6 nd traveled ople residi outbuilding	? approx ng in th gs were	0 imately on e mobile h also damag	Tornado (F2) e-half mile before lifting. Several mobile omes received minor injuries. Numerous ged or destroyed.

ARKANSAS, Central and North Central Cont'd

Garland County Hot Springs		0030CST- 0230CST y rains resulted in flash floodingin parts of Hot f water at times.	0 Springs	0 . Several	? streets in	0 downtov	Flash Flood wn Hot Springs were covered up to four
Lonoke County 6 NE England	27 Thun	0120CST derstorm winds downed a few trees.	0	0	?	0	Thunderstorm Winds
Ward	27 A larg	0140CST ge tree was blown over onto a mobile home.	0	0	?	0	Thunderstorm Winds
Conway County Center Ridge	27 Thun	0120CST derstorm winds tore the roof off a barn.	0	0	?	0	Thunderstorm Winds
Faulkner County Greenbrier	27 Thun	0130CST derstorm winds blew the awning off a camp	0 er.	0	?	0	Thunderstorm Winds
Pulaski County Jacksonville	27 Thun	0226CST derstorm winds gusted to 58 mph at the Littl	0 le Rock .	0 Air Force	0 Base.	0	Thunderstorm Winds (G50)
ARKANSAS, Northwes	stern						
Crawford County Uniontown 8 N	02	1340CST	0	0	?	?	Hail (0.75)
Mountainburg	02 A sev	1420CST vere thunderstorm in Crawford County produ	0 uced dim	0 ne-size ha	? il at Unio	? ntown an	Hail (0.75) d eight miles north of Mountainburg.
Benton County 5 N Rogers Pea Ridge	26 26	1900CST 1905CST	0 0	0 0	?	?	Hail (1.75) Hail (1.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons	Estim Dam Property		October 1995 Character of Storm
			. ,	. ,		,		· ·	
Rogers Rogers Bentonville Carroll County	26 26 26	1905CST 1913CST 1935CST			0 0 0	0 0 0	????	????	Hail (1.00) Hail (1.00) Hail (4.00)
3.5 NW Eureka Springs	26	1945CST			0	0	?	?	Hail (0.75)
Washington County 5 SE Strickler	26	2000CST			0	0	?	?	Hail (0.75)
Crawford County 4 E Chester Madison County	26	2008CST			0	0	?	?	Hail (1.00)
Madison County St. Paul Washington County	26	2025CST			0	0	?	?	Hail (0.88)
Washington County Brentwood Madison County	26	2039CST			0	0	?	?	Hail (0.75)
Madison County 7 N St. Paul Bonton County	26	2115CST			0	0	?	?	Thunderstorm Winds
Benton County 1 W Bentonville	26	2120CST			0	0	?	?	Thunderstorm Winds Hail (0.75)
Washington County Hindsville Madison County	26	2205CST			0	0	?	?	Thunderstorm Winds (G52)
Madison County 7 N St. Paul Crawford County 8 N	26	2245CST			0	0	?	?	Thunderstorm Winds
Mountainburg	26	2245CST			0	0	?	?	Hail (1.00)
Madison County St. Paul	26	2310CST			0	0	75K	?	Thunderstorm Winds Hail (1.00)
Crawford County 2 NE Alma 8 N Van Buren	26 26	2330CST 2337CST			0 0	0 0	?	?	Hail (0.75) Thunderstorm Winds (G52) Hail (1.00)

Severe thunderstorms moved across northwest Arkansas during the evening of October 26th. Strong thunderstorm wind overturned a small outbuilding and downed trees just west of Bentonville, and strong winds caused roof and side panelign damage to two outbuildings in St. Rul. Several large tree limbs were blown down during two separate storms seven miles north of St. Paul, and thunderstorm winds gusted to 60 mph in Hindsville and eight miles north of Van Buren. Large hail as accompanied the storms. Hail up to four inches in diameter fell at Bentonville, and golf ball-size hail fell five miles north for Rogers and at Pea Ridge. Dime to quarter-size hail fell at numerous other locations in northwest Arkansas.

ARKANSAS, Eastern

Data not received.

ARKANSAS, Southeast

Data not received.

ARKANSAS, Southwest

None reported.

CALIFORNIA, Northwest

None reported.

CALIFORNIA, South Central

None reported.

CALIFORNIA, Western

None reported.

CALIFORNIA, West South Central

None reported.

COLORADO, Eastern

EAST CENTRAL COLORADO COZ090>092 05

05 0700MST-1700MST 0 0 ? ? High Winds (G56) High winds damaged crops, power lines, and trees. Reported peak wind gust was 64 mph at Burlington.

EAST CENTRAL COLORADO COZ090-091 22 20001 23 09001

22 2000MST-23 0900MST 0 0 ? ? Blizzard Snowfall of two to nine inches was accompanied by winds of 50 to 55 mph which closed roads and schools and caused power outages. Visibility was one quarter mile or less for several hours. The snow was accompanied byhunder at times. Snowfall amounts included Yuma (2), Idalia (5), Stratton and Wray (6), and Joes (9).

COLORADO, Central

COZ010-034-035
Northern and Central
Mountains

04 All Day 0 0 0 Heavy Snow An early season snow storm moved into the northern and central mountains. Over a foot of new snow was reported at Fraser

, <u>,</u>		Time Local/	Path Length (Miles)	Path Width	Per	nber of	Dar	mated	October 1995
ocation	Date	Standard		(Yards)	Killed		1	ty Crops	Character of Storm
		e Aspen.	on, Brecken	ridge reported	i eight to	10 inche	es while s	six to eigr	nt inches of new snow fell in the mountai
OZ035-036-038-042 046-048>050 ortheast Plains orthern Foothills									
lear Creek County quaw Mtn	05	0405MST			0	0	0	0	High Winds (G67)
hillips County Iaxtun	05	0410MST			0	0	?	0	High Winds (G52)
Veld County Greeley	05 High	0900MST- 1500MST winds estimated	at 60 mph ble	w sevenl large	0 trees do	0 wn in th	? e city of (0 Greeley. I	High Winds In two separate incidents, a parked car w
unn	crush 05	ed and a house d 0935MST	amaged wher	trees fell on	them. A	liso, seve 0	, ,	r lines we 0	re also knocked down by falling branch High Winds (G50)
cenesburg dams County	05	0955MST			ŏ	Ŏ	?	Ŏ	High Winds (G52)
N Strasburg	05	1015MST			0	0	?	0	High Winds (G54)
ogan County 5 NW Sterling organ County	05	1159MST			0	0	?	0	High Winds (G53)
ort Morgan ort Morgan	05 05	1210MST 1245MST			0	0	??	0 0	High Winds (G60) High Winds (G54)
ncoln County) N Limon rimer County E Buckhorn	05	Afternoon			0	0	?	0	High Winds (G52)
lountain	05	Afternoon			0	0	?	0	High Winds (G70)
DZ050 illips County axtun	19	1318MST			0	0	?	0	High Winds (G52)
OLORADO, Centa	l Cont'd	l							
OZ004-035-036- 38-040>045 orthern Mtns ront Range Foothills almer Divide ortheast Plains	up 10 As the comn	inches of snow e storm progress non. Snowfall to	 Across the edinto the No tals generally 	e Front Range ortheast Plains ranged from th	Foothil it stren ree to si	ls and Pa gthened. x inches.	lmer Div Strong n however	ide, snow orthweste strong w	Heavy Snow Springs in the Northern Mountains pick amounts ranged from four to eight inch erly winds gusting from 35 to 45 mph we inds produced two to four foot drifts. T ert County near Kiowa. Greeley, Sedal
	and k	Kiowa received	eight inches	of snow while	strasbu	rg record	led 10 inc	ches.	ert County near Kiowa. Greeley, Sedal
OZ046>050 ortheast Plains	from Visib	three to six in	ches, peak w cted to less th	ind gusts from	m 45 to	60 mph a	allowed f	or snow	Blizzard a snowfall accumulations generally rang to drift as much as three to five feet de as closed from Gun Club Road, just east
OZ073 ueblo County ueblo OZ076	22	1100MST			0	0	?	0	High Winds (G52)
tero County a Junta OZ033>036- 8-039	22	2300MST			0	0	?	0	High Winds (G50)
orthern Mountains ront Range Foothills arimer County ied Feather Lakes stes Park N Estes Park N Estes Park oulder County	26 26 26	0100MST 0310MST 0330MST			0 0 0	0 0 0	????	0 0 0	High Winds (G76) High Winds (G83) High Winds (G96)
ederland	26 Wind	0345MST s gusting from 10	00 to 110 mph	blew nearEst	0 es Park a	0 Ind into N	? Jederland	0 I during tl	High Winds (G87) the early morning hours. Several tree we

260345MST00?0High Winds (G87)Winds gusting from 100 to 110 mph blew nearEstes Park and into Nederland during the early morning hours. Several tree were
blown down damaging powerlines and leaving 2,000 residents without electricity. A tree, two feet and diameter and estimated
to be around 100-years-old, was blown down near Estes Park.

26	0400MST	0	0	?	0	High Winds (G65)
26	0400MST	0	0	?	0	High Winds (G52)
26	0431MST	0	0	?	0	High Winds (G98)
26	0500MST	0	0	?	0	High Winds (G55)

Larimer County 1 E Buckhorn Mtn 2 SW Loveland 2 N Estes Park 7 NE Virginia Dale

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estin Dam Propert	age	October 1995
						5	1		
3 SE Estes Park Livermore Clear Creek County	26 26	0515MST 0542MST			0 0	0 0	??	0 0	High Winds (G71) High Winds (G56)
Squaw Mtn Jefferson County	26	Unknown			0	0	?	0	High Winds (G94)
Coal Creek Canyon	26 Wind	0545MST Is gusting at an	estimated 70	mph blew thr	0 ough Cor	0 al Creek (?	0	High Winds (G61)
Larimer County 9 SW Rustic	26	0705MST tellite dish was u		-	0	0	?	0	High Winds (G64)
Weld County Hereford Morgon County	26	0949MST			0	0	?	0	High Winds (G52)
Morgan County Fort Morgan Larimer County	26	1135MST			0	0	?	0	High Winds (G50)
Estes Park Fort Collins	26 26	1145MST 1150MST			0	0	?	0	High Winds (G65) High Winds (G65)
COZ067 Teller County	26 26	1230MST- 1400MST			0	0	0	0	High Winds (G63)
Rampart Range Pikes Peak	Strop	ag iat straam w	indo reculted	in a wind au	at of 62 li	moto noo	• tha 0 5(0 foot los	al wast of the Air Force Academy in the
		part Range.	mus resulted	in a wind gu	St 01 03 K	thots near	me 9,50	10 1001 101	vel west of the Air Force Academy in the
Weld County Nunn Morgan County	26	1250MST			0	0	?	0	High Winds (G55)
Fort Morgan Fort Morgan	26 26	1305MST 1405MST			0 0	0 0	??	0 0	High Winds (G52) High Winds (G54)
CONNECTICUT, Nor	theast	ern							
CTZ002>004	21	0900EST-			0	0	9	0	High Winds
	Stron powe dama A tota Britai two to	g southeast to so r outages. In Ha aged in the stree al of 65,000 elect in and Southingto o 2.5 inches were	uth winds with rtford, a huge t below but no tric customer on. In addition, reported. Sor	gusts to 40 to piece of sidi: o one was injust s lost power s heavy rainfa ne peak wind	50 MPH ng was ri ured. Por statewide Il resulte gusts ind	cnocked d pped from rtions of s including d in urbai cluded: 4	lown nur n a build several st g about 2 n street fl 6 mph in	nerous tre ing and se reets in H 3,950 wh looding in Avon; 44	High Winds the limbs and some trees causing scattered ant crashing to the street. Three cars were artford were blocked by fallen tree limbs. to lost power in the Hartford, Bristol, New a few areas. Rainfall amounts of around 4 mph in Hartford; and 43 mph in Bristol.
CTZ002>004	28	0500EST- 0700EST			0	0	?	0	High Winds
Hartford County Bristol	28	0539EST			0	0	?	0	Thunderstorm Winds (G53)
Hartford County Hartford	wasia		hunderstorms.	some classifie	d as seven	e when w	inds gus	ted to 50 l	Thunderstorm Winds nds. The actual passage of the squall line snots or more. Some peak gusts included
CONNECTICUT, Sou	thern	•	1	·					
Fairfield County Fairfield Stamford									
Shelton New Haven County	14	2145EST			0	0	?	0	Thunderstorm Winds
Hamden Middlesex County	14	2245EST			0	0	?	0	Thunderstorm Winds
Old Saybrook	14 A squ rains	2348EST all line moving t also accompani	nrough the are ed these storn	ea generated t ns which in t	0 thunderst urn cause	0 forms stro ed some re	? ong enoug oad and l	0 gh to dow iighway f	Thunderstorm Winds n numerous trees and power lines. Heavy looding.
New Haven County Countywide	21 A sq dama	1100EST uall line passin aged by these do	g through the wned trees.	area generat	0 ed thunde	0 erstorms (? that down	0 ned sever	Thunderstorm Winds al trees and power lines. A few cars wer
New Haven County Cheshire	28 A squ	0500EST uall line passing	through the a	area generate	0 d a wind	0 gust of 55	0 5 knots.	0	Thunderstorm Winds (G55)
CONNECTICUT, Nor	thwest	t - C	-						
Litchfield County Kent	14 A col trees	2230EST d front crossed V in Kent.	Vestern New E	ngland during	0 g the late	0 evening l	2K hours of	0 the 14th.	Thunderstorm Winds An isolated severe thunderstorm downed
CTZ001 Litchfield County	21 21	1415EST 1715EST-			0	0	0	0	High Winds 61
Enclinear county	An in Octol	1900EST itense low press ber 20th to Sunda	v morning Oc	tober 22nd. T	he s ôrm p	oroduced	strong w	inds acros	Flood mes Bay Canada between Friday morning ss Litchfield County during the afternoon panied the storm with an average rainfall

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Per Killed	iber of sons Injured	Estin Dam Propert	nated lage y Crops	October 1995
Litchfield County	of tw 28	o to three inche 0500EST-	s across the r	egion. Flood	ling river	s and strea	ams caus	ed roads	to flood in Torrington.
Litchfield County		0800EST 2000EST-			0	0	20K	0	Flash Flood
	Heav	0700EST derstorms produce	entire region	r inches of rain on the 28th ca	0 n causing v ausic the H	0 widesprea Iousatonio	? d road flo c River to	0 ooding ir o reach it	Flood Kent and Salisbury in Litchfield County. Is flood stage from the evening of the 28th
DELAWARE									
New Castle County 5 W Wilmington	Exter surro	nsive roof dama	ged occurred severe thunder	in the strip	mall with sl g ht wir	Eckerd T d damage	Drúg, Bu e to two b	ster Brow uildings	Thunderstorm Winds Prices Corner area of New Castle County. wn and Carousel Cards hit the hardest. nl in the Goldey-Beacom College. Snapped ns.
New Castle County	20	0400557			-	-		-	
Northern	28 28 Thun of the	0400EST- 0900EST derstorms with 27th. This cor	heavy rain di nbined with r	copped betwe ecent heavy	0 eentwo ai rains cau	0 nd three in sed floodi	? iches of r ng of the	? ain acros Christin	Flood/Flash Flood ss New Castle County starting the evening a River the morning of the 28th. The river
DELAWARE, Cont'd									
	withi	n bankfull at 09	00 EST. No	serious injur	ies or dar	nage was	reported.		ed at 10.2 feet at 0600 EST and was bac
DEZ001>0	state 1 end, 1	fire marshal on the	ne 12th. While restrictions be	the Delaware	e River Ba sary. On	sin Comm the 26th,	ission di	ought w	Unseasonably Wet of the drought across Delaware. Rainfall al. It was the wettest October on record at ation totals included 4.78 inches in Dover, came too late to help farmers though. The s suffered \$37 million in crop damage. e ban on outdoor burning was lifted by the arning remained in effect through month's rought Advisory Committee recommended
FLORIDA, Northeaster	rn								
St. Johns County 2 E St. Augustine 3 ENE St. Augustine	03	1045EST-							
Duval County		1105EST	1	10	0	0	0	0	Waterspout
Jacksonville	09	1050EST- 1530EST			0	0	5K	0	Flood
	Num	erous street wei	e flooded and	d blocked off	in the do	wntown a	area.		
Flagler County	11 Road of SF	1412EST- 1700EST s were closed an R-100 and Florid	d barricaded la Park Road	through-out were closed	0 the count with wat	0 y. Floodin er more th	15K ng occurr ian one ai	0 red in do nd one-h	Flood wntown Bunnel near the city hall. Portions alf feet deep.
Marion County	11 12 Heav south cars v more	2115EST- 1630EST y rains produce west of Ocala. Fivere rerouted ont than 12 homes	ed flooding al ive sinkholes to secondary p had water mo	ong portions ransformed In ad. The large oving into the	0 of Interstate 75 est sinkho em.	0 state 75 be into a par ble was eig	55K etween S rking lot. ght to 10	0 SR-40 ar Traffic y feet deep	Flood Id SR-200. Flooding was mostly west ah was backed for more than five miles while b and around 15 feet in diameter. In Ocala
Duval County Jacksonville	14 More	2210EST- 2330EST than three feet	of water halt	ed traffic at I	0 nterstate	0 95 and En	5K nerson, a	0 nd at Phi	Flood llips Highway and University Boulevard.
Marion County	14 Rains Stree		ion County, a	nd flooding c	0 closed SR	0 -100/SW	10K 75th Stre	0 eet,SR-47	Flood 75/2S of SR-200 and at 60th Avenue/52nd
FLORIDA, East Centra									
Martin County	home the e	1125EST- 1600EST stimated 17 incl s, and two schoo ntire vegetable on which includ	ls received mi crop in the co	nor damage 2 ounty were w	5 homes ashed ou	0 County pr had major t. Citrus	4M oducing r damage was not s	9M widespre and 15 h severely	Flood ad flooding. Two hundred and twenty five nomes were destroyed. Two dirt roads and affected. Damage estimates were near \$
St. Lucie County	17	1500EST			0	0 3 inches,	4M 12 homes	0 s were fl	Flood odded as were most of the major roadways

Location	Time Local/ Date Standard	Path Path Length Widtl (Miles) (Yard	Number of h Persons ls) Killed Injure	Estimated Damage d Property Crops	October 1995 Character of Storm
	in the southern part of estimates were near		ools and many busin	esses were closed o	n the 18th as water receded. Total damage
Brevard County Volusia County Orange County	20 1200EST Persistent rain from normal. The rain left	August to October p many areas with floo	0 0 bushed accumulated r ded streets, fields and	00 ainfall for Brevard, 1 roadways. A few	Urban/Small Stream Flood Orange and Volusia Counties well abox homes received minor flooding.
FLORIDA, Southern					-
Monroe County 5 N EYW	01 1718EST National Weather Ser dissipated in five mi		0 0 ed a waterspout five 1	000 niles north of Key V	Waterspout West International Airport. The waterspout
Monroe County 7 ESE EYW	02 0902EST		0 0	0 0	Waterspout
FLORIDA, Southern			0 0	0 0	
			ved a waterspout seve	en miles east southe	ast of Key West International Airport. The
Palm Beach County Delray Beach 10 SE PBI	02 1420EST	aterspout in the Atlant	00 ic off Delrav Beach.	0 0	Waterspout
FLZ069-075-078 Lower Keys-Coastal Collier County	03 1200EST- 05 1200EST The outer fringes of H major beach erosion, sea water. In Collier C reported in Naples a amounts up to seven	lurricane Opal caused ti with estimated restorat county, near high tide or nd in the extreme sou	0 0 dal flooding andbeach ion costs of near \$3 r n October 4, Everglade th portion of the cou ely minor flooding in	nillion, occurred and s City Airport was nty. Minor beach er	Hurricane Opal wer Keys to Collier County. In Key West, d streets in Old Town were inundated with under water and minor street flooding was osion occurred in Collier County. Rainfal County but aggravated floodingwhich had
Collier County Naples	04 1810EST A thundersquall mov	ved through the Naple	0 0 s area with wind gust	0 0 s near 60 mph.	Thunderstorm Winds (G52)
Collier County N Naples	14 1500EST- 17 0800EST Heavy rainfall caused in north Naples suffe	several roads and a fe ered up to \$2 million i	00 w residences to be flo n damage. Crop losse	50K 37M boded in northern se this and earl	Flood ctions of Naples. Tree farms and nurseries ier flooding are estimated at \$35 million.
Palm Beach, Hendry, Glades County	16 1200EST- 19 1200EST A stalled front across 24 hour period ending in St. Lucie County ar amounts around 22 i business for several damaged. Highways bridge across the L damage at \$43 millio flooding caused con	southeast Florila provio around midday Tuesda id also near Clewiston i inches near Jupiter. Ti days and caused resi , including Interstate ' oxahatchee River was n. Agricultural losses	0 0 ded the focusing meci ay.October 17 in an a in HendryCounty. Stor he subsequent flooding that 95 and Interstate 75, knocked out. Public are estimated around upplies and led to hea	3M 45M hanism for excessiv rea from northeast H m total rainfall amo g caused evacuatio lasted for more tha were flooded causi property damage is 1 \$45 million, includ alth concernscaused	Flood e rainfall. The heaviest rain fell during the Palm yBeach County through Hobe Sound unts averaged five to 10 inches with local on to red cross shelters, closed schools ah an a week. Around 1,000 residences wer ignumerous vehicles to float or stall and a estimated around \$10 million and privat ling the deaths of nearly 10,000 cattle. The by insects, rodents and allivators. Record
Palm Beach County Royal Palm Beach 15 NW PBI	17 0725EST A weak tornado briefl a residential neighbo	Short y touched down in an o rhood doing minor da	0 0 ange grove near Sem amage to screens and	10K 5K inole- Pratt Boulev awnings.	Tornado F0 ard and 60 Street then and moved through
Monroe County Elbow Reef 5 E Key Largo	C	several waterspouts ju	C	0	Waterspout
Dade County 15 S MIA 7 SW MIA	19 1150EST	l Weather Service per	0 0	0 0	Funnel Cloud dge and the public reported a long-lasting
Dade County Elliott Key 25 SSE MIA		erve Base observers si	0 0 ghted a funnel cloud	000 just east of Elliott K	Funnel Cloud ey.
Dade County		·	- •		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estir Dan Proper	nated nage ty Crops	October 1995 Character of Storm
S Dade 15 S MIA	21 A fun	1050EST nel cloud was	sighted near tl	ne Saga Bay	00 subdivision.	0	0	Funnel Cloud
Dade County 7 S Homestead 32 SSW MIA	21 Obser	1315EST evers at Homes	stead Air Rese	rve Base sigh	0 0 nted a funnel cloud	0 seven m	0 niles south	Funnel Cloud of the city of Homestead.
FLORIDA, West Cer	ıtral							
Lee County 21 W Ft Myers 18 SW Ft Myers	Island and in	. The waterspo	out moved sou the dissipatedw	theast and waterspout, tw	thin four miles of	Tarpon I	Bay where	Waterspout 3 miles northwest of Tarpon Bay on Pine it temporarily dissipated. Within seconds d one large waterspout before it lifted and
Sarasota County Englewood	04 04 A 79	1635EST- 1640EST mph wind gust	t was measure	d by a tide m	0 0 onitor in Englewo	0 od.	0	Thunderstorm Winds (G69)
Sarasota County S Venice	94 A 67	1700EST mph wind gust	t was measure	d by a tide m	0 0 onitor.	0	0	Thunderstorm Winds (G58)
Pinellas County	04 04	1730EST- 1800EST			0 0 were downed by t	2.5K	0 orm winds	Thunderstorm Winds (G50)
FLZ039-042>043 -048>052-055>057 -060>062-065 West Central & Southwest		1		ice oranenes	were downed by t	nunderst		
Florida Hillsborough County	near F of the areas Storm Tamp rivers to ten thous River In He Total and bu Sand thous In Mil and D thous In Ma Count coast the St were record greatt the 4t Majoi	ort Walton Bea West Central a which caused 1 surges of fou a Bay south to emptying into homes receive. Ind in Levy Con . Total damage rnando county damage estimat isinesses receiv Key south to and. Isborough Cour avis Island near and. natee County, u y from storm su of Florida froi inshine Skywe without powe: ed in West Cer est 24 hour rain h. ' beach erosion	ich, Florida in the nd Southwest F sporatic dama r to six feet w o Port Charlott to the Gulf of M d minor water unty. InCitrus (e estimated in 4 , 75 structures d in Hernand, wed minor to m St. Petersburg nty, two to four r DowntownTa up to five resid arge estimated i m Levy Countt ay Bridge in Si r on the 4th di ntral Florida w mfall immediat	ne early eveni lorida shoreli ge. ere observed e. Minor flor lexico occurr damage from County, a con Citrus Count near the shh o County fro oderate wate Beach. Tota foot storm su mpa. Total of ences along at \$10 thouss y to Sarasota Petersburg a sa 1001.6 mi ely associate t along the b	ng offhe 4th. Altho ne, floodingstorm su in Levy and Hern oding to homes and red from Levy Cou n storm surge at Y uple of homes rece y from storm surge re, mainly porche m storm surge was er damage from stc al damage from stc al damage estimated the coast received and. Tropical storm County during the at 1454 EST on the pus downed power lilibars at Brooksy.	ugh the c rrges and ando cou d roads a nnty souti ankeetow ived min was \$1, s andshee \$60 tho from stor crom stor minor flo h force w 4th. The line \$frct lile (BKV) 97 inche Sarasota	tely 120 n s the Gulf center of C l tropical s inties with long the in h to Charl- wor water c 000. ds receive. usand. In e immedia storm surg o several h m surge a poding fro inds of up e strongesi arly 5,000 om tropica V) in Hern s of rain re a Counties	Hurricane Opal niles northwest of the Yucatan Peninsula. of Mexico before it's center came ashore opal passed hundreds of miles to the west storm force winds were observed in these n surges of two to foufeet common from mmediate shorelines or near the mouth of otte County. In Levy County, a total of up dar Key. Total damage estimated was \$50 lamage from storm surge along the Citrus d minor water damage from storm surge. Pinellas County, a couple hundred homes tely along the intercoastal waterway from ge and wind in Pinellas County was \$40 omes immediately along Bayshore Drive nd wind in Hillsborough County was \$50 m storm surge. Total damage in Manatee to 40 mph were common along the West to residents in Pinellas and Pasco Counties al storm force winds. The lowest pressur ando County at 1506 EST on the 4th. The ecorded Tampa's International Airport on s, considerable beach erosion occurredni
Hillsborough County Manatee County Sarasota County	05 05 Locali areas	0400EST- 0800EST ized heavy dow in the urbanized	npours of three	b five inche npa, St. Pete	000 s of rain in less tha rsburg, Sarasota ai	0 n four ho 1d Brade	0 Durs cause nton.	Urban/Small Stream Flood d minor flooding of streets and low-lying
Lee County	Bonit	a Beach Road. T a Springs for t	The Imperial Ri he most extension	ver Watersh	ed, which includes	the Oak	and Leitn	Flood eriod over already saturated soils of flood southern Lee County. In Bonita Springs, ington subdivisions, the Manna Christian athern Lee County along Interstate 75 and er Creek tributaries, was the focus area in er Watershed from theheavy rains forced

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995 Character of Storm
	the co (FEM vehicl	ost to feed and (A) reported 9 les were destroy	d sheltêr the ev 91 flood dama /ed by the f ood	vacuated floo ged units in waters. And	od victims was \$8' Bonita Springs. O other 215 units rece	75 thousand. The F of thesereported, 39 eived major damag	three feet deep. The Red Cross estimated Federal Emergency Management Agenc 1 homes, mobile homes and recreational ed while an additional 385 units received h included Red Cross and
FLORIDA, West Cen	tral Coi	nt'd					
Hillsborough County Manatee County Sarasota County W. Charlotte County	06 06	0600EST- 0830EST	xpenditures, wo		0 0	0 0 ng of streets and lo	Urban/Small Stream Flood w-lying areas, primarily in the urbanized
Pasco County New Port Richey	areas	of Tampa, St. 1500EST	Petêrsburg, Sa	rasota and B	radenton. 0 1	0 0	Lightning n piece up a piece of metalic construction ving medical attention.
Hillsborough County Sarasota County Manatee County	31 31 Spora centra	1900EST- 2200EST tic heavy rains l Manatee Cou	produceda neai	ly 10 mile w	0 0 vide swath of estim illsborough County	0 0 ated six to eight ind	Urban/Small Stream Flood ch rainfall from Sarasota northeast across ours. Numerous streets in low-lying areas
Sarasota County Manatee County	of Sa Lake	rasota County Manatee north t	and into centra to the Parrish I	al portions of lake areas of	f Manatee County.	The areas that incl	Flood oads to wash out over northwest portions urred the most intense flooding were near ate Roads 62 and 64, east of Interstate 75,
FLORIDA, Northwes		several orlag	es una roudo	ere erosea a			
Walton County 3 N Glendale	04 A torr	1158CST nado briefly to	.1 ouched down d	20 estroying a r	00 nobile home and sl	10k 0 hed.	Tornado (F0)
Holmes County 1 W Ponce DeLeon Leonia	04 A torr were	1145CST- 1158CST nado touched d damaged alon	12 own just south g with trees an	50 of Highway d power line	000 90 west of Ponce 1 s down near Ponce	10K 5K DeLeon and interm DeLeon and 200-	Tornado (F1) ittently tracked to Leonia. Two buildings 300 pine trees were downed near Leonia.
Jackson County Cottondale	04 A tori	1240CST nado was repo	.1 rted by Jackso	20 n County Sh	0 0 eriff's Department.	0 0	Tornado (F0)
FLZ007>019-026>029- 034		-	-	-	_		
054 Northwest Florida	evenii with a Apala and H High City, In Wa or de: easter destre perce Frank island for an Taylo road d	ng. By far the g a decreasing c chicola river w folmes. water marks, stu the storm tide ulton County, ha stroyed. Pana nmost Bay Cc oyed. Further ntage of home lin County esa I, Bruce State l a extended per r and Dixie cou lamage. No cor	reatest amount (legree of storr est received var orm surgeplus v was measured ardest hit areas v ma City Beaclo unty, Mexico east, Gulf Coi s were damago caped major da Park received s iod. Wakulla (unties was conf firmed deaths o	of damage occ n surge dam ying degreesc waves, were by gage to a vere Santa R beach suffei unty saw its d or destroyy mage with s erious dama County endu ined to main r injuries wi	cured due to storm lage in Franklin, V f wind damage wir measured over 25 level of 6.92 feet v osa Beach and San unty, reported abo red severe storm su worst damage alor ed. everal businesses r ge to its beachfron red flooding of sev ly minor flooding red directly attribut	surge along the be: Vakulla, Taylor an th the most signific feet high along par while a gage in Ap- destin where a rep- ut 25 percent of har arge damage with a trge damage with a g the St Joseph Pe ecceiving minor flo	Hurricane Opal I near Fort Walton Beach during the early aches of Walton, Bay, and Gulf Counties d Dixie Counties. Inland areas from the ant damage in Walton, Bay, Washington ts of the Walton county coast. In Panama alachicola rose to 6.40 feet. orted 50 percent of homes were damaged omes and businesses were a total loss.nl a high percentagof beachfront buildings ninsula and Cape San Blas where a lang oding in Apalachicola. Out on St George ts buildings-causing the park to be closed inesses. Damage along the coastlines of ngs along the waterfronts as well as some One man was fatally injured in DeFuniak gure estimated.)
Walton County Mossy Head	27 A fun Store		.1 sighted over E	20 glin Air Forc	0 0 the Base and touche	1K 0 d down at Mossey	Tornado (F0) Head doing roof damage to the a General
FLORIDA, Western I							

FLZ001-002-003-004-005-006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995
					5	1 2 1	
FLORIDA, Western							
Northwest Florida	03 04 Hurric area T the sa small dimin rapidll near fl surge of the dollar \$5 mi was d Sever CST) speed Field i mph v storm to easi 98 bet bays t	1200CST 2400CST 2ane Opal move 'uesday and cor me location as 1 er than Erin an uished to a cate y through North he Escambia-Cc . In many plac homes that we s. Almost 300 l llion dollars, me lone to recreati al tornadoes w . As Opal mc swere 115 mp in Mary Esther vith gusts to 77 surges were 10 to Pensacola F tween Fort Wal from Pensacol per 3 and 4. Le	ed across the G ntinued until the Hurricane Erin d was not as e gory 3 at the ti nwest Florida orington Count ces from Navau re facing the g nomes were de ostly innortherr ional boats. A vere reported w wed north, mo h as Opal mov . Other wind s mph at Pensacc to 15 feet from beach. The surg ton Beach and I a to Choctawh owest sea leve	ulf of Mexicc storm moved did about tw asily identifi- ime of landfa during the aff y Ine. Most of tre Beach to 1 ulf from Nav stroyed with a Santa Rosa lmost 1,000 the dashore wi peeds across la Navare Beac e destroyed hi Destin was als atchee Bay.	1 0 on October 3 and ashore Wednsday o months before. able. Opal intensii II. Opal moved as ernoon and evenir of the damage from Destin, some of th arre Beach to east another 1,000 hon and northern Okal boats were damage y female dying in a the the highest obse Northwest Florid Station and 8 mph th to east of Destin v ghway 399 that ru o detroyed. Storn The most rainfall i s 955 mb at Pensa	2.1b 5m 14. The spiral bar afternoon. The co The center of Opz field to a category - hore near Navarre g hours on Wedn a Opal in Northwe e protecting dunes of Destin. Prelim ness suffering majc oosa Counties. It ed. In addition abo an F2 tornado near nd east of thecente erved wind speeds a were 62 mph wi' with gusts to 115 n with eight to 12 fee ns from Pensacola a surges of six to e a Opal occurred a cola Naval Air Sta	Hurricane Opal dds started affecting the Northwest Florid enter of the storm moved ashore at almos al (about five miles in diameter) was muc 4 hurricane early Wednesday morning an E Beach at around 1600 CST. Opal move esday and moved into southwest Alabam est Florida was from the devastating storm ; were washed away. Opal destroyed mov- inary damage estimates were \$2.1 billion or damage. Crop damage was estimated a was estimated that \$50 million in damag put 70 boats had been lost or sunknownei r Crestview (see below on the 4th at 113) er of the storm. Estimated sustained wind at 83 mph gusting to 144 mph at Hurlbu th gusts to 71 mph at Pensacola airport, 5 mph at Eglin AFB in Valparaiso. Highes et on Santa Rosa Island from Fort Pickem a Beach to Navarre Beach. U.S. Highwar- eight feet were also observed in the inland t Ellyson Field where 15.45 inches fell on tion.
Okaloosa County Crestview	03	1245CST			0 0 n north of Crestvie	5K 0	Thunderstorm Winds
Okaloosa County Fort Walton Beach	03 A tori	1330 CST nado briefly to	.1 uched down n	25 ear the Fort V	00 Valton Beach med	3K 0 ical center. Some	Tornado (F0) trees were blown down.
Okaloosa County Valparaiso	03 A torr	1340CST nado briefly to	.1 uched down n	25 ear Valparais	0 0 to blowing some tr	2K 0 rees down.	Tornado (F0)
Okaloosa County Fort Walton Beach	04 A torr home		.1 uched down in	25 Fort Walton	00 Beach blowing do	4K 0 own some trees an	Tornado (F0) d causing some minor roof damage to tw
Santa Rosa County Navarre	04 A torr	0900CST nado briefly to	.1 uched down ir	25 n Navarre blo	0 0 wing some trees d	3K 0 own.	Tornado (F0)
Santa Rosa County Navarre Beach					0 0 from a thundersto ouple of homes.	3K 0 rm moving from t	Tornado (F0) he Gulf of Mexico. The tornado touched
Escambia County Molino	04 A tori	1045CST nado briefly to	.1 uched down n	25 ear Molino b	0 0 lowing some trees	4K 0 and power lines d	Tornado (F0) lown.
Okaloosa County Crestview	04 A torn then a damag along female Three	1130CST nado touched cross U.S. High ged the late Bob Okaloosa Lan e who lived the	1.8 down near Intenway 90 before o Sikes Homest e. One home re was killed. jured in this ho	170 rstate 10 east dssipating ne eadand the Cr was on block The other ho	1 3 cof Crestview. The car Highway 85. The restview High Sch s on a concrete for me had the roof ta	300K 0 ne tornado then mo ool's gymnasium. Indation, the home ken off and most	Tornado (F2) oved northwest across Okaloosa Lane and yed two homes and a church and severely. The two homes that were destroyed were e was completely destroyed and an elderl of the insides of the home were destroyed the floor. The tornado was on the ground
Okaloosa County Fort Walton Beach	04 A tor	1625CST mado briefly to		25 as Opal move blown down	000 ed ashore causing	10K 0 damage east of th	Tornado (F0) ne center in the Fort Walton Beach area
Okaloosa-Santa Rosa Counties North part of Counties	04 Sever Okalo	1730CST ral Trees and posa Counties a	.1 ower lines we round thecenter	25 re blown dov of Opal. Se	0 0 vn andfour homes	10K 0 had shingles blow owns of tornados	Tornado (F0) n off in the north parts of Santa Rosa and were observed in McLellan in Santa Rosa
FLORIDA, Western	Panhand	lle Cont'd					
Okaloosa County 20 S Crestview	27 A torr	1252CST nado briefly tou	.1 Iched down ne	25 ar Duke Field	00 which is on High	0 0 way 85 between 0	Tornado (F0) Crestview and Niceville. No damage fror

27 1252CST .1 25 0 0 0 0 Tornado (F0) A tornado briefly touched down near Duke Field which is on Highway 85 between Crestview and Niceville. No damage from the tornado was found.

Hurricane Onal, which formed in the Gulf of Mexico, bean threatening the Florida	Flash Flood Thunderstorm Winds Thunderstorm Winds
GEORGIA, North and Central 01>17 19>23 30>34 41>46 52>57 66>70 78>80 89>93 102>106 120 06 1200EST 102>106 120 04 1900EST- 05 0600EST Hurricane Onal which formed in the Gulf of Mexico, bean threatening the Elorid	Flash Flood Thunderstorm Winds
01>17 19>23 30>34 41>46 52>57 66>70 78>80 89>93 102>106 120 06 1200EST 05 0600EST 05 060	OM Thunderstorm Winds
01>17 19>23 30>34 41>46 52>57 66>70 78>80 89>93 102>106 120 06 1200EST 05 0600EST 05 060	OM Thunderstorm Winds
52>57 66>70 78>80 89>93 102>106 120 122 124 04 04 04 000EST 05 0600EST 05 05 0600EST 05 05 0600EST 05 05 0600EST 05 05 05 0600EST 05 05 0600EST 05 05 05 05 05 05 05 05 05 05 05 05 05	OM Thunderstorm Winds
122 124 04 1900EST- 05 0600EST 8 7 75M 5 Hurricane Onal which formed in the Gulf of Mexico, bean threatening the Florid	OM Thunderstorm Winds
Hurricane Onal, which formed in the Gulf of Mexico, bean threatening the Florids	a panhandle and Alabama on Tuesday October
3 AI approximately 1645 ED L on wedneslay Uctober 4. Hurricane Ubal made L	o a Tropical Storm; and into Tennessee, where
3. At approximately 1645 EDT on Wednesday October 4, Hurricane Opal made I and began a northward track through eastern Alabana, where it was downgraded t it was downgraded again to a Tropical Depression. As Opal tracked northward, t	nunderstorm winds knocked down close to te
alone. These trees fell across roads, and on power lines, homes, mobile home between Wednesday night (October 4) and Thursday morning (October 5), mo automobiles. Another seven people reportedly died during the cleanup process them. More than a half a dozen people were injured from falling trees in the ei- million people (410,000) were without power initially after Opal moved through to restore power to many, bowever several thoughd residences remained without	s when trees they were trying to remove fell o arly morning hours of October 5 Nearly half
million people (410,000) were without power initially after Opal moved through to restore power to many, however several thougand residences remained without	1. Power crews from surrounding states helpe power through the weekend. There were mor
to restore power to many, however several though residences remained without j than 1200 power poles knocked down and almost 5,000 power lines snapped. between Roswell Road and the Glenridge Connector in Atlanta. Schools were cities of Atlanta, Marieta, and within Fulton, Coweta, Carroll and Douglas coun Dekalb county. Four State parks were closed after Opal, Mocassin Creek Park Fort Mountain State Park. The Department of Transportation reported 273 damag traffic signals. Agricultural experts estimated that the state Pecan crop alone s Elash flooding associated with Opal occurred mainly in metropolitan Atlanta and	An 80-foot gash was torn out of Interstate 28 closed Thursday and/or Friday throughout th
Dekalb county. Four State parks were closed after Opal, Mocassin Creek Park Fort Mountain State Park. The Department of Transportation reported 273 dama	t, Black Rock Mountain, Vogel State Park, an e sites statewide most of which were downed
traffic signals. Agricultural experts estimated that the state Pecan crop alone s Flash flooding associated with Opal occurred mainly in metropolitan Atlanta and	in northwest Georgia. Several rivers exceeded
Flash flooding associated with Opal occurred mainly in metropolitan Atlanta and bankfull. The Oconee River at Penfield rested at 19 feet on the 6th, resulting in f The Ocmulgee River at Macon exceeded bankfull on October 6th, crested near bankfull on October 0th in Abbayilly the Organization of the occurred mainly in the occurred mainly intervent mainly in the occurred mainly in the occurred mainly intervent mainly in the occurred mainly intervent mai	looding between October 5th and October 9th ar 23feet on October 7th and returned to below
to bankfull on the 17th. Sweetwater Creek in Austell exceeded bankfull on October through October 7th after cresting at 14 feet on the 6th. The Chattahoochee Rive crested near 21 feet on the 6th before returning to bankfull on the 7th. The Etowa hours on October 6th, cresting near 17.5 feet. The Savannah River at Carlton Br	r near whitesburg flooded on October 5th, an th River in Canton exceeded bankfull for a few idge flooded on October 5, and crested near 1
leet before dropping below floodstage on the oth. M45 V, M51 V, M74P, F85P	, F87P, M26V, F20M, M??V.
Carroll County 8 E Carrollton 27 1525EST 0 0 ? Thunderstorm winds uprooted two 15-inch diameter Oak trees, which were at 166 near Hulett.	Thunderstorm Winds least 40-feet tall, along Georgia State Highwa
Heard County10 SW Franklin271537EST00?Thunderstorm winds knocked over several 30-foot Pine trees near Georgia High	Thunderstorm Winds ghway 109 just north of Glenn.
Douglas County271537EST00??5 W Douglasville271537EST00??Thunderstorm winds knocked over two 18-inch diameter Oak trees which were	Thunderstorm Winds e 50-feet tall near Georgia Highway 78.
Troup County Hoganville271537EST001K?Thunderstorm winds knocked several trees down throughout northwest Troup O	Thunderstorm Winds County. Hoganville was in the hardest hit area
Houston County5 S Warner Robbins271540EST0001K0001K0001K0001K0	Thunderstorm Winds
Houston County	
5 S Perry 27 1556EST 0 0 ? ? Twiggs County	Hail (1.75)
SE Jeffersonville Bullard 27 1630EST 0 0 2K 0 Thunderstorm winds knocked large trees down across Georgia Highway 80 snapped the main power line in the Bullard area. 0 0 2K 0	Thunderstorm Winds near Jeffersonville, several fallen trees also.tl
Wilkinson County S Irwinton271700EST001K?The main power line to Gordon and McIntyre snapped due to thunderstorm wi	Thunderstorm Winds
Putnam County 10 N Eatotonton271710EST00?Thunderstorm winds knocked down numerous trees throughout the area.	Thunderstorm Winds
GEORGIA, North and Central Cont'd	
Upson County Thomaston 27 1717EST 0 0 ? ? Thunderstorm winds knocked several trees down on power lines along Wind S	Thunderstorm Winds Sweep Farm Road.
Putnam County 9 N Eatonton271730EST00?Several trees were knocked down by thunderstorm winds.	1
Macon County 3 E Garden Valley 27 1850EST 0 0 ? ?	Hail (0.75)
Laurens CountyDublin272010EST00?	Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	iber of sons Injured	Estim Dam Property	age	October 1995 Character of Storm
Crisp County 2 NE Warwick 4 E Arabi	27 A sev than	2015EST- 2030EST ere thunderstorn 1,000 trees. Tw	10 328 1 with an imber 10 cars were a	0 dded thunders lso turned ov	6 stormcut a	50K 10 mile 0 to 50 ac	10K path, dam res of pea	aging 30	do (F0) to 40 structures and knocking over more aced.
Dodge County 3 W Rhine 1 SSE Rhine	27 A sev mobio	2100EST vere thunderstor	short m with an im as damaged w	narrow bedded weak hen atree fell	0 tornado on it, on	0 which br e was a p	50K iefly touc ermanent	? hed dowr structure	Tornado (F0) damaged three homes. One home was a which sustained major damage when the ire which had it's tin roof pulled off.
GEORGIA, Northeast GAZ010-017>018-028 Habersham County							1		·
Various	04 05	0900EST 0225EST			0 0	0 0	??	0 0	Flash Flood Flash Flood
Hart County Various	04	1100EST			0	0	?	0	Flash Flood
Stephens County Various	04	0100EST			0	0	?	0	Flash Flood
Rabun County Various		0227EST 0952EST y rain associated d roads and brid			0 0 oding pro	0 0 blems. R	? ainfall arr	0 0 nounts typ	Flash Flood Flash Flood ically ranged from four to six inches and
AZ010-017-018- 021-028	I ne v	vind damage w	as described a	as being wor	se than ti	ie blizzar	a of 1993	and pow	High Winds winds reached damaging levels during th where numerous trees were blown down er was out for more than a week in som s with higher gusts.
GEORGIA, East Centr	ral					1	0		
Columbia County 5 SW Appling	27	1542EST			0	0	0	0	Hail (0.75)
GEORGIA, Southeast									
Fattnall County Collins	27	2230EST			?	?	0	0	Hail (0.75)
Evans County Bellville	27	2230EST 2315EST			• ?	· ?	0	0	Hail (0.75)
Bryan County Pembroke	28	0000EST and power line	es down.		?	?	0	0	Hail (0.75)
Echols County Needmore	28 Large	0130EST e oak trees were	uprooted acr	oss Bethal C	0 hurch Ro	ad.	2K	0	Thunderstorm Winds
GEORGIA, Lower GAZ121>131-142>148- 155>161									
Southwest and South Central Georgia	04 The e	eastern fringes o	of Hurricane C	Dpal caused r	? nainly tre	? ee and po	? wer line d	? amage es	Hurricane Opal pecially across the westernmost counties
Brooks County 5 S Quitman	28 An ou	0000EST ut building was	slammed aga	inst a house.	0	0	.5K	0	Thunderstorm Winds
GEORGIA, Lower Co	nt'd								
Lanier County Teeterville	28 A torr large	0130EST nado touched do trees one of wh	.2 own in Teeterv ich totaled a d	30 ville causing car. (Length	0 minor da and widt	0 mage to a h estimat	10K a church, ed.)	0 destroyir	Tornado (F1) ag a chicken house, knocking down man
GEORGIA, West Cent GAZ089-090-102-120	04 05 Hurri of Ala	1400EST- 0600EST- cane Opal mov abama. High wi gns. Heavy rai	ed ashore in t nd and heavyra ns also occurr	ne extreme w iin occurred ed across Wo	? vestern pa across W est Centr	? anhandle est Centr al Georgi	1.0M of Florida al Georgia a with sor	and then a with a g	Hurricane Opal, High Winds tracked north-northeast through the stat ood deal of damage to trees, power lines oads washed out by rapid runoff of heav
Muscogee County Columbus	27	1721EST			?	?	?	?	Thunderstorm Winds (G50), Hail

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Per Killed	nber of sons Injured	Esti Dar Proper	mated nage ty Crops	October 1995 Character of Storm
		e-quarter-inch derstorm wind.	hail was repo	orted in the	northern	portion	of Colur	nbus. A	house also sustained roof damage from
IDAHO, Southwestern									
IDZ002 25 W Rogerson	02 03	1800MST- 1000MST			0	0	0	0	Snow
IDZ004 Driggs	02 03	1800MST- 1100MST			0	0	0	0	Snow
IDZ005 Murphy Hot Spring	02 03 A co half	1800MST- 1000MST Id front moved inches of snow	through Idaho fell at Givens	 Four inche Hot Springs 	0 es of snov in Owyh	0 w fell 25 i ee Count	0 niles we y. Snow	0 st of Rog fall delay	Snow erson, Driggs, and Ashton while one and a red the potatoe harvest in eastern Idaho.
Owyhee County Givens Hot Spring	03 03	1400MST- 1500MST			0	0	0	0	Hail (0.75) pping three-quarter inch hail.
IDZ004 Teton County	03 04	0900MST- 0900MST			0	0	0	0	Snow
IDZ012 Fremont County	03 04 Snov Cour	0900MST- 0900MST	daho. This stored orth of Island	orm system l Park, two in	0 prought siches of si	0 ix inches	0	0	Snow s and Tetonia in Teton County. In Fremon
IDZ003 Madison County Bingham County	08 08 08	0400MST- 1100MST 0400MST-			0	0	0	0	Dense Fog
	08 Dens redu	1100MST se fog reduced v ced to twenty fe	visibilities to le et north of Bl	ess than a ha ackfoot alon	0 If of a mi g Intersta	0 le throug te 15 and	0 hout Ma west of	0 dison Co Blackfoo	Dense Fog unty. In Bingham County, visibilities wer ot on Highway 39.
IDZ001 Ada County	18 18	0500MST- 1000MST			0	0	0	0	Dense Fog
Canyon County	18 18 Visil Cour	0500MST- 1000MST bilites were rea nty.	duced to less t	han a quarte	0 r of a mi	0 le from te	n miles	0 southeas	Dense Fog t of Boise to the Oregon border in Canyn
IDZ003 Rexburg	21 22 21	1200MST- 0900MST			0	0	0	0	Snow
Ashton	21 22	1200MST- 0900MST			0	0	0	0	Snow
IDZ012 Dubois	21 22 21	1200MST- 0900MST 1200MST-			0	0	0	0	Snow
Spencer IDZ006	21 22	0900MST			0	0	0	0	Snow
Valley County	21 22 A co	1200MST- 0900MST ld front moved	through the st	ate producin	0 g snowfa	0 ll at sever	0 ral locat	0 ions. In t	Snow he central mountains, Red River received
IDAHO, Southwestern			-	-	-				
	six i Spen	nches, four inc	ches fell at Ell d one to two ir	c City, and I Inches of snow	Dixie rece w.	eived thre	e inches	. Rexbu	rg, Dubois, Ashton, Pocatello, Stanley and
IDZ008 Lewiston	31 31 Three dens	0500PST- 0800PST e rollover car acc e fog and black	idents within a ice. Other au	a mile of eac tomobiles sl	0 h other of iding off	0 ccured ne of Highw	4 ar the top ay 95 we	0 p of Lewi ere report	Dense Fog iston Hill. These accidents were caused by ed. No serious injuries were reported.
ILLINOIS, Northeast									
northern Illinois zones 003>006-008- 010>014-019>023-									
032-033-039	24 25 Susta north work	1200CST- 0800CST ained winds of 1 ern Illinois. The ers were killed v	20 to 30 mph stiongest wind when a cinder bl	with gusts to gust recorde lock wall cola	2 o near 50 ed at O'H ipsed at th	0 mph brol are Airpo he constru	cetree lin rt in Chi action sit	0 nbs and c cago was e of a Bo	High Wind aused scattered power outages throughout 45 mph at 400 am CST. Two construction ys and Girls Club in Chicago around 1245
II I INOIS Control	pm C	CST. M63OU, N	43000.						

ILLINOIS, Central

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995
					5	1 7 1	
ILLINOIS, Southern	None	reported.					
Southern IL 04 0300- ILZ075-080- 0700 081-082-084> 094		0 0 DENSE e early mornin		d visibility to	less than 100 fee	t in spots. This cre	ated an extreme driving hazard for eand e received minor injuries in the accident.
ILLINOIS, Southweste		ing univers. A un	ilee-cai accidei	it liear Gold li	ie was blamed on	the log. I wo peop	e received minor injuries in the accident.
Madison County Glen Carbon	27 A larg	1500CST the tree was blows in the tree.	n down by gus	ty winds down	00 ing power lines ar	3K 0 ad blocking Glen C	High Winds rossing Road. The electricity also started
ILLINOIS, Northwest							
	Data	not received.					
INDIANA, Central							
	None	reported.					
INDIANA, Northwest							
	None	reported.					
INDIANA, Northeast							
	None	reported.					
INDIANA, Southeast	N	. 1					
INDIANA, South Centr		reported.					
INDIANA, South Cent		reported.					
IOWA, Central	rtone	reported.					
Cerro Gordo County Mason City Airport	thoug	gh the surface v	was fairly wea	ak. Thunders	storms developed	during the afternoo	Funnel Cloud The upper level system was quite strong, n hours just ahead of the occlusion. The Jason City Airport.
IAZ004>007-015>017- 023>028-033>039-044> 050-057>062-070>075- 081>086-092>097- Much of Iowa	23 24	1300CST 0700CST			0 0	100K 0	High Winds
IOWA, Central Cont'd							
	move throug off the Peak y Dama	d across norther gh Iowa. Winds e next morning. winds included a uge was limited	n Kansas ard tr picked up in th Winds were s a 52 mph wind to mostly blow	acked across ne late mornin ustained 25 t gust at he De wing debris a	western Iowa Th	ne storm produced l ued to blow through ne entire state with 51 mph at Ottumw bs. This caused som	v pressure developed over Colorado, then high winds as it intensified while moving h the afternoon and night before tapering frequent gusts in the 45 to 50 mph range. a and over northwest Iowa at Sioux City. me local power outages. Though damage
IOWA, Northwest							
	None	reported.					
IOWA, East Central an	id Sou	theast					
	Data	nto received.					
IOWA, Southwestern							
IAZ090	23 A 40,	1600CST 000 pound mol	oile home was	s flipped off a	transport truck by	30K 0 y high winds one a	High Winds (G39) nd one-half miles east of Sidney.
KANSAS, Northeastern KSZ025-102>105 Northeast Kansas and East-Central Kansas	1 23 23 High V	1100CST- 2200CST Winds associate	d with an early	season Wint	0 0 er Storm produced	25K 0 I wind gusts as high	High Winds a s 50 to 70 mph. At least 10,000 people ed injury as a a large tree limb blew onto

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Perso Killed	ber of ons Injured	Estim Dam Propert	nated lage y Crops	October 1995
		ck up truck. The ty and 51 mph		igaed but the c	lriver was	n t injure	ed. Winds	gusted to	52 mph at Executive Airport in Johnson
KANSAS, Eastern Northeast Kansas County Z08>12-20>24-34> 40-54>56-58-59-	tree l	1000CST- 1800CST strong gradieni ational Weather imbs, small tre ates were unkn	es, and road s	wake of a co oeka. Unoffic igns with iso	0 ld front gr ial report lated dam	0 usted at t s of 60 n age to so	? imes betw nph were ome build	? veen 45 a also recei lings or ve	High Winds (G45) nd 55 mph. A peak of 48 mph occurred ived. The winds knocked down numerou ehicles hit by fallen limbs or trees. Dolf
KANSAS, Southeastern									
Cowley County Arkansas City		1041CST winds ripped a ar parked below		from a tree in	0 the 100 b	0 block of 1	.6K North firs	0 st Street as	High Winds nd sent it crashing through the windshie
Saline County Salina	21 A lar	1225CST ge tree at 215 V	Vest Ellsworth	n was blown o	0 over onto	0 a detach	? ed garage	0 e, causing	High Winds considerable damage.
Reno County Partridge	23 The l	0700CST nigh winds pic	ked up one-q nentary schoo	uarter of a ro l.	0 of and fli	0 pped it o	? over to the	0 e other sic	High Winds de of the brick building that served as the
Butler County Augusta	23	1530CST health departme	-		0 om the we	0 st to east	? t due to th	0 ie gusty w	High winds vinds.
KANSAS, Southwesterr	ı	•							
Pawnee County Larned 1 SW Larned KSZ030-031-043>046-	04 04	1750CST 1755CST			0 0	0 0	0 0	0 0	Hail (1.00) Hail (0.88)
061>066-074>081- 084>090	05 A nor and re replat	0000CST- 2000CST thwest wind of (oofs were dama nted due to eros	50 to 70 mph p aged. A few l sion. A trash	revailed for an arge structur cart was blow	0 extended es lost wa on out of a	3 period as ills orroo a pickup	200K s deep lov fs. Crop and hit th	v pressure damage v	High Winds e moved across the area. Numerous tree vas to uncut milo. Some wheat had to be that were injured, but none seriously.
KSZ030-031-043>046- 061>066-074>081-	05	0400CST-							
KANSAS, Southwestern	n Con	t'd							
084>090	The se A larg	1900CST econd high wind ger building in	l event of the n Scott City wa	onthoccurred s heavily dan	0 l with a no naged. N	0 orthwest umerous	0 wind of 6 trees rece	80K 50 mph. (eived dam	High Winds Quite a few homes received roof damage hage.
KANSAS, Northwesteri	1								
Northwest Kansas KSZ001>004-013> 014-027>029-041- 042	05	0700CST-			â	<u>^</u>	0	0	
	peak v	1700CST winds damaged wind gusts Were 9 mph at Wesk	e 71 mph at BR	oower lines, a EWSTER,69	0 nd trees. mph AT	0 At least Oberlin,	? six high p 68 mph a	orofile vel t Goodlar	High Winds (G62) hicles were blown off the roads. Reporte ad, 67 mph at Colby, 60 mph at Hill City
NORTHWEST KANSAS KSZ001>003-013-014	were accid	closed. Thunder	r accompanied power outage	the storm. Vis es. Snowfall	ibility wa amounts	s one-qu wereAtw	arter mile ood, Mcl	e or less fo Donald, a	Blizzard (G49) drifts up to four feet. Roads and school or several hours. The storm caused traffi nd Goodland (6), St. Francis (8). A peal
KANSAS, North Centra	al								
KSZ005-006-017- 018 North Central	23	0800CST- 1400CST			0	0	10K	0	High Wind (G52)
Kansas		winds gusting to of the tree limb							d and numerous tree limbs were downed

KENTUCKY, Northern

None reported.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estim Dam Property	age	October 1995
KENTUCKY, Northeas	st								
KYZ101-102- 103-104-105- 107-119	05	0200EST- 1600EST			0	0	0	0	Heavy Rain
Northeast	only	beneficial rains	s of one to tw	vo inchês wê	ere observ	ved. The	baromet	ly afterno ric pressu	oon. The storm was moving north fast, so re dropped to near 29.2 inches, whichsi
KENTUCKY , Central		,		, 0		υ			
Pulaski County	05 Sever	0200EDT- 0800EDT	ocked down	due to high	? winds and	?	? 1 soils bro	?	Gradient winds by the remants of Hurricane Opal.
Pulaski County	05	0700EDT or flooding report		÷	?	?	?	?	Flash Flood
Jefferson County	05	0600EDT-			9	9	2	9	
	Minor rainfa of the	1500EDT r flooding reporte ll across the cou e Gene Snyder F	ed across the c nty ranged fro reeway.	ounty due 6 p om 2.4 inche	eriods of s at the L		•	ciated wi onal Airpo	Flash Flood th the remnants of Hurricane Opal. Total rt to 3.5 inches at Fern Creek Road south
Hardin County	05 Sever	0600EDT- 1500EDT al roads across th	ne county were	e washed out	? due to he	? avv rains	? associate	? ed with th	Flash Flood e remants of Hurricane Opal. No damage
	was r	eported howeve	er. Elizabethte	own and the	Fort Kno	x area hac	l several	roads clos	ed.
Monroe County		0800EDT ge washed out or emants of Hurric		Creek, five m	? iles south	? east of To	? ompkinsv	? ille. This	Flash Flood was due to heavy rainfall associated with
Clay County	05 Sever	0200EDT- 0800EDT ral trees were do	owned due to	high winds a	? and satura	?	? due to the	? remants	Gradient Winds of Opal.
Fayette County Lexington	20	0930EDT ral trees, power		-	?	?	?	?	Thunderstorm Winds
KENTUCKY, Southwe	stern								
Western KY KYZ001>013	04 Areas	0300EST- 0700EST s of very dense f	fog made trav	el hazardous	0 for early	0 morning	0 drivers. '	0 Visibilitie	DENSE FOG s were below a quarter mile in the fog.
LOUISIANA, Northwe		, ,			j				1
Caddo Parish 8 N Greenwood	01	1645CST ls knocked out s	everal tree to	ns 12 to 14 i	0 nches in (0 diameter	0	0	Thunderstorm Winds
10 N Greenwood	01	1700CST erous reports of		1	0	0	0 ana High	0 way 169.	Thunderstorm Winds
5 W Shreveport		1700CST es of three to five yards from shore					0 foot boat	0 which du	Thunderstorm Winds mped three individals into the lake about
Lincoln Parish 5 NW Dubach Jackson Parish	27	1317CST			0	0	0	0	Hail (1.75)
1 S Quitman Caddo Parish	27	1430CST			0	0	0	0	Hail (0.75)
Bethany Natchitoches Parish	27	1436CST			0	0	0	0	Hail (1.75)
2 NE Chestnut	27 Wind	1540CST Is knocked down	n several tree	s across Lou	0 isiana Hig	0 ghway 9.	0	0	Thunderstorm Winds
Winn Parish 4 NE Winnfield	27	1620CST			0	0	0	0	Hail (0.75)
LOUISIANA, Northeas	st								
Tensas Parish 2 S St. Joseph	26 The re	1830CST oof of a house v	was complete	ly blown off	0	0	25K	0	Thunderstorm Winds
Madison Parish 2 E Tallulah	27	1300CST	r	-	0	0	0	0	Thunderstorm Winds (G65) Hail (1.75)
Tensas Parish 2 W St. Joseph	27 A thre	1430CST ee thousand squ	are foot hous	e was nearly	0 totally d	0 estroyed.	250K Eight sto	0 rage shed	Thunderstorm Winds s had the roofs torn off.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estin Dam Propert	nated lage y Crops	October 1995
Tensas Parish Newellton LOUISIANA, Southeast	27	1645CST			0	0	0	0	Hail (1.75)
Southeast Louisiana LAZ038>040-056>070	04 04 Hurri Missi only s gusts Trop: extren Tides Louis island Appro	ls of southeast L oximately 10,000	ouisiana. people evacu	ated from the	e souther	n, or lowe	r portion	s, of Plac	Hurricane Opal oward the western Florida Panhandle. The winds were estimated around 60 mph with omes and roofs of a few other structures fourche and Jefferson Parishes, as wellsa ive feet above normal along the southeas ignificant damage occurred on the barrier puemines, St. Bernarrowd, Lafourche, and in Plaquemine Parish where 1,600 people cane, an indirect injury is attributed to th pting to lower a large flag on October 4th. , who was holding onto a rope attached to to the ground.
LOUISIANA, Southwes		1600000			0	0	0	0	Thur dougt own Winds
8 SW Anacoco		1600CDT e was blown dov	wn at the inte	rsection of H				0	Thunderstorm Winds
Leesville Rapides Parish Melder Glenmora	26 27 27	1610CDT 1625CDT 1845CDT			0 0 0	0 0 0	0 0 0	0 0 0	Hail (0.75) Hail (1.25) Hail (1.25)
MAINE MEZ023-024-027 MEZ015-016-018- 023-029	of sou towns 15 A vig	of Camden and s of Camden and 0100EST- 0700EST orous cold from	me beach eros l Rockland. t produced lo	sion occured i	in Saco. 0 1 damage	Strong wi	nds rippe	ed away b 0 gh south	High Winds and knocked out power in coastal areas boats from their moorings in the Midcoast High Winds ern and eastern Maine. Downe t rees and
MEZ007>030		r lines were repo 0600EST-	orted in York	, напсоск, а					
MEZ007>009-012>014- 018>021-023>025 MEZ012	21 22 21 22 22 Strong copio trees a period the W	0500EST 1900EST- 0500EST 0130EST- 0600EST g pressure gradien us amounts of At and cutting power d. This resulted hite Mountains,	nt ahead of an lanticmoistur to over 30,00 in some low resulting in s	n intense low e to much of 00 custoners. land and urba mall river an	0 0 7 pressure Maine. 7 From tw an street 1 nd stream	0 0 system at The high v o to eight flooding. flooding.	300K 250K 150K nd its app winds aff inches o Orograp Several	0 0 proaching ected the f rain fell hic lifting roads an	High Winds Heavy Rain, Flood River Flood cold front brought destructive winds and southern two-thirds of the state, downing over western Maine, mostly in a six hour produced the highest rainfall amounts in d footbridges were washed out. The Wild
MEZ007-012	28	1800EST- 2300EST	ly of the And	itoseoggiii K				• •	erienced its highest stage on record.
MEZ014-021	Coun	2300EST- 1500EST y rains brought b	inebec River	in southern	Somerset	and Kenr	iebec Co	unties. F	River Flood River Flood d flood stage on the Swift River in Oxford from three to five inches of rain fell on the
MARYLAND, Northeas	st								
Talbot County Countywide Queen Anne's County Countywide Caroline County Countywide									Thunderstorm Winds Thunderstorm Winds Thunderstorm Winds aryland eastern shore. The thunderstorms but the counties.
MDZ008-012-015- 019-020	Parad Rainf	th Long oxically October all was between ell at the Baltimor	r, normally th 160 and 200 e-Washingtor	e driest mon percent of no i Internationa	0 th of the ormal wit al Airpor	0 year, start h monthly t was the 3	? ed to bre totals b ord wette	? ak the ba etween fi st Octobe	Unseasonably Wet ck of the drought across the eastern shore. ve and six inches. The 6.24 inches of rain er in the last 25 years and the tenth wettest

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995 Character of Storm
					of rain that fell at elp farmers which		ington-New Castle Airport was the wettest l crop yields.
MARYLAND, Central					•		
Charles County Ironside/Grayton	north Anne path,	east during the Arundel Count	mid-evening. y. The first to ere uprooted o	When it mo rnado tracke r snapped; tv	ved into Maryland d along State Rout	, it spawned three e 425 between the	Tornado(F1) ed south of the Potomac River and race tornadoes in Charles, Prince Georges, and towns of Ironside and Grayton. Along its re sustained roof damage. Windows were
Prince Georges County Temple Hills	neigh all, 10 entire	borhood. Three 00 homes suffer	e persons sustai ed damage. F	ned minor in ifteen of the	juries requiring a s homes were dama	short hospital stay: ged severely enou	Tornado(F2) ge, and several injuries, at a Temple Hills ; 17 others reported cuts and abrasions. In gh to be condemned; four homes lost their Potomac Electric Power customers were
Anne Arundel County Odenton to							
Glen Burnie	05 The ti	2031EST- 2039EST hird tornado asso ptinued through	6.0 beciated with the w	100 e parent mes	0 0 socyclone touched	250K 0 down in residentia	Tornado(F1) al Odenton (at F0), strengthened (to F1) as nie. The tornado destroyed an aluminum
MARYLAND, Central			i bevern, the w	eakened rap	any before mang	in south Olen Dui	inc. The tornado destroyed an arannam
	along dama home Sever shed, dissip	g the west edge ge to homes was s suffered dama ral pine and oak and carport im	e of the Severn as not noted ur uge at the develo trees were snap mediately nor re Gas and Ele	Run Natura ntil the storm opment, rangin ped or uproof th of the dev ctric reported	I Forest. Pine tree reached a relative of from ripped sidi- ted hereas well. The relopment, then can	s fell onto homes ly new developme ng and unhinged s e tornado weaken used minor tree an	ple trees in Odenton. The storm continued hardwood trees were snapped or uprooted northwest of the forest, but direct tornad ent along Quarterfield Farms Road. Eleven shingles to a bowed-in garage door frame. ed while causing damage to a farm house, d limb damage near state route 174 before Anne Arundel County; the entire servicing
Anne Arundel County Arnold	lived	gustnado/waters	spout along the	e Magothy R	0 0 es-Prince Georges- iver in Arnold. M ornado lifted as a	inor tree and struc	Tornado(F0) el County mesocyclone, produced a short- tural damage was noted at two residences, e Magothy River.
St Mary's County White Point Beach		2057EST nall tornado st king down pow		75 e St Mary's G	0 0 Countyshoreline, s	5K 0 napping trees, sha	Tornado(F1) a residence's porch windows, and
Harford County Pylesville	At the	e Bush River Ya	cht Club (south	eastHarford	County), two ding	hies were damage	Thunderstorm Winds ver lines were reported down in Aberdeen. d when a large oak tree fell on them. The n winds, and heavy rains earlier on the 5th.
Anne Arundel County Crownsville, Arnold	kout twiste flippe just b knoc porcl knoc priva fence remo	es 2 and 648 as er raced through ed, and two oth	the campus of ers had window	Ame Arunde ws blown ou	l Community Coll t. Siding was strip	ege, three building ped from a couple	Tornado(F1) e track, exiting Arnold along the Magothy rees were snapped or uprooted, and power near the Severn River, then touched down . Numerous limbs were noted along State d at the Severna Park GolCenter. As the g roofs sustained damage, one vehicle was of homes in the College Hills subdivision ime in the Belvedere Heights subdivision, to four homes, including one whose meta moved into the Dream¥oint subdivision, t caused minor damage to sailboats at tw g down more trees, twisting a tennis court utter, and window shutters. A cupola wa o exited into the Magothy River, whereti
Washington County 1 E Hagerstown	14	1658EST	her sensor reco	orded a wind	0 0 gust of 60 mph.	0 0	Thunderstorm Winds (G51)
Erederick County Ijamsville	14 Seve	1730EST ral trees were s	napped, includ	ling two-foo	t diameter oaks. an	d some siding was	Thunderstorm Winds s stripped off a home, near Ijamsville.
Calvert County Prince Frederick	14	1730EST		-	0 0	1K 0	Thunderstorm Winds of Prince Frederick and St. Leonard.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Perso Killed	ber of ons Injured	Estim Dam Property	age	October 1995
Carroll County 2 NW Westminster	14 A gus large	1735EST stnado, associated y limbs off several	1.0 with the lead trees.	25 ling edge of a	0 a strong c	0 old front	1K , touched	0 down br	Tornado(F0) iefly at a farm near Frizzelburg, knocking
Carroll County 2 ENE Westminster	14 A gus	1738EST st front produced	apparent stra	aight-line wir	0 nd damag	0 ge to a cou	0 uple of tr	0 ees at a re	Thunderstorm Winds esidence just east of Westminster.
Carroll County Manchester	14 An at	1802EST utomated weather	sensor reco	rded a wind s	0 gust of 61	0 mph.	0	0	Thunderstorm Winds (G52)
Frederick County Thurmont	21 A gus others of tin	0012EST stnado touched dov s, and producing m roof. Two baske	.62 wn in a resid inor damage tball stanchi	75 ential area of at four hom ons were ber	0 f eastern ' nes. Struc nt at hom	0 Thurmon ctural dan es along t	7K t, uprooti nage was he peripl	0 ing 10 tre confined hery of th	Tornado(F0) es, causing substantial limb damage to 30 to removed shingles, gutters, and a piece e track.
Frederick County 2 E Libertytown MARYLAND, Central	21 Cont'	0020EST d	1.2	50	0	0	15K	0	Tornado(F1)
	substa Shortl door l a resi the res two a snapp	antial damage at a f ly thereafter, the st had minor shingle of dence at the botto	fourth. The st form tore a sm damage to th om of a hill. he wall and ca trees were sm ral oak trees a	all piece ofsid e home and a A camper w	t the entr ling off o a storage as remov	ance to the ne home, shed, and ed from i	e neighb and snar a woodi a woodi t's anchoi	orhood, s oped off i pile was t	uctural damage at three homes, and more snapping off limbs of Bradford pear trees. Its television antenna. The residence next ossed. Heaviest damage was sustained at and tossed six feet into an exterior wall of shingles were removed from the roof, and ustnado continued through farmland, then oad (State Route 31) and Bessie Clemson
Carroll County Taneytown	21 The sa sho	0028EST ame line of thunde rt-lived gustnado	0.5 rstorms which which uproc	50 h produced w bted five larg	0 ind damg trees ar	0 e near Th 1d caused	5K urmont r minor da	0 aced into amage to	Tornado(F0) northwestern Carroll County, depositing several residences.
Charles County La Plata	21 An at	0255EST utomated wind se	nsor recorde	d a gust of 5	0 8 mph.	0	0	0	Thunderstorm Winds (G50)
Anne Arundel County Riviera Beach	21 Thun	0310EST derstorm winds k	nocked dow	n trees and p	0 ower line	0 es in the F	3K Riviera B	0 each vici	Thunderstorm Winds
Harford County Aberdeen	21 A gus the tr	0408EST stnado touched dov	0.5 vn in the west tep-van was	50 t portion of Al overturned j	0 berdeæ, di just north	0 amaging eastof the	30K a roof at motel, a	0 a local m	Tornado(F0) otel and blowing 2X4 wood pieces along pster was moved 70 feet southeast of the
St Marys County 15 NW Patuxent River	27 A sho eyew Holly	2000EST- 2002EST ort lived tornado tou ritnesses noted a /wood, close to w	0.5 uched down a funnel near here the torn	50 long the St M the base sho ado apparen	0 Iary's Gur ortly befo: tly touch	0 ntyshoreli re touchd ed down.	0 ne north own (19 No dam	0 west of P 58 EST). age was 1	Tornado(F0) atuxent River Naval Air Station. Several Power was temporarily knocked outri reported.
MARYLAND, Souther	n				•				-
Wicomico County Waterview	21 Trees	0600EST and power lines	down. Few	trees fell ont	0 o homes.	0 Few top	0 of trees	0 blown ou	Thunderstorm Winds t.
Dorchester County nr Cambridge	27 Large	2050EST e oak tree down.	Tops of seve	eral pines tree	0 es ripped	0 off.	0	0	Thunderstorm Winds
MARYLAND, Western	1		-	-					
MDZ001 Garrett County	05 A larg was c	1200EST ge tree and large l once Hurricane O	imbs along F pal.	Route 495 ne	0 ar Bitting	0 ger were o	1K lowned b	0 by high w	High Winds inds associated with the remnants of what
DISTRICT OF COLUM	DISTRICT OF COLUMBIA								
	None	reported.							
MASSACHUSETTS, C	entra								
MAZ005	14- 15 Gusty to 50	2230EST- 0100EST winds and briefly MPH with possil	heavy rain ac bly a fewhig	ccompanied her gusts bro	0 a strong o ought rep	0 cold front orts of sev	? as it pas veral tree	0 sed eastw s blown o	High Winds vard across the state. Winds gusting to 40 down in parts of Middlesex County in the

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Perso Killed	per of ons Injured	Estir Dan Proper	nated nage ty Crops	October 1995 Character of Storm
	towns	s of Sudbury a	nd Marlboro.						
MAZ020 Westport	15 Three West	1100EST people drowne port Harbor. 7	ed and several of The official man	0 thers survive ine forecast	0 d when th predicted	0 neir smal 20 to 30	0 l boats c knot we	High wapsized ar st winds a	waves id broke up in seven foot seas just outside ind seas of five to ten feet.
MAZ002>24	21	1000EST-		0	0	9	0		****
MAZ002>005	21	1900EST 1000EST-		0	0	?	0	High V	
Franklin County Shatuckville	21 Stron	1900EST 1930EST - 2400EST Is southeast to	south wind gus	0 0 sting from 40	0 0) to 50 m	0 0 oh knock	0 0 ed down	Heavy Flash numerous	
MASSACHUSETTS		0	e	e	1				1
	of 4.5 Small rose t	6 inches. Many streams rose to 8.9 feet or al	streets were flo	odedand mos sulted in som	so inches re severe e minorflo	; Gardnei street flo oding. Ii	, 3.90 in oding oc	cnes; Nor	Milton recorded a peak gust to 58 mph at wer line in Spencer. About 5,000 electric two and four inches fell in the central part d Franklin Counties. Some rainfall totals thboro, 3.80 inches; and Granville, a total here drains were blocked by fallen leaves. County, the North River at Shatuckville,
MAZ002>019	28	0500EST- 0900EST			0	2	?	0	High winds
MAZ002-003- 008>011	28	0600EST- 0900EST			0	0	0	0	Heavy rain
Hampshire County Easthampton Hampden County Chicopee,	28	0608EST			0	0	?	0	Thunderstorm Winds
Westover Air Force Base	28	0610EST			0	0	?	0	Thunderstorm Winds (G52)
Hampden County East Longmeadow	28	0629EST			0	0	?	0	Thunderstorm Wind
Hampshire County North Amherst	28	0630EST			0	0	?	0	Thunderstorm Wind
Middlesex County West Townsend Franklin County	28	0715EST			0	0	?	0	Thunderstorm Winds
Franklin County Orange	28	0720EST			0	0	?	0	Lightning
Worcester County Hubbardston	28	0730EST			0	0	?	0	Thunderstorm Winds
Middlesex County Groton, Westford	28	0741EST- 0745EST			0	0	?	0	Thunderstorm Winds
Norfolk County Quincy Norfolk County	28	0830EST			0	0	?	0	Thunderstorm Winds
Blue Hill, Milton	28	0832EST			0	0	?	0	Thunderstorm Winds
Suffolk County Boston, Logan Airport,	•0				0	0	2	<u>^</u>	
Revere Norfolk County	28	0845EST			0	0	?	0	Thunderstorm Winds (G63)
Brookline Middlesex County	28	0850EST			0	0	?	0	Thunderstorm Winds
Winchester Hampshire County	28	0850EST			0	0	?	0	Thunderstorm Winds
Huntington	28	0930EST- 1130EST			0	0	0	0	Flash Flood
	A squ Hamp street to 9.8 line v	all line moved oshire, and Hat flooding was feet or about or vas accompani	eastward across mpden Countie reported in part ne foot above flo ed by thunders	the state prece s. Up to three s of Chicope bod stage of torms, some	eded by st e inches c e, Westfi nine feet classified	rong to g of rain fel eld, and in Huntir l as sever	ale force l in town Northan Igton du re when	e south wi is along th opton. Th ring mid-r windscust	nds. Heavy rainfall occurred in Franklin, he eastern slopes of the Berkshires. Urbar he west branch of the Westfield River rose morning. The actual passage of the squall ed to 50 knots or more. Some peak gusts

A squain me moved eastward across the state preceded by strong to gate force south winds. Heavy faintain occurred in Frankin, Hampshire, and Hampden Counties. Up to three inches of rain fell in towns along the eastern slopes of the Berkshires. Urban street flooding was reported in parts of Chicopee, Westfield, and Northampton. The west branch of the Westfield River rose to 9.8 feet or about one bot above flood stage of nine feet in Huntington during mid-morning. The actual passage of the squall line was accompanied by thunderstorms, some classified as severe when windsusted to 50 knots or more. Some peak gusts included 73 mph at the center marker at Logan International Airport in Boston; 71 mph at the Blue Hill Observatory in Milton; and 60 mph at Westover Air Force Base in Chicopee. InBoston, forty trees and branches were reported blown down. Trees were reported down in communities from the Connecticut Valley to theastern part of the state. Falling trees and limbs knocked down power lines resulting in scattered power outages for several thousand electric customers. Two people were injured by a falling tree in Rehoboth near the Rhode Island state line. In Worcester, a row of trees was blown down near Indian Lake and downburst winds were suspected to have caused this type of tree damage. In Franklin County, at the Orange Industrial Park, in Orange, a lightning strike blew apart a tree, dug a 60-foot long trent, blew apart the base of a propane tank, and welded a garage door shut.

MASSACHUSETTS, Western

MAZ001	21	1200EST- 1800EST	0	0	30K	0	High Winds
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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Perso Killed	ber of ons Injured	Estim Dam Propert	age	October 1995	
Berkshire County	also a	1500EST- 1900EST itense low pressu ber 20th to Sund ison of the 21st. ' ccompanied the sta streams over the	orm with an a	verage rainfall	l of two to	o thee incl	20K es northe duced da es across hes over	0 cast to Ja maging the cour Berkshir	Flood mes Bay Canada between Friday morning winds across Berkshire County during th ity and caused power outages. Heavy rain e County. The heavy rains brought many	
MASSACHUSETTS, W	Veater	n Cont'd								
Berkshire County	Beck	et.	all streams to	o flow out of	0 their bar	0 1ks in par	10K ts of Ber	0 kshire Co	Flood Dunty. Road flooding occurred in Otis and	
MICHIGAN, Central a	nd W	estern Upper								
Iron County 10 S Kenton	19	1008EDT			0	0	0	0	Hail (0.75)	
Schoolcraft County Germfask Alger County	19	1200EDT			0	0	0	0	Hail (1.00)	
Munising Luce County	19	1214EDT			0	0	0	0	Hail (0.75)	
McMillan	19 A mo	1219EDT obile home 3 SW	of Mcmillan	had minor ha	0 ail damag	0 ge.	2K	0	Hail (1.00)	
Luce County Newberry MIZ 002>004- 009-010	19	1240EDT			0	0	0	0	Hail (0.75)	
West Upper Michigan	six to	1900EDT- 0800EDT e effect snow affe eight inches of sno were downed cau	ow occured be	etweenLanse,	Sidnaw,	0 nigan. The Bruce Cr	? e heavies rossing a	0 st snow w nd Mares	Heavy Snow vas at Ironwood with 11 inches. An area of nisco. Several trees and power and power	
MICHIGAN, North Ce		were downed ead	ising numero		ages.					
		reported.								
MICHIGAN, Eastern U	Jpper	К								
		reported.								
MICHIGAN, Northern		nonontod								
MICHIGAN, Western	None	reported.								
MIZ56-64-77 Southwest Lower	23 24 Stron Coun	2200EST- 0600EST Ig winds blew do tites. A large tree	wn trees and limb fell on	d power lines a car in Niles	0 , causing in Berri	0 g power o len Count	2K outages f	0 for nearly	High Winds (G50) y 2,000 customers in Allegan and Otta w	
MICHIGAN, Eastern										
Saint Clair Marine City	storm	1600EST- 2000EST winds associated strong northeast v also cut power to o Airport was 38	several aleas.	in Sann Cian (0 cane Opa 0 foot, tv ounty, re	0 al affected wo-story sulting in	15K d the area pole barn some sc	0 a during to the N hool close	High Winds the late afternoon and early evening on the farine City Highway in Marine City. The sings. The maximum wind gust at Detroit	
Wayne Garden City	through	2000EST- 0000EST emains of Hurric gh the evening on t s Drive to be close	he 5th. As a	oduced two to result,the Mid	0 three in dle Roug	0 nches of r ge River o	0 rain over crested o	0 the Midd ne foot o	River Flood dle Rouge River Basin fromhate afternoon ver flood stage, which caused the Edward	
Macomb Frasier	to rise		ne foot per ho	our. The river					River Flood the 5th, causing the Clinton River at Frasier stage, causing a backup of sewers in some	
Saint Clair Lakeport	20 Stron	1200EST g thunderstorm win	nds knocked	down two sect	0 io is of 40	0),000 volt	10K t powerli	0 nes, resu	Thunderstorm Winds Iting in a power loss to over 5,000 Detroit	

Storm Data and Unusual Weather Phenomena											
	_	Time Local/	Path Length (Miles)	Path Width	Pers		Estin Dam	age	October 1995		
ocation	Date	Standard	. ,	(Yards)	Killed		Propert		Character of Storm		
	Ediso	n customers. Th	e winds also	flattened a fl	loat at th	e Port H	uron High	School	homecoming parade.		
MICHIGAN, Eastern C	Cont'd										
Vayne Ypsilanti	27 Light causir	0604EST ning struck a hor ng 2,000 dollars	use in Ypsila worth of dar	anti. The elec nage.	0 etrical cl	0 arge we	2K nt through	0 the wir	Lightning ing of the house and blew a hole in a wa		
AINNESOTA, Northea	astern										
1NZ012-020-021-037 E Minnesota	21 The framou	0330CST- 1500CST irst significant sints occurred over	nowfall of th	ne season bro terrain away t	0 ught up from Lai	0 to six in ce Super	? ches of sr	0 now to e	Heavy Snow xtreme northeast Minnesota. The six in ur inches closer to the lake.		
INZ025-033-034 Central Jinnesota	23	1200CST- 1800CST			0	0	?	0	Heavy Snow		
	Up to power		vet, heavy sn any downed	ow, combined trees.	d with st	rong wir	ids, gustin	ng over 4	0 mph resulted in several traffic acciden		
/INNESOTA, Central	and S	outh Central									
INZ041-042-047- 48-054>056-064 ortions of West 'entral	23- 24 Early s ice bu	0800CST- 0600CST season snowstorm ildup on power l	n deposited be ines. The co	etween 2 and	0 8 inches f wet sn	0 over po ow, ice a	10M rtions of v nd strong	vest cent winds re	HEAVY SNOW/ICE STORM tral Minnesota. There was also 2 inches esulted in numerous power outages. 400 vithout power the following Thursday.		
/IINNESOTA, Southw		ower poles were	DIOKEII OI U	annageu. As i	nany as	200 1680	lences we	ie sun v	viniout power the following findisday.		
,,,,,		reported.									
AISSISSIPPI, Northern	n	-									
eSoto County Iorn Lake	27 Sever	0215CST al trees were blo	wn down.		0	0	5K	0	Thunderstorm Winds		
'ate County Arkabutla Coldwater	27 Sever	0330CST al trees were know	ocked down.		0	0	5K	0	Thunderstorm Winds		
AISSISSIPPI, Central											
ktibbeha County turgis	27	1020CST			0	0	0	0	Hail (1.75)		
eshoba County 0 W Philadelphia	27	1253CST			0	0	0	0	Hail (0.75)		
Varren Counfy /icksburg	27 Sever demo	1300CST al trees and pow lition was blown	er lines were down.	e blown dowr	0 n throug	0 hout the	5K city. A 50	0 foot se	Thunderstorm Winds ction of brick wall that was scheduled fo		
leshoba County Philadelphia	27	1310CST			0	0	0	0	Hail (2.75)		
lewton Ĉounty Newton	27	1315CST			0	0	0	0	Hail (1.75)		
ewton County E Hickory	27	1330CST			0	0	0	0	Hail (1.75)		
auderdale County Aeridian	27	1345CST			0	0	0	0	Hail (1.75)		
Cemper County Preston	27	1345CST			0	0	0	0	Hail (1.75)		
incoln County Brookhaven	27 Nume	1429CST erous automobile	s were dama	nged. Many w	0 vindshiel	0 ds of aut	500K	0 were bro	Hail (2.75) oken. Several houses had broken window		
incoln County N Brookhaven	27	1435CST al trees were blo	1	40	0	0	2K	0	Tornado (F0)		
ones County 2 E Moselle	27	1440CST			0	0	0	0	Hail (1.75)		
Scott County 6 N Forest	27	1445CST			0	0	0	0	Hail (0.75)		

MISSISSIPPI, Central Cont'd

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	iber of ons Injured	Estim Dama	ated age Crops	October 1995 Character of Storm
Lawrence County 3 W Monticello	27 Sever	1450CST ral windshields o	of cars were b	oroken out.	0	0	10K	0	Hail (2.75)
Hinds County Jackson	27 Nume	1457CST erous large tree l	imbs were b	lown down ac	0 cross the	0 city. Sev	2K veral powe	0 r lines w	Thunderstorm Winds ere also blown down.
Covington County Seminary	27	1550CST			0	0	0	0	Hail (1.75)
Jefferson Davis County 7 E Bassfield	27	1555CST			0	0	0	0	Thunderstorm Winds (G53)
Jefferson Davis County 7 E Bassfield	27 This t	1555CST tornado was sigh	2 ited by a volu	100 unteer spotter	0 The to:	0 nado did	2K l some dan	0 nage to s	Hail (1.75) Tornado (F0) ome trees, but did no structural damage.
Warren County Vicksburg	27	1612CST	·	,	0	0	0	0	Hail (0.75)
Jones County 2 SW Moselle	27	1614CST erous trees were	blown down	l .	0	0	2K	0	Thunderstorm Winds (G56)
Jones County Ellisville	27	1621CST			0	0	0	0	Hail (0.88)
Covington County 2 SE Sanford	27 Sever	1630CST ral trees were blo	own down.		0	0	2K	0	Thunderstorm Winds
Lincoln County 10 NE Brookhaven	27 This v	1635CST weak tornado tou	1 uched down	40 only briefly i	0 n an ope	0 n field.	0	0	Tornado (F0)
Adams County Pine Ridge	27	1705CST			0	0	0	0	Hail (0.75)
Lamar County Purvis	27	1945CST			0	0	0	0	Hail (0.88)
MISSISSIPPI, Southeas	st								
Wayne County State Line	27 A torr	1645CST nado briefly touc	.1 ched down al	25 long U.S. Hig	0 ghway 45	0 5 near Sta	0 ate Line. 1	0 No dama	Tornado (F0) ge was found.
Wayne County Waynesboro	27 Trees	1725CST and power lines	s were blown	down aroun	0 d the city	0 of Wayı	2K nesboro.	0	Thunderstorm Winds
MISSISSIPPI, Southern	ı								
Coastal Mississippi MSZ080>082	downe due te	0200CST- 0200CST dississippi Gulf ed tree limbs, pow o flying debris.	ved into the w Coast during ver lines, and The most sig	estern Florida g the afternoo signs. Prope mificant rainf	0 Panhand on and ea rty dama fall occu	1 le, tropic urly even ge cost e rred at K	75K al storm fo ing of Oct stimated. eesler Air	? ober 4th One min Force B	Hurricane Opal ds, 39 mph or higher, were reported along . Wind damage was generally confinedat or injury was reported in Harrison County ase in Biloxi where slightly more than 3 .
MISSOURI, Eastern									
Montgomery County Wellsville	10 Thun	1505CST derstorm winds	downed seve	en power pole	0 es in Wel	0 lsville, ca	3K ausing pov	0 ver outag	Thunderstorm Winds ges in a large part of the city.
St. Louis County Jennings	26 St. Le	2243CST ouis County Poli	ce reported r	ower lines d	0 own in J	0	0	0	Thunderstorm Winds
St. Louis City St. Louis	26	2245CST derstorm winds			0	0	0	0	Thunderstorm Winds
MISSOURI, Southeaste			- F 5 (
Southeast MO MOZ076-086-087 -100-107>112-114	04	0300- 0700			0	0	0	0	DENSE FOG
	Early	morning dense	fog created h	azardous driv	ving con	ditions. V	/isibilities	were loc	cally near zero.
MISSOURI, Lower	None	reported.							
MISSOURI, Southweste		reported.							
Hickory County Nemo	10	0740CST			?	?	0	0	Hail (1.00)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Perso Killed	ber of ons Injured	Estim Dama Property	ated age	October 1995
				<u>, , , , , , , , , , , , , , , , , , , </u>			<u> </u>		
Camden County									
Osage Beach Miller County	10	1220CST			?	?	0	0	Hail (1.75)
St Elizabeth Maries County	10	1220CST			?	?	0	0	Hail (0.75)
2 N Vienna Miller County	10	1240CST			?	?	0	0	Hail (1.00)
Iberia St Clair County	10	1250CST			?	?	0	0	Hail (0.75)
Osceola Lowery	27 27	1915CST 2000CST			?	?	0	0	Hail (1.75) Hail (1.00)
Morgan County Laurie	27	2000CET			• ?	?	ů 0	0	Hail (0.75)
Miller County Eldon	27	2013CST 2030CST			• ?	?	0	0	Hail (0.75)
Camden County Camdenton	27	2030CST 2038CST			•	?	0	0	Thunderstorm Winds (G52)
Polk County Bolivar	27	2038CST 2040CST			• ?	• ?	0	0	Hail (0.88)
MISSOURI, Northwest		2040031			÷	÷	U	U	Han (0.88)
MOZ001-028-029-									
37-43 Kansas City	23	1100CST-							
Metro Area	23 An ear	2200CST rly season Winter	Storm moved	across Iowa	0 producin	7 g verv str	75K	0 is over th	High Winds e Kansas City Metro area. Average wind
	speed Inters	s were 25 to 40 tate 435 and 63r	MPH with gu	sts to 50 to 6	55 MPH. several b	There we	ere numer	ous repor	ite injuring five workers. Two men wer Troost Road in Kansas City. Kansas City gusted to 65 mph at the National Weather
	injured	d after being blow	vn off a scaffe	old at a const er outages fr	truction s	ite along	the 4100	block of Winds	Troost Road in Kansas City. Kansas City gusted to 65 mph at the National Weather
	Servio	ce at Pleasant Hi	ll, 51 mph at	Kansas City	Internati	onal Airp	ort and 4	7 mph at	Kansas City Municipal Airport.
MONTANA									
MTZ003-006	04	0000MST- 1600MST			0	0	0	0	HEAVY SNOW
N 577000		Neihart and Del	Bonita report	ed six inches	s of snow				
MTZ003	10	0600MST- 0900MST			. 0	0	?	0.	HIGH WIND
	wind sustai	gusts of up to 90 i ned winds of 45.	nph were repo -50 mph with	gusts up to	ning. A s 75 mph.	em1-trucl	k near bro	wning w	as blown off the road. Choteau recorded
MTZ007	18 Wind	1400MST	mph blow d	own o sign ir	0 L ourol	0 The sign	?	0 	HIGH WIND on weighed about 6000 pounds.
MTZ003	18	0800MST-	mpn blew do	Jwii a sigii ii	i Laurei.	The sign		er it was o	on weighed about 6000 pounds.
		1900MST ches of snow fel	l at Del Bonit	ta	0	0	0	0	HEAVY SNOW
MTZ007	19	0600MST-	r ut Der Dom						
	Sustai	1200MST ined winds of 45	to 55 mph w	ith gusts to 6	0 50 mph at	0 t Livingst	? ton cause	0 d several	HIGH WIND power outages.
MTZ006-007	22	0000MST-	1	U					
	Neiha	2300MST rt in central Mont	ana reœived 5	inches of sn	0 10w while	e Mystic I	0 lake in the	e south ce	HEAVY SNOW entral part of the state received 12 inches.
MTZ007	29 31	1200MST- 1200MST			0	0	0	0	
	Heavy	snows fell over p	arts of south c	central Monta	0 ana over	0 a two day	o period.	0 Heavier t	HEAVY SNOW totals included 8 inches at Red Lodge, 10
NEBRASKA, Extreme		s at Mystic Lakê	, and it men	es at mye.					
NEDRASKA, EXtreme									
NEBRASKA, Eastern	None	reported.							
NEZ004-005-022>	04	1501CST-							
NEBRASKA, Eastern									
025-035>038-056>	06	1106CST			0	0	300K	0	High Winds (G78)
059-069>071			eveloped ove	r western Ne					8
	of sus	tained winds over	30 mphand g	usts over 60	mph dan	naged roc	ofs, uproo	ted trees,	strengthened on the 5th. Nearly 30 hours and caused several power outages in the 3 mph caused similar damage in the area.
	An en	npty 60,000 bush	rel grain bin a	at Elsie colla	psed due	to wind	gusts esti	mated to 9	90 mph.
Otoe County Syracuse	08	0651CST			0	0	5K	0	Lightning
·	Light	ning struck the C		•	-		peak and	its interio	or.
NEZ10	13 Two c	1045CST construction wor	kers were tak	ten to thehos	0 spital afte	2 er high wi	0 inds blew	0 plywood	High Winds (G39) decking onto them. They were working
	on a b	oridge north of S	tuart.		-	-			

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estim Dama Property	age	October 1995
NEZ052	13 13	1700CST- 2100CST			0	0	5K	0	High Winds (G35)
NEZ051	19 19 Winds	1200CST- 1800CST	ph tumbled v former high	walls under c school build	0 onstructi	0	20K	0	High Winds (G35) nter in Wahoo. Damage was done to two
NEZ004-005-022> 025-035>038-056> 059-069>071	22 23	1915CST- 1600CST			0	0	0	0	Heavy Snow
	vicinit	10 inches of heav ty of Thedford in s western Nebras	Thomas Coui	nty. Gusty win	nds of 25 to	o 40 mph	caused co	onsiderab	l Nebraska. The heaviest snow fell in the le drifting. Numerous roads were closed
NEZ006>009- 026>028		0000CST- 1000CST y snow fell over s at Ainsworth.	much of nor	th central Ne	0 braska. 1	0 Eight incl	0 hes of sno	0 w fell at	Heavy Snow O'Neill, seven inches at Atkinson, and six
NEZ052-066-064	27 27 High Linco		to 54 mph ca	aused power	0 outages	0 over port	15K ions of ea	0 stern Ne	High Winds (G47) braska and damage to a local businessni
NEBRASKA, South Cer	ntral								
Webster County 2 S Inavale	22	2045CST			0	0	0	0	Lightning
Fillmore County 6 NW Shickley Clay County	22	2130CST			0	0	0	0	Lightning
1 SE Sutton Nance County	22	2200CST			0	0	0	0	Lightning
7 W Fullerton	22 Light	2215CST ning ignited gras	ss fires which	h consumed a	0 about 25	0 acres.	0	0	Lightning
NEBRASKA, Extreme		west							
SOUTHWEST NEBRASKA NEZ079>081	05	0700CST- 1700CST winds damaged	crops, power	r lines, and tr	0 rees. Rep	0 oorted pea	? ak wind gu	? ist was 6	High Winds (G55) 3 mph at McCook.
SOUTHWEST NEBRASKA NEZ079>081	22 23 High v	2100CST- 1900CST winds of 50 to 55 uarter mile or less nd McCook (8).	mph accomp for several he	anied snow w ours. Snowfal	0 hichclose l amount	0 s roads a s were Tr	? nd schools enton (7),	? s and cau Stratton	Blizzard sed minor power outages. Visibility was (5), Benkelman and Palisade (7), Haigler
NEBRASKA, Western									
NEZ019>021-054-055 Southwest Panhandle	05 05 Strong at 053	0400MST 1600MST g winds gusted f 50 MST.	frequently ov	er 58 mph. T	0 The stron	0 gest reco	0 rded gust	0 was 79 m	High Winds (G69) ph, six miles north-northwest of Kimball
NEZ001>003-019>021- 054-055 Panhandle	22 23 Heavy inches	0600MST 0900MST y snow and strong s, with eight incl	winds caused	d near blizzard at Crawford.	0 Iconditio In addit	0 ns over th ion, wind	50K ne Nebrasl ls gusted t	0 ca Panha o around	Winter Storm ndle. Snowfall ranged from four to eight 50 mph frequently, causing near
NEBRASKA, Western	Cont'o	d							
	Roads	isibilities. The w s were closed fro ber of travelers	om the aftern	oon of the 22	wo hour and to lat	oower ou e mornin	tage in the g on the 2.	e morning 3rd over	g of the 23rd on the west side of Chadron. much of Kimball County. The result was
NEVADA									
NEW HANDOUDD N		reported.	al						
NEW HAMPSHIRE, No NHZ001-002-005-	orthei 05	rn and Centr	a1						
007-011	06 Heav south	y winds and ra	in associated rthern New H	d with the re Hampshire. (0 emnants One man	1 of Hurrio was inju	? cane Opal red in Mar	0 brought rlborougl	High Winds down trees and knocked out powerni when a large tree blew onto his movig
NHZ013	15 A vigo	0115EST- 0145EST prous cold front p	roduced local	lized wind dar	0 nage as it	0 noved the	? rough sout	0 theastern	High Winds New Hampshire. The winds blew down

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Pers	ber of ons Injured	Estim Dama Property	ated age Crops	October 1995 Character of Storm
	many	trees and powe	r lines in Der	rv.					
NHZALL	•	0400EST-		2	0	0	20012	0	TT:_L_XX/:J_
NHZALL	21 22 21 22	2300EST 1100EST- 0100EST			0 0	0 0	200K 600K	0 0	High Winds Heavy Dain and Flood
NHZ003-005	21 23	2130EST- 0100EST			0	0	800K	0	Heavy Rain and Flood River Flood
	Strong copio Howe amou and P	g pressure gradie us amounts of A ever, the most des nts occurred in m emigewasset Riv	Atlantic moist structive elem nountainous te ers in Grafton	ure to New H lent was the t rrain due to c County. Seve	pressure lampshir wo to 10 prographi eral feet	system a e. The hi inches of c enhance of water f	nd its app gh winds rain, mo ement. M looded re	roaching downed st of which lajor rive sidences,	cold front brought destructive winds and trees and cut power to 20,000 customers. In fell in a seven hour period. The higher r flooding resulted along the Mad, Baker, businesses, and roads along these rivers, rred elsewhere across the state.
NHZ003-005	up to had to	tour inches of a	Campton when	n raging wate	rs breacl	hed a dam	s less sev	ere than i	River Flood set River and several of its tributariesot r, and the ground was still saturated when the previous storm. However, 200 people . Several roads were washed out. Minor
NEW HAMPSHIRE, S	outher	rn							
NHZ011-012	prope in Ma Marlo outage	rty damage as tre arlborough whe ow. Hardest hit	es and power on a large tree communities ommunities a	lines were k fell on his p were Stodd	nocked d bickup tr ard and I	lown. A 1 uck. Tree Fitzwilliau	notorist r es were re n at oppo	eceived n eported b osite ends	High Winds n one injury and an unknown amount fo ninor injuries while driving on Route 124 lown down on Route 123 in Alstead an of Cheshire County but scattered powre A peak gust to 66 mph was reported from
NHZ012 Nashua	freigh maple	nt train" in the n	niddle of a do The wind als	wnpour. A l o knocked do	arge oak wn a sci	tree, abo een house	ut one hu	ndred and	Downburst Winds esidents said it sounded like a "run-away d fifty-years-old, was toppled and a larg le fencing. A large limb crashed down on
NHZ011-012	powe	1200EST - 2200EST g southeast and s rr outages. Severty damage from	eral thousand	electric cus	tomers lo	0 cked dow ost power.	? n numero , includin	0 bus tree ling 1,500 in	High Winds mbs and some trees resulting in scattered n Keene. There were scattered reports fo
NHZ011-012	28	0300EST- 0900EST			0	0	?	0	Heavy rain
NHZ011-012	28	0600EST-			0	0	?	0	
Cheshire County Westmoreland, Chesterfield,		1000EST			0	0	•	0	High winds
Walpole	28 A stro thous	0600EST- 1100EST ong squall line mo and electric cus	oved eastward: tomers lost po	0 across the are	0 a bringin ind gusts	? ng heavy i s to 40 to :	0 rain, stror 50 mph k	Flash f ig winds, nocked d	flood and scattered flash floods. Up to several own trees and tree limbs. Heavy
NEW HAMPSHIRE, S	outher	rn	Ĩ		-		Ĩ		
	and W	all turned the M noreland. Sever Valpole. Street fl- ing was a result	ooding was ren	orted in seve	ral other	nearby to	wns incl	uding Ma	a cement bridge, closing a local roadni ral roads were washed out in Chesterfield urlow, Hinsdale, Jaffrey, and Keene. The eriod.
NEW JERSEY, Northe									
Hudson County Passaic County Passaic Patternan	14	1900EST			0	0	0	0	Urban Flood
Patterson Bergen County Ridgewood	14 14	2045EST 2045EST			0 0	0 0	? ?	0 0	Thunderstorm Winds Thunderstorm Winds
Essex County Orange	14 A squ	2100EST all line moving t	rough the are	ea generated t	0 hunderst	0 torms stro	? ng enoug	0 h to dow	Thunderstorm Winds Thunderstorm Winds n numerous trees and power lines. Heavy looding in Hudson County.
Passaic County	141115	aiso accompani	ea mese storr	ns which hi t	um causo	a some f	sau anu n	ignway I	tooting in muson county.
Clifton Little Falls Borgon County	21	0950EST			0	0	?	0	Thunderstorm Winds
Bergen County Countywide Bergen County Hudson County	21 21	0951EST 1000EST			0 0	0 0	? 0	0 0	Thunderstorm Winds Urban Flood

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estin Dam Propert	age	October 1995
Countywide Essex County Countywide	21 21 A squa trees.	1035EST 1037EST all line generat Heavy rain also	ed thundersto o caused some	rms that dow	0 0 2 med seve 2 flood ac	0 0 ral trees a cross Berg	? ind powe	0 0 r lines. A	Thunderstorm Winds Thunderstorm Winds few cars were damaged by these downed
Bergen County Passaic County Bergen County Lodi	28 28 28 A squa half an the Sa northe	0500EST 0500EST 0615EST- 1515EST Ill line passing the d two and one-h ddle River at astern New Jer	nroughthe are half inches alth Lodi to rise rsey.	a generated s ough some lo slightly abov	0 0 ome very cally high ve flood	0 0 v heavy ra er amoun stage. Th	0 0 ins. Rain ts were r ere was	0 0 Ifall range eported. T also wides	Urban Flood Urban Flood flood d for the most part between one and one- he rains and its associated runoff caused spread flooding of roadways throughou
NEW JERSEY, South	ern and	l Northwest	ern						
Warren County Belvidere Countywide	05 06 A seve count Mansf	2355EST 0010EST ere thunderstor y including Stationary ield Township	m uprooted tate Route 57 These thunc	rees near Bel near the Tric lerstorms we	0 0 videre. S county Fi re part of	0 0 Severe thu rehouse.	? inderstor Downed ants of H	? ms downe wires cau lurricane (Thunderstorm Winds Thunderstorm Winds odrees and wires in scattered parts of the ised power outages in Hackettstown and Opal.
Hunterdon County Anthony	06 A seve	0010EST ere thunderstor	m toppled tre	es in the extr	0 eme nort	0 hern part	? of the co	? unty in Le	Thunderstorm Winds banon Township.
Morris County Countywide	06 06 Thund includ signific in Wa	0130EST- 0330EST lerstorms with ing United Sta cant dent in the ywayanda, 5.3	heavy rain, a tes Route 46. drought that l l in Hackettsl	tveraging arc The heavy thas affected to town, 4.51 in	0 ound 3.5 rain was northern 1 ches in C	0 inches co the result New Jerse ak Ridge	? ountywidd of the re ey since S , 4.20 inc	? e, caused : mnants of September ches in Cli	Flood/Flash Flood flooding of small streams and roadway Hurricane Opal and represented first 1994. Storm totals included 6.69 inches nton and 4.10 inches in Pequannock.
Camden County Western	14 14	1930EST- 1940EST thunderstorm			0	0	?	?	Thunderstorm Winds
Warren County Finesville	14 Trees	1945EST were uprooted	in Pohatcong	Township.	0 One fell o	1 on a truck	? on Cour	? nty Road 6	Thunderstorm Winds 27 and trapped and injured the driver.
Hunterdon County Countywide	14 A squa	1950EST all line of seven	e thunderstor	rms downed t	0 trees and	0 wires thro	? oughout 1	? the county	Thunderstorm Winds
Burlington County Western	14 14 Severe	2000EST- 2030EST thunderstorm	s pulled down	n large limbs	0 througho	0 out Wester	? rn Burlin	? gton Cour	Thunderstorm Winds nty. Some took down power lines with
NEW JERSEY, Southe	ern and	Northweste	ern Cont'd						
	them.	Hardest hit mu	inicipalities in	ncluded Burl	ington Ci	ty, Rivert	on and V	Villingbor	0.
Morris County New Vernon	14 A seve	2005EST re thunderstorm	toredown lar	ge limbs in F	0 Harding T	0 'ownship.	? It also t	? ook down	Thunderstorm Winds electrical wires, one that triggered a fire.
Mercer County Countywide	14 Severe fire by	2015EST thunderstorms downed wires	pulled wires do in Ewing.	own througho	0 out the co	0 ounty. A l	? arge tree	? was upro	Thunderstorm Winds oted in West Windsor. A tree was set on
Somerset County Countywide	14 A seve	2020EST ere thunderstor	m pulled dow	on trees and w	0 vires in th	0 ne county.	? It also t	? ook down	Thunderstorm Winds several poles within Bernard Township.
Morris County Netcong	14 A seve	2020EST ere thunderstor	m pulled dow	n wires in N	0 etcong.	0	?	?	Thunderstorm Winds
Middlesex County Monmouth Jct	14 Dama;	2030EST ging winds tore	e down fences	s in South Br	0 unswick.	0	?	?	Thunderstorm Winds
Ocean County Countywide	14	2100EST thunderstorm			0	0	?	?	Thunderstorm Winds
Cape May County Sea Isle City	14 A seve	2130EST ere thunderstor	m overturned	boats and kr	0 nocked do	0 own sever	? al utility	? poles in S	Thunderstorm Winds bea Isle City.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995
Monmouth County Southeast Half	broke	est nit were Engli	sntown, Colts	Neck, Freen	old and Howell	ownsnip (A tree i	Thunderstorm Winds in the southeast halbf Monmouth County. 'ell on a house.). In Ocean Grove, the wind e over 100-year-old hotel was undergoig
Hunterdon County Califon Warren County Countywide	21 21 21 A sev powe	1020EST 1030EST- 1045EST vere thunderstor r outages to 3,5	m knocked do 00 homes in F	own trees an Junterdon ar	00 00 d wires in Califor ad neighboring W	??? n. Downed limbs arren County.	Thunderstorm Winds Thunderstorm Winds and trees took wires with them and cause
Morris County Northeast	21 Sever north	1100EST e thunderstorms of Morristown.	pulled down n	umerous larg	0 0 ge limbs and caus	??? ed power outages	Thunderstorm Winds in northeast Morris County, especially just
Ocean County Forked River 4 N Toms River	one he sever	ouse and uproote	ed several trees	. No serious	injuries were rer	orted. A little far	Tornado (F0) Thunderstorm Winds Beach Drive. The tornado tore a roof from ther north, the same thunderstorm uprooted from its foundation in the Homestead Run
Hunterdon County	Branc	1515EST- 1845EST derstorms with h of the Raritan al roads in Fren	River in Flem	9 inches in 0 ington. Road	000 Clinton, 3.75 incl ds near the river v	??? nes in Flemington vere closed. Smal	Flood/Flash Flood) produced minor flooding along the South 1 stream flooding also forced the closure of
Cape May County Ocean City	28 A sev	0320EST vere thunderstor	m uprooted se	everal trees in	000 n Ocean City.	??	Thunderstorm Winds
Somerset County	Some EST.	rset County. P It was within	eters Brook ne bankfull at 53	ar Raritan re 0 am EST.	0 0 ss reported in Bri ached its flood s Royce Brook nea feet at 0400 EST.	?? dgewater.) caused age of seven feet r Belle Mead exco	Flood/Flash Flood 4 minor flooding of a couple of streamsni at 0330 EST and crested at 7.9 feet at 0400 eeded its flood stage of 4.5 feet for an hou
NEW JERSEY, South	ern and	d Northweste	ern Cont'd				
Atlantic County 3 E Devonshire	28 A seve cars.	0345EST ere thunderstorn	n uprooted tre	es and down	000 ed wires in Egg F	??? Iarbor Township.	Thunderstorm Winds A couple of trees fell on and damaged two
Ocean County Northern Half	28 28 Sever Lakey	0405EST- 0415EST re thunderstorm wood, Pine Bea	s caused wind ch, Point Plea	damage in s sant and Tor	000 several townships ns River all repor	??? in the northern hat ted downed trees	Thunderstorm Winds alf of Ocean County. Beachwood, Jackson, and wires.
Monmouth County Freehold	28	0410EST			0 0	??? ling collapse in Fr	Thunderstorm Winds
Somerset County	Rarita	0630EST- 1230EST y rains of aroun in River. At Sou vithin bankfull a	th Branch,the 1	iver reached	0 0 reported in Bridg its flood stage of	ewater.) caused m seven feet at 063	Flood/Flash Flood inor flooding along the north branch of the 0 EST, crested at 7.9 feet at 1000 EST and
NJZ001-007>010- 012>026	Mont Parad was b the w Interr Intern Other Stewa River necess It was in Po degre	th Long oxically October etween 167 and vettest counties hational Airport ational Airport (r monthly totals rtsville, 11.01 i Basin Commi sary. s also an unseas mona was the t es was the 2nd	normally the 290 percent of averaging 9. in Pomona w 5.99 inches) an from around nches in Oak ssion drough onably warm tenth warmest	driest month of normal with 5 inches for here 5.16 inc d the 2nd wet the state inc Ridge, 12.43 t warning re October. Th October on ber on recor	the month. It was been stell. Nearby test Oorber on rec luded 5.57 inches inches in Hacke mained in effect the mean temperat record. On the b	is the fourth wett it was also the 4ti ord at the Lehigh s in Hainesville, (ttstown and 12.46 through month's ure of 58.8 degre oardwalk within / adelphia, the mon	Unseasonably Wet and Warm of the drought across New Jersey. Rainfall nal. Hunterdon and Warren Counties were est October on record at the Atlantic Cyt h wettest October on record at Philadelphia Valley International Airport (7.49 inches). 5.86 inches in Mount Holly, 9.64 inchesni inches in Parsippany. While the Delaware end, no tightening of restrictions becam es at the Atlantic City International Airport Atlantic City, the mean temperature of 63 . thly mean of 61.4 degrees, was 5.0 degrees

NEW MEXICO, Central and Northern

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	iber of sons Injured	Estin Dam Propert	nated lage y Crops	October 1995
NMZ005-	22	1000MST-			<u>^</u>	<u>^</u>			
NMZ001-008-	22	1400MST 1000MST-			0	0	?	?	High Winds (G54)
NMZ002>007-009>	22	1400MST 1100MST-			0	0	?	?	Winds
018 NMZ019>021-026> 029	22	1700MST 1200MST- 1900MST			0 0	0 0	? ?	? ?	Winds (G45) Winds (G42)
027	An u New morn	pper level storm Mexico. Nearly a ing through earl	system com llsections of y evening. L	bined with a the state had as Vegas wa	strong co sustained	d front to winds o	o produce f 25 to 35	e an exten mph wit	nded period of gusty winds across much of h gusts of 35 to 50 mph lasting from mid-
NMZ032-	04	1200MST- 1500MST			0	0	?	9	Winds
			eral antennas	and tree lim			s causing	at least f	our transformer explosions and grass fires
NMZ022>025-030> 032	22	1100MST- 1800MST			0	0	?	?	Winds (G40)
NEW MEXICO, South	ieast								
Eddy County 5 N Artesia	01 A sev	2300MST vere thunderstorn	n over the C	ottonwood a	0 rea struck	0 with mai	0 rble to go	0 lf ball-siz	Hail (1.75) ze hail.
Eddy County Loving	02 The I	0113MST Loving Police De	epartment re	ported dime-	0 size hail.	0	0	0	Hail (0.75)
Lea County Jal	02 The J	1200MST Ial Police Depart	ment reporte	ed dime-size	0 hail in a s	0 storm cha	0 racterized	0 1 by very	Hail (0.75) heavy rains and small hail.
NEW YORK, Coastal									
Rockland County New City Putnam County	14	2110EST			0	0	?	0	Thunderstorm Winds
Putnam County Mahopac	14	2115EST			0	0	?	0	Thunderstorm Winds
NEW YORK, Coastal	Cont'd	1							
Westchester County Ossining	14	2115EST			0	0	?	0	Thunderstorm Winds (G51)
Westchester County Somers	14	2125EST			0	0	?	0	Thunderstorm Winds
Nassau County Bellmore	14	2130EST			0	0	?	0	Thunderstorm Winds
Nassau County Roslyn	14 A squ rains	2145EST all line moving th also accompanie	rough the ar	ea generated ms.	0 thunders	0 torms stro	? ong enou	0 gh to dow	Thunderstorm Winds n numerous trees and power lines. Heavy
Orange County Monroe Orange County Rockland County	21 21 21	0929EST 1000EST 1015EST			0 0 0	0 0 0	? 0 0	0 0 0	Thunderstorm Winds Urban Flood Urban Flood
Suffolk County Countywide	21	1030EST			0	0	?	0	Thunderstorm Winds
New York County New York City	21	1105EST			0	0	?	0	Thunderstorm Winds
New York County Queens County	$\overline{21}$ 21	1105EST 1115EST			0 0	0 0	ó	0 0	Urban Flood Urban Flood
Suffolk County Countywide	21 A sq dama	1155EST uall line passing ged by these do	g through the wned trees. S	e area genera Street and hig	0 ted thund ghway flo	0 erstorms oding wa	? that down s also ob:	0 ned sever served in	Thunderstorm Winds ral trees and power lines. A few cars wer several counties.
Orange County Countywide	21	1500EST			0	0	?	0	Thunderstorm Winds
Rockland County Countywide	21	1500EST 1500EST			0	0	· ?	0	Thunderstorm Winds
Westchester County Countywide	21	1505EST			0	ů 0	?	0	Thunderstorm Winds
Suffolk County Mastic Beach	21	1525EST			0	0	?	0	Thunderstorm Winds
Suffolk County Wading River	21	1530EST		, -	0	0,	?	0	Thunderstorm Winds
Richmond County New Dorp Beach to Midland Beach	A col 28	ld front passing t 0345EST- 0400EST	through the a	area downed : 70	several tr 0	ees and p	ower line .5M	s. 0	Tornado (F1)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	iber of ons Injured	Estim Dam Propert	age	October 1995
Kings County Bay Ridge Westchester County Yonkers	28	0410EST			0	0	?	0	Thunderstorm Winds
Mt. Vernon Rockland County Westchester County Putnam County Rockland County	28 28 28 28	0430EST 0415EST 0415EST 0415EST			0 0 0 0	0 0 0 0	? 0 0 0	0 0 0 0	Thunderstorm Winds Urban Flood Urban Flood Urban Flood
Suffern Westchester County Elmsford	28 28 A squ throug were s	0600EST 0600EST all line passing gh a small area of significantly dama fern to rise slig	through the a easternStater aged. Heavy r	urea gave rise 1 Island. Nur ains were also	0 0 e to a vari nerous tro produce	0 0 ety of sev ees were d d by this s	? ere weath lowned d quall ling	0 0 her. The uring its e. Severa Saw Mil	Flood Flood most significant was a tornado that ripped passage. Numerous homes and a few cars i inches of rain caused the Mahwah River I River at Elmsford. There was also som
NEW YORK, Eastern	wides	spread flooding of	of roadways	throughout th	he area.		liong the		
NYZ037	05	2200EST-							
NYZ041	Count	ty, the high wind	is downed tr	ees and wire	s in New	York Mill	s. Water	ville. Svl	High Winds High Winds entral and Eastern New York. In Oneida van Beach, North Bay, Lee Center, Rome, aratoga Springs which damaged four cars.
Dutchess County Wappingers			erona. In Sa	ratoga Couri					
Falfs [°] Lagrangeville		2115EST 2115EST d front crossed Ea ocations across I			0 0 he evenir	0 0 ng hours o	2K 2K f the 14tl	0 0 n. Isolate	Thunderstorm Winds Thunderstorm Winds ed severe thunderstorms downed trees in a
NEW YORK, Eastern				inty.					
NYZ056 NYZ037	the ear	rly morning of the etal roof of a hous	e 21st. High v	winds brough	t down a	tree and te	elephone	wires in	High Winds High Winds lew York on the afternoon of the 20th into Endwell in Broome County and damaged so downed in the northwest part of Oneida
NYZ058	21	0200EST-			0	0	2017	0	
NYZ044	21	0800EST 0400EST- 0500EST			0	0	20K	0	High Winds
NYZ060-061	21	0500EST 0700EST-			0	0	10K 20K	0	High Winds
NYZ065-066	21	0900EST 0700EST- 1200EST			0	0	30K	0	High Winds
NYZ053-054	21	1200EST 1030EST- 1200EST			0	0	70K	0	High Winds
NYZ33	21	1200EST 1100EST- 1500EST			0	0	10K 20K	0	High Winds
NYZ063-064	21	1500EST 1100EST- 1200EST			0	0	20K	0	High Winds
NYZ047	21	1300EST 1100EST- 1500EST			0 0	0	20K 15K	0 0	High Winds
NYZ041-050	21	1100EST- 1500EST- 1500EST			0	0 0	15K 10K	0	High Winds High Winds
Greene County Hunter	21	1300EST 1210EST			0	0	5K	0	Thunderstorm Winds
Ulster County	21 21	1245EST- 2000EST			0	0	50K	0	Flood
Montgomery County Amsterdam Countywide	21 21	1300EST 1315EST			0	0	8K 15K	0	Thunderstorm Winds Thunderstorm Winds
Fulton County Northville Broadalbin	21 21	1315EST 1315EST			0 0	0 0	8K 8K	0 0	Thunderstorm Winds Thunderstorm Winds
Schenectady County Duanesburg	21	1320EST			0	0	15K	0	Thunderstorm Winds
Greene County Albany County	21 21	1330EST- 1530EST 1400EST- 2000EST			0 0	0 0	20K 20K	0 0	Flash Flood Flood
Rensselaer County Stephentown	21	2000ES1 1430EST			0	0	20K 5K	0	Thunderstorm Winds
Saratoga County Providence		1430EST 1500EST			0	0	5K 5K	0	Thunderstorm Winds
Greene County	21 21	1500EST- 1500EST- 1800EST			0	0	5K 2M	0	Flash Flood
Schenectady County	21	1500EST-			v	v	2171	v	1 m5ii 1 ivvu

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of sons Injured	Estim Dama Property	ated age Crops	October 1995 Character of Storm
		1700EST			0	0	10K	0	Flash Flood
Fulton County	21	1500EST-			0	0	2017	0	
Montgomery County	21	1800EST 1500EST-			0	0	30K	0	Flash Flood
J		1700EST			0	0	20K	0	Flash Flood
Dutchess County	21	1500EST-			0	0	2017	0	
Greene County	21	1900EST 1515EST-			0	0	20K	0	Flood
Greene County	21	2000EST			0	0	1M	0	Flood
Warren County	21	1600EST-							
		2120EST			0	0	10K	0	Flood
Schoharie County	21	1740EST- 2100EST			0	0	10K	0	Flood
Herkimer County	21	1800EST-			U	U	101	U	Flood
·		2300EST			0	0	20K	0	Flood
Hamilton County	21	1800EST-			0	0	10017	•	
Saratoga County	22	2300EST 0600EST-			0	0	100K	0	Flood
Salatoga County		1300EST			0	0	20K	0	Flood
Herkimer County	22	1200EST-							
		1700EST			0	_ 0	30K	0	Flood
	An in	tense low pressu	re system tra	ickedfrom th	le upper	Great Lake	es northe	ast to Jan	nes Bay Canada between Friday morning

An intense low pressure system trackedfrom the upper Great Lakes northeast to James Bay Canada between Friday morning October 20th to Sunday morning October 22nd. This system produced damaging winds, floods and severe thunderstorms across much of Eastern New York from Saturday morning through Sunday morning. Widespread damaging winds occurred fm Saturday morning through evening across the Mid Hudson Valley, the Eastern Catskills and in the Adirondacks. In Dutchess County 6,000 customers were left without power. Severe thunderstorms developed during the afternoon of the 21st. The storms downed trees and power lines in Greene, Mongomery, Fulton, Schenectady, Rensselaer and Saratoga Counties. Rainfal averaged two to three inches across the region with the Catskills measuring between five to eight inches in the new

NEW YORK, Eastern Cont'd

20

0525EST

southeast facing mountains. Rainfall in the Adirondacks averaged four inches. Greene County declared a state of emergency Saturday afternoon due to flooding. Flash floods occured on the East Kill Creek, Kaaterskill Creek and Catskill Creek in Greene County. Many other small streams flooded in Greene county. The overall flooding produced 28 road closures and four bridges were heavily damaged in the towns of Hunter, Lexington and Jewett. Homes were evacuated in Palenville due to flooding of the Kaaterskill Creek. Along the Catskill Creek 31 boats broke loose from three marinas near Catskill then floated into the Hudson River before being retreved. In Ulster County a state of emergency was declared in the towns of Shandaken, Kingston and Saugerties due to flooding. The Esopus Creek caused extensive flooding in Phonecia and several roads were damaged or washed out throughout Ulster County. In SchenectadyCounty many small streams overflowed their banks and widespread street flooding was reported in Rotterdam. In Fulton County flooding was reported in Perth, Broadalbin and Stratford due to small streams quickly overflowing their banks. Street flooding was reported in Gloversville and Johnstown. In Montgomery County flooding occurred in Amsterdam. InDutchess County Route 3 was reduced to one lane due to a mud slide from flooding. In Albany County a bridge was washed out in the town of Rensselaerville. In Hamilton County flooding occurred in Glovers washed or gaves due and Bolton. In Herkimer County flooding occurred in Dolgeville due to the East Canada Creek. Flooding along the Hudson River in Saratoga County caused three barges to be torn loose from heir moorings. Minor flooding was also reported along the Hudson river at the Stillwater Flats. In Herkimer County moderate flooding occurred along the Hudson River

Dutchess County		0535EST 0800EST y rains produced flash floods across sev wille and Amenia.	0 veral stre	0 ams in Du	10K atchess Cor	0 unty wh	Flash Flood ich caused mudslides and flooded roadsni
Areawide	On O areas disas Sarat	in spite of the rains from Hurricane Op ter aid to farmers in Broome, Chenang	al that fe o, Schoh more ra	ell during arie, Fulto ain came t	the first we on, Montgo o the regio	eek of O omery, O nduring	Drought is quo with the drought watch and warning ctober. Governor Pataki requested US P Dneida, Rensselaer, Washington, Cortland the latter part of October. When the Task
NEW YORK, Central							
Tioga County Newark Valley	21 An is	0415EST olated severe thunderstorm downed larg	0 e trees a	0 nd wires, a	15K and blew th	0 ne top of	Thunderstorm Winds ff an old barn.
Chemung County	inche	0930EST- 1430EST idly deepening low pressure system over t s of rain fell across Chemung County, c: e 64 were closed due to flooding. In Batl	ausing th	e Sing-Sir	ng Creek ir	í Big Fla	Flash Flood o parts of Central New York. Three to four its to rise out of its banks. Sections of State than a foot of water.
NEW YORK, Western							
Niagara County Lockport Niagara Falls	05	1925EST	0	0	15K	0	High Winds

05 1925EST 0 0 0 15K 0 High Winds 05 2130EST 0 0 0 5K 0 High Winds The remnants of Hurricane Opal passed just tothe west of Buffalo on the 5th and 6th. Two to three inches of rain fell over much of the area with isolated amounts of near four inches over parts of the Western Southern Tier. Sustained winds were estimated between 35 and 40 mph, but the easterly winds (in ontrast to the prevailing southwest direction) did down some trees and power lines.

Allegany County

Dutchoog County

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estim Dam Property	age	October 1995
Canaseraga Chautauqua County Mayville Catfaraugus County Franklinville Erie County Hamburg	trees	1500EST 1700EST 1800EST 1930EST d front accompt and power lind tauqua County r	es. In Canase	eraga, a mob	ile home	was dar	15K 10K 5K 20K the 20th. naged by	0 0 0 Winds e a falling	High Winds High Winds High Winds High Winds stimated as high as 45 mph knocked down tree. Heavy rains also fell over parts fo
Lewis County Kosterville Castorland Turin		0854EST 0925EST 1450EST y rains fells across ilso some road a	s the Eastern nd lowland f	Lake Ontario looding alon	0 0 0 c Countia g "The F	0 0 es causing ats" area	10K 15K 10K g the Blacl of the Bla	0 0 k and Mo ack River	Flood Flood Flood pose Rivers to overflow their banks. There in central Lewis County.
NEW YORK, Northern	n								
ESSEX CO	21 22	1800EDT- 0800EDT			0	0	2M	0	FLOOD
NEW YORK, Noerther	rn Cor								
CLINTON CO	cold f Satur	2000EDT- 0800EDT of system moved front moved acr day afternoon view (Clinton C	oss northern and evening	NY and Veri (Oct 21, 199	nont Satu 5). A fev	rday nig	ht. Heavy eaviest ra	/ rains m infall rer	FLOOD Canada thereafter. The associated strong oved across Vermont and northern NY on orted in northern NY were 3.70 inchesni ity, NY).
ST LAWRENCE CO	20 The h		-		0	0	0K	0	RECORD WARMTH n October 20, 1995 breaking the old high
NORTH CAROLINA,	North	Coastal							
Bertie County 10 NNW Windsor	28 Scatte	0150EST ered trees and la	irge limbs do	wn.	0	0	0	0	Thunderstorm Winds
NORTH CAROLINA,	Centr	al Coastal							
Greene County Snow Hill	05 A torr along	1140EST nado touched do with power line	0.2 wn on Highv es.	25 vay 258 just :	0 south of 1	0 Highway	4 58 in Sno	0 w Hill.	Tornado (F0) A steel storage building was knocked over
Duplin County Warsaw	28	0055EST			0	0	0	0	Thunderstorm Winds
Pitt County Greenville	28	0120EST			0	0	0	0	Thunderstorm Winds
Onslow County 2 W Sneads Ferry Camp Lejeune Hubert Swansboro	28 28 28 28	0115EST 0130EST 0135EST 0142EST	0.3 0.5 0.2	25 40 25	0 0 0 0	0 0 0 0	3 4 2 0	0 0 0 0	Tornado (F0) Tornado (F0) Tornado (F0) Thunderstorm Winds (G74)
Carteret County Bogue Newport	28 28	0155EST 0155EST			0 0	0 0	4 0	0 0	Thunderstorm Winds Thunderstorm Winds (G55)
Craven County Havelock	At Bo	0148EST ag thunderstorm bursts. In Sneads as reported. A t ogue Fielddownb urned by strong	ourst winds bi	icked up 150	teet of ri	inwav ma	3 off and two ned severa atting and	0 ning of to footbal l large oa through	Thunderstorm Winds the 28th spawning several tornadoes and field light poles were downed. One inch ak trees and damaged 35 military vehicles. it across a field. A tractor-semitrailer was
NORTH CAROLINA,	South	Coastal							
Robeson County 3 SW Lumberton	05 Large	0600EST e tree limbs were	e downed, da	maging a she	? ed.	?	3K	?	Thunderstorm Winds (G50)
Columbus County Chadbourn	28 A larg	0000EST ge tree was dow	ned.		?	?	?	?	Thunderstorm Winds (G50)
Columbus County Lake Waccamaw	28 Many	0000EST trees were dow	ned, largest	diameter 12 i	? inches.	?	?	?	Thunderstorm Winds (G55)
Bladen County Elizabethtown	28 Trees	0030EST were downed o	onto power lii	nes.	?	?	15K	?	Thunderstorm Winds (G60)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons	Estin Dam Propert	age	October 1995
			. ,	× ,		5	1		
New Hanover County 5 N Wilmington	28 Trees	0100EST were downed,	blocking Hig	hway 117.	?	?	?	?	Thunderstorm Winds (G60)
Pender County Scotts Hill	28 Trees	0115EST downed and d	isplay booths	at fair were b	? olown 20-	? 30 yards	5K s at Poplai	? Grove P	Thunderstorm Winds (G50) lantation.
NORTH CAROLINA,	Centra	al							
Mecklenburg County Charlotte	04 Flash Amity	0915EST Flooding was re y and Carmel R	ported in sever load between	al locations of Fairview and	0 f Ch a lotte Qual Ha	0 . The are llow Ro	0 eas includ ad.	0 e Provide	Flash Flood ence Road between Windover and Sharon
Wake	04 Rainfr	1015EST- 1315EST all amounts of	two to four in	ches produce	0 d widesr	0 read flo	0 oding of n	0 Najor road	Flash Flood ds in the county.
NORTH CAROLINA,			two to rour m	enes produce	a widesp	read no	buing of h	iujoi iou	is in the county.
Moore County Southern Pines			g of major roa	dways was re	eported. U	Jp to two	o feet of w	orater on ro	Flash Flood oadways.
Lincoln County Lincolnton	04	1220EST			0	0	0	0	Flash Flood epville Road and near the city water plant
Mecklenburg County Charlotte	04 Brier	1250EST Creek came ou	ıt of its banks	at the interse	0 ction Pro	0 vidence	0 and Rand	0 olph.	Flash Flood
Stanly County SW Albemarle	04 Flood	1557EST- 1800EST ling was report	ed on Highwa	y 24 and 27,	0 138 Sout	0 h, and ir	0 1 the city of	0 of Albema	Flash Flood arle.
Cabarrus County Countywide	04 Nume includ	1530EST erous roads we ling the Stallin	re underwater gs Bridge Roa	due to very d in Harrisbu	0 heavy rai	0 ns. The harr Mil	0 Little Cre l Road at 1	0 ek came (Little Cre	Flash Flood out of its banks flooding several location ek.
Wake County Raleigh	04 Wake Creek	1546EST- 1845EST County Sheriff	's Department r	eported seve stage closing	0 ral roads g some st	0 under w reets.	0 ater in the	0 eastern a	Flash Flood and northern sections of Raleigh. Crabtree
Johnson County Clayton	04	1546EST- 2145EST ling was report			0	0	0	0	Flash Flood
Nash County Spring Hope	04 Count	1758EST- 2100EST ty Sheriff repor	rted State Roa	ds 1306 and	0 1145 floo	0 oded.	0	0	Flash Flood
Johnston County 5 N Smithfield	05 Flood	0900EST- 1045EST ling was report	ed in northern	Johnston Co	0 ounty, Sev	0 veral roa	0 ds were cl	0 osed due	Flash Flood
Sampson	05 Samps	0900EST	ergency Manag	gement direct	0 tor report	0 strong v	14K vind dama	0 Iged seve	Thunderstorm Winds ral farm buildings and blew the roof of an
Johnston County NE	05 Sever	0900EST al trees blown	down on S.R	1544.	0	0	0	0	Thunderstorm Winds
Wayne County 10 SW Goldsboro	05 Slight	0905EST t damage was r	eported to old	0 tobacco barr	0 n near the	0 Sampso	1K on County	0 line.	Thunderstorm Winds
Wake County SRN	north o	0900EST- 1045EST County Sherif of the Johnston wement.	ff's Office repo County line,	orted several was closed d	0 roads in s ue to floo	0 southern od water	0 section of s eroding	0 f the cour away the	Flash Flood nty under water. Old Stage Road, one mile shoulder of the roadway and undercutting
Franklin County Louisburg	05	1900EST fell on a house	e on North Ma	in Street.	0	0	25K	0	Thunderstorm Winds
Guilford County Julian	27	1610EST			0	0	0	0	Hail (1.50)

location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Pers Killed	iber of sons Injured	Dan	nated nage ty Crops	October 1995
	Golf b	all-size hail re	ported.						
Guilford County Julian	27 Wide s	1615EST swath of wind	damage to tre	es and power	0 lines in	0 Julian. M	0 Iajor pov	0 ver outage	Thunderstorm Winds es reported.
erson County 5 N Roxboro	27 Numer	1615EST rous trees blow	wn down. Bari	n roof blown	0 off.	0	0	0	Thunderstorm Winds
uilford County Greensboro	27	1625EST			0	0	0	0	Hail (1.00)
ORTH CAROLINA	, Centra	l Cont'd							
)range County Hillsborough	27	1715EST			0	0	0	0	Hail (0.75)
erson County Mayo Lake	27 A torn Many	1720EST ado touched of trees and pow	4 lown on SR 1 er lines were o	75 514. A home downed. Thre	0 wasdest e mobile	0 royed and e homes d	250K I two oth lestroyed	0 ers were	Tornado (F2) significantly damaged on U.S. 501 Nort
Durham County Durham	27 Trees 1	1730EST fell on a house	e and numerou	is power lines	0 s down d	0 ue to tree	25K s falling	0 on lines.	Thunderstorm Winds
Granville County Corinth	27 A torn barns a tree wa	1810EST ado touched i nd farm outbui s blown onto t	2 n the commun	75 ity of Corintl stroyed. At the he roof was 1	0 n. Numer intesect	0 rous large	250K trees we	0 ere downe	Tornado (F2) ed and a new home lost its roof. Numero 1643, a home was damaged when a lar ees were twisted and snapped. A truck a
ance County W Henderson	Here, 2	ed. For severa	e Unauls were d	lestroyed. In	e roor of	the busir	iess was	blown of	Tornado (F2) d north and crossed Interstate 85. Spora rm hit the Camperland business sales 1 f. A few blocks away a medical clinic w nent store, grocery, hospital, and shopp
Varren County Wise	27 A steep church		1 off a church in i	50 he Wise com	0 munity.	0 Numerous	10K s trees w	0 ere dama	Tornado (F0) ged and twisted within a few blocks of t
Durham County Durham	27 Trees	2100EST were downed	in and around	the city of D	0 urham.	0	0	0	Thunderstorm Winds
NORTH CAROLINA	, Southv	vestern							
CAZ033>034-049-055- 62>065- very County									
Various	05 05	0700EST- 0855EST			0	0	?	0	Flash Flood
urke County Various	05	1042EST			0	0	?	0	Flash Flood
aldwell County Northern	05	0600EST			0	0	?	0	Flash Flood
lenderson County Northern	05	0329EST			0	0	?	0	Flash Flood
lenderson County Various	05	0845EST			0	0	?	0	Flash Flood
ackson County Cashiers	05	0200EST			0	0	?	0	Flash Flood
ackson County arious	05	0845EST			0	0	?	0	Flash Flood
Iacon County /arious	05	0100EST			0	0	?	0	Flash Flood
ransylvania County Various	04 05	0900EST 0300EST			0	0	?	0	Flash Flood Flash Flood
Zancey County Various	05 Heavy	0600EST rain associated	with Opal cau dges were the propane tanks	sedsome floo result. The n were floating	0 ding pro	0 blems, R	? ainfall ai	0 nounts ty	Flash Flood pically ranged from four to six inches a urred in Avery County where evacuatio
NCZ033>034-048>054- 58>059-062-064> 065-067	05	0300EST- 1400EST	-		2	10	15M	0	High Winds winds reached damaging levels during t

Winds gradually increased over Northeast Georgia with the approach of Opal. The winds reached damaging levels during the early morning hours of October 5. The damage was most serious in Rabun County where numerous trees were blown down. The wind damage was described as worse than the blizzard of 1993 and power was out for more than a week in some places.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed		Estima Dama Property	ige	October 1995
	of the was k roady	vind reached sust wind damage. A illed near Marsha way. About 10 g trees. (M60M	and the man in Cand All, Madson C people were	ller,Buncomb ounty, NC, v injured in M	h through be County when a tro acon, Ma	mountain , NC, wa ee was bl dison, ar	passes with as killed wl own onto l nd Buncom	n higher nen a tre nim whi be Cou	gusts. Two people were killed as a result e crushed his mobile home. Another man le he was helping cut other trees out of the nties, NC ,by wind blown debris and fm
NORTH CAROLINA,	Extre	me Southwes	tern						
	None	e reported.							
NORTH CAROLINA,	North	western and	North Cer	ntral					
Northwest Zones 001>003- 018>019-	05	0530EST- 1400EST			0	0	200K	?	High Winds
Watauga County Countywide	05	0630EST- 1100EST			0	0	350K	?	Flash Flood
Ashe County Countywide	05	0730EST-							
Wilkes County W and N Portion	05	1130EST 0800EST-			0	0	250K	?	Flash Flood
Alleghany County Countywide	05	1100EST 0800EST-			0	0	175K	?	Flash Flood
	and e 50 mj areas down carpo nume some	arly afternoon or ph with some gus The yast major	n the 5th. Asl ts to near 60 r ty of the wi omes were da and a car and ds and bridg he. Alleghan	he, Watauga nph downed r nd damage o maged by the a house wer es, damaged v. Watauga a	and Wilk numerous t occurred a windor fr e damage roads,wa und Wilke	es Count rees, larg televatio om fallir d by the shed out counti	ties were d ge branches ons above 2 ng trees or high Wind bridges, st es. Minor	eclared and po	Flash Flood thwest North Carolina during the morning disaster areas. High winds between 35 and wer lines and knocked out power in some et. Some roads were blocked for a time by bs. In Boone, a mobile home and a nearby y rains from the remnants of Opal flooded motorists, flooded a house and resulted in unaged occurred at some schools. Damage
North Dakota	Data	not received.							
OHIO, Northern									
OHZ001>014-017>023- 027>033-036>038-047 Northern Ohio	05 05 05 05 The 1 to 30 prolo dama over accor 2.5 in	0900EST- 2300EST 2300EST 2300EST mph all across nged period of st ged by falling tre and ripe apples npanied the storm cches during the	icane Opal p northern Of ong winds br es or limbs. C s and other fr n. Rainfall of same period	assed across nio. Althougl ought down a ropswere dan uit being stri 3.4 inches in . Flooding w	0 northeast h not con few trees, naged fro pped fron n less that as localiz	0 Ohio an sidered a scatered m the str n trees. n 24 hou ed and n	80K 0 dd caused w a high win tree limbs, ong winds The actual rs was mea ot significa	? 0 vind gus d event and son A num crop da sured at unt since	Strong Winds Heavy Rain sts up to 45 mph and sustained winds of 20 by National Weather Service criteria, th me power lines. Several automobiles were ber of farms reported fields of corn blown mage estimate was unknown. Heavy rais Mansfield and most areas averaged 1.5 to e very dry conditions preceded the storm.
Lake Erie Ohio Waters	05 06 The r ahead the w areas Seven winds	0900EST- 0600EST emnants of Hurri l of the storm read	icane Opal pa ched 45knots	assed over th all across the	0 e eastern e lake wit	0 end of L h gusts to verage N	200K ake Erie T o 60 knots	0 hursday produci	Storm Force Winds night (5th/6th). Sustained northeast winds ng waves of 10 to 14 feet. Water levels on beach and shore erosion occurred in many unities with low lying areas along the lake. storm moved northeast Thursday night and et below recent averages and several boats
Lake Erie Ohio waters from Cleveland to Fairport Harbor		1910EST ral waterspouts	were reported	l. Thev rema	0 ined over	0 the wate	0 er and no d	0 amage v	Waterspouts was reported.
OHZ009>014-019>023- 020>023-033 Northeast Ohio	20 20 High down	1230EST- 1700EST	_	-	0	0	70K	0	High Winds were common. Trees and large limbs were ling trees and limbs, and some power lines
OHZ001>014-017>023- 027>033-036>038-047 Northern Ohio	24 24 Wind event	0600EST- 1200EST I gusts of 50 mph , several trees and	affected muc l limbs were d	ch of norther lowned along	0 n Ohio. W with some	0 /hile not power li	25K exceeding nes. At lea	0 Nation st one c	Strong Winds al Weather Service criteria for a high wind ar was damaged from a downed tree limb.
OHIO, Eastern									

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons	Estir Dan Proper	nated nage	October 1995
			. ,			5	1		
OHZ057 Muskingum County	05 A larg	1630EST ge tree was uproc ered throughout	oted in Zanesvi the county.	lle by the wi	0 nd and it	0 took dow	2K n some p	0 oower line	High Winds s as it fell. There were also downed limbs
OHZ040 Carroll County	05 Seve	1700EST ral large limbs v al Ohio.	were downed	in Perrysvill	0 e as there	0 mnants o	1K f what w	0 as once H	High Winds Iurricane Opal moved north through east-
OHZ039 Tuscarawas County	05 A fev	1700EST w small trees we	ere downed by	/ high winds.	0	0	1K	0	High Winds
OHZ041 Columbiana County	05 Sever dama	1720EST ral large limbs we age. The limb al	ere downed. Or so brought do	nelarge limb wn some po	0 fell on a l wer lines.	0 nouse in S	6K Salem an	0 d caused	High Winds damage to the siding and minor structural
OHZ040 Carroll County	20 A fev	1500EST- 1600EST w trees were dow	wned in and n	ear Carrollto	0 on by high	0 winds al	1K nead of a	0 n intense	High Winds frontal system.
OHZ049 Harrison County	20 Seve	1500EST ral large limbs v	were downed	by high wind	0 ls through	0 nout the c	1K ounty.	0	High Winds
OHZ068 Noble County	20 High	1500EST winds fell a tre	e across a roa	d in Summer	0 field and	0 a few lar	1K ge branc	0 hes were	High Winds also downed.
OHZ039 Tuscarawas County	20 Seve	1530EST ral large limbs v	were downed	across the so	0 uthern pa	0 rt of the o	1K county.	0	High Winds
OHZ069 Monroe County	20 High	1600EST winds downed	a few power I	lines across t	0 he county	0	1K	0	High Winds
OHIO , Southeast									
OHZ066-067- 075-076-083- 084-085-086-	05	0400EST- 1600EST			0	0	0	0	Heavy Rain
087 Southeast	The lebene reach	ow pressure ren ficial rains of and near 29.2 in	nnants of Hur 5 to 1.5 inche ches.	ricane Opal p s were obser	bassed thr ved. Wir	ough dur id gusts v	ing the e vere mos	arly after tly in the	noon. The storm was moving fast, so only 25 to 35 mph range. Barometer reading
OHIO , Southwestern									
Warren County Maineville		0800EST- 1000EST y rains from the r ol cafeteria.	remnants of Hu	urricane Opal	0 caus e l mis	0 nor flood	3K ing of lov	0 w lying ar	Flood eas, including the Maineville Elementary
Montgomery County Countywide		1100EST- 1530EST emnants of Hurri ple of county re					1K inor floo	0 ding of lo	Flood w lying areas. Water was reported across
Darke County Countywide		1300EST- 1630EST remnants of Hu ling of poor drai					1K e inches	0 of rain in	Flood less than four hours. This caused mino
OHZ042- West Central	05 05 Stror	1330EST- 1500EST ag winds associa	ated with the r	emnants of I	0 Hurricane	0 Opal dov	3K wned nur	0 nerous tre	High Winds bes and a few power lines.
OHZ072-077>080- Southwest	20 20 Stron Park	0900EST- 1015EST g winds associate (OHZ072) seve	ed with a fastm ral camper av	noving cold f	0 ront caus destroyed	0 ed severa l or dama	3K l trees an ged.	0 Id power 1	High Winds ines to be downed. At Cowan Lake State
OHIO, Southwestern C			-		-				
OHZ077-080- Southern	27 27 Stror	0530EST- 0630EST ag winds behind	a cold front o	lowned trees	0 , some in	0 to power	3K lines. So	0 ome trees	High Winds also fell across roadways.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estim Dama Property	ated age Crops	October 1995 Character of Storm
OHIO, Northwestern									
	None	e reported.							
OKLAHOMA, North	eastern								
McIntosh County Vernon 1 S Eufaula	02 02	0742CST 0835CST			0 0	0 0	?	??	Hail (0.75) Hail (0.75)
Haskell County Keota	02 Isolat at Ve	0940CST ed severe thunder ernon, just south	storms devel of Eufaula, a	loped in easte ind at Keota.	0 ern Oklah	0 oma durii	? ng the mo	? rning of	Hail (0.75) October 2nd and produced dime-size hail
Sequoyah County Akins	02	1315CST			0	0	?	?	Hail (0.75)
Le Flore County 2 S Hodgen	02 Isola	1410CST	erstorms red	leveloped in a	0 extreme e	0	?	?	Hail (0.75) e afternoon of October 2nd and produce
Mayes County 3 SW Spavinaw Spavinaw NR Langley	26 26 26	1740CST 1743CST 1744CST	0.1	30	0 0 0	0 0 0	????	????	Tornado (F0) Hail (1.25) Hail (0.88)
Wagoner County Okay	20 26	1744CST 1746CST			0	0	• ?	?	Hail (1.75)
Delaware County 3.5 W Jay	26	1758CST			0	0	?	?	Hail (1.00)
Muskogee County Fort Gibson	26	1800CST			0	0	?	?	Hail (1.00)
Cherokee County 10 SW Tahlequah	26	1810CST			0	0	?	?	Thunderstorm Winds
Delaware County Jay Charakaa County	26	1815CST			0	0	?	?	Hail (1.00)
Cherokee County 8 SW Tahlequah 6 SW Tahlequah	26	1816CST- 1820CST	2	75	0	0	20012	9	Tormodo (E0)
5 S Tahlequah Adair County	26	1820CS1 1843CST	2 0.1	75 30	0 0	0 0	200K ?	??	Tornado (F0) Tornado (F0)
7 WNW Stilwell 4 NW Stilwell	26	1846CST- 1852CST	3	75	0	0	30K	9	Tornado (F0)
9 W Stilwell 4 NE Stilwell Delewere County	26 26	1900CST 1910CST	5	15	Ŏ O	0 0	6K ?	????	Thunderstorm Winds Thunderstorm Winds
Delaware County 3 NW Jay Jay	26 26	2020CST 2028CST			0 0	0 0	??	??	Hail (1.00) Hail (0.75)
Sequoyah County Akins	was d tree d F0. Stron	lamaged by the to amage was cause g straight-line w	rnado when a d byrear flan inds blew the	tree fell onto k downdraft e roofs off tw	it, and sev winds alc o homes	eral home ong the to and down	s receive rnado's tra ed severa	d minor o ack. The l trees ar	Hail (0.75) ctober 26th and continued throughout the g winds. The first tornado touched down this F0 tornado. community of Woodall at 1816 CST. The 820 CST. Considerable damage occurred teen homes, four mobile homes, and tw yed. Total damage was estimated at \$200 and just south of State Highway 62 being h at 1843 CST. No damage occurred with rell at 1846 CST. The tornado moved east f Stilwell at 1852 CST. One mobile home damage from downed trees. Considerable tornado was 75-yards wide and was rated ad power lines nine miles west of Stilwell.
	and acco cover	trees were also mpanied the sto red the ground a	blown dowr rms. Golf ba	n 10 miles so Ill-size hail fe	outhwest ell at Oka	of Tahleo y, half-do	quah and Ilar-size l	four mil nail fell a	les northeast of Stilwell. Large hail als it Spavinaw, and dime to quarter-size hai er locations in northeast Oklahoma.
OKLAHOMA, Extrem McCurtain County Eagletown	02	theast 1505CST winds downed s	several tree li	imbs causing	0 power lii	0 ne damago	0 e.	0	Thunderstorm Winds
OKLAHOMA, Panha	-			C C		U			
Beckham County Erick	0	0550CST			0	0	?	?	Hail (0.88)

Beckham County Erick Harmon County	0	0550CST	0	0	?	?	Hail (0.88)
5 E Hollis (OK Mesonet) Hughes County	02	0625CST	0	0	?	?	Thunderstorm Wind (G69)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Perso Killed	per of ons Injured	Estin Dam Propert	age	October 1995
1 SW Atwood Jackson County	02	0650CST			0	0	?	?	Hail (0.88)
3 S Altus (OK Mesonet)	02 02	0650CST- 0700CST			0	0	?	?	Thunderstorm Winds (G54)
Hughes County 5 WSW Lamar	02	0710CST			0	0	?	?	Hail (0.75)
Caddo County Cement	02	0732CST			0	0	?	?	Hail (0.88)
Logan County Cimarron City	02	0800CST			0	0	?	?	Hail (0.75)
Cleveland County Moore	east of Janew	0839CST ing thunderstorm by, and in Cemen of Hollis in Har yay, igniting a fire e damage.	s produced ha t in CaddoCou rmon County e. The fire was	il as largeas n unty. Severe . In Moore ir s extinguished	0 ickels in l thunderst Clevelar by the fir	0 Erick in E form wind d County e departin	3 Beckham ds reache y, lightni nent and	? County, e ed 79 mph ng struck damage v	Lightning one mile southwest of Atwood in Hughes a at the Oklahoma Mesonet site five miles the steeple of a church at 21st Street and was limited mainly to one room and some
Bryan County Calera	02	1150CST			0	0	3	?	Thunderstorm Winds
Pushmataha County 8 NE Moyers	Count	1315CST lay severe thunde y. In Calera in E ge shed.	erstorms in sou Bryan County	atheast Oklaho , severe thun	0 oma produ derstorm	0 ed hail as winds up	? s large as rooted a	? nickels e two-foot	Hail (0.88) eight miles east of Moyers in Pushmataha pecan tree and blew it over onto a car and
Seminole County Seminole	25	0550CST			0	0	?	?	Hail (1.00)
Pontotoc County 2 SE Ada	In Por	ntotoc County a v ntenna rod and p	voman was si	fruck by light	tning whil	le driving	g on SH 3	s two mile	Lightning the hailstones reaching the size of quarters. a southeast of Ada. The lightning melted a sore throat and slight headache after the
OKLAHOMA, Wester	n, Cen	tral, and Sou	ıtheastern						
	None	reported.							
OREGON									
DENINGVI VANIA No		reported.							
PENNSYLVANIA, No: PAZ001>003	ruiwes 1	0000EST-							
Northwest Pennsylvania	5	1200EST			0	0	0	?	Drought
	avera	ght continued fr ged from 20 to 50 nd local and stat) percent with	the total dollar	loss amô	unt unkn	own. A n	umber of	rain. Estimates ofate season crop losses residential water wells went or remained
PAZ001>003 Northwest	5 6	1200EST- 0400EST			0	0	20K	?	Strong Winds
Pennsylvania	5 6 50 mp the prodamag down accor	1200EST- 0100EST emnants of Hurri oh and sustained v olonged period of ged by a downed and apples and	treein the Cit other fruit b	ty of Erie. Cr eingstripped	ops were from tree	damaged s. The ac	0 nia on Th red a hig s along v from the tual crop	damage	Heavy Rain ight (5th/6th) and caused wind gusts up to vent by National Weather Service criteria, power lines. At least one automobile was veral farms reported fields of corn blown estimate was unknownnown. Heavy rains d not significant since drought condition
PENNSYLVANIA, No	rthwes	t Cont'd							
PAZ001>003	20	1430EST-							
Northwest Pennsylvania	20	1900EST			0	0	15K	0	High Winds
v	High down	winds accompa ed in a number	nied the pass of locations a	age of a cold and some pov	l front. W ver lines v	indgusts vere dow	of 55 to ned.	65 mph w	vere common. Trees and large limbs were
PENNSYLVANIA, No	rtheast	t		*					
Lackawanna County Scranton	14	1830EST			0	0	20K	0	Thunderstorm Winds
Pike County Lackawaxen	14	1925EST	, .		0	0	10K	0	Thunderstorm Winds
	large t	trees onto houses tracked the main	in Scranton. I	n Lackawaxe	en, a three	-foot dia	meter tre	e fell onto	g cold front. Thunderstorm winds downed o the Zane Grey House and Museum. The ees in the area were uprooted or sever y !

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estin Dan Propert	nated nage y Crops	October 1995
Bradford County	21 21 A rapic to four in Rom	0930EST- 1430EST Ily deepening le inches of rain fel ie.	0 ow pressure l across Badi	0 system over t ord County,	4K the Great causing S	0 Lakes br Sugar Cre	Flash rought he eek to ris	Flood avy rains e out of it	to parts of Northeast Pennsylvania. Three ts banks. Some flooding was also reported
PENNSYLVANIA, E	astern								
Chester County Countywide Montgomery County	05 05	2230EST			0	0	?	?	Thunderstorm Winds
Countywide	05 05 A squal each co		hunderstorms	associated wi	0 ith the ren	0 nants of 1	? Hurrican	? e Opal up	Thunderstorm Winds prooted trees in scattered areas throughout
Philadelphia County Philadelphia Intl Airport Lehigh County ABE/Lehigh	14	1910EST			0	0	?	?	Thunderstorm Winds (G55)
Valley Intl Airport		1918EST the 63 mph wir to lose power.	d gust at the l	Lehigh Valley	0 Intenatio	0 onal Airpo	ort, dam	? aging wii	Thunderstorm Winds (G55) nds around Allentown caused about 3,700
Philadelphia County Philadelphia	14 14 A seve	1920EST- 1945EST re thunderstorn	n uprooted n	ine trees thro	0 ughout tl	0 ne city.	?	?	Thunderstorm Winds
Northampton County Bethlehem 2 S Glendon	14 14 Severe uproote	1935EST 1940EST thunderstormed in Williams	s tore down Township, so	large limbs in	0 0 n Bethleh g Pennsyl	0 0 em and c vania Sta	? aused pointe Route	? ower outa 611.	Thunderstorm Winds Thunderstorm Winds ges to about 1,800 customers. Trees wer
Bucks County Yardley	14 A seve	1945EST re thunderstorn	n downed tre	es and wires	0 in Yardl	0 ey.	?	?	Thunderstorm Winds
Lehigh County Countywide	21 Severe	0330EST thunderstorms	downed tree	s and electric	0 cal lines	0 hroughou	? ut the cou	? unty and	Thunderstorm Winds caused 8,000 homes to lose power.
Chester County London Grove	21 Severe ten tree	0600EST thunderstorms u	prooted nume ing was also	erous trees and ripped from	0 Idowned homes.	0 power lir About 1,3	? nes in Lo 300 home	? ndon Gro es lost po	Thunderstorm Winds ove. Larger properties were losing around wer.
Chester County Countywide	21 21 Thund streams 2.50 in	1010EST- 1300EST erstorms with I s throughout th ches in Glenmo	neavy downg e county, esp pore and 2.03	oours (Aroun becially in Va binches in D	0 d two inc illey Tow owningto	0 thes of ra nship. S own. No	? in fell w torm tota serious in	? ithin a the ils for the njuries or	Flood/Flash Flood ree hour period.) caused flooding of smal day included 2.72 inches in Honeybrook, damage were reported.
Northampton County Southeast	21 21 Thunde	1015EST- 1315EST erstorms with hea	wy rain caus	ed flooding i	0 in the sou	0 theast pa	? rt of the	? county. S	Flood/Flash Flood Storm totals of around three inches fell. A the closure of Pennsylvania State Route
PENNSYLVANIA, E	astern Co	ont'd							
	611 in	Forks Townshi	р.						
Monroe and Carbon Counties	21 21 Thunde include 3.99 inc EST. 1	1030EST- 1600EST erstorms with to d 4.90 inches in ches in Jundale, 3 No serious dam	orrential dow Tobyhanna, 4 3.84 inches i age or injurio	npours cause 4.77 inches in n Tannersvill es were repor	0 ed small Stoddarts le and 3.6 rted.	0 stream flo ville, 4.65 7 inches	? ooding in inches in in Lehig	? n Carbon n Log Ta hton. Mo	Flood/Flash Flood and Monroe Counties.Storm event totals vern Pond, 4.10 inches in Promised Land, ost of this rain fell between 0600 and 1200
PAZ054-055-060> 062-067>071	wettest Lehigh Pennsy	oxically Octob Ivania. Rainfall October on rec Valley Intern Ivania and the D rictions became elphia Internati	cord at Phila ational Airp elaware Rive	delphia Inter ort was the r Basin Comn	national 2nd wett nission dro	Airport w est Octo ought wa	where 5.9 ber on ru rning ren	9 incheste ecord. V nained in	Unseasonably Wet the back of the drought across Easter to six inches above normal. It was the 4th ell. The 7.49 inches of rain that fell at the Vhile the drought emergency for easter effect through month's end, no tightening The mean temperature of 61.4 degrees ta being one of the ten warmest Octobers mo

PENNSYLANIA, Central

Location	Time Local/ Date Standard	Path Path Length Width (Miles) (Yards)	Num Pers Killed	ber of ons Injured	Estima Dama Property	ted ge Crops	October 1995 Character of Storm
PAZ033- Somerset County Somerset	05 1230EST Several trees down.		0	0	0	0	High Winds
PAZ024- Cambria County Ebensburg Johnstown	05 1342EST 05 1455EST	e 219 near Ebensburg a	0 0 nd several ti	0 0 rees blown	0 0 n down ar	0 0 ound Jo	High Winds High Winds ohnstown.
Perry County New Buffalo	05 2040EST Thunderstorms from t	he remains of Hurricane	0 e Opal took o	0 lown tree	0 s in New I	0 Buffalo	Thunderstorm Wind and blew siding off a home in Elliotsburg
Snyder County Middleburg	05 2055EST		0	0	0	0	Thunderstorm Wind dleburg and Selinsgrove.
Adams County Gettysburg	05 2130EST	own by strong winds.	0	0	0	0	Thunderstorm Wind
York County East York	05 2200EST	imbs and power lines in	0 n East York	0 and other	0 scattered	0 areas of	Thunderstorm Wind f eastern York County.
Northumberland County 4 W. Danville	14 1735EST Winds took down tre	ees on power lines betw	0 Jaan Danvill	0 and Nor	0 thumberla	0	Thunderstorm Wind
Snyder County Selinsgrove	14 1735EST	own along route 15 just	0	0	0	0	Thunderstorm Wind
Dauphin County Millersville	14 1745EST	eral sheds and downed s	0	0	0 ville	0	Thunderstorm Wind
Schuylkill County Cressona and Schuylkill Haven	14 1750EST		0	0	0	0	Thunderstorm Wind
		re blown down causing d on Thomas Street in C		encelines	and lawns	. Dam	age was reported on North Berne Street in
PAZ004- Warren County Garland	20 1815EST- 20 1920EST Numerous trees dow	n county wide. Tree or	0 1 house in G	0 arland.	0	0	High Winds
PENNSYLVANIA,	Central Cont'd						
PAZ065- York County Dillsburg	21 0100EST Roof blown off barn	roof.	0	0	0	0	High Winds
PAZ064- Adams County York Spring	21 0100EST Wind damage to hou	ise.	0	0	0	0	High Winds
Clearfield County Clearfield and Oscela Mills		am flooding occurred is	0 n Clearfield.	0 Baseme	0 ent floodir	0 ng in Os	Flood/Flash Flood scela Mills and roads flooded in Clearfidl
PAZ053- Columbia County Benton Township	Borough. 21 0230EST Roof damage to barr	1.	0	0	14K	0	High Winds
Centre County Countywide	21 0500EST- 1000EST	ams flooded across the	0 county	0	0	0	Flood/Flash Flood
Clinton County	Noaus and sman stre	ants mooueu across me	county.				

Clinton County

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estim Dam Property	age	October 1995
Countywide Huntingdon	21 Roads	0500EST- 1000EST and small strea	ams flooded a	across the cou	0 unty.	0	0	0	Flood/Flash Flood
County Countywide	21 Basem	0500EST- 2300EST nents were floor	ded along wit	th roads and s	0 small stre	0 eams acro	0 ss the cou	0 inty. Au	Flood/Flash Flood ghwick creek over its banks.
Juniata County Countywide		0500EST- 1200EST nents were floor as across the co		th roads and s	0 small	0	0	0	Flood/Flash Flood
Lancaster County Countywide	21 Basen northy	0500EST- 1800EST nents were floo vest part of the	oded along w county. Littl	ith roads and e chickies cro	0 d small st eek and C	0 treams ac Chickies c	0 ross the c reek abov	0 county. <i>i</i> ze flood s	Flood/Flash Flood About 30 roads closed, mainly across the stage.
Lebanon County Countywide	21 Basem	0500EST- 1800EST nents were floor	ded along wit	th roads and s	0 small stre	0 ams acro	0 ss the cou	0 inty.	Flood/Flash Flood
Lycoming County Countywide	21 Basem	0500EST- 1500EST nents were floor	ded along wit	th roads and s	0 small stre	0 eams acro	0 ss the cou	0 inty.	Flood/Flash Flood
Mifflin County Countywide	21 Basem	0500EST- 1200EST nents were floor	ded along wit	th roads and s	0 small stre	0 ams acro	0 ss the cou	0 inty.	Flood/Flash Flood
Potter County Countywide	21 Roads	0500EST- 1200EST flooded and sn	nall streams v	went out of th	0 neir banks	0 s across tl	0 ne county	. 0	Flood/Flash Flood
Tioga County Countywide	21 Roads	0500EST- 1500EST flooded and sn	nall streams v	went out of th	0 neir banks	0 s across tl	0 ne county	. 0	Flood/Flash Flood
York County Countywide	21	0500EST- 1800EST			0	0	0	0	Flood/Flash Flood
PENNSYLVANIA, Cer	Roads	flooded and sma	all streams we North Sherma	nt out of their l n St., Rte. 62	banks acr 4, and Ea	oss the const Berlin	ounty. M Rd. Prin	any road ce Traile	s flooded, including South Salem Church r Park in Hallam flooded.
Dauphin County Countywide		0700EST- 1500EST ents were floode ay streets, Derry				0 ms across	0 the coun	0 ty. Seve	Flood/Flash Flood ral roads flooded, including Cameron and
Montour County Countywide	21	0700EST- 2100EST flooded and sn			0	0 s across tl	0 ne county	. 0	Flood/Flash Flood
Northumberland County Countywide	21 Roads	0700EST- 1500EST flooded and sr	nall streams v	went out of th	0 neir banks	0 s across tl	0 ne county	. 0	Flood/Flash Flood
Perry County Countywide	21 Basem	0700EST- 1500EST nents were floor	ded along wit	th roads and s	0 small stre	0 eams acro	0 ss the cou	0 inty.	Flood/Flash Flood
Schuylkill County Countywide	21 Basem	0700EST- 1500EST nents were floor	ded along wit	th roads and s	0 small stre	0 ams acro	0 ss the cou	0 inty.	Flood/Flash Flood
Snyder County Countywide	21 Roads	0700EST- 1500EST flooded and sn	nall streams v	went out of th	0 neir banks	0 s across tl	0 ne county	0	Flood/Flash Flood
Union County Countywide	21	0700EST- 1500EST			0	0	0	0	Flood/Flash Flood

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Person Killed	er of 15 Injured	Estimate Damag Property	ed e Crops	October 1995
DA 7004 006 010-012		ents were floo	ded along wit	th roads and s	small stream	ms across	s the coun	ty.	Wet Weather
PAZ004-006-010>012- 017>019-024>028-033>037- 041>042-045>046-049>053- 056>059-063>066	the reg Schuvl	dry summer ar ion on the 20th kill County. R	 Amounts r Rainfall for th 	anged from 1 e month was	1.12 in Wai well above	rren Coui e normal.	nty, 2 to 4 Amounts	inches a for the	vania. Widespread heavy rain fell across across much of the area, to 6.47 inches ir month ranged from 4.6 inches across the isburg was 5.7 degrees above normal for
PENNSYLVANIA, Wes	stern								
PAZ014 Butler County	05	1400EST-							
·	once H where much o	lurricane Opal large trees and of the area durin	passed north branches we g the afternoor	through the a ere downedby n of October	occurred act area. The fi y high wind 4th and wa	irst repor ds throug is upgrad	t of damag hout the c ed to a Hi	ge in wes ounty. A gh Wind	High Winds on October 5th as remnants of what was stern Pennsylvania was in Butler County A High Wind Watch had been posted for Warning for wind gusts in excess of 60 re the storm struck.
PAZ032 Fayette County	05 A large	1500EST tree and some	e large limbs	were downed		0 vinds nea		0 e.	High Winds
PAZ020-021-029-030 Allegheny County Beaver County Washington County Washington County	05	1500567							
Westmoreland County	highest	1500EST- 1700EST 1power outages measured wind trees also fell.	l gust was 56 r	e to downed p nph at Beaver	ower lines	0 and larg port at 15	5K e tree limb 540EST. S	0 bs falling come wir	High Winds (G57) g across power lines across the area. The d gusts were estimated around 65 mph.
PAZ007 Mercer County	05 A large	1540EST e tree and some	e branches we	ere downed b	0 by high win	0 ids in Sto	1K oneboro.	0	High Winds
Clarion County	20 Fairly v	1330EST widespread dar	naging winds	ahead of an	0 intense fro	0 ntal syste	1K em downe	0 d numer	High Winds ous trees and power lines across western
PENNSYLVANIA, Wes	stern								
		ylvania during ST. The first re							in effect for the entire area from 1320 ngville.
PAZ007 Mercer County	20 Numer	1330EST- 1700EST ous reports of	trees and lim	bs downed by	0 y high wind	0 ds across	8K the count	0 y. Power	High Winds r lines were also downed.
PAZ023 Indiana County	20 A coup	1345EST ble of trees and	l a few power	lines were d	0 owned by ł	0 high wind	2K ds in Cavo	0 ode.	High Winds
PAZ008 Venango County	20 Power	1400EST- 1415EST lines were dow	vned near Oil	City and a fe		0 ll in Polk	2K	0	High Winds
PAZ013 Lawrence County	20 Several	1400EST- 1600EST Itrees, large bra 45 mph in sou	nches, and son	ne power lines	0 swere dowr	0 ned in and	3K d near Nev	0 w Castle	High Winds . At 1410 EST a spotter reported a wind
PAZ021 Allegheny County	20 A tree	1400EST and large limb	s were down	ed by high wi	0 inds two m mph at Pitt	0 iles east sburgh Ii	1K of Kenma nternation	0 wr. Prior al Airpo	High Winds to the report the wind gusted to 47 mph rt at 1346 EST.
PAZ030 Westmoreland County	20 A few	1400EST- 1630EST trees were repo	orted downed	l throughout (0 the county.	0	1K	0	High Winds
PAZ020 Beaver County	20 Large Aliquij	1420EST- 1445EST branches and ppa and a few	power lines large limbs w	were downed	0 l by high w in Monaca.	0 vinds in 1	3K New Brigl	High W hton. Tre	/ inds ees were downed one mile southwest fo
PAZ032 Fayette County	20	1530EST- 1630EST			0	0	3K	0	High Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nur Per Killer	nber of sons	Estin Dan Propert	nated nage y Crops	October 1995 Character of Storm
	Nume	erous trees and	large limbs w	ere downed a	cross th	e county,	especiall	y in Unio	ntown and Connellsville.
PAZ029 Washington County	20	1630EST- 1730EST			.0	0 _	2K	0	High Winds
PAZ016 Jefferson County	20	and power line 1930EST - 2000EST			0	0	5K	0 an Braalu	High Winds
	house	e near Brookvil	le.	ne county. Po	ower IIn	es were do	whed he	ar Brocky	way and siding was torn from the side of a
RHODE ISLAND	- 21	1000567							
RIZALL	scatte time. State occur	red power outag A peak wind gu	es. Power outa st to 57 mph w wick around 1 in resulted ir	ages affecteduj as reported fro 730. Along some minor	to 13,4 omTiver the coas	00 electric ton about t, a numbe flooding.	c custom 1500 and	ers statew a peak g	High Winds merous tree limbs and some trees causin vide but most were repaired by 2000 local ust to 48 mph was recorded at T.F. Green oke their moorings but no serious damage ried widely from around one inch in the
RIZALL	28 A squ accor	0500EST- 0800EST all line moved npanied by thus	eastward acre nderstorms wi	oss the state p th wind gust	0 preceded s to 40 to	0 l by gale f o 50 mph.	? orce sou Scattere	0 th winds. d power	High Winds The actual passage of thequall line was outages were reported.
SOUTH CAROLINA	, North	Coastal							
Williamsburg County Cades	05 Coop	0530EST berative observe	r reported lar	ge tree limbs	? down ca	? using root	3K f damage	?	Thunderstorm Winds (G50)
Florence County 2 E Florence	05 Airpo	1704EST ort weather obse	erver reported	gust.	?	?	?	?	Thunderstorm Winds (G50)
SOUTH CAROLINA	, North	Coastal Cor	ıt'd						
Marion County 1 W Marion	27 A tori	2305EST	3 wn in west Ma						Tornado(F1) Park area to U.S. Highway 501. Downed
Marion County Marion	27	2315EST		-	?	?	?	?	Hail (0.75)
Marion County Marion	27 Trees	2320EST 12 inch diame	ter and large l	imbs broke a	? nd dowr	? ied power	5K lines.	?	Thunderstorm Winds (G55)
SOUTH CAROLINA			6			I			
Jasper County Southern Half	05	0143EST erous trees dow	n.		?	?	0	0	Thunderstorm Winds
Colleton County 2 SE Walterboro	05 Trees	0215EST s down.			?	?	0	0	Thunderstorm Winds
Beaufort County Ladys Island	05 Trees	0240EST and limbs dow	'n.		?	?	0	0	Thunderstorm Winds
Beaufort County Countywide	05 Trees	0255EST and power line	es down.		?	?	0	0	Thunderstorm Winds
Dorchester County Summerville	05 Powe	0300EST er lines down.			?	?	0	0	Thunderstorm Winds
Charleston County James Island	05 Trees	0310EST were knocked	down.		?	?	0	0	Thunderstorm Winds
Berkeley County Jedburg	05 Trees	0311EST were knocked	down.		?	?	0	0	Thunderstorm Winds
Charleston County Ravenel	05 Large	0449EST e limbs and pow	ver lines dowr	1.	?	?	0	0	Thunderstorm Winds
Charleston County Charleston	05 Sevei	0459EST nyt-six mph gus	st reported by	Harbor Pilot	at Colui	? nbus St. te	0 erminal.	0	Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nur Per Killer	nber of sons	Estin Dam Propert	age	October 1995
						-	-		
Berkeley County Eastern Third	05 Trees	0504EST s were knocked	down.		?	?	0	0	Thunderstorm Winds
Charleston County Wadmalaw Island	05 Trees	0719EST were knocked	down.		?	?	0	0	Thunderstorm Winds
Charleston County Mt. Pleasant	05 Trees	0750EST were knocked	down.		?	?	0	0	Thunderstorm Winds
Berkeley County Southern Half	The r thund	lerstorm over the	coast and co	astal plains. N	Many of	these thui	nderstorm	s caused	Thunderstorm Winds October 5, 1995. Opal produced numerous wind damage as reflected above. Tropical and in Beaufort County.
SOUTH CAROLINA		1	seu a 48-100t	trawier, Kati	e ratifice	, to be be		rupp isi	and in Beaufort County.
Chesterfield County 4 NNE McBee	05	0440EST	.1	50	0	0	0	0	Tornado
Orangeburg Orangeburg	05	0500EST			0	0	10K	0	Thunderstorm Winds
Calhoun County St. Matthews	05	0515EST			0	0	?	?	Flood
Chesterfield County Cheraw	05 The r fifth.	1500EST emnants of Hurri One storm asso	cane Opal mo ciated with C	wed rapidly no Dpal produced	0 orth acro 1 an F0 t	0 oss South ornado in	? Carolina (Chesterfi	? on the ni eld Cour	Flood ght of the fourth and during the day on the ty which took down two groves
SOUTH CAROLINA	, Centra	al Cont'd							
	of tre it. Lo Dee I	es in the Carolina cally heavy rains River near Cher	a Sandhill Nati also produced aw.	onal Wildlfe I l minor low-la	Refuge. ' nd flood	Frees wer ing on the	e blown d e Congare	lown in (e River	Drangeburg, one fell onto a car and totaled near St. Matthews and along the Great Pee
Edgefield County 5 SW Trenton	27	1557EST			0	0	0	0	Hail (0.75)
Saluda County Ridge Spring	27	1630EST			0	0	0	0	Hail (0.75)
Lexington County Batesburg	27	1650EST			0	0	?	0	Thunderstorm Wind 50
Lexington County Gilbert	27	1650EST			0	0	0	0	Hail (0.75)
Lexington County 3 N Lexington	27	1710EST			0	0	?	0	Thunderstorm Winds
Richland County 2 E Irmo	27	1725EST			0	0	0	0	Hail (0.75)
Richland County 3 NNW Columbia	27	1740EST			0	0	0	0	Hail (1.00)
Richland County 3 NNW Columbia	27 A stru Centr Wind	1745EST ong cold front p al Savanah River I damage in Lex	.1 roduced a she area of Georg	50 ort squall line gia. AnF0 tor down large si	0 e of stori nado als	0 ns that du o develop ver lines.	0 mped larg ed just no and trees	0 ge hail o rthwest near Lak	Tornado F0 ver the midlands of South Carolina and the of Columbia which took down some trees. te Murray.
SOUTH CAROLINA			8	6	8				
SCZ007-001-004 Spartanburg County Oconee County	85 Heav	1030EST 0200EST y rain associated	with Opal cau	sed some flo	8 oding pr	8 oblems. R	95K ainfall ar	8 K nounts ty	Lirban Flood Flash Flood pically ranged from four to six inches and
SCZ001>003-004	05 Wind	0300EST- 1400EST	reased over	theWestern C	0 Carolinas	0	0	0	High Winds h the approach of Opal. The wind reache
SCZ006 Greenville County 3 SW Simpsonville									Tornado (F0) es and power lines were blown down onto minor damage was reported to homes.
SCZ009-012-019 York County			esapie						
Just East Clover York County	27 27	1521EST			0	0	15K	0	Thunderstorm Winds, Hail (1.75)
Lake Wylie Greenwood County	27	1530EST			0	0	15K 2	0	Thunderstorm Winds
3 N Greenwood Laurens County	27	1820EST			0	0	?	0	Hail (0.75)
Near Mountville	27	1830EST			0	0	5K	0	Thunderstorm Winds

S	torm D	Data an	d Un	usual	Weath	er Pl	neno	mena
Location	Time Local Date Stand	/ Pa Le ard (N	uth ength Ailes)	Path Width (Yards)	Number of Persons Killed Injured	Estima Dama Property		October 1995
	off of a mobi	le home west of	Lake Wyli	e in York Coi	inty, blew th ro	of off a baı	n and dam	Carolina upstate. The wind blew the roo aged outbuildings around Lake Wylie. ff a building near Mountville.
SOUTH DAKOTA, Ce	ntral and N	orthern						
Stanley County 8 W Ft Pierre	A Hayes mar U.S. Highwa	CST a was killed and t y 14-34. As one sibility resulting	vehicle wa	is passing a va	and a tractor-	? icle accide semitrailer	nt that occ	Rain curred eight miles west of Fort Pierre of and the water spray from the semi-truck
SDZ007-008-011-018- 021-037-048-051 Central and Northeast	A major fall wet snow co miles of line with some sh left without Portions of hundreds of damaged as a Doland, and	in the counties of ort lived power of power for seve Interstate 90 ar motorists stran result of the we	trong winc f Buffalo, I outages. M eral hours u nd Interstanded. There eight of the five inche	rtheast South lsgusting up Hand, Spink, arshall County upto several of the 29 were of e were also n s snow and hi s 10 SEStep	to 50 mph sna: Roberts and C y had no rp orts lays. Power w losed from the umerous scho gh winds. Son han and at Siss	pped sever irant. In Da of damage as not resto e evening (ol delaysan ne snowfall seton, six in	m four inc al thousan by and Lyn or power ored to son of the 23rd d closings amounts nches 7S R	Heavy Snow and Strong Winds hes to one foot of wet snow. The heavy d power poles and downed hundreds of ona Counties, a few poles were downed outages. Several thousand people were ne people until the fourth of November d until the morning of the 24th leaving . Many trees and some crops were also include, four inches 9 NNE Reliance, a kee Heights and at Eden, eight inches a taging storm
SOUTH DAKOTA, Cei	ntral and N	orthern Con	nt'd					
	to the rural el	ectric cooperativ	es this yea	r and has bee	en called the w	orst natura	l disaster i	n the history of the rural electrics. Tota
SOUTH DAKOTA, Sou	U	mate for the sta	ite fulai ele	cuics was p				
SDZ062- Minnehaha County	20 0300 1600	CST- CST 40 mph at time	es cause ur	ndetermined	0 0 crop damage.	0 The damag	? e wasmain	High Winds lly to corn, as ears were knocked off of
SDZ019>023-038>040- 050-052>055-057>061- 063>065-068- South Central and East Central	2300 Widespread the hardest. weeks follow damage in S thousands of trees and limit to slide into c	rees and mmb	a tree limb f a coddents,	elled an election	ical poe, startif atal collision i	ig a fire where a fire a fir	mage to po ostpower. S ower for r 5 million. . Some dat nich destro The heavy	Heavy Snow ower lines and poles, hitting rural areas Some were without power for over two efrigeration and other appliances. Tota Extensive tree damage also occurreds mage to buildings occurred from falling yed a house. The snow caused vehicles y snow and accompanying strong wind: E
Brookings County Volga	23 0745 Lightning str		0	1				Lightning Ig damage, and the lightning burned ou
SOUTH DAKOTA, We		g in the nouse.						
SDZ024&028	04	· · · · · · · · · · · · · · · · · · ·		41	???	?	?	SNOW (3.00-5.00)
SDZ024	19	e inches of snov			??	?	?	SNOW (1.00-2.00)
SDZ024-029		n Black Hills re Black Hills expo				? while aco	? rss the sou	SNOW (1.00-14.00) thern Black Hills amounts ranged fron
SDZ024-029	29-							SNOW (1.00-6.00) ck Hills measured one to three inches.
TENNESSEE, Eastern TNZ036-039>044- 067>074-083>087- 099>102	05 0030 1530	EST- EST			0 0	2M	0	High Winds
	elevations of and power 1 estimated in	t of East Tenne the Appalachia ines were dowr excess of \$1 mi Trail was clos	ans were n 1 over muc illion. Ov	neasured at 7 ch of the regi er 20 thousar	0 mph while 4 on. The great id homes were	he remnant 0-50 mph g est damage without po	ts of Hurri gusts were occurred is ower as a r	icane Opal. Wind speeds at the higher common at the lower elevations. Tree n Hamilton County where damage was result of the storm. Over 70 miles of th

ocation	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Per Killed	nber of sons Injured	Estim Dam Property	age	October 1995 Character of Storm
Hamilton County Countywide	05 Rains and h evacu	ad to be evacu	ts of Hurrican ated. A num	e Opal caused ber of reside	0 widspre nces and	0 ad floodi d busines	20K ing county sees were a	0 wide. A llso surr	Flood A circus was left stranded at a campgroun rounded by water and occupants had to d
FENNESSEE, Central									
INZ062 Countywide	and or	0530CST- 0830CST ing drizzle occurr verpasses. The or n a bridge and o	nly accident w	early morning ith an injury	0 rush ho occurred	1 our and ca l on State	20K sused at lea Route 96	0 ast 10 ca East (La	Freezing Drizzle ar accidents countywide mainly on bridge ascassas Highway). The driver's 1978 Jee
Hickman County Lyles	27	0215CST l electric compar		ower lines do	0 own.	0	0.1K	0	Thunderstorm Winds
Decatur County Decaturville	27 Local	0220CST l sheriff's depart	ment reporte	d golf ball-siz	0 ze hail.	0	0.1K	0	Hail (1.75)
TENNESSEE, Western									
Fipton County Drummonds Shelby County	26	2210CST			0	0	1K	0	Hail (0.75)
Memphis	26	2216CST- 2250CST			0	0	.05M	0	Hail (1.75)
	Nume limbs		ail occurred a	across the city	of Mer	nphis. Th	e hail proo	luced he	oles in several roofs and downed some tr
Fibson County Brazil	26	2223CST			0	0	2K	0	Hail (1.75)
Fibson County Frenton	26	2230CST			0	0	2K	0	Hail (1.00)
Fibson County Dyer	26 A hou	2230CST use was damage	d by a fire st	arted by ligtre	0 es and r	0 ower lin	.02M	0 wn dov	Lightning
Poinsett County Marked Tree	27 One h	0213CST	2	, ,	0	0	.02M	0	Thunderstorm Winds ere blown over. A fewrees were knocke
Aississippi County 5 S Osceola	27 An at	0245CST bandoned 500-fo	oot tall comm	ercial televis	0 ion towe	0 er collaps	.01M ed due to t	0 hunders	Thunderstorm Winds storm winds.
TEXAS, North Panhand	lle								
	None	reported.							
TEXAS, South Panhand	lle								
Farza County 2 SE Justiceburg	31	1640CST			0	0	?	?	Hail (1.00)
Iolan County Roscoe	31	1640CST			0	0	?	?	Hail (0.75)
Coke County 7 N Robert Lee 6 SW Blackwell	31 31	1715CST 1723CST			0	0	?	??	Hail (0.75) Hail (1.75)
6 SW Blackwell 5 NW Robert Lee Kent County	31 31	1725CST 1725CST			0 0	ŏ	?	?	Funnel Cloud
Clairemont Javton	31 31	1730CST 1742CST			0 0	0	? 0	??	Hail (1.75) Hail (0.88)
Coke County Robert Lee	31	1745CST			0	0	0	?	Thunderstorm Winds (G52)
terling County 7 NW Sterling City	répor	1750CST ers reported quart	ze hail south	west of Blac	0 za Counț kwell. A	0 A radio An Abiler	0 station rep ne televisio	? ported d on static	Hail (0.75) ime-size hail near Robert Lee. The pub n's spotters reported golf ball-size hail
FEXAS, North Central				-					
Iardeman County Quanah	02	0700CST			0	0	?	?	Thunderstorm Winds (G52)
Knox County Gilliland	02	0759CST ing thunderstorm			0	0	?	?	Hail (0.88)

TEXAS, North

Leon County

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		iber of sons Injured	Estin Dam Propert	age	October 1995	
Centerville	31 Sever	1810CST ral trees were b	lown down b	y high winds.	0	0	0	0	Thunderstorm Winds	
Haskell County Rochester	31 Sever	2116CST ral streets were	flooded in the	e city.	0	0	0	0	Flash Flood	
6 NW Haskell	31 Farm	2224CST -to-Market Roa	ad 2407 was c	losed due to l	0 high wat	0 er.	0	0	Flash Flood	
Throckmorton County Throckmorton	31	2210CST			0	0	0	0	Hail (0.75)	
TEXAS, Northeast										
Smith County Tyler	01 Two j	1600CST people struck a	nd injured by	lightning we	0 re hospit	2 alized.	0	0	Lightning	
TEXAS, Northeast Con	t'd									
Wood County 7 E Winnsboro	01 High	1810CST winds caused e	extensive tree	damage.	0	0	0	0	Thunderstorm Winds	
Camp County Leesburg	01 A tree	1812CST e was blown do	own by high w	vinds.	0	0	0	0	Thunderstorm Winds	
Franklin County 3 NW Scroggins	01 01 Trees	1815CST 1815CST were blown do	own by high v	vinds.	0 0	0 0	0 0	0 0	Hail (1.50) Thunderstorm Winds	
Titus County Mount Pleasant	01 A tree	1840CST e was blown do	own onto two	cars, crushing	0 g them.	0	20K	0	Thunderstorm Winds	
TEXAS, Southeast None reported.										
TEXAS, Central South	east	-								
Burleson County	31 31	1900CST 1950CST			0 0	$\begin{array}{c} 0\\ 0 \end{array}$	10K 10K	$\begin{array}{c} 0 \\ 0 \end{array}$	Hail (1.75) Hail (1.50)	
TEXAS, South										
Kenedy County Willacy County Cameron County	01 04 Break	2200CDT- 0800CDT cing swell from	1 Hurricane O	pal caused wa	0 ater to sp	0 ill across	? at the usu	0 1al wash-	Beach Flood over points damaging several vehicles.	
Kenedy County		U		1	1				1 00	
Willacy County Cameron County	12 14 Break	2200CDT- 0800CDT cing swell from	Hurricane R	oxanne cause	0 d water t	0 o spill ac	? ross at the	0 e usual w	Beach Flood ash-over points.	
TEXAS, South Central		6				1			1	
Wilson County Floresville Nueces County San Patricio County	02	1745CST			0	0	0	0	Funnel	
Kleberg County Aransas County	pushe region contin record	ed through the Control of the Contro	orpus Christi a 30th. The fro nent of heavy of rain which	trea during the ntal system b rain and emb was the grea	e early n ecame th edded th test one-	iorning h ne focus : understo: day rainf	ours on the for a deve rms. The fall total for	e 28th a cloping o Nationa or the mo	Flood e final days of October 1995. A cold front nd became nearly stationarrowy across the overruning situation which allowed for th I Weather Service office in Corpus Christ onth of October. Additional reports across	
Bastrop County Cedar Creek Cedar Creek	31 31	1720CST 1735CST			0 0	0 0	??	??	Hail (1.00) Hail (1.75)	
Val Verde County Nr Del Rio	31 The h	1725CST nail increased fr	rom pea-sized	at 1719 CST	0 to 1.25	0 inch at 17	725 CST.	?	Hail (1.50)	
Val Verde County N of Del Rio NE of Del Rio	31 31	1800CST 1802CST els observed br			0 0	0 0	0 0	0 0	Funnel Funnel	
Lee County			-			-				

Lee County

Location	Time Local/ Date Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estim Dam Property	ated age Crops	October 1995
Giddings Val Verde County	31 1800CS			0	0	?	?	Hail (0.75)
Laughlin A.F.B. Medina County	31 1946CS			0	0	0	0	Hail (0.75)
Hondo	31 2350CS Trees were blow	Γ vn over by thunde	rstorm winds.	0	0	?	?	Thunderstorm Winds
TEXAS, West								
Brewster County Alpine	01 1713CS An HP supercel	T l moving to the so	outheast throug	0 gh northe	0 ern Brews	3M ter Count	0 y pumme	Hail (2.00) Iled much of Alpine with large hail and
TEXAS, West Cont'd								
	200 homes havin	g the paint blasted trts of town. Duri	off the exterior	walls. M	lanycars w	ere dama	ged in the	ocked out of numerous houses, and about e storm as well. The hail was two inches Total property damage was estimated at
Culberson County 5 ENE Pine Springs	02 1057MS 02 1120MS	T		0	0	0	0	Funnel Cloud
8 E Pine Springs	1124MS	T 0.5	60	0	0	,0, ,	0	Tornado (F1)
	A supercell just s National Park. A	anger from the p	ark later report	ted a torr	ado east	of the pai	k as the s	of the boundary of Guadalupe Mountains torm moved slowly to the east-southeast.
Andrews County 25 SW Andrews	02 1318CS	Г		0	0	0	0	Hail (0.75)
Winkler County 21 NE Kermit	02 1318CS	Г		0	0	0	0	Hail (0.75)
Ector County Goldsmith	02 1342CS			0	0	10K	0	Thunderstorm Winds
Odessa	02 1414CS The Andrews C Highway 115. A of storms approa moving to the so	County Sheriffs o s the storm progr ched Goldsmith, putheast, it broke	ffice reported essed eastward a bow echo for up with an inte	0 three-qu l it forme rmed, wi ensifying	0 arter incled into an oth the res of cell drop	0 h hail alo accelerat ulting wi oping thre	0 ng the A ing line t nds destro e-quarter	Hail (0,75) ndrews/Winkler County line along Stat hat moved into Ector County. As the line yying a metal shed. As the line continued inch hail in Odessa.
Reeves County 3 W Pecos	02 1455CS' A radio station i	T reported three-qua	arter inch hail f	0 from a st	0 orm mov	0 ing south	0 eastward	Hail (0.75) along the Pecos River.
Pecos County Imperial	31 1420CS	Г		0	0	0	0	Hail (1.75)
Ward County 3 SE Grandfalls	31 1425CS	Г		0	0	0	0	Hail (0.75)
Crane County 17 WNW Crane	31 1435CS	Г		0	0	0	0	Hail (0.75)
Terrell County 10 N Dryden	31 1440CS	Г		0	0	0	0	Hail (1.75)
Crane County 8 WSW Crane	31 1455CS	Г		0	0	10K	0	Hail (1.75)
Terrell County 23 NNE Dryden	31 1458CS	Г		0	0	0	0	Hail (0.75)
Crane County Crane	31 1505CS 31 1505CS	Ţ		0	0	170K	0	Hail (1.75)
Crane Upton County 20 N. McComey	21 152400	т		0 0	0	10K 0	0 0	Thunderstorm Winds
20 N McCamey	A thunderstorn southwest, dropp storm crossed th County, large ha the roof off the B reported in extre- into Reagan Cot As the supercell v left-mover racing	n that developed of inggolf ball-size l ne Pecos River it il was reported al ig Deal Burito Re- seme western Upto anty where no fur was moving throug northward across	the Rio Grande	tern Pecco al and thr of becom h. In the e miles e tere receiver ty, a stor into sout	os County ree-quarte ning a sup city of C ast of the continued ved. rm in the n hcentral T	y became ers inch h bercell an Crane, gol city, pov l to the ea northern j Ferrell Co	severe as ail in the dbegan to f ball-size ver lines v st. The s part of the unty. A	Hail (2.75) s it approached the Pecos River from the southeast corner of Ward County. As the turn right of its previous path. In Crane hail was reported and strong winds blew were blown down. Baseball-size hail was torm then continued across open country e state of Coahuila, Mexico split, with the ranch north of Dryden reported golf ball- h hail was reported at a natural gas plant.
Terrell County 15 NE Sanderson	31 1609CS Report from a ra	T anch. Storm mov	ed to the east a	0 across so	0 uthern po	0 ortions of	0 the count	Hail (1.50) ^{y.}
Upton County McCamey	31 1648CS' From the storms a severe as one in	T already present, a ch diameter hail f	line began to f ell at McCame	0 form in a ey.	0 1 north-no	0 ortheast to	0 south-so	Hail (1.00) uthwest orientation. One cell was briefly
UTAH								
UTZ-002-	03 1710MS 04 0400MS Pre frontal wind		mph were recor	0 dedat Kn	0 olls. Stiff	0 winds ea	0 ist of We	High Winds and over reduced visibilities to 50 at times.
UTZ-003-010-	22 0500MS	T -						

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Perso Killed	ber of ons Injured	Estim Dam Property	age	October 1995
	22 Lake	1700MST effect snows dre	opped 15-22	inches at Alt	0 a, seven i	0 nches in S	0 Springvil	0 le, South	Heavy Snow Jordan, and five inches in North Orem.
VERMONT, North and	l Cent	tral							
LAMOILLE CO	15 15	0015EDT- 0600EDT			0	0	5K	0	FLOOD
WASHINGTON CO	15 15	0015EDT- 0600EDT			0	0	5K	0	FLOOD
CHITTENDEN CO	move Heav (Chitt Cente	ed across northe iest rain fell alor tenden County, er (Lamoille Court	rn NY late S ng the wester VT) overflow tty, VT). Field	Saturday afte n slopes of V ved its banks flooding was	ernoon an ermont's late Satur reported a	d evening Green M day nigh dog the L	g and the ountains t and earl amoille I	n contin with ove y Sunday River in J	FLOOD unday (Oct 15, 1995). A strong cold from ued east across Vermont Saturday night r 2 inches. The mill Brook in West Bolton y. Flooding was also reported in Belvidere ohnson, VT (Lamoille County). Heaviest alley (both locations in Lamoille County).
ADDISON CO	cold f Stron, rates. in Ple a win Nume Orlea In add the hd Coun EDT Exten Coun and lo	tront moved acre g gusty winds pre The strongest w asant Valley (Lar d gust to 51 mpl erous reports of t nns and Windsor dition, heavy rair eaviest rainfall r ty Varmont in C	oss northern 1 sceded and acc inds were alc noille County n Saturday m rees and pow late Friday n is moved acr eport in Vern iranville (Wh y morning. is reported ac PM EDT Ott gencies declar	NY and Verr companied thi ong the weste Vermont) Fri orning (Oct er lines dow, ight through oss Vermont nont was Ca' erross across 1 21 continuin ed. There was	nont Satu is front asa rn slopes iday evenii 21, 1995) n were rec Saturday and north vendish (V id along p northern N g through s an extens	rday nigh reas of Io of Verma ng (Oc20, ceived fro night. een NY of Vindsor (ortions of VY in bot 8 AM El ve mud sl	it. w pressu ont's Grea 1995). E om the Ve on Saturd County) v f the New h Clinton DT SUNI lide on W	re movin en Moun surlington ermont C ay aftern with 3.48	FLOOD o Canada thereafter. The associated strong g north along the front enhancing rainfall tains. A wind gust to 74 mph was reported n, Vermont (Chittenden County) reported ounties of Lamoille, Addison, Chittenden, oon and evening (Oct 21, 1995). A few of inches. Flooding was reported in Addison River late Saturday night around 1030 PM beginning at 6 PM EDT Oct 21 and Essex merous road washouts with road closures Mountain. Extensive debris was reported
CHITTENDEN CO	28 28	0800EST- 1200EST			0	0	0K	0	FLOOD
ADDISON CO	Frida The a winds inche A few New	y (Oct 27, 1995) ssociated cold fro s and heavy rain s in Springfield v rivers reached b) into souther ont moved acro . In Vermont (Windsor Co ankfull, but on ebury Rivers	n Canada Fr oss northern N , the heavies ounty). ly minor fiel	iday Nigh Vand Vei t rainfall r ld floodin	t and Sat rmont du reports we g was rep	urday (O ring Satu ere 1.70 i orted bet	ct 28, 199 rday and nches in ween 8 A	FLOOD which moved from the Great Lakes region 95) to produce gusty winds. was preceded and accompanied by gusty Worcester (Washington County) and 1.69 M EDT and 12 noon on Oct 28. Both the n River in Chittenden County experienced
VERMONT, Southern		-	-						
VTZ003-004-007- 009-011	Thurs Canao Green Coun Ripto	day night (Octob	er 5) and Frid nds occurred amaging wir unty damage dison and Le	ay morning (across parts o nds downed to occurred in icester. Dar	October 6 f Central trees and Canaan an nage was	 The st and North power lir nd Conco also reported 	corm systemern Vern nern Vern nes across ord. In Acord in Corted in Corted in Corted in Corted Corte	em then on the	High Winds ross Western and Northern New York late continued moving northeast into Southern especially along the western slopes of the Orleans, Addison, Caledonia and Rutlath ounty damage occurred in Bristol Village, a County in Groton, in Rutland Countyn
VTZ003-005>009- 011-012-014	20 21	2000EST- 2200EST			0	0	130K	0	High Winds
Windham County	21	1500EST- 1700EST			0	0	10K	0	Flood
Bennington County	Octob eveni Grand winds Heav Wind	1700EST - 2000EST itense low press per 20th to Sunda ing through Satu d Isle County. Th s were along the y	y morning O rday evening e damaging v vestern slopes urred with the ding occurred	ctober 22nd. y. Wind dam vinds brough of the Green is storm syst in West Dow	This sys age was i it down m Mountaii em with a er as theDe	0 Great Lak tem prod reported i any trees is from E general	30K es northe uced dam in every of and wire astern Ru rainfall o reek over	0 ast to Jan aging w county ex s causing utland Co	Flood mes Bay Canada between Friday morning inds across much of Vermont from Friday ccept for Essex, BenningtonFranklin and g numerous power outages. The strongest bunty north to Eastern Chittenden County. three inches across Southern Vermont. If ts banks. In Bennington County flooding
VERMONT, Southern	Cont'	d							
Windham County	28 Heav	0915EST- 1100EST	l flooding in	Bellows Foll	0 s in Wind	0 Iham Cou	10K	0	Flood

1100EST	0	0	10K	0	Flood
Heavy rains produced flooding in Bellows Falls	in Wir	ndham Co	ounty.		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estin Dam Propert	age	October 1995 Character of Storm
VIRGINIA, Northern									
VAZ021	05	1200EST-			0	0	0		*** * **** *
VAZ026	05	1500EST 1200EST-			0	0	?	?	High Winds
VAZ025	05	1600EST 1200EST-			0	0	5K	?	High Winds
VAZ027	05	1600EST 1300EST-			0	0	5K	?	High Winds
VAZ029	05	1600EST 1400EST-			0	0	?	5K	High Winds
VAZ030	05	1600EST 1400EST-			0	0	?	5K	High Winds
VAZ028	05	1600EST 1400EST-			0	0	?	5K	High Winds
	Susta feet) whicl a ser S. Wi In Ell doze	1600EST ined winds of 44 in the Shenandoa h was acceleratin vice station was inchester (VAZ0 kton (VAZ026), ns of trees blow	0 mph, with g ah Valley and a g through the l s ripped off, ca 28), an estimat downed trees n down along	usts in exces dong the Alle ower Ohio Va ausing \$1,500 ted 2,000 custo s and lines co 5 Skyline Driv	0 s of 60 m ghenyPlat lley durir) in dama mers wer ntributed ve in Pag	0 ph, blew eau. The g the afte ge; in ad e withou to powe e and Wa	5K down seve winds w ernoon of dition, so t power a r loss for arren Cou	? veral tree ere associate the 5th. me powe fter a fee 600 cust nties (V.	High Winds es at higher elevations (mainly above 2,000 ciated with the remains of Hurricane Opal, In Waynesboro (VAZ025), a canopy over er lines were knocked down in the area. In eder lockout (7200 Volt) was knocked out. comers. The National Park Service reported AZ029>030).
Madison County Graves Mountain	05	1630EST- 1700EST			0	0	15K	?	Flash Flood
Greene County Dyke	05	1700EST 1715EST-			U	U	15K	·	Flash Floou
Dykt	Heav flood pushi	1730EST y showers asso ls, producing n ng streams out o	ociated with the ninor flash floof f their banks, f , washing out	he remains of ooding. In G ooding sever a rebuilt brid	0 f Hurrica reene Co al low-wa lge whicl	0 ne Opal f unty, nea ater bridg 1 was pre	0 fell on are ar Dyke, a ges. In M eviously d	0 eas that s n estima adison C estroyed	Flash Flood sustained heavy damage from the late Jun ted three inches of rain fell in three hours ounty, an estimated five inches of rain fell by the June floods.
Prince William County Dale City	14 A pre to ho repor	1542EST e-frontal squall lin mes was very n ted, an one resi	.75 ne spawned a g ninor, with th dent claimed	40 sustnado in a e exception o to see a funno	0 Dale City of homes el cloud.	0 y subdivi which su	10K sion, upro istainedda	0 ooting or mage fro	Tornado(F0) snapping tens of trees. Structural damage om fallen large limbs. Small hail was also
Nelson County	20	2045EST-			0	0	-17	0	
Rockingham County E portion	20	2200EST 2100EST- 2200EST			0 0	0 0	5K 0	0 0	Flash Flood
Augusta County	20	2200EST			U	U	U	U	Flash Flood
E portion	20 20	2130EST- 2230EST			0	0	10K	0	Flash Flood
Warren County	20 20	2230EST- 2330EST			0	0	0	0	Flash Flood
Page County	20 20	2230EST- 2330EST			0	0	0	0	Flash Flood
Shenandoah County	20 21	2330EST- 0130EST			0	0	1K	0	Flash Flood
Madison County	the la Skyl Raini force sever their once	2330EST- 0030EST y rains caused by ate evening of i and and Big M fall totals over t d evacuations in ral basements w tent filled with w again, cutting off tty, and minor s	the 20th. Not eadows (Page he central and eastern Augus ere flooded. I ater. In Madi f the Middle Ri	able rainfall County). U d northern Sh taCounty. In In Mount Jac son County, wer subdivisio	totals we nconfirm enandoa Waynesl kson (Sh a rebuilt on in the	ere 6.98 1 led report h Valley boro, 15 s enandoal bridge pr northeast	nches at ts indicate generally streets we n County) eviously t portion of	Devil's F ed isolate ranged re closec , a coupl destroye of the co	Flash Flood in the northern Shenandoah Valley during Knob (Nelson County), and 6.14 to 6.23ta ed totals of between eight and nine inches fromfour to six inches. Moderate flooding d to traffic, E. Main Street was cut-off, and le was forced to evacuate a campground as d by the June 27th flood was washed away unty. Several roads were closed in Nelson puntys.
Frederick County	20 A gu	2222EST st of 61 mph wa	as reported in	a thunderstor	0 rm as it p	0 assed thre	0 ough wes	0 tern Fred	Thunderstorm Winds (G51) derick County.
Fairfax County Burke	21 The c	0355EST cold front which j	produced flas	h flooding du	0 ring the 1	0 ate eveni	300K ing of the	0 20th ind	Lightning luced thunderstorms east of the mountains.
VIRGINIA, Northern	Cont'd	I							
		ightning strike h thousand.	iit a fast food	restaurant in	Burke, se	etting it a	blaze and	destroyi	ing it. Damage was estimated to be at least
Spotsylvania County Partlow	27 The f	1715EST- 1720EST	2.75	100 fronts intera	0 sting with	0 unstable	100K	10K	Tornado(F1) ses produced a broken line of mesocyclonic

The third in a series of strong cold fronts interacting with unstable tropical air masses produced a broken line of mesocyclonic showers and thunderstorms. One intense cell deposited a strong F1 tornado in extreme southeastern Spotsylvania County just

Location	Time Local/ Date Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estin Dam Propert		October 1995 Character of Storm
	southeast of Partlow. off it's foundation. penetrating to the inte mobile home. Hun- track.	Seven homes In addition, ei erior wall of one dreds of trees v	received min ght sheds wer home. Other vere snapped	or damag re destroy property or uproo	e, in the /ed,with damage ted along	form of t projectile included g the path	rimming, s from the a flipped o , most in a	shingles, and siding: another was moved sheds shattering a minivan window and amper and destruction of an unoccupied densely wooded area near the end of the
Rappahannock County Sperryville	28 1235EST Thin but intense lin mph and pea-size hai was associated with	es of thunderst l between 1050 the wind gust.	ormsmoved EST and 1530	0 through t EST. Th	0 he northe he only se	0 ern Virgin evere wea	0 nia piedmo ather repor	Thunderstorm Winds (G52) nt region, causing winds in excess of 50 ted occurred in Sperryville. No damage
VIRGINIA, Eastern		0						
Sussex County near Waverly	05 1220EST Several trees down.			0	0	0	0	Thunderstorm Winds
Surry County	05 1235EST Trees down along F	Routes 627 and	616.	0	0	0	0	Thunderstorm Winds
King, Queen County 2 SE West Point Shacklefords	05 1320EST Tornado made a disc Shacklefords. Most and two were desi	3 ontinuous path significant dama troyed. Major led areas causi	150 in an area fro age occurred damage was	0 om near th at the air s inflicte o the tops	0 ne West I port when d to the of trees,	\$170K Point/Kin re four pl airport h , downing	g and Que anes were angar. T	Tornado (F1) en County Airport northeastward to near overturned. Two were heavily damaged, he tornado moved northeastward across wer lines and downing a few trees in the
Isle of Wight County 3 SW Isle of Wight CH	05 1350EST Brief tornado touch	.1m down uprooted	50 I a large oak 1	0 tree and s	0 everal ce	\$10K edar/pine	0 trees, and	Tornado (F0) tore roof off of garage.
Isle of Wight County 4 ESE Isle of Wight CH	05 1357EST Tornado touched dov occurred just north	.2m vn briefly in a w of Burnt Mills	100 vooded/farm a Lake.	0 rea. Oubu	0 ildings d	\$10K lamaged,	0 trees tops	Tornado(F0/F1) blown out, several trees down. Damage
Mecklenburg County 2 E Chase City	27 1715EST Mothball to dime-si	ze hail.		0	0	0	0	Hail (0.75)
Mecklenburg County Skipwith	27 1758EST Public report of dim	ne-size hail.		0	0	0	0	Hail (0.75)
Goochland County nr Georges Tavern	27 1750EST Numerous large lim	ıbs down.		0	0	0	0	Thunderstorm Winds
Mecklenburg County Chase City	27 1800EST Dime to quarter-siz	e hail reported	by electric co	0 poperativ	. 0	0	0	Hail (1.00)
Mecklenburg County 4 W Chase City	27 1800EST Several trees down	in vicinity of F	lighway 92.	0	0	0	0	Thunderstorm Winds
Hanover County 2 SE Montpelier	27 1800EST Large limbs down r	near the interse	ction of Rout	0 es 33/54.	0	0	0	Thunderstorm Winds
Lunenburg County just W of C.H.	27 1804EST Trees down across	Route 49.		0	0	0	0	Thunderstorm Winds
Lunenburg County Victoria	27 1825EST			0	0	0	0	Hail (1.00)
VIRGINIA, Eastern C	ont'd							
Mecklenburg County South Hill	Dime to quarter-size 27 1830EST Large tree blown do		r lines An-	0 Tovimatal	0 v 550 cm	0 stomers -	0 vithout po	Thunderstorm Winds
Nottoway County Blackstone	27 1845EST- 1850EST	hail fell for ab	out one minu	0 0 te. Tops	0 0 of severa	0 0	0	wer. Hail (1.50) Thunderstorm Winds off. Three trees blown down onto power
Louisa County	27 1845EST Trees down.	to 750 custolin	ers were with	0	0	0	0	Thunderstorm Winds

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	ber of ons Injured	Estin Dam Propert	ated age y Crops	October 1995 Character of Storm
Chesterfield County Bon Air	27 Sever	1845EST- 1855EST ral trees down.	Numerous po	wer lines dov	0 vn Four	0 thousand	0 I people v	0 vere with	Thunderstorm Winds
Nottoway County nr Crewe	27	1850EST trees down ont	Ĩ		0	0	0	0	Thunderstorm Winds
Henrico County Richmond City	27	1855EST uprooted onto			0	0	0	0	Thunderstorm Winds
Henrico County WRN portion	27 Tree	1900EST and large brand	ches down we	st and northw	0 vest of the	0 Univers	0 ity of Ric	0 hmond.	Thunderstorm Winds
Hanover County Mechanicsville	27 Two	1910EST trees down on 1	Highway 360	East.	0	0	0	0	Thunderstorm Winds
Henrico County 2-3 NW of RIC Airport	27 Tree	1915EST and several lar	ge branches d	own.	0	0	0	0	Thunderstorm Winds
Westmoreland County Potomac Mills	27 Large	1920EST e oak tree knoc	ked down ont	o power lines	0 by thunc	0 erstorm	0 winds.	0	Thunderstorm Winds
Hanover County Hanover	27 Two	1920EST trees down nea	r Sandy Valle	y Road and S	0 SR 634.	0	0	0	Thunderstorm Winds
Hanover County Ashland	27 Sever	1925EST ral trees and lar	ge limbs dow	n, also in the	0 Black Cr	0 eek area.	0	0	Thunderstorm Winds
Brunswick County nr Lawrenceville	27 Three	1930EST e trees uprooted	l onto SR 642		0	0	0	0	Thunderstorm Winds
VIRGINIA, Central Southwest West-Central Central Virginia Zones 007-009>020- 022>024- 032>035-	05 05	0730EST- 1600EST			0	0	20K	?	High Winds
Grayson County Countywide	05	0800EST-							C C
Carroll County	05	1200EST			0	0	?	?	Flash Flood
Wrn Portion	was s High and k dama occur	0800EST- 1215EST winds and heavy nia on the 5th. 1 m Carroll Coun wept off a roac winds betweer cnocked out pu ge occurred at red as a result of cery store that w	by flood wat 35 and 45 m ower in some elevations ab of fallen trees	oh with some locations acro ove 2,000 fee on roadways.	southwes gusts to oss south et. Some . In Carro	t of Fanc near 55 r west, we trees fell Il Count	3K by ed throo d in the f Several r y Gap in nph dowr st-central across ro y, a concr	? looding o oads wer Carroll C and port and port oads which ete block	Flash Flood nwest, west-central and portions of central of several creeks and roads in Grayson and e closed in Grayson County and a vehicle County. rous trees, large branches and power lines ions of central Virginia. Most of the win ch blocked traffic. A few traffic accidest c wall was knocked down by high winds at
VIRGINIA, Southwest	tern								
VIRGINIA, Northwest	tern	reported.							
WASHINGTON									
Pierce County Tacoma	05 Light	1500PST ning struck a fir un the irrigatio	tree and cause	d damage to	0 it and to i	0 rrigation	10K pipes rui	0 nning alo	Lightning ng the tree. It also knocked out six clocks
WAZ-001>003		-	•	in Ballinghar	0 n with u	0 inde aue	30K	0 mph	High Winds (G68) bout 8.000 customers had power outages

25 1700PST 0 0 30K 0 High Winds (G68) The highest winds were reported in Bellingham, with winds gusting to 78 mph. About 8,000 customers had power outages Whidbey Island Naval Air Station had gusts b 50 mph and a few damaged houses. Another house, near Olympia, was damaged when a tree fell through the roof.

WEST VIRGINIA, Northern

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Pers Killed	iber of sons Injured	Estin Dan Propert	nated lage y Crops	October 1995
WVZ023 Preston County	05 Large the ar		/ned by high w	ind across the	0 e county a	0 s theremn	1K ants of w	0 hat was c	High Winds nce Hurricane Opal moved north through
WVZ041 Tucker County	05 An 18	1230EST 8-inch-diameter	r tree was dov	vned by high	0 wind in 1	0 Parsons.	1K A few lar	0 ge limbs	High Winds were also downed.
WVZ004 Marshall County	05 Large	1640EST e limbs were do	wned on Rou	te 250 near N	0 Aoundsvi	0 ille.	1K	0	High Winds
WVZ003 Ohio County	20 A tree	1700EST e and some larg	e branches w	ere downed t	0 by high w	0 vinds ahe	1K ad of an i	0 ntense fre	High Winds ontal system in Wheeling.
WVZ002 Brooke County	20 A fev	1711EST v trees were dow	wned near Fo	llansbee.	0	0	1K	0	High Winds
WVZ004 Marshall County	20 A tree	1730EST e and some larg	ge branches w	ere downed b	0 by high w	0 vinds in N	1K Ioundsvil	0 le.	High Winds
WEST VIRGINIA, Eas	stern								
WVZ048	05	1300EST-			0				
WVZ049	05	1500EST 1300EST-			0	0	?	?	High Winds
WVZ054	05	1500EST 1300EST-			0	0	?	?	High Winds
	High Front	1500EST gradient winds a in western Pen	ssociated with dleton (WVZ	the remains of 054), Grant(0 f Hurrica WVZ048	0 ne Opal l 3), and M	? knocked c ineral (W	? lown tree VZ049)	High Winds along the higher peaks of the Allegheny Counties.
WEST VIRGINIA, Sou	theast	tern							
Southeast Zones 042>045-	05 05 High and 4 the ro	1030EST- 1600EST winds associate 5 mph with some oof of homes. T	ed with the res e gusts to near he vast major	mnants of Or 55 mph dow ity of damage	0 al move ned num e occurre	0 d through erous tre d at eleva	2K southeas es, large b ations abo	? t West V pranches ove 2,000	High Winds irginia on the 5th. High winds between 35 and power lines and ripped shingles off of feet.
WEST VIRGINIA, We	stern								
WVZ005-006- 007-008-009- 010-011-013- 014-015-016-017-018-019- 020-024-025-026-027-028- 029-030-031-032-033-034- 035-036-037-038-039-040-	05	0500EST- 1600EST			0	0	0	0	Heavy Rain
046-047	The penef baron Octol	remnants of Hu icial rains of .5 neter reading o ber. Some scho	to 1.5 inches. on record for a ools were disn	passed just Despite wir any October. hissed early a	west of t nds of on Charles is a preca	he regior ly 20 to 3 ton's pres ution.	n during t 0 mph, H ssure of 2	he aftern untingto 9.26 inch	oon. Its fast movement allowed for ond n's pressure of 29.25 inches was the lowest nes was also a record low for the month fo
WISCONSIN, Northwe	est								
WIZ002>004-007>009 NW Wisconsin	21 Twelv	0330CST- 1130CST ve inches of lake- rior snow belt o	-effectsnow fe f Northwest V	ll in the Hurl Wisconsin. T	0 ley areas. he heavy	0 Three to snow are	? o seven in ea extende	0 ches of l ed about	Heavy Snow ake-effect snow fell elsewhere in the Lake 20 miles inland from the shore.
WISCONSIN, Southeas	st								
Winnebago County Oshkosh	02 Light and th	2223CST ning struck a hor he roof.	ne on the sout	n side of Oshk	0 tosh, resu	0 Ilting in a	? fire whic	? h caused?	Lightning major damage to the second-floor ceiling
WIZ071- Southeast Wisconsin	10 Strong	1300CST g gradient winds em.	blew over a co	ow shetter just	0 t northwe	st of Wa	terford. N	line child	High Winds Iren were injured when the shelter toppled
WIZ001>072- Statewide	12 12 Unse	1400CST- 1700CST asonable warm	th under full s	unshine allo	0 wed temp	0 beratures	0 to reach r	0 ecord lev	Record Warmth vels in the 80s across Wisconsin.
Columbia County Portage	19	1340CST			0	0	?	0	Lightning
Portage Ozaukee County 3 NE of Fredonia	19	1530CST	ntning bolt hit	a substation	0	0	53K	5K	Lightning porarily shutting down electrical service to

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995
WIZ005- Northcentral Wisconsin	event 21 21 An ea snow up five	ually burned th 0400CST- 1130CST rly season heavy fell in Vilas Cou	is barn down, y lake-effect s nty. Phelps h tree branches b	and destroye now squall ex ad the highes proke due to th	d a stored hay cro 0 0 stended well down	p. The fire killed ? 0 stream into north	edonia (Ozaukee County). A delayed fir l 26 cows which were inside the barn. Heavy Snow ncentral Wisconsin. Five to seven inches of h Eagle River and Boulder Junction picked ns of two to four inches were noted further
WIZ064>066-071-072- Southeast Wisconsin	23 23	1600CST- 2000CST	ia, and 1 ayioi	counties.	0 0	? 0	High Winds
Oneida County 7 N Three Lakes	23 High Coun	1800CST winds toppled la	rge trees and po	ower lines in	0 0 scattered location	? 0 s of Jefferson, Wa	Lightning aukesha, Milwaukee, Racine, and Kenosha
Columbia County Pardeeville	27 An iso	1520CST plated thunders	torm's lightnin htlyoff its base	ng struck a la Several of	0 0 rge tree. One of the homes window	? 0 he large split piec	Lightning these hit a nearby home with such force that it and its electrical wiring sustained damage.
WISCONSIN, Western	1	C					
WYOMING	None	reported.					
WYZ001 Northwest Corner	03 04 Three	2000MST- 0900MST to nine inches	of snow fell i	n Yellowston	0 0 e National Park.	0 0	Heavy Snow
WYZ014-023- 025-061>066 South Central	04 04 Three	0800MST- 1600MST to seven inche	es of snow fell	in south cent	00 tral Wyoming, wit	000 th five to ten inch	Heavy Snow es in the Snowy and Laramie ranges.
WYZ067-070 Southeast Plains	05 05 Strong	0000MST 0700MST	etween 58 and		0 0	0 0	High Winds (G57) ust recorded was 66 mph, ten miles south-
WYZ001 Northwest Corner	07	0400MST- 1600MST		ver Yellowst	00 one National Park	000. The largest amo	Heavy Snow punt was ten inches at Craig Pass.
WYOMING Cont'd							
WYZ010 Northwest Fremont County	17 18 Eight	2200MST- 1100MST inches of snow	/ fell at Brook	s Lake in ext	0 0 reme northwest Fi	0 0 remont County.	Heavy Snow
WYZ061 Carbon County	18 18 Rawli	1147MST- 1837MST ins had sustaine	ed winds from	40 to 45 mp	000 h with gusts to 55	0 0 mph.	High Winds
WYZ001>006-008>015- 017-022>025-050>070 All Except the Southwest Corner	at Ro	rk Springs and	Gillette to se	venteen inche	es at Casper Mour	tain Generally	Winter Storm Snowfall amounts ranged from four inches six to ten inches f snowfall was common. p. Reported drifts of two to four feet were to drifting and near zero visibilities. Many to be rescued. Power was out for a time in
WYZ061-WYZ070 South Central and Southeast	26 26 Strong being	0300MST- 1400MST gwinds occurred 72 mph, ten m	l over south cer iles south of	ntral and outh Wheatland at	0 0	8K 0 Vinds frequently ght miles southea	High Winds (G63) gusted over 58 mph, with the highest gusts st of Wheatland at 0820 MST. The strong
WYZ001-002 Northwest Corner	28	2200MST					

Location	Time Local/ Date Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995 Character of Storm
	29 1000MST Heavy snow fell over was common, with e	Yellowstone N ight inches re	lational Park a ported at Sur	0 0 ndthe northwest p light Basin and no	0 0 art of the Absarok ear the northeast er	Heavy Snow a Range. Snowfall of four to eight inch ntrance to Yellowstone National Park.
WYZ002>004-015-050> 060		-	•	-		
Northern Wyoming	31 0800MST 31 1700MST Heavy snow fell over Cody.	parts of north	ern Wyomin	0 0 g. The greatest an	0 0 nounts reported we	Heavy Snow ere eleven inches at Lusk and six inches
ALASKA, Northern	2					
AKZ024-AKZ005	reported at Tin City of	n the Bering S	Strait Coast, a	nd Gambell and S	avoonga on Saint	High Wind/Blizzard ned 40 mph with gusts from 50 to 55 mp Lawrence Island. Kotzebue and locatic ph for several hours.
4KZ006	as well as nearby co	oastal areas.	Only damage	e reported was at I	Nome: minor beac	Coastal Flood duced a storm surge across Norton Sou th erosion in low-lying areas, some mir ry low-lying house on stilts, but not in t
ALASKA, Southern						
Middleton Island Dutch Harbor	01- 02 A 975 mb low located 987 mbs just southeas to 45 mph at Dutch I	t of Middleton	Island at 10 a	000 y, continued to m m Monday (10/2)	?? ove east northeast . Wind gusted to 4	High Winds through the Gulf of Alaska, weakening 44 mph both days at Middleton Island at
Aleutians Ak Peninsula Southwest Coast	northeast into weste	rn Bristol Ba ay winds reac	y where it be hed 41 mph a	gan to weaken lat it Adak, 53 mph a	e Friday (10/6). C t Cold Bay, 50 mp	High Winds emya early Wednesday (10/4), continui on Wednesday, winds gusted to 56 mph h at Port Heiden and 40 mph at Mekory larbor.
Central N Gulf Coast	07	01111duj,		0 0	???	High Winds
ALASKA, Southern C	'ont'd					
	A frontal low develo Island as a 978 mb o onshore of Cape Yal at Seal Island in Prin	center early S cataga Sunday	aturday (10/7 / morning (10	west of Kodiak ea (). The low then to (/8). Winds with t	rly Friday (10/6) th began to slowly we this system reached	hen moved to 90 miles south of Middle eaken and move eastward, dissipating j d 54 mph at Middleton Island and 43 m
Aleutians	southeastward, weak	ening 200 mi. Saturday, 45 i	les south of Y mph at Dutch	akutat at 10pm M Harbor on Frida	londay (10/9). Wi	High Winds moved into Bristol Bay where it began Codiak on the front and looped slowly e nds reached 65 mph at Shemya on Frid Paul on Monday, 38 mph at Cold Bay
Kodiak Island Alaska Peninsula	of Kodiak early Mond early Wednesday (10	lay (10/16). Tl 18). Winds ro	ne low then con eached 40 mp	ntinued to drift co h in gusts at Kodi	unterclockwise, was and 44 mph at 3	High Winds ding up as a 98 mb center 360 miles sou eakening to a 995 mb center near Kodi Sitkinak Island (off the southwest coast it Port Heiden along the Alaska Peninsu
Aleutians	16- 18 A moderate 988 mb lo low then headed east s reached 43 mph at S	southeastinto t	he north Paci	fic450 miles sou	ath of Dutch Harbo	High Winds hwest of Attu early Monday (10/16). T orearly Wednesday (10/18). Wind gu r on Wednesday.
Alaska Peninsula Kodiak Island Central N Gulf Coast Alaska Peninsula	18- 20 A complex North Pa moved to 120 miles er	cific low dee ist of Kodiak a ape Yakataga	pened to 968 t 10 am Thur Friday morr	0 0 mbs300 miles son sday (10/19). The	? ? ith of Kodiak at 10 b low then looped of on Thursday reach	High Winds D pm Wednesday (10/18). Part of the lo astward and began to weaken to 988 m ed 67 mph at Middleton Island. 45 mph

Kodiak Island

Location	Time Local/ Date Standard	Path Path Length Width (Miles) (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	October 1995
Middleton Island	a 9/1 mb center and m gusts reached 48 mp	loved to 360 miles south of	day and Sunday, 68	mph at Sitkinak Is	High Winds (1021) morning. The low intensified to d eastward and began to weaken. Wind land on Saturday, 53 mph at Kodiak no turday.
Western Aleutians	22 A moderate low 240 m 150 miles south of Sl	niles south southwest of A hemya. This storm brou	00 mchitka earlySunday ght wind gusts of 47	????? (10/22) curved nort mph to Shemya an	High Winds hwest and deepened to a 967 mb center d 40 mph to Adak.
Central Gulf Coast	22- 23 A moderate weather Saturday. Winds read	front moved northward ched 61 mph at Middlete	0 0 through the Gulf of on Island, 48 mph at	??? Alaska, making lar Cordova and 58 mp	High Winds dfall along the central North Gulf Coas h at Seal Island.
Ak Peninsula Kodiak Island Middleton Island	through the Gulf of Al Strong northwest wind especially at Middle Middleton Island, 48 n Point on both Tuesda	aska Wednesday. The ar ls devebped over expose eton Island. On Tuesda nph at Cordova and 50 m av and Wednesdav.46 n	ctic front, draped ard d areas after the arct y, winds reached 45 ph at Seal Island in 1 10h at Port Heiden of	bund the low, crosse ic frontal passage. mph at Cold Bay, Prince William Sou n Wednesday, 67 m	High Winds then began to weaken and drift eastward ed Kodiak Island very early Wednesday. Winds ahead of the low were also gusty, 48 mph at Cape Newenham, 50 mph ta nd. Wind gusts reached 46 mph at Sand ph at Sitkinak and 50 mph at Kodiak on en Kodiak and the Kenai Peninsula.
Southern Alaska	center 240 miles north Saturday (10/28). The Pacific moved northea Island as an intense 95	northeast of Shemya late e low remained nearly st ast to 120 miles south of	Friday (10/27) then m ationarrowy, dissipa Saint Paul early Sur ernoon (10/29). The	noved to 120 miles s ting late Saturday as nday (10/29) then to low remained nearl	High Winds, Coastal flooding (1026). The low deepened to a 972 mb southwest of Saint Matthew Island early s an intensifying frontal low in the North 120 miles north northwest of Saint Paul y stationarrowy and slowly weakened to drifted
ALASKA, Southern	Cont'd				
	caused local coastal f Shemya 10/26 52 mp Adak 10/2755 mpl Saint Paul 10/2955 Cold Bay 10/2748 Wind damage. New building located at construction projects trucks. A tug in the b off the beach during False Pass 10/28-29	looding along the south h. From the 28 - 30th m h. 10/2944 mph. 10/30 5 mph. modular home had abo he city's new water hom s, materials were laying ay could not mainfain s	west Alaskan coast S aximum winds each 40 mph. 0/2986 mph. but one third of the r ise was demolished, about and debris wa teering in the wind a on of the 29th, with r mph with "much hi	Sunday. Maximum day ranged from 4 roof blown off, two , several houses had s flyingcausing m nd had to cut the ba	tward at 9pm Monday (10/30). The low wind observations at selected sites were: l - 44 mph. hanger doors were blown out, plyword d siding or roofing torn off. Due to the inor damage to several automobiles and rge in tow loose. They picked the barge rge or its contents. rough morning (10/29). By 0900 winds

Brucks. A fug in the bay could not maintain steering in the wind and nato cut the barge or its contents.
False Pass 10/28-29...Midnight wind south 70 mph with "much higher gusts" lasted through morning (10/29). By 0900 winds had "begun to lay down". Few skifts blown around.
King Cove...10/28-29...South and southeast wind gusts "in the 60s (mph)". Harbor was closed at 1800 10/28 based on forecast received from NWS Cold Bay at 1700. All boats headed to Deer Island to hide and wait out incoming storm. Docks wer reopened at 1500 10/29 when winds shifted southwest and diminished less than 20 mph.
Sand Point 10/27...40 mph. 10/28...50 mph. 10/29...58 mph
Nelson Lagoon...10/28...29...Wind reached 60mph-during the morning of 10/29. Wind and high tide from 1330 to 1500 washed all material from under the new boat ramp (concrete) rendering the ramp unusable. Damage estimated \$250,000, primarily due to transportation coasts. The staging area will also need new gravel and some construction work.
Akutan (school)10/29...79 mph at about 0500.
Port Heiden 10/28...47 mph. 10/29...67 mph.
Cape Newenham 10/29...62 mph.
Siant Paul 10/29...55 mph. 10/30...40 mph.
Egegik 10/29...60 mph.
Dillinghan 10/29...62 mph.
King Salmon 10/28...43 mph. 10/29...48 mph.
Iliamaa 10/29...55 mph. 10/30...40 mph.
Sitkinak 10/29...53 mph. 10/29...62 mph. 10/30...62 mph. 10/30...48 mph.
Hooper Bay 10/27...53 mph. 10/28...50 mph. 10/28...50 mph. 10/30...48 mph.
Hooper Bay 10/27...53 mph. 10/29...62 mph. 10/29...62 mph. 10/30...48 mph.
Stetmute 10/29...55 mph.
Sith in 4. 10/29...55 mph.
Sith in 4. 10/29...55 mph.
Sith in 4. 10/29...56 mph.
Sitkinak 10/29...53 mph. 10/29...62 mph. 10/30...62 mph. 10/30...48 mph.
Hooper Bay 10/27...53 mph. 10/29...62 mph. 10/30...62 mph. 10/30...48 mph.
Sparrevohn Air Force Base 10/29...56 mph.
Sparrevohn Air Fo

Location	, Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Person Killed	r of s Injured	Estima Dama Property	nted ge Crops	October 1995 Character of Storm
	Sunday. in the ba Another	. Resident rep ay." 18 foot Lu r Lund was des	orted "The b nd boat with stroyed at the	bay was 'ragin 55 hp engin e "base of the	ng' with 25 e was flipp cliff'.	foot wa ed. Woo	vesand den herr	that there ing fishir	e had never been this high tide and wave g boat was damaged by wind driven ice.
ALASKA, Southeastern	I								
TT A 337 A TT	Data no	ot receieved.							
HAWAII Maui HIZ003 Hawaii HIZ004		ndshit the volc na Kea, Hawai		0 s of Maui and		0 Winds to	0 55 mph	High W were rep	V inds orted on Haleakala, Maui, and to 75 mph
PACIFIC									
	None re	eported.							
PUERTO RICO									
Utuado		1624AST rains caused a l	landslide at H	Barrio Rio Al	0 Dajo, Road	0 10, km.	0 53.2.	0	Heavy Rain
Culebra		1130AST reported hail in	n a thunderst	orm near Cul		0	0	0	Hail (0.25)
Culebra	09	1134AST reported three			0	0 lebra	0	0	Waterspouts
Toa Alta	10	1500AST efense reported			0	0	5K	0	Urban Flood
PUERTO RICO Cont'd	l								
Lares		1625AST Juses were repo	orted flooded	in the town	0 of Lares at	0 the Guai	2K	0 ctor	Urban Flood
Моса	16	1600AST			0	0	1K	0	Thunderstorm Winds roof at Barrio Capa.
San Sebastian		1625AST houses at the .	Juncal #111	sector were a	0 ffected by	0 the rains	2K	0	Heavy Rain
San Sebastian	16	PM ed trees were re			0	0	0	0	Thunderstorm Winds
Juana Diaz	20 River R	1857AST To Guayo was	reported out	of its banks	at Barrio Ja	0 caguas	0 Road P.F	Q ₈₀	River Flood
Santa Isabel	20 River R	1850AST	reported ou		0	0	0	0	River Flood sreported impassable since the bridge at
PRZ005-	21 Localize Corozal	PM ed flooding of l, Morovis and	small stream Narrowanjit	ns, roads and o.	0 streets was	0 s reporte	0 din Agua	0 Is Buenas	Heavy Rain , Barranquitas, Caguas, Cidra, Comerio,
Arecibo Camuy Hatillo Lares Manati Camuy	24 24 24 24 24 24 24 24 24	2315AST 2315AST 2315AST 2315AST 2315AST 2315AST 2315AST			0 0 0 0 0	0 0 0 0 0	0 2K 0 0 0 0	0 0 0 0 0	Urban Flood Urban Flood Urban Flood Urban Flood Urban Flood Thunderstorm Winds
Humacao Las Piedras Naguabo	25 1 25 1 25 1	Ing areas and s PM PM PM station reporte		eported flood	0 0	ed down 0 0 0	0 0 0 0	0 0 0 0	ed house were reported in Camuy. Hail (0.25) Hail (0.25) Hail (0.25)
Guaynabo	26	1420AST efense reported			0	0	0	0	Hail (0.25)
Guaynabo	26	1618AST ence was report		with mud and	0 I water at T	0 Jrhanizat	2K ion Mell	0 oce. Teia	Urban Flood s St. R-32.
Vega Baja		1							Urban Flood a poorly drained and low lying area.
San Juan	26	1545AST 1 Street in Puer			0	0	0	0	Urban Flood
Guaynabo	26	1425AST Ig of low lying		-	0	0	0	0	Urban Flood
Guaynabo	26	1540AST l stream went of			0	0	0	0 housing p	Flash Flood project.
Guaynabo	26	1535AST ned tree was rep		-	0	0	0	0	Thunderstorm Winds

Location	Time Local/ Date Standard	Path Path Length Width (Miles) (Yards)	Num Pers Killed	ber of ons Injured	Estimate Damage Property	e	October 1995
Rio Piedras	26 1535AST A downed power line	e was reported at the Mon	0 acillos se	0 ctor, John		0 km 3.4.	Thunderstorm Winds
Guaynabo	27 1350AST Martinez Nadal Aver	nue was reported impassa	0 ble.	0	0	0	Urban Flood
Comerio	28 1415AST Downed power poles	and lines were reported a	0 along Roa	0 d 775, km		0	Thunderstorm Winds
Comerio	28 1415AST Civil Defense reporte	ed flooded houses.	0	0	5K	0	Urban Flood
Cayey	28 1415AST Civil Defense reporte	ed a flooded residence in (0 Cayey.	0	2K	0	Urban Flood
PRZ005-	28 1434AST Landslides were repo	orted in Cayey, Coamo, ar	0 nd Toa Alt	0 ta.	0	0	Landslides
VIRGIN ISLANDS							
St. Croix	13 1545AST A pilot reported three	e waterspouts northwest o	0 f St. Croix	0 x moving		0	Waterspouts
St. Croix	26 1400AST A pilot reported a wa	terspout near St. Croix.	0	0	0	0	Waterspout

STORM DAMAGE CATAGORIES

REFERENCE NOTES

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

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

Definition of Fujita Tornado Scale (F scale)

- (FO) Gale tornado (40-72 mph): Light damage Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.
- (F1) Moderate tornado (73-112 mph): Moderate damage The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or over-

(F2) Significant tornado (113-157 mph): Considerable damage

Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

- (F3) Severe tornado (158-206 mph): Severe damage Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.
- (F4) Devastating tornado (207-260 mph): Devastating damage Well-constructed houses leveled; structure with

weak foundation blown off some distance; cars thrown and large missiles generated.

(F5) Incredible tornado (261-318 mph): Incredible damage

Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.

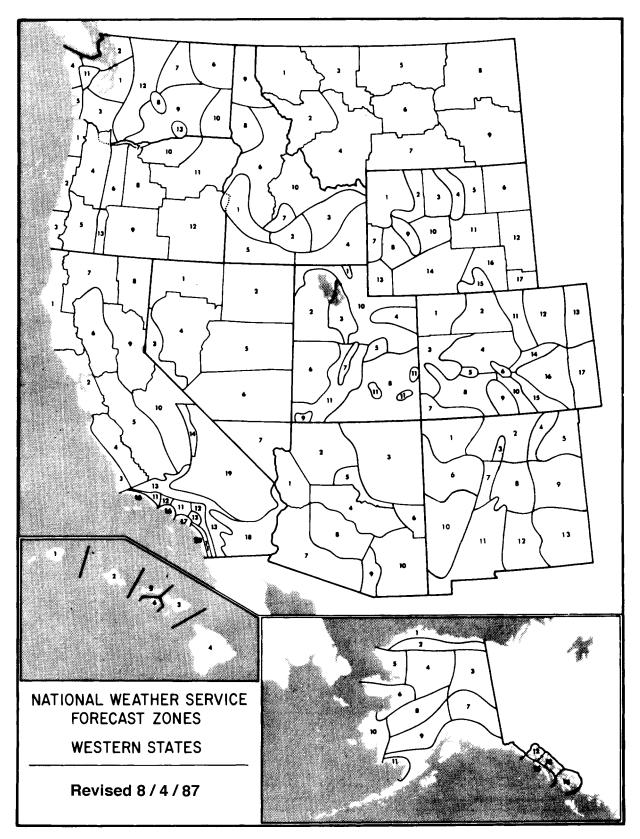
(F6-F12) (319 mph to Mach 1, the speed of sound): The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

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

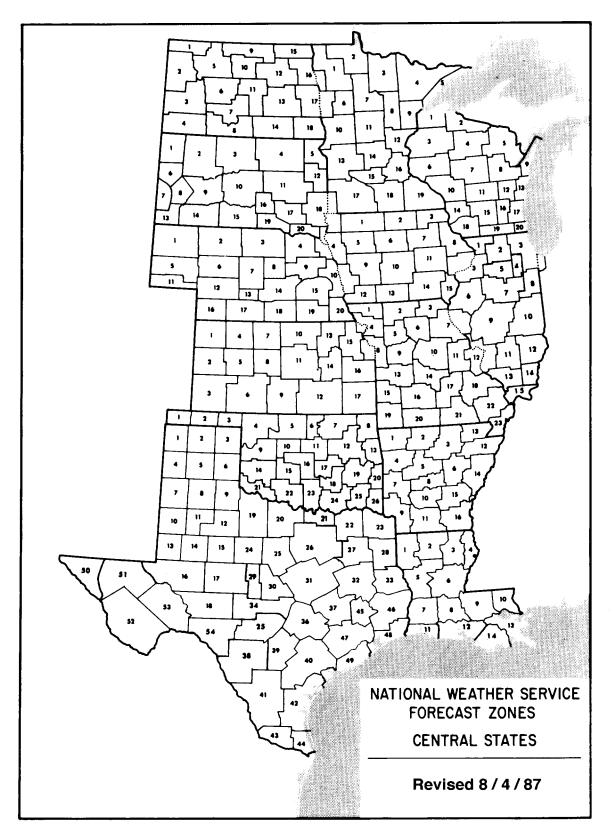
From J. Atmos. Sci., August 1981, p. 1517-1519



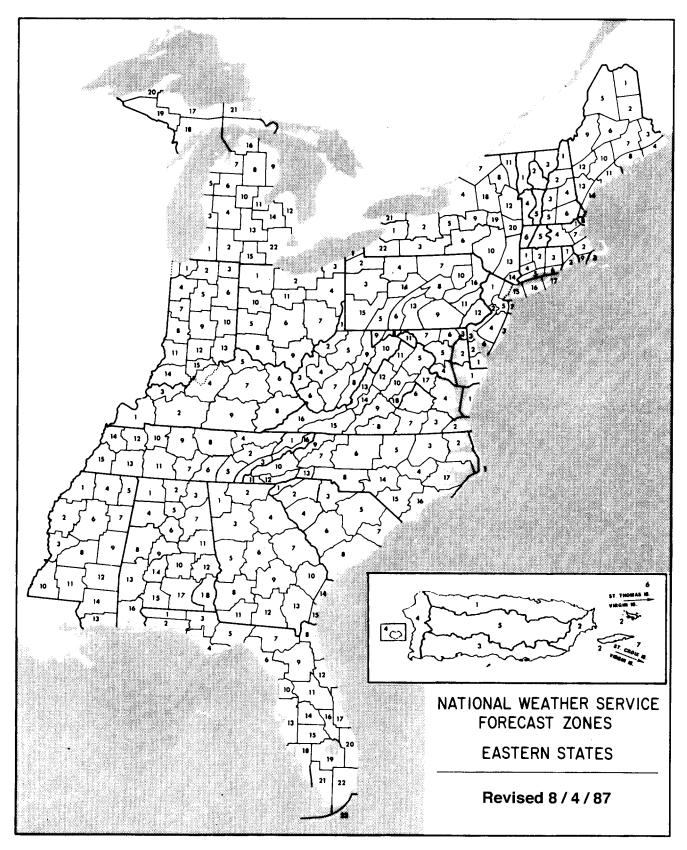
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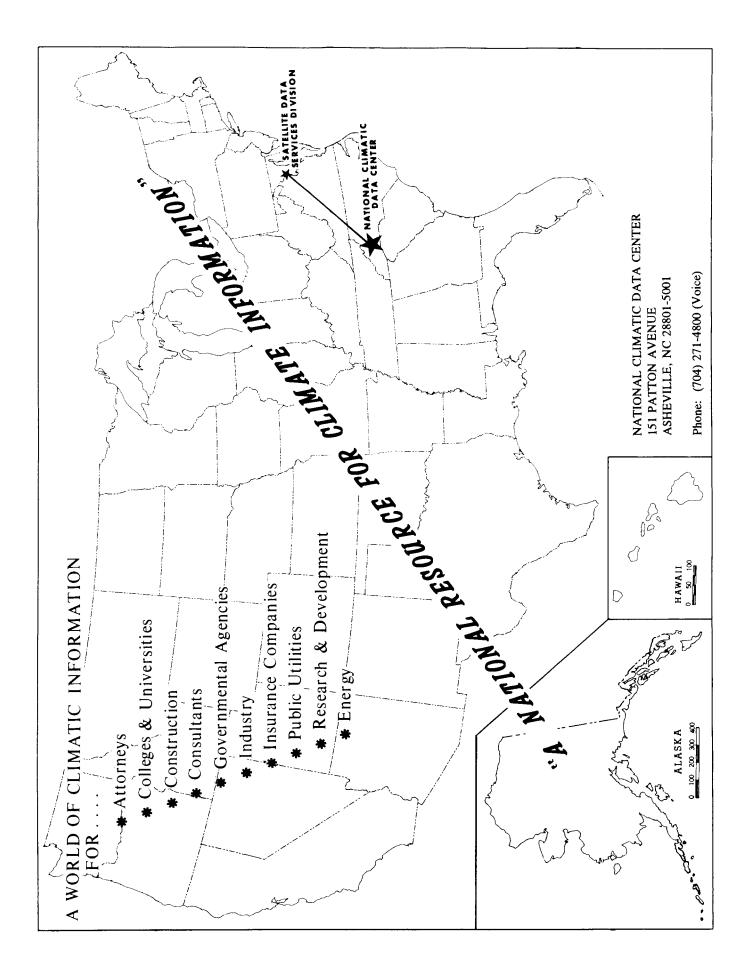
NEW FORECAST ZONE-MAPS TO BE PUBLISHED SOON



NEW FORECAST ZONE MAPS TO BE PUBLISHED SOON



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These and other publications are available from the National Climatic Data Center

Hourly Precipitation Data

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundreths at local standard time. **HPD** includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

Climatological Data

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July though June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

Storm Data

Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An "Outstanding storms of the month" section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

Monthly Climatic Data for the World

This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

Local Climatological Data

LCD summarizes temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for several hundred cities in the U.S. and its territories. Each monthly publication also contains the 3 hourly weather observations for that month and an hourly summary of precipitation. Annual **LCD** publications contain a summary of the past calendar year as well as historical averages and extremes.

For Information Call:

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