## NOVEMBER 2002 VOLUME 44 NUMBER 11



## AND UNUSUAL WEATHER PHENOMENA WITH LATE REPORTS AND CORRECTIONS



noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NC Cover: A low pressure system moved along the mid-Atlantic coast and brought a mixture of rain and snow to New Hampshire. With a high astronomical tide and northeasterly winds, tidal flooding occurred, particularly in the Hampton Beach area (shown). (*Photo courtesy: John Jensenius, WCM, NWS Gray, Maine.*)

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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 the National Climatic Data Center and the National Weather Service's (NWS) Storm Prediction Center. Disclosure information and additional details can be found in the Reference Notes section.

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

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

Note: "None Reported" means that no severe weather occurred and "Not Received" means that no reports were received for this region at the time of printing.

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

National Climatic Data Center 151 Patton Avenue Asheville, NC 28801 e-mail: <u>storm.data@noaa.gov</u>

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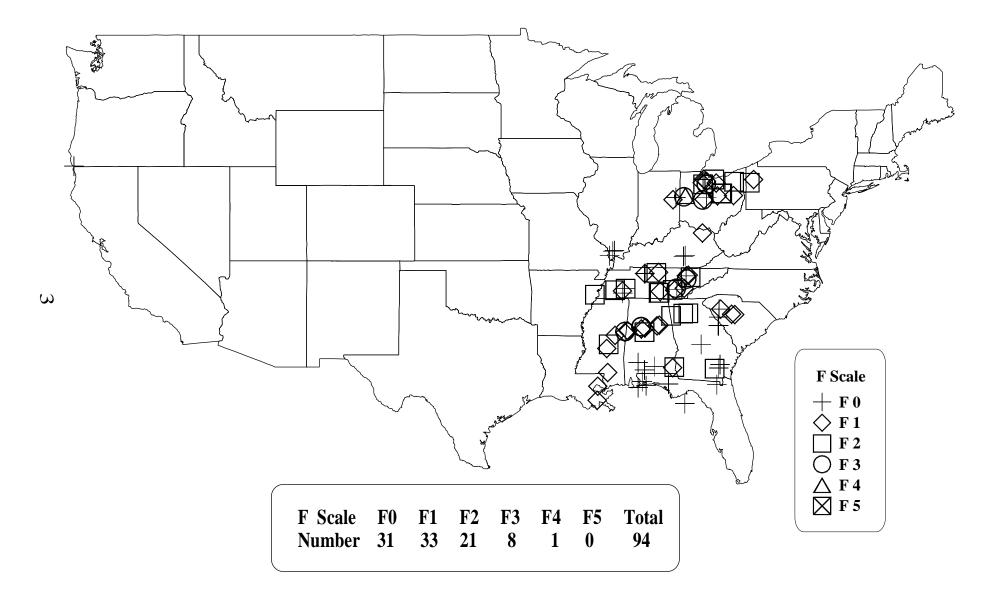
This is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center Asheville, North Carolina 28801-2733.

Thomas R

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Thomas R. Karl Director, National Climatic Data Center

# **November 2002 Confirmed Tornadoes**



## **OUTSTANDING STORMS OF THE MONTH**

### 1. Tidal Flooding in New Hampshire on November 6

A low pressure system that moved along the mid-Atlantic coast brought snow and rain to the state of New Hampshire on November 6, 2002. Around eight inches of snow fell over much of Sullivan County, and two to six inches fell across Merrimack, Belknaw, Grafton, Carroll, and Coos Counties before the precipitation changed to rain. Along the immediate coast, the precipitation fell mostly as rain. A high astronomical tide combined with northeasterly winds caused tidal flooding. The Hampton Beach area was particularly hard hit as many roads were flooded.





**Above(both)**: Tidal flooding in the Hampton Beach area caused many roadways to be water-covered. (*Photo courtesy: John Jensenius, WCM, NWS Gray, Maine.*)

### **Tornadoes in Tennessee on November 10**

Numerous tornadoes were reported on November 10 in one of the worst tornadic outbreaks ever in Tennessee in November where 15 deaths and 79 injuries occurred. Damage to houses and cars were the primary losses. Damage estimates were placed at \$160 million dollars. More than 900 families across the state applied for storm aid.



**Below:** An F3 tornado struck the Lake Tansi and the southern sections of Crossville, Tennessee at 2143 (9:43 pm) CST. Four people were killed and 18 other were injured. Two people were killed when the mobile home was lifted off the ground and landed nearly on top of a nearby mobile home. *(Photo courtesy: William Earl King, HMT, NWS Nashville, Tennessee.)* 

Above: An

F2 tornado, as defined by the Fujita Tornado Scale with wind speeds between 113 and 157 mph hit the Bedford County community of Bugscuffle at 1745 (5:45 pm) CST. Several houses were damaged and destroyed. (Photo courtesy: Ralph Troutman, DAPM, NWS Nashville, Tennessee.)



S	tori	n Data	and	Unus	ual W	'eat	her P	hen	omena		
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Perso Killed		Estima Dama Property		November 2003 Character of Storm		
ALABAMA, Central ALZ002-006-019-	Colb	ert - Madison -	Calhoun	- Tuscaloos	sa - Jeffers	on - Me	ontgomery				
023>024-044	10 1500CST 0 0 0 Excessive Heat Unseasonably warm air surged northward from the Gulf of Mexico and covered most of north and central Alabama. Record hit temperatures of 80 to 85 degrees were recorded across the entire area. As a direct result of this very warm air, a large severe weath outbreak occurred where violent tornadoes developed by early evening. Record high temperatures were measured at the followin locations;										
	Huntsy Tuscal Birmin Annist	e Shoals Municipa ville International loosa Municipal A ngham Internation ton Municipal Air tomery Dannelly F	Airport 8 irport 8 al Airport 8 port 8	32 33							
Fayette County	Pryor	temperatures mea Field Decatur 7 County Airport C	Ealera 8	ided: 33 33 33							
5.6 NNW Fayette to 2.3 WNW Howard Walker County	10	1852CST 1910CST	16.1	1175	0	3	500K	0	Tornado (F3)		
4.5 SW Carbon Hill to 8 E Nauvoo	10 M530	<b>1910CST</b> <b>1931CST</b> JU, M61MH, F621	<b>16.9</b> MH	1175	3	20	2.5M	0	Tornado (F3)		
Winston County 3.7 SE Poplar Spgs to 2.5 ESE Arley	10	1931CST 1945CST	11.3	1175	1	15	200K	0	Tornado (F3)		
	of the 129, at It ther structu county Enterin Bankh crosse This to the tra Total tornad with th hospita	H arbon Hill Tornad city of Fayette, a nd SR 13, and the a crossed the wes ures. Carbon Hill I v at SR 195. The tv ng Winston Coun ead National Ford d CR 12, finally li ornado was rated a ck was lesser inter path length for th o, three in the Ro- uree in Fayette Co als while about 60 ural damage along	nd 2.8 mil- n moved ir tern and n Elementary wo deaths ty at 7:31 set and sev fting at 7:4 an F3 on the nsity (F1 at an F3 on the nsity (F1 at an Carbon se Hill con- unty, 20 ir percent of g the path	es west of US nto Walker Co orthern section v School was a associated wit pm, the tornado veral fingers of t5 pm. ne Fujita scale, nd F2). F3 da Hill Tornado munity of Wa Walker Cour the injuries w included appro-	Highway 4 ounty just source also heavily of h this tornad do continued of Smith Lak , with winds mage occurre was 44.3 m alker County nty, and 15 in vere consider oximately 47	3. The to thwest o an Hill, o lamaged o occurre on a no e. It cro estimate ed in bot illes, wit and one Winsto ed minor in Faye	ornado moved f Carbon Hil lowning tree: . The tornade ed just south rtheast path t sseed County d to be in the h Fayette and h a width of e near Arley in n County. A r. tte County, 1	d on a ne l at 7:10 s and poo o continu of SR 19 traveling Road 41 e 150 to 2 l Walker f 1175 y in Winste bout 40	wer lines and damaging many residentia and northeast, crossing SR5, and exited the 5. across mostly sparsely populated areas o about 1.8 miles south of Arley and the 200 mph range. Much of the damage along		
Franklin County Russellville		33 45.949/87 51.0 <b>1910CST</b>		•		0	2K	0	Thunderstorm Wind (G55)		
Lauderdale County Rogersville	10	and power lines w 1925CST size hail fell in Ro		down along C	R 48 in Russ 0	ellville. 0	0	0	Hail (0.75)		

		Time Local/	Path Length	Path Width	Numl Pers		Estima Dama			November 200
ocation	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
LABAMA, Central Lamar County										
7.6 WSW Fernbank to 1.5 NNW Fernbank	10	1931CST 1942CST	7.2	150	0	2	200K	0	Tornado (F2)	
	the Al home northe	labama-Mississip was deroofed alo	pi State Lin ong with dar ging mostly	e at 7:31 pm, nage to the u trees before	downing tu pper floor o knocking o	ees in Lu f the hou ver head	axapallila Cro se and treme stones at the	eek. Whe endous tro e Ebenez	began in Mississippi. en it reached County I ee destruction. The to eer Church and flippi	Road 12, a well bu mado continued on
		ornado was rated ma portion of this		Alabama but	was rated a	ın F3 in	Mississippi.	No dea	ths and two injuries	were reported in the
Winston County	The pa	ath length was 7.	2 miles with	an estimated	width of 15	0 yards.				
Double Spgs	10 Nicke	1932CST l size hail was ob	served near	Double Sprin	0 95	0	0	0	Hail (0.88)	
Vinston County	I tieke		served neur	Double Spin	55.					
Double Spgs to Addison	10	1940CST 1950CST			0	0	0	0	Hail (0.75)	
Pickens County	Dime	size hail fell alon	ng US 278 be	etween Doubl	e Springs a	nd Addiso	on.			
2.5 NW Stafford to 2.9 NE Stafford	10	1942CST 1948CST	4.5	75	0	0	5K	0	Tornado (F1)	
	northv was 4.	vest of Stafford. 5 miles, and the	This tornado width about	, rated an F1 75 yards. No	in Alabama deaths or ir	stayed o	ver mostly ru	ural land	County from Mississ downing trees. The pa na.	
Cullman County	Beg:	33 27.623/88 17.	036 End: 3	3 28.267/88	12.269					
Crane Hill	10 Dime	1955CST size hail was rep	orted across	western Culli	<b>0</b> nan Countv	0	0	0	Hail (0.75)	
Fayette County 6 NNE Fayette to 2.7 SE Howard	10	2015CST 2034CST	14.6	1175	0	0	200K	0	Tornado (F3)	
Walker County 5.8 W Townley to	10	2034CST	24.7	1175	7	40	2.5M	0	Tornado (F3)	
13.3 NE Jasper	F39M	2103CST H, F15MH, M50	MH. M51M	H. F73MH. I	F38MH. F6	MH				
Vinston County										
6.9 SSE Arley to 7.6 SE Arley Cullman County	10	2103CST 2108CST	2.4	1175	0	5	300K	0	Tornado (F3)	
8.2 W Bremen to 1 SE Holly Pond	10	2108CST 2152CST	30.9	1175	0	8	1.3M	0	Tornado (F3)	

The tornado crossed into Walker County at 8:34 pm and traveled through sparsely populated areas of western Walker County. It crossed the interchange of US Highway 78 about 5.5 miles east-southeast of Carbon Hill, and became very strong as it traveled through the Saragossa area. It crossed State Roads 5, 195, and 257, before entering Winston County.

The tornado appeared to be at its most intense during the travel from US 78/SR 118 interchange across Saragossa and the areas near SR 5 and SR 195. Seven deaths occurred in this 10 mile stretch of the tornado track, along with an estimated 40 injuries.

At 9:03 pm the tornado crossed the extreme southeastern tip of Winston County, crossing a part of Smith Lake.

The tornado entered Cullman County at 9:08 pm, moving across portions of Smith Lake and across CR 222. Tornado intensity remained high during the first several miles after it entered Cullman County. Continuing northeast, it crossed Interstate 65 and US 31 just south of Cullman on the southside of the Cullman Golf Course.

The tornado seemed to be significantly less intense as it continued to travel northeasterly toward Holly Pond. Damage from just east

		Time Local/	Path Length	Path Width	Numb Pers	ons	Estima Dama	ge		November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
ALABAMA, Central										
		5			-				e 65. Traveling throu	0 1
		Pond at 9:52 pm,	erlines, and	d damaging so	cattered stru	ctures al	ong the way	, the tor	nado finally ended ju	ist south-southeast o
									of 1100 yards. It was estimated 45 injuries	
	on EM	0	data, struc	tures damaged	1	0	1 v		ty and not by individ Fayette County, 300 in	
		s also one of the ma since 1950.	ongest torn	adoes tracks i	in recent his	tory. At '	72.6 miles ir	ı length,	this becomes the fou	rth longest tornado i
Pickens County	Beg:	33 45.072/87 45.9	991 End: 3	4 09.775/86 3	86.403					
4.3 WSW Ethelsville to 2.3 WSW Ethelsville	10	2015CST 2018CST	2	40	0	0	0	0	Tornado (F0)	
	tornad								Ethelsville. The weak owning a few trees. T	
Lauranaa Countri	Beg:	33 24.268/88 17.4	25 End: 3	3 24.682/88 1	5.352					
Lawrence County Moulton	10	2015CST			0	0	1K	0	Thunderstorm W	(G50)
Wouldin		trees were blown	down arou	nd Moulton.	U	Ū	IIX	v	Thunderstorm v	inu (650)
Cullman County										
Vinemont	10	2017CST			0	0	0	0	Hail (0.75)	
	Dime	size hail fell near	Folsom Fie	ld.						
Franklin County	10	2025087			0	0	4K	0	Thursdonatown W	lind (C55)
Countywide Franklin County	10	2035CST			U	U	41	0	Thunderstorm W	IIIu (G55)
Red Bay	10	2035CST			0	0	0	0	Hail (0.75)	
2104 249			rted in Red	Bay. A few t	rees and po				n other parts of the co	unty.
Marshall County				-	-				*	•
4 E Union Grove	<b>10</b> A funi	2046CST nel cloud was repo	orted 4 mile	s east of Unio	0 on Grove.	0	0	0	Funnel Cloud	
Tuscaloosa County										
5 SE Moores Bridge	10	2057CST			0	0	0	0	Funnel Cloud	
	A fun	nel cloud was sigh	ited by spot	ters near the E	Brownville (	Communit	ty.			
Fayette County	10	2110087	4.3	90	0	0	45K	0	Tornada (E1)	
4.6 ESE Berry to 9 E Berry		2110CST 2115CST			Ū	-		-	Tornado (F1)	
	The to	ornado first touche	d down on	the south side	e of County	Road 46	about a mile	west of	east Fayette County b Boley Springs. The to bile home. Numerous	ornado crossed CR 40

The tornado then moved into open country where additional trees were downed. It ended around 9:15 pm about 3.9 miles east-northeast of Boley Springs. This was rated an F1 tornado, with a path length of 4.3 miles and width of 90 yards. No injuries or deaths were reported with this tornado.

		Time Local/	Path Length	Path Width	Numbe Persor		Estima Dama		November 20
ocation	Date	Standard	(Miles)	(Yards)		Injured	Property	Crops	Character of Storm
LABAMA, Central									
Valker County 3.5 SW Dora to .8 NE Dora	10	2138CST 2147CST	4.3	300	0	0	400K	0	Tornado (F1)
	Mulbe first s damag in Dor	erry Fork of the E tructural damage ge to homes as th a, before ending	Black Warrio cccurred as e tornado tra fairly abrup	or River south s the tornado s weled through thy on the nort	west of Dora reached the s the middle of heast side of	The init southwes of Dora. town at 9	tial touchdo t side of Do Fraveling no 9:47 pm.	wn was ir ora. Tree ortheast th	rnado touched down on the banks of t a an area of open fields and woods and t es were downed with a good deal of ro the tornado damaged a number of structur and any injuries were minor. This torna
	was ra	ited an F1.			·				
Marshall County	Beg:	33 42.221/87 08.	.654 End: 3	3 44.096/87 0	4.761				
5 SE Arab	10	2145CST			0	0	125K	0	Thunderstorm Wind (G65)
	Two c	hicken houses w	ere heavily o	lamaged on Fi	ry Gap Road	(CR 44).			
ekalb County	10	2145CET			0	0	217	0	There does to the d (C55)
Countywide	10 A few	2145CST trees and power	lines were h	lown down ac	U cross the cour	0 ntv	3K	0	Thunderstorm Wind (G55)
uscaloosa County	11100	frees and power	intes were a	lown down de	loss the cour	ity.			
4.7 NNE Northport to	10	2159CST 2206CST			0	0	200K	0	Thunderstorm Wind (G65)
9.5 NE Northport	The ro		f an apartme	ent complex of	n Rice Mine	Road. T	en apartmer	nts were s	subsequently damaged by heavy rain.
-	roof p hundre	oof was blown of ieces landed on ?	7 automobile Several trees	es causing ma and power li	jor damage to nes were blov	o the veh wn down	icles. A ga	s station	awning was ripped off and carried seve
lount County 1.4 SW Allgood to 6 E Oneonta	roof p hundre damag	oof was blown of ieces landed on ' ed yards away. ' ge as part of the r	7 automobile Several trees oof was torn	es causing mains and power line off and the ro	jor damage to nes were blo poms were flo	o the veh wn down ooded.	icles. A ga	s station . The Co	awning was ripped off and carried seve Illins-Riverside School sustained moder
Blount County 1.4 SW Allgood to	roof p hundre damag	bof was blown of ieces landed on ' ed yards away. ' ge as part of the r 2222CST	7 automobile Several trees oof was torn	es causing mains and power line off and the ro	jor damage to nes were blo poms were flo	o the veh wn down ooded.	icles. A ga	s station . The Co	subsequently damaged by heavy rain. T awning was ripped off and carried seve illins-Riverside School sustained moder Tornado (F1) Tornado (F1)
lount County 1.4 SW Allgood to 6 E Oneonta towah County 8.1 SW Gallant to	roof p hundre damag 10 10 The F tornad trees v southe The to were o	oof was blown of ieces landed on ' ed yards away. 'S ge as part of the r 2222CST 2231CST 2231CST 2231CST 1 rated Oneonta lo traveled across were downed an eastern sections o prnado crossed Co downed along M	7 automobile Several trees oof was torn 9.8 0.8 Tornado be s Allgood, d d then cross of Oneonta be ounty Road	and power lin off and the ro <b>300</b> gan at 10:22 owning trees ed Springville efore turning r 29, where two	jor damage to nes were blo porns were flo 0 0 pm, about 1 and doing so e Boulevard nore easterly o more structu	o the veh win down boded. 0 0 .4 miles ome dam where so ures were	ticles. A ga in the area 400K 4K southwest age to struct everal struct e damaged, a	s station . The Co 2K 1K of Allgoo tures. It t ures were	awning was ripped off and carried seve Jlins-Riverside School sustained moder Tornado (F1)
lount County 1.4 SW Allgood to 6 E Oneonta towah County 8.1 SW Gallant to	roof p hundre damag 10 10 The F tornad trees v southe The to were o ending The p	oof was blown of ieces landed on 2 ed yards away. S ge as part of the r 2222CST 2231CST 2231CST 2231CST 2232CS	7 automobile Several trees oof was torn 9.8 0.8 . Tornado be s Allgood, d d then cross of Oneonta be ounty Road ontgomery I s tornado w	es causing ma and power lin off and the ro <b>300</b> gan at 10:22 owning trees ed Springville efore turning r 29, where two Drive. The torn as 10.6 miles	jor damage to nes were blo poms were flo 0 0 pm, about 1 and doing so e Boulevard nore easterly o more structu nado continu , with a wid	o the veh win down boded. 0 0 .4 miles ome dam where so ures were ed to dow	ticles. A ga in the area 400K 4K southwest age to struct everal struct e damaged, a wn trees as put 300 yard	s station . The Co 2K 1K of Allgoo tures. It t ures wer and then o it dissipat ds. No do	awning was ripped off and carried seve awning was ripped off and carried seve awning was ripped off and carried seve <b>Tornado (F1)</b> Tornado (F1) bd just west of State Route (SR) 75. 7 raveled across Boat Landing Road wh e damaged. The tornado then clipped crossed US Highway 231. Additional tr ted just after moving into Etowah Cour eaths or injuries were reported. However
lount County 1.4 SW Allgood to 6 E Oneonta towah County 8.1 SW Gallant to	roof p hundre damag 10 10 The F tornad trees v southe The to were a ending The p Bloun	oof was blown of ieces landed on ' ed yards away. S ge as part of the r 2222CST 2231CST 2231CST 2232CST '1 rated Oneonta to traveled across were downed an eastern sections o prnado crossed C downed along M g at 10:32 pm. ath length of thi	7 automobile Several trees oof was torn 9.8 0.8 . Tornado be s Allgood, d d then cross of Oneonta be ounty Road ontgomery I s tornado we ney Manage	es causing ma and power lin off and the ro <b>300</b> gan at 10:22 owning trees ed Springville efore turning r 29, where two Drive. The torn as 10.6 miles ment did repo	jor damage to nes were blo poms were flo 0 0 pm, about 1 and doing sc e Boulevard nore easterly o more structu nado continu , with a wid rt that two co	o the veh win down boded. 0 0 .4 miles ome dam where so ures were ed to dow	ticles. A ga in the area 400K 4K southwest age to struct everal struct e damaged, a wn trees as put 300 yard	s station . The Co 2K 1K of Allgoo tures. It t ures wer and then o it dissipat ds. No do	awning was ripped off and carried sev- llins-Riverside School sustained mode <b>Tornado (F1)</b> Dod just west of State Route (SR) 75. ' rraveled across Boat Landing Road wh e damaged. The tornado then clipped crossed US Highway 231. Additional tr ted just after moving into Etowah Cour- eaths or injuries were reported. Howe:
lount County 1.4 SW Allgood to 6 E Oneonta towah County 8.1 SW Gallant to	roof p hundre damag 10 10 The F tornad trees v southe The to were a ending The p Bloun	oof was blown of ieces landed on 7 ed yards away. S ge as part of the r 2222CST 2231CST 2231CST 2232CST 71 rated Oneonta to traveled across were downed an eastern sections o ornado crossed Co downed along M g at 10:32 pm. ath length of thi t County Emerge	7 automobile Several trees oof was torn 9.8 0.8 . Tornado be s Allgood, d d then cross of Oneonta be ounty Road ontgomery I s tornado we ney Manage	es causing ma and power lin off and the ro <b>300</b> gan at 10:22 owning trees ed Springville efore turning r 29, where two Drive. The torn as 10.6 miles ment did repo	jor damage to nes were blo poms were flo 0 0 pm, about 1 and doing sc e Boulevard nore easterly o more structu nado continu , with a wid rt that two co	o the veh win down boded. 0 0 .4 miles ome dam where so ures were ed to dow	ticles. A ga in the area 400K 4K southwest age to struct everal struct e damaged, a wn trees as put 300 yard	s station . The Co 2K 1K of Allgoo tures. It t ures wer and then o it dissipat ds. No do	awning was ripped off and carried seve awning was ripped off and carried seve awning was ripped off and carried seve <b>Tornado (F1)</b> Tornado (F1) bd just west of State Route (SR) 75. 7 raveled across Boat Landing Road wh e damaged. The tornado then clipped crossed US Highway 231. Additional tr ted just after moving into Etowah Cour eaths or injuries were reported. However
lount County 1.4 SW Allgood to 6 E Oneonta towah County 8.1 SW Gallant to 7.4 SW Gallant	roof p hundre damag 10 10 The F tornad trees v southe The to were d ending The p Bloum Beg:	oof was blown of ieces landed on 7 ed yards away. S ge as part of the r 2222CST 2231CST 2231CST 2232CST 1 rated Oneonta to traveled across were downed an eastern sections o ornado crossed Co downed along M g at 10:32 pm. ath length of thi t County Emerge 33 53.764/86 31.	7 automobile Several trees oof was torn 9.8 0.8 . Tornado be s Allgood, d d then cross of Oneonta be ounty Road ontgomery I s tornado w ency Manage .771 End: 3	es causing ma and power lin off and the ro <b>300</b> gan at 10:22 owning trees ed Springville efore turning r 29, where two Drive. The torn as 10.6 miles ment did repo i3 56.588/86 2	jor damage to nes were blo boms were flo 0 0 pm, about 1 and doing sc e Boulevard nore easterly o more structu nado continu , with a wid rt that two cc 21.437	o the veh win down boded. 0 0 .4 miles ome dam where so Irres were ed to dow th of abo	ticles. A ga in the area 400K 4K southwest age to struct everal struct e damaged, a wn trees as out 300 yar- killed by fa	s station The Co 2K IK of Allgoo tures. It ures wer and then o it dissipat ds. No do lling tree	awning was ripped off and carried sevo dlins-Riverside School sustained moder <b>Tornado (F1)</b> Dod just west of State Route (SR) 75. 7 traveled across Boat Landing Road wh e damaged. The tornado then clipped crossed US Highway 231. Additional tr ted just after moving into Etowah Cour eaths or injuries were reported. Howev s.

manufacturing facility just southwest of VisionLand Theme Park. The tornado ended at this point at 10:43 pm.

This F2 tornado had a path length of 15.2 miles, 2.9 miles in Tuscaloosa County and 12.3 miles in Jefferson County. The path width was about 450 yards. Three injuries were reported in Tuscaloosa County.

Beg: 33 19.740/87 13.724 End: 33 22.873/86 58.362

		Time Local/	Path Length	Path Width	Numl Pers		Estima Dama		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ALABAMA, Central Etowah County Countywide	10	2230CST			0	0	5K	0	Thunderstorm Wind (G55)
	A few	2300CST trees and power	r lines were t	olown down a	cross the co	inty.			
St. Clair County		I				5			
3.1 WNW Steele to 1.3 N Steele	10	2241CST 2244CST	3.2	50	0	0	40K	0	Tornado (F1)
	tornad		nountain (pla						ee houses and downing several trees. The he base of the mountain before dissipating.
St. Clain County	Beg:	33 57.002/86 15	5.331 End: 3	33 57.482/86	11.950				
St. Clair County Countywide	10	2250CST 2315CST			0	0	2K	0	Thunderstorm Wind (G55)
		trees and powe ge, and two out b			across the c	ounty. O	One home suf	fered min	nor roof damage, one home had major roof
Cherokee County	· ·	-	-	·					
3.4 SE Centre to 12.3 E Centre	10	2320CST 2332CST	10.5	440	1	4	1.2M	0	Tornado (F2)
	northe home more finally The C moved The to point	eastward movem at the point who homes before m v lifting near the Cherokee County d across the county d across the county ornado was on the was 440 yards w	ent and cross ere the tornac noving over \$ eastern end of P Emergency hty. In addition the ground from ride.	ssed over Co do crossed ov Spring Creek of Weiss Lak Managemen on to the one om 1120 pm	unty Road 1 ver County F . The tornad e near Mud 6 t Agency es fatality, ther CST to appr	6 at appr oad 16.1 o turned Creek. timates the e were al	roximately 1 From this po more to the hat 88 homes lso 4 injuries	125 pm ( int, the to east-north s were ein reported.	1122 pm CST. The tornado continued its CST. One death was reported in a mobile prnado crossed County Road 31, damaging heast, damaging even more homes, before ther damaged or destroyed as this tornado the a path 10.5 miles long, and at its widest
	Beg: F72M	34 07.176/85 38 H	3.020 End: 3	34 10.010/85	27.928				
Talladega County Lincoln	11 Dime	0000CST size hail was rep	ported at the	intersection o	<b>0</b> of CR 207 an	0 d Intersta	<b>0</b> ate 20.	0	Hail (0.75)
Calhoun County Bynum	11	0010CST			0	0	0	0	Hail (1.00)
Calhoun County	-	er size hail was	observed nea	r Bynum.	0	0	0	0	
6 SE Jacksonville	11 A fun	0015CST nel cloud was ob	oserved near	the White Pla	0 uins Commu	0 nity.	0	0	Funnel Cloud
Shelby County Calera	11 Dime	0033CST size hail was ob	served by N	WS personnel	0 l at the Shelł	0 oy County	<b>0</b> y Airport. Qu	0 1arter size	Hail (1.00) e hail was reported on CR 12 at CR 24.
Calhoun County Anniston	11 Nicke	<b>0045CST</b> l size hail was re	eported in Ox	ford and in A	<b>0</b> Anniston.	0	0	0	Hail (0.88)
Talladega County Sycamore	11	0115CST size hail was rep	-		0	0	0	0	Hail (0.75)

S	tor	m Data	and	Unus	ual V	Veat	her P	hen	omena
		Time Local/	Path Length	Path Width		ber of sons	Estima Dama		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ALABAMA, Central									
Autauga County									
4.2 SW Marbury to	11	0200CST			0	0	75K	0	Thunderstorm Wind (G60)
3 S Marbury	Count	y was assessed as	being caus	ed by straigh	t line wind	s. The dat	mage area be	gins near	bury community in northeastern Autauga r the intersection of County Roads 68 and niles across US Highway 31. The damage
	area w	as about 400 yard	ls wide, at i	ts widest poin	ıt.	-			
		There were no inj							rlines were down across the entire damage e damage occurred around 2 AM Monday
Tallapoosa County		-							
Jacksons Gap	11	0245CST			0	0	3K	0	Thunderstorm Wind (G55)
Randolph County	Severa	al trees and power	lines were	blown down a	across centi	al Tallapo	osa County.	A funnel	cloud was reported near Jackson's Gap.
Roanoke	11	0256CST			0	0	0	0	Hail (0.75)
	Dime	size hail fell in Ro	oanoke.						
Elmore County					<u>^</u>	0		0	
Titus	11 One h	0315CST ome had its roof b	lown off in	Titus Sever	0 al trees wer	0 e blown d	20K	0 he counts	Thunderstorm Wind (G60)
ALABAMA, North	One in	ome nau its foor t	JOWII OIT III	Thus. Sever	ai uces wei	e biowii u	lowir across u	le county	y.
ALABAMA, Southeas Dale County 2 N Echo to 2 S Bertha	<u>st</u> 05 A torr								<b>Tornado (F1)</b> 27 in northeast Dale County. It damaged
		ll homes, an autor . Dale County wa			-				uries. Two goats were killed by the flying
Henry County			_			• •			
3 W Abbeville to 3 NE Abbeville	05	1835EST 1845EST	6	200	1	20	3M		Tornado (F2)
	U.S. H severe streets when Count	upercell thunderst Highway 431, and bly damaged nume s, with nearly 2,00	d tore throu erous other 00 residents	igh the cente homes and b without elec	r of Abbey ousinesses, tricity. Tw	ville. It d including enty peop	lestroyed sev the high sch ble were injur	eral sing 1001. Up red, with	tornado which touched down just west of gle-family homes and mobile homes, and prooted trees and power lines littered city a half of those hospitalized. A man died state disaster area. Reported by the Henry
<u>ALABAMA, Southwe</u> Clarke County	<u>st</u>								
Bashi	05	1040CST 1045CST	0.1	20	0	0	8K		Tornado (F0)
	A weathe tor	ak tornado briefly	touched dov	wn just east o	f the comm	unity near	County Roa	d 48. A 1	few trees were blown down or uprooted by
Conecuh County									
Lenox	05	1130CST 1135CST	0.1	20	0	0	8K		Tornado (F0)
	A wea	ak tornado briefly	touched dov	wn near the co	ommunity,	blowing d	own or uproc	ting seve	eral trees.
Butler County Georgiana	05	1200CST 1205CST	0.5	50	0	0	8K		Tornado (F0)
	A wea	ik tornado resulted	l in a swath	of downed tr	ees in a wo	oded area	between Geo	orgiana ai	nd Avant.
Mobile County								U	
Tillmans Corner	05	1255CST 1300CST	<b>.</b> .	_	0	0	2K		Thunderstorm Wind (G55)
	Strong	g thunderstorm wi	nds downed	d several larg	e tree limb	s in the ar	ea of Schillin	nger and	Three Notch Roads. A funnel cloud was

Strong thunderstorm winds downed several large tree limbs in the area of Schillinger and Three Notch Roads. A funnel cloud was also reported by the public in the same general area.

		Time Local/	Path Length	Path Width	Numl		Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
LABAMA, Southv	vest							
Mobile County Theodore	05	1255CST 1259CST			0	0	1K	Thunderstorm Wind (G55)
	Gusty	thunderstorm w	inds blew la	rge limbs dov	vn around th	e area.		
Baldwin County	07	1220.000			0	0	1	
Daphne	05 Strong	1330CST 1335CST	uinda damaa	ad the reaf of	0 En condo	0	15K	Thunderstorm Wind (G60)
Baldwin County	Shong	g thunderstorm v	vinus uainag		a condo.			
Barnwell	05	1340CST 1345CST	0.1	20	0	0	10K	Tornado (F0)
		ak tornado dowr owned more tree		*		rnwell co	ommunity. The same	e storm produced some minor roof damag
Choctaw County	10				0			
Gilbertown	10 T	1615CST 1616CST		:	0	0	5K	Thunderstorm Wind (G50)
Mobile County	Trees	were blown dow	vn by high w	inds from a t	nunderstorm	just wes	t of Gilbertown.	
Georgetown	15	1645CST 1646CST			0	0	5K	Thunderstorm Wind (G50)
	A few	trees were blow	n down just	north of Geo	rgetown.			
Choctaw County								
Wimberly	15	1700CST 1702CST			0	0	5K	Thunderstorm Wind (G50)
LASKA, Northern		were blown dow	vn by high w	inds from a t	nunderstorm	•		
AKZ223	-	ina And Tana	na					
	04	1253AST 1653AST	114		0	0		High Wind (G45) <sup>M</sup>
AKZ201-204	easter	clusion moving ly winds at Delta ern Arctic Co	a Junction, w	here the ASC	OS recorded	gusts to 5		r the upper Tanana Valley produced stror
AIX2201-204	05	0155AST	Jast - Last	III Deauloi	0	51 0		High Wind (G52) <sup>M</sup>
		1215AST						
AKZ213-217	increa Zone 2 Zone 2	high pressure of sing east winds 201: Point Lay A 204: Barter Islan wrence Is. Be	over the area AWOS record ad AWOS re	a. High Winds ded gusts aro corded gusts	s were report und 50 mph. to 60 mph.	ed at:	Ŭ	moved north over western Alaska, causir
	17	0535AST	0		0	0	·	High Wind (G57) <sup>M</sup>
A K7012	St L	2352AST	uina Stuai	4				
AKZ213	51 La 18	wrence Is. Bo 0415AST	ering Strai	ι	0	0		Blizzard
	10	0515AST			U	U		Diizzaru
	from condit	a low pressure	center over	the Alaska I				pressure over Russia, a disturbance move easing winds and producing local blizza
	High	213 Gambell AV wind occurred at	:			(D 4 H		
AKZ223		217 Makpik Cre <b>na And Tana</b>		Autmotated W	eather Statio	on (RAW	(S) peak gust to 55 m	pn.
AK225	19 20	1405AST 0600AST	па		0	0		Flood
	An ice Bar an compl water	e jam formed or nd just downstru- leted surrounded from the Tanar	eam of the l one home i na got quick	upper outlet in the old Bo cly diverted i	of the Piled ondox area into Piledriv	river Slo by early er Sloug	bugh. Water began a afternoon on the 19th h, overflowing and o	n from the former location of the Boondo rising overnight November 18-19 and ha 1. During the middle afternoon of the 19t covering the driveways across the sloug riveways crossing the upstream portion

		Time Local/	Path Length	Path Width	Numb Perso		Estimate Damage		Novem	ber 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	-	Crops Character of	Storm	
LASKA, Northern										
AKZ201		ern Arctic Co	oast							
	20	1257AST 1425AST			0	0		Blizzard		
	•	stationary high	*					ng north over western		
AKZ223-225>226		se to near 45 mp na And Tana					•	sulting in blizzard cor	nditions at Point L	ay.
	23	0100AST	ina Dena		0	0	King	High Wind	I (G45) <sup>M</sup>	
	A low	0453AST	moving no	th in the wee	tern Gulf of	Alaska k	rought increase	ing south winds to th	a Alaska Danga	and near
		-	-				-	ne peak gust was 52	•	
		6 were estimate	ed to be gust	ing to 50 mpł	n due to the p	pressure g	gradient over t	he region; winds at H	lealy did not gust	beyond
	mph.									
		1		1 2				inds and blowing snov	w increased over f	far weste
AKZ213		, resulting in bl wrence Is. B			ii oli St. Law	rence isi	and.			
	23	1815AST	0		0	0		Blizzard		
	24 A 977	0155AST mb low moved	from southy	est Alaska to	St. Lawrence	e Island o	luring the nigh	t of the 23rd, bringing	g increasing winds	s and snc
	to zone	e 213 resulting	in blizzard co	onditions at G	ambell. Wind	l gusts re	0 0	at the Gambell AWO		
AKZ222-224	Midd 26	le Tanana Va 0542AST	alley - Upr	Tanana Vl	y Fortymil	e 0		Ice Storm		
	20 27	1853AST			U	U		ice Storin		
AKZ223-225>226		na And Tana	na - Dena	i - Ne. Slop			Rng		NOTO M	
	26	0600AST 1953AST			0	0		High Wind	I (G51) M	
	provide	ed brief freezin	g rain and th	en rain to the	Middle Tana	ına Valle	y and Yukon I	inds briefly to areas Flats. As the system n n the 26th and into th	noved north over	the midd
									6	
	estimat		essure gradie	ent over zones	s 225 and 22			gusts to 50 mph, wl ccurred again at Delt	hile winds of 52	mph we
A K 7 203	estimat the 26t Althou mornin schools occurre the 26t	ted from the pr h, with peak gu gh the Freezing ng across Fairb s were closed t ed the evening h through the n	essure gradie sts at the AS g Rain and the anks North hat day acro of the 26th. norning of the	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received	s 225 and 220 h. unted to only such that so iks North Sta	5. High v 0.03 of a shool bus ar Borou	winds briefly o an inch in the I ses had extrem gh. In zone 22	gusts to 50 mph, wi	hile winds of 52 a Junction in the , it occurred at a ing their routes. of an inch of Free	mph we evening time in t All pub ezing Ra
AKZ203	estimat the 26t Althou mornir schools occurre the 26t	ted from the pr h, with peak gu gh the Freezing a across Fairb s were closed t ed the evening	essure gradie sts at the AS g Rain and the anks North hat day acro of the 26th. norning of the	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received	s 225 and 220 h. unted to only such that so iks North Sta	5. High v 0.03 of a shool bus ar Borou	winds briefly o an inch in the I ses had extrem gh. In zone 22	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11	hile winds of 52 a Junction in the , it occurred at a ing their routes. of an inch of Free	mph we evening time in t All pub ezing Ra
AKZ203	estimat the 26t Althou mornin schools occurre the 26t <b>Centr</b> 29	ted from the pr h, with peak gu gh the Freezing ng across Fairb s were closed t ed the evening h through the n ral Beaufort \$ 1452AST 1550AST	essure gradie asts at the AS g Rain and the anks North hat day acro of the 26th. horning of the Sea Coast	ent over zones SOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th.	s 225 and 220 h. unted to only such that sc uks North Sta d 0.62 inches 0	5. High v 0.03 of a bhool bus ar Borou a of rain, 0	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre Blizzard	hile winds of 52 a Junction in the y, it occurred at a ing their routes. of an inch of Free pezing during the	mph we evening time in t All pub ezing Ra
	estimat the 26t Althou mornin schools occurre the 26t <b>Centr</b> 29 A stron	ted from the pr h, with peak gu gh the Freezing ng across Fairb s were closed t ed the evening h through the n <b>cal Beaufort S</b> 1452AST 1550AST ng warm front r	essure gradie asts at the AS g Rain and the anks North hat day acro of the 26th. horning of the Sea Coast	ent over zones SOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th.	s 225 and 220 h. unted to only such that sc uks North Sta d 0.62 inches 0	5. High v 0.03 of a bhool bus ar Borou a of rain, 0	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre	hile winds of 52 a Junction in the y, it occurred at a ing their routes. of an inch of Free pezing during the	mph we evening time in t All pub ezing Ra
	estimat the 26t Althou mornin schools occurre the 26t <b>Centr</b> 29 A stron	ted from the pr h, with peak gu gh the Freezing g across Fairb s were closed t ed the evening h through the n <b>al Beaufort</b> S <b>1452AST</b> <b>1550AST</b> ng warm front r <b>na And Tana</b> <b>0711AST</b>	essure gradie asts at the AS g Rain and the anks North hat day acro of the 26th. horning of the Sea Coast	ent over zones SOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th.	s 225 and 220 h. unted to only such that sc uks North Sta d 0.62 inches 0	5. High v 0.03 of a bhool bus ar Borou a of rain, 0	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre Blizzard	hile winds of 52 a Junction in the y, it occurred at a ing their routes. of an inch of Free bezing during the ns to Kuparuk.	mph we evening time in t All pub ezing Ra
	estimal the 26t Althou mornir school: occurra the 26t <b>Centr</b> 29 A stron <b>Deltan</b> 30	ted from the pr h, with peak gu gh the Freezing g across Fairb s were closed t ed the evening h through the n <b>ral Beaufort</b> <b>1452AST</b> <b>1550AST</b> ng warm front r <b>na And Tana</b> <b>0711AST</b> <b>0859AST</b>	essure gradie sts at the AS g Rain and th anks North hat day acro of the 26th. norning of th Sea Coast noving north ma	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th. over the Broo	s 225 and 220 h. unted to only such that sc uks North Sta d 0.62 inches <b>0</b> oks Range an <b>0</b>	5. High v 0.03 of a chool bus of rain, o d North a 0	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature Slope brough b	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley ne problems completi 4 at Northway, 0.11 es remained above fre <b>Blizzard</b> orief blizzard conditio <b>High Wind</b>	hile winds of 52 a Junction in the 7, it occurred at a ing their routes. of an inch of Free bezing during the ns to Kuparuk.	mph we evening time in t All pub ezing Ra evening
	estimal the 26t Althou mornir school: occurra the 26t <b>Centr</b> 29 A stror <b>Deltan</b> 30 A smal	ted from the pr h, with peak gu gg across Fairb s were closed t ed the evening h through the n ral Beaufort S 1452AST 1550AST ng warm front r na And Tana 0711AST 0859AST Il low pressure	essure gradie ists at the AS g Rain and the anks North hat day acro of the 26th. horning of the Sea Coast noving north ma center forme	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th. over the Broo d north of De	s 225 and 220 h. unted to only such that so uks North Sta d 0.62 inches <b>0</b> oks Range an <b>0</b> dta Junction	<ul> <li>6. High v</li> <li>0.03 of a</li> <li>chool bus</li> <li>ar Borou,</li> <li>of rain,</li> <li>o</li> <li>d North a</li> <li>o</li> <li>while a r</li> </ul>	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature Slope brough b	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre <b>Blizzard</b> orief blizzard conditio	hile winds of 52 a Junction in the $\frac{1}{2}$ , it occurred at a ing their routes. of an inch of Free pezing during the $\frac{1}{2}$ ns to Kuparuk. <b>I (G43)</b> M south over the Co	mph we evening time in t All pub ezing Ra evening
AKZ223 ALASKA, Southeast	estimat the 26t Althou mornir school: occurra the 26t <b>Centr</b> 29 A stror <b>Deltan</b> 30 A smal Basin.	ted from the pr h, with peak gu gg across Fairb s were closed t ed the evening h through the n ral Beaufort S 1452AST 1550AST ng warm front r na And Tana 0711AST 0859AST Il low pressure This created h	essure gradie ists at the AS g Rain and the anks North hat day acro of the 26th. horning of the Sea Coast noving north ma center formed igh winds at	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th. over the Broo d north of De the Delta Juno	3 225 and 220 h. Inited to only such that so iks North Sta d 0.62 inches 0 oks Range an 0 lta Junction 5 ction ASOS,	<ul> <li>6. High v</li> <li>0.03 of a</li> <li>chool bus</li> <li>ar Borou,</li> <li>of rain,</li> <li>o</li> <li>d North a</li> <li>o</li> <li>while a r</li> </ul>	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature Slope brough b	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley ne problems completi 4 at Northway, 0.11 es remained above fre <b>Blizzard</b> orief blizzard conditio <b>High Wind</b> ressure existed to the	hile winds of 52 a Junction in the $\frac{1}{2}$ , it occurred at a ing their routes. of an inch of Free pezing during the $\frac{1}{2}$ ns to Kuparuk. <b>I (G43)</b> M south over the Co	mph we evening time in t All pub ezing Ra evening
AKZ223 ALASKA, Southeast	estimal the 26t Althou mornir school: occurra the 26t <b>Centr</b> 29 A stror <b>Delta</b> 30 A smal Basin. <b>Cape</b>	ted from the pr h, with peak gu gg across Fairb s were closed t ed the evening h through the n ral Beaufort S 1452AST 1550AST ng warm front r na And Tana 0711AST 0859AST Il low pressure This created h	essure gradie ists at the AS g Rain and the anks North hat day acro of the 26th. horning of the Sea Coast noving north ma center formed igh winds at	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th. over the Broo d north of De the Delta Juno	s 225 and 220 h. unted to only such that sc iks North Sta d 0.62 inches <b>0</b> oks Range an <b>0</b> dta Junction v ction ASOS, <b>astal Area</b>	<ul> <li>6. High v</li> <li>0.03 of a</li> <li>chool bus</li> <li>ar Borou,</li> <li>a of rain,</li> <li>a</li> <li>b</li> <li>a</li> <li>a</li> <li>b</li> <li>a</li> <li>a</li> <li>b</li> <li>a</li> <li>a</li> <li>b</li> <li>a</li> <li>a</li> <li>b</li> <li>b</li> <li>a</li> <li>c</li> <lic< li=""></lic<></ul>	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature Slope brough b	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre <b>Blizzard</b> orief blizzard conditio <b>High Wind</b> ressure existed to the 50 mph from the sout	hile winds of 52 a Junction in the $\frac{1}{2}$ , it occurred at a ing their routes. of an inch of Free eezing during the $\frac{1}{2}$ ns to Kuparuk. <b>I (G43)</b> M south over the Co h.	mph we evening time in t All pub ezing Ra evening
AKZ223 LASKA, Southeast	estimal the 26t Althou mornir school: occurre the 26t <b>Centr</b> 29 A stror <b>Delta:</b> 30 A smal Basin. <b>Cape</b> 05	ted from the pr h, with peak gu gh the Freezing g across Fairb s were closed t ed the evening h through the n ral Beaufort S 1452AST 1550AST ng warm front r na And Tanaa 0711AST 0859AST Il low pressure This created h Decision To 1553AST 2100AST	essure gradie ists at the AS g Rain and the anks North hat day acro of the 26th. norning of the Sea Coast noving north na center formed igh winds at Cape Fair	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th. over the Broo d north of De the Delta Jund weather-Co	s 225 and 220 h. unted to only such that sc iks North Sta d 0.62 inches 0 oks Range an 0 lta Junction 9 ction ASOS, <b>astal Area</b> 0	5. High v 0.03 of a hool bus r Borou, of rain, 0 d North a 0 while a r which re	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature Slope brough b slope brough b	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre <b>Blizzard</b> orief blizzard conditio <b>High Wind</b> ressure existed to the 50 mph from the sout <b>High Wind</b>	hile winds of 52 a Junction in the 7, it occurred at a ing their routes. of an inch of Free eezing during the ns to Kuparuk. <b>I (G43)</b> <sup>M</sup> south over the Co th.	mph we evening time in t All pub ezing Ra evening
AKZ223 ALASKA, Southeast	estimat the 26t Althou mornir school: occurre the 26t <b>Centr</b> 29 A stror <b>Deltar</b> 30 A smai Basin. <b>Cape</b> 05 High v remote	ted from the pr h, with peak gu gh the Freezing g across Fairb s were closed t ed the evening h through the n ral Beaufort \$ 1452AST 1550AST ng warm front r na And Tanaa 0711AST 0859AST Il low pressure This created h Decision To 1553AST 2100AST vinds resulted f	essure gradie ists at the AS g Rain and the anks North hat day acro of the 26th. norning of the Sea Coast noving north ma center formed igh winds at Cape Fair	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th. over the Broo d north of De the Delta Jund weather-Co	s 225 and 220 h. unted to only such that sc uks North Sta d 0.62 inches 0 oks Range an 0 lta Junction 9 ction ASOS, pastal Area 0 ng the Northe	5. High v 0.03 of a hool bus r Borou, of rain, 0 d North a 0 while a r which re 0 east Gulf	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature Slope brough b idge of high pr ported gust to Coast from Ca	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre <b>Blizzard</b> orief blizzard conditio <b>High Wind</b> ressure existed to the 50 mph from the sout	hile winds of 52 a Junction in the 7, it occurred at a ing their routes. of an inch of Free eezing during the ns to Kuparuk. I (G43) <sup>M</sup> south over the Co th. I (G52) <sup>M</sup> Manby. Several	mph we evening time in t All pub ezing Ra evening pper Riv
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AKZ203 AKZ223 <u>ALASKA, Southeast</u> AKZ023 AKZ027>028	estimat the 26t Althou mornir school: occurre the 26t <b>Centr</b> 29 A stror <b>Deltar</b> 30 A smai Basin. <b>Cape</b> 05 High v remote stretch	ted from the pr h, with peak gu gh the Freezing g across Fairb s were closed t ed the evening h through the n ral Beaufort 1 1452AST 1550AST ng warm front r na And Tana 0711AST 0859AST Il low pressure This created h Decision To 1553AST 2100AST vinds resulted f s sensors detect of coastline. tern Southeas 080AST	essure gradie ists at the AS g Rain and the anks North hat day acro- of the 26th. norning of the Sea Coast noving north ma center formed igh winds at Cape Fair rom a southed ed peak winds	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th. over the Broo d north of De the Delta Jund weather-Co erly swell alor d gusts to 52	s 225 and 220 h. inted to only such that sc iks North Sta d 0.62 inches 0 oks Range an 0 oks Range an 0 ottion ASOS, pastal Area 0 ng the Northek knots (60 mg	5. High v 0.03 of a hool bus r Borou, of rain, 0 d North 0 while a r which re 0 east Gulf sh). No	winds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature Slope brough b idge of high pr ported gust to Coast from Ca damage nor in	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre <b>Blizzard</b> orief blizzard conditio <b>High Wind</b> ressure existed to the 50 mph from the sout <b>High Wind</b> ape Suckling to Point juries were reported a	hile winds of 52 a Junction in the 7, it occurred at a ing their routes. of an inch of Free eezing during the ns to Kuparuk. <b>I (G43)</b> <sup>M</sup> south over the Co th. <b>I (G52)</b> <sup>M</sup> Manby. Several along this largely <b>e Decision-Coa</b>	mph we evening time in t All pub ezing Ra evening pper Riv automat unihabit
AKZ223 <u>ALASKA, Southeast</u> AKZ023	estimat the 26t Althou mornir schools occurre the 26t <b>Centr</b> 29 A stror <b>Deltan</b> 30 A smail Basin. <b>Cape</b> 05 High v remote stretch <b>South</b> 13	ted from the pr h, with peak gu gh the Freezing or a cross Fairb s were closed t ed the evening h through the n <b>ral Beaufort S</b> <b>1452AST</b> <b>1550AST</b> ng warm front r <b>na And Tanaa</b> <b>0711AST</b> <b>0859AST</b> Il low pressure This created h <b>Decision To</b> <b>1553AST</b> <b>2100AST</b> vinds resulted f e sensors detect of coastline. <b>nern Southea:</b> <b>0800AST</b> <b>1200AST</b>	essure gradie ists at the AS g Rain and the anks North hat day acro- of the 26th. norning of the Sea Coast noving north na center formed igh winds at Cape Fair rom a southed ed peak winds st Alaska I	ent over zones GOS of 59 mpl en Rain amou Star Borough ss the Fairbar Eagle received e 27th. over the Broo d north of De the Delta Jund weather-Co erly swell alor d gusts to 52 Ernest Soun	s 225 and 220 h. inted to only such that so isks North Sta d 0.62 inches 0 oks Range an 0 lta Junction v ction ASOS, astal Area 0 ng the Northe knots (60 mp 0 d To Dixon 0	5. High v 0.03 of a hool bus r Borou, of rain, 0 d North a 0 while a r which re 0 east Gulf bh). No n Entra 0	vinds briefly o an inch in the I ses had extrem gh. In zone 22 as temperature Slope brough t idge of high pr ported gust to Coast from Ca damage nor in nce - Dixon 2K	gusts to 50 mph, wh ccurred again at Delt Middle Tanana Valley he problems completi 4 at Northway, 0.11 es remained above fre <b>Blizzard</b> orief blizzard conditio <b>High Wind</b> ressure existed to the 50 mph from the sout <b>High Wind</b> ape Suckling to Point juries were reported a <b>Entrance To Cape</b>	hile winds of 52 a Junction in the standard sector $G_{A}$ and $G$	mph we evening time in t All pub ezing Ra evening pper Riv automat unihabit

		Time Local/	Path Length	Path Width		ber of sons	Estin Dan			November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
ALASKA, Southeast										
AKZ024		hern Lynn Ca	anal		0	0				М
	26 27	2204AST 0120AST			0	0			High Wind (G53)	
	event	developed in the	e town of Sk	agway as a re	-	-			rn Lynn Canal Region easured at the Skagwa	-
ALASKA, Southern	damag	ge nor injuries w	ere reported							
AKZ181-185	Alasl	ka Peninsula	- Eastern A	Aleutians						
	03	0915AST			0	0	0		High Wind (G61)	М
	04 An in	0430AST	ire system m	noved northea	st from the	eastern N	orth Pacific	over the	Alaska Peninsula. Th	e low intensified an
		-	•						vest as the Dutch Harb	
AKZ161-171		ol Bay - Kodi	ak Penins	ula						
	03 04	1400AST 0145AST			0	0			High Wind (G62)	М
			ed into the A	Alaska Penins	sula with a	strong pro	essure gradi	ent from	Kodiak to Bristol Ba	y. Pre-Frontal wind
	•		mph on the	southern half	of Kodiak	Island lat	e Sunday a	fternoon a	and in the Western B	ristol Bay area early
AKZ101-125		iy morning. Iorage Muni '	Fo Bird Cı	reek - Wrn	P.W. Snd	& Kena	i Mtns			
	04	1230AST	10 211 4 01		0	0	0		High Wind (G85)	М
	06	0100AST		1 4			(1 D ) ("	đ		1
		-	•						Alaska Peninsula. Th Prince William Sound	
			• •	-					the area. East to south	• •
	*	were reported th	rough much	of the Northe	ast Kenai m	ountains	area from e	arly morni	ing to the evening hou	rs on the 5th. At th
		, .	.1 .1 1					•		
AKZ171			n the Alyesk					•	the evening of the 5tl	
AKZ171		mountain site in ak Peninsula 1400AST	n the Alyesk					•		1.
AKZ171	Kodi 05	ak Peninsula 1400AST 1700AST	·	a resort winds	s peaked (at 0	the 3400 t 0	ft level) at 1 1M	07 mph ir	h the evening of the 5th High Wind (G70)	1.
AKZ171	Kodi 05 A stre	ak Peninsula 1400AST 1700AST engthening low p	pressure syst	a resort winds em in the sou	s peaked (at <b>0</b> athern Gulf o	the 3400 t <b>0</b> of Alaska	ft level) at 1 <b>1M</b> tracked furt	07 mph ir her south	the evening of the 5th High Wind (G70) and west of numerica	n. I progs and ended u
AKZ171	Kodi 05 A stre movir	ak Peninsula 1400AST 1700AST engthening low p ng to south of Ke	pressure syst odiak Island,	a resort winds em in the sou , strengthening	s peaked (at 0 thern Gulf o g further, by	the 3400 t 0 of Alaska 7 mid day	ft level) at 1 1M tracked furt on the 5th.	07 mph ir her south Winds ch	h the evening of the 5th High Wind (G70)	1. I progs and ended u nountains reached th
AKZ171	Kodi 05 A stre movin far we 40 to	ak Peninsula 1400AST 1700AST engthening low p ng to south of K estern parts of K 50 mph with gu	pressure syst odiak Island, odiak Island ists to 70 mp	a resort winds em in the sou , strengthening particularly oh. Many peo	thern Gulf of g further, by the Larsen I ople reported	the 3400 f 0 of Alaska mid day Bay area l that just	ft level) at 1 1M tracked furt on the 5th. suddenly, ji standing up	07 mph ir her south Winds ch ust at the o in the wi	the evening of the 5th High Wind (G70) and west of numerica anneled through the n time of high tide. Win ind was difficult. One	<ol> <li>progs and ended un nountains reached the ads were estimated at or old timer" said the</li> </ol>
AKZ171	Kodi 05 A stre movin far we 40 to easter	ak Peninsula 1400AST 1700AST engthening low p ing to south of Ke estern parts of K 50 mph with gu lies were the wo	pressure syst odiak Island, odiak Island ists to 70 mp orst he'd ever	a resort winds em in the sou strengthening particularly bh. Many peo seen. The tio	s peaked (at 0 thern Gulf o g further, by the Larsen I ople reported dal surge, ov	the 3400 f 0 of Alaska 7 mid day Bay area- 1 that just ver a very	tracked furt on the 5th. suddenly, ji standing up short stretc	07 mph ir her south Winds ch ust at the winds o in the winds h of bay, w	the evening of the 5th High Wind (G70) and west of numerica banneled through the n time of high tide. Win ind was difficult. One was 1 to 2 feet on top	<ol> <li>progs and ended un nountains reached the ads were estimated at or old timer" said the of the high tide. The</li> </ol>
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Middleton Island producing moisture across the arctic front which was located near Kachemak Bay during the event. Snowfall at Homer airport was light, with only an inch or two of new snow reported.

		Time Local/	Path Length	Path Width	Number Person		Estimated Damage		November 200
Location	Date	Standard	(Miles)	(Yards)	Killed Ir	njured	Property Crops	Character of Storm	
ALASKA, Southern									
AKZ191		ern Aleutians	1		0	0			2) M
	15	0710AST 1245AST			0	0		High Wind (G5)	2)
									ere observed along th
AKZ101-125-135					-		e southwest Bering Mtns - Sern P.V		
	22	0235AST			0	0	50K	High Wind (G9	б) <sup>М</sup>
	24 Strong	0205AST	ents set un	by a 973 los	v that develop	ed in th	ne eastern Pacific a	nd a significant high	over northern Britis
	Colum	bia produced st	rong easterly	winds aroun	d Turnagain Â	rm and	along the upper And		low, located just sout
	Winds	gusted at or ab	ove 60 mph	from Friday n	norning through	h very e	early Sunday.		
	RWIS causin some	site. Gusts as g downed powe lying across ca	high as 66 n r lines. Pov urs and hon	nph were reco ver was repor- nes. Additio	orded at Site Su tedly out to 200 nally, gusts of	ummit. 00 peop f 55 m	Trees were blown d ble. In Girdwood, se	own in Girdwood, H everal folks awoke to near the National G	AcHugh Creek, also a ope and Tyonek, som a mess of felled tree: uard building on For
	the old reporte	d Portage railro	oad station, at the Whit	63 mph at W tier tunnel en	Whittier and 1 trance, forcing	11 mph mainte	at the summit of enance workers to h	Max's Mountain (32	d gusting to 74 mph a 200'). Windows wer center. Water, drive
AKZ191	Saturd	s zone 135, peal ay. Cordova ai: <b>ern Aleutians</b>	rport winds j	-			•	William Sound Scie	ence Center at 5:03 pr
	22	1010AST 1428AST			0	0		High Wind (G54	4) <sup>M</sup>
		ng, 968 mb low					y Thursday, produce 10 am AST and noo		nds across the extrem
AKZ121	Kena	i Peninsula	-	-	-				
	23 25	1000AST 1000AST			0	0	100K	Flood	
	Heavy Acces	rains again bro	cut off for	at least sever	al hours. Storr				feet on November 23 ne greater Homer area
		the October fl was destroyed				chor Ri	ver had changed, re	ndering stage level a	ction points uncertain
	northy		h to the brid						High water eroded th feedback was receive
AKZ125	23	P.W. Snd & 1 1200AST	Kenai Mtr	IS	0	0	5K	Flood	
	near b	ankfull around	noon Noven				-	-	Glacier Creek rose t Salmon Creek, but n
AKZ101-125		s of damage wei orage Muni [		reek - Wrn	P.W. Snd &	Kenai	Mtns		
	25 27	0700AST 0600AST			0	0		High Wind (G72	2) <sup>M</sup>
	Tight	pressure gradie						extremely large low A frontal low which	in the Gulf of Alask moved toward Kodia

Around zone 101, easterly wind gusts reached 76 mph at Glen Alps around noon Tuesday, and southeast 83 mph at the McHugh Creek Road Weather Information System at 6:05 am Tuesday. Several trees fell during the event. One of the local t.v. weather-casters reported that a large spruce tree snapped off in his yard.

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated November 2002 Local/ Width Length Persons Damage Property Crops Location Date Standard (Miles) (Yards) Killed Injured Character of Storm ALASKA, Southern Across zone 125 around Turnagain Arm, easterly winds locally gusted into the 60+ mph range. Strongest winds reported were around Bird Point. Winds in the Portage Valley were less significant. AKZ101-125-135 Anchorage Muni To Bird Creek - Wrn P.W. Snd & Kenai Mtns - Sern P.W. Snd 28 2226AST High Wind (G71) M 0 Δ 30 0100AST A strong front, associated with an intense 954 mb low 200 miles southwest of Kodiak, was preceded by strong east and southeast winds along portions of the Upper Anchorage Hillside, through Turnagain Arm, in portions of Prince William Sound and out of the Eyak Lake gap in Cordova. Gusts reached 82 mph at the Prince William Sound Science Center (zone135) very late Friday, after reaching 80+ mph much earlier in the day. Gusts at the Site Summit Forest Service site (zone 101) above Alpenglow peaked at 62 mph at 1 am Friday. Gusts were primarily confined to very high elevations, peaking at only 43 mph at the Glen Alps site at 9 am Friday. In western Turnagain Arm, gusts of 61 mph were reported at the McHugh Creek mesonet site at 4:05 am Friday. In zone 125, gusts peaked at 60 mph at the Portage ASOS near the visitor center. **AKZ111** Matanuska Valley 29 0130AST 0 0 High Wind (G53) M 0230AST A Matanuska wind event began Saturday evening, continuing through the next day. Winds developed when pressure gradients built up between inland high pressure and a strong 954 mb low southwest of Kodiak Island. Winds of 60+ mph, however, were very short-lived in the area. AKZ101-125 Anchorage Muni To Bird Creek - Wrn P.W. Snd & Kenai Mtns 1400AST High Wind (G55) M 29 30 0235AST A vigorous low that was southwest of Kodiak Island on Friday moved northeast into Cook Inlet by the morning of the 30th. By late in the day Saturday, the low dissipated near Kenai. Across zone 125, gusts reached 63 mph briefly at Whittier at 7:50 pm Friday. Gusts remained below 60 mph at the Portage ASOS, however, during the event. Across zone 101, gusts as high as 63 mph were recorded at McHugh Creek at 1:35 am Saturday. Glen Alps also reported strong winds, gusting to 62 mph between 1 and 2 am Saturday. AMERICAN SAMOA Tutuila 1000SST 0 Countywide 15 A **Urban/Sml Stream Fld** 1300SST Heavy showers dumped more than 3 inches of rainfall in less than 3 hours causing overrun of streams and overflow ditches creating widespread flooding of low lying areas and streets. Some land and mud slides were reported with debris decorating much of the island. Very little damage was reported except for usual clean-up. ARIZONA, Central and Northeast AZZ015 Western Mogollon Rim 15 0517MST A 0 High Wind (G45) Strong winds blew a 18 by 25 foot sheet metal building onto the roof of a hotel. There was damage to the hotel, to materials inside of the metal building, and to nearby power lines. Local power outages were also reported. **ARIZONA**, Northwest NONE REPORTED. **ARIZONA**, South NONE REPORTED. **ARIZONA**, Southwest NONE REPORTED. ARKANSAS, Central and North Central **Drew County** 2 S Cominto 10 1713CST 0 0 Thunderstorm Wind (G50)

Thunderstorm winds knocked down some large tree limbs.

	Stor	m Data	a and	Unus	ual V	Veat	ther <b>I</b>	Phen	omena
		Time Local/	Path Length	Path Width	Pe	nber of rsons	Estim Dam	age	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ARKANSAS, Cent	ral and N	North Centr	al						
Drew County									
.5 W Collins	10 Some	1716CST large tree limbs	s were blown	down.	0	0			Thunderstorm Wind (G50)
Drew County		C							
1.7 S Collins	10	1716CST			0	0			Thunderstorm Wind (G50)
	Sever	al large tree lim	bs were blow	'n down.					
Drew County									
3.3 NNE Collins	10	1719CST			0	0			Thunderstorm Wind (G50)
	Some	large trees were	e knocked do	wn.					
Drew County	10	1525.0075			0	0			
5 NNE Baxter	10 Theorem	1725CST	1		0	0	·1		Thunderstorm Wind (G50)
Desha County	Inunc	lerstorm winds	downed a rev	w trees and a	number of I	arge tree I	imbs.		
Mc Gehee	10	1730CST			0	0			Hail (1.75)
Desha County	10	1750C51			U	U			Hall (1.75)
Mc Gehee	10	1730CST			0	0			Thunderstorm Wind (G50)
Wie Genee		al large trees we	ere blown dov	wn.	U	Ū			Thuhueistorin (Vinu (650)
Desha County									
3 E Mc Gehee	10	1733CST			0	0			Hail (1.75)
ARKANSAS, East									
Cross County									
1 W Vanndale	09	2050CST 2055CST			0	0	0.10K		Hail (1.00)
Cross County									

1 SW Twist to 1 S Twist



A chicken house was destroyed near the town of Twist, Arkansas by a tornado on November 9th. The tornado touched down just southwest of Twist and moved northeast and later moved into Crittenden County. Some farm buildings were damaged. Several trees and power poles were blown down.

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Croj	ps Character of Storm
ARKANSAS, East								
Crittenden County								
7 NW Earle to 1 NE Meneshea	09	2123CST 2150CST	17.6	440	0	0	600K	Tornado (F2)
1 I LE Weneshea	11	2150001	*	7	1000		4	
			The second se					1000
			1000					~
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				100	1			- Alexandre -
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		Time	Path Longth	Path Width	Numb		Estimate			November 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property	e Crops	Character of Storm	
ATLANTIC OCEAN										
	crossec	the river short	ly after.							
Cp Charles Lt Va To										
Nc-Va Bdr Out 20Nm Cape Charles Light to	11	1400EST			0	0			Marine Tstm Wi	nd
Nc-Va Border	11	14001.51			U	U				nu
	Wind g	gust of 40 knots	measured a	t CHLV2.						
De Bay Waters N Of E Pt Nj To Slaughter Beach De										
10 NE Bowers Beach De	30	1554EST			0	0		0	Marine Tstm Wi	nd
	A line	of showers pro	duced strong	g wind gusts	in Delaware	Bay. Shi	p John Shoal I	Lighthous	e measured a wind	l gust to 43 knots (4
	mph).									
Sandy Hook To Manasquan Inlet Nj Out 20Nm										
Sandy Hook Bay	<b>30</b> A line Hook.	1605EST of showers pro	duced strong	g wind gusts a	0 llong the Nev	0 v Jersey s	shore. A peak v	0 wind gust	Marine Tstm Wi of 37 knots (43 mj	nd ph) occurred in Sand
De Bay Waters S Of E Pt Nj To Slaughter Baagh Da	1100K.									
Beach De North Cape May	30	1636EST			0	0		0	Marine Tstm Wi	nd
Norm Cape May	A line		n strong win	d gusts move	-		ay. The peak v			erry Terminal was a
Cp Henlopen To Fenwick Is De Out 20Nm										
19 E Fenwick Island	<b>30</b> A line	1720EST of showers with	n strong win	d quete move	0	0		0	Marine Tstm Wi	
				iu gusis movi	d through the	e coastal	waters of Dela	ware. At	the Delaware Bay	Buoy, the peak win
	gust wa	as 43 knots (49		iu gusts move	d through the	e coastal	waters of Dela	aware. At	the Delaware Bay	Buoy, the peak win
CALIFORNIA, Extre	gust wa	as 43 knots (49		la gusts move	d through the	e coastal	waters of Dela	ware. At	the Delaware Bay	Buoy, the peak win
CALIFORNIA, Extre	gust wa ne Sou	as 43 knots (49 utheast		di gusts move	d through the	e coastal	waters of Dela	iware. At	the Delaware Bay	Buoy, the peak win
	gust wa <b>ne Sou</b> NONE	as 43 knots (49 u <b>theast</b> REPORTED.			d through the	e coastal	waters of Dela	iware. At	the Delaware Bay	Buoy, the peak win
	gust wa <b>ne Sou</b> NONE	as 43 knots (49 u <b>theast</b> REPORTED.			d through the	e coastal	waters of Dela	nware. At	the Delaware Bay	Buoy, the peak wir
	gust wa ne Sou NONE Centr	as 43 knots (49 u <b>theast</b> REPORTED.			a through th	e coastal	waters of Dela	iware. At	the Delaware Bay	Buoy, the peak wir
CALIFORNIA, North	gust wa me Sou NONE <u>Centr</u> NONE	as 43 knots (49 utheast REPORTED. <u>al</u>			d through the	e coastal	waters of Dela	iware. At	the Delaware Bay	Buoy, the peak wir
CALIFORNIA, North CALIFORNIA, North	gust wa ne Sou NONE Centr NONE east Lasse	as 43 knots (49 11theast 2 REPORTED. 2 REPORTED. 1 REPORTED. 1 n/Eastern Ph	mph).	-				iware. At		
CALIFORNIA, North CALIFORNIA, North	gust wa me Sou NONE <u>Centr</u> NONE <u>east</u>	as 43 knots (49 <u>utheast</u> REPORTED. <u>cal</u> REPORTED. n/Eastern Ph 0200PST	mph).	-	d through the	e coastal	waters of Dela 150K	iware. At	the Delaware Bay High Wind (G70)	
CALIFORNIA, North CALIFORNIA, North	gust wa ne Sou NONE Centr NONE east Lasse 07	as 43 knots (49 utheast REPORTED. cal REPORTED. n/Eastern Ph 0200PST 0400PST	mph). umas/East	ern Sierra	0	0	150K		High Wind (G70)	)
CALIFORNIA, North CALIFORNIA, North CAZ071	gust wa me Sou NONE Centr NONE east Lasse 07 A storr side of combin	as 43 knots (49 <b>utheast</b> REPORTED. <b>cal</b> REPORTED. <b>n/Eastern Phr</b> <b>0200PST</b> <b>0400PST</b> n spotter report Sierra Valley i ne. Falling tree	mph). umas/East ed scattered n eastern Sie limbs damag	ern Sierra property dar erra County, 6	0 nage from str CA. In additi	0 ong wind on to nur	<b>150K</b> Is estimated at nerous downed	over 80 n d trees, tw	<b>High Wind</b> ( <b>G70</b> ) nph. Most damage	
ALIFORNIA, North ALIFORNIA, North CAZ071	gust wa me Sou NONE Centr NONE east Lasse 07 A storr side of combir Great	as 43 knots (49 <b>utheast</b> REPORTED. <b>cal</b> REPORTED. <b>n/Eastern Plu</b> <b>0200PST</b> <b>0400PST</b> n spotter report Sierra Valley i ne. Falling tree <b>cer Lake Tah</b>	mph). umas/East ed scattered n eastern Sie limbs damag	ern Sierra property dar erra County, 6	0 nage from str CA. In additi arked vehicle	0 ong wind on to nur s and bui	<b>150K</b> Is estimated at nerous downed Idings in the to	over 80 n d trees, tw	High Wind (G70) nph. Most damage o barns were destru- ierraville and Clio.	) occurred on the we oyed, one damaging
ALIFORNIA, North ALIFORNIA, North CAZ071	gust wa me Sou NONE Centr NONE east Lasse 07 A storr side of combin	as 43 knots (49 <b>utheast</b> REPORTED. <b>cal</b> REPORTED. <b>n/Eastern Pla</b> <b>0200PST</b> <b>0400PST</b> n spotter report Sierra Valley i ne. Falling tree <b>cer Lake Tah</b> <b>0215PST</b>	mph). umas/East ed scattered n eastern Sie limbs damag	ern Sierra property dar erra County, 6	0 nage from str CA. In additi	0 ong wind on to nur	<b>150K</b> Is estimated at nerous downed	over 80 n d trees, tw	High Wind (G70) nph. Most damage o barns were destru-	) occurred on the we oyed, one damaging
CALIFORNIA, North CALIFORNIA, North CAZ071	gust wa me Sou NONE Centr NONE east Lasse 07 A storr side of combir Great 07	as 43 knots (49 <b>utheast</b> REPORTED. <b>ral</b> REPORTED. <b>n/Eastern Ph</b> <b>0200PST</b> <b>0400PST</b> n spotter report Sierra Valley i ne. Falling tree <b>ter Lake Tah</b> <b>0215PST</b> <b>0315PST</b> gusts estimated	mph). umas/East ed scattered n eastern Sie limbs damag oe Area at over 80 n e limbs dam	ern Sierra property dar erra County, ( ged several p nph blew dow aged four oth	0 nage from str CA. In additi arked vehicle 0 vn trees in th ter homes and	0 ong wind on to nur s and bur 0 e South I d downed	150K Is estimated at nerous downed Idings in the to 300K Lake Tahoe, Ca several power	over 80 n d trees, tw owns of Si A area. F	High Wind (G70) nph. Most damage to barns were destri ierraville and Clio. High Wind (G70) alling trees severel	) occurred on the we oyed, one damaging
<u>CALIFORNIA, Extrer</u> <u>CALIFORNIA, North</u> <u>CALIFORNIA, North</u> CAZ071 CAZ072 Sierra County	gust wa me Sou NONE Centr NONE east Lasse 07 A storr side of combir Great 07	as 43 knots (49 <b>utheast</b> REPORTED. <b>ral</b> REPORTED. <b>n/Eastern Ph</b> <b>0200PST</b> <b>0400PST</b> n spotter report Sierra Valley i ne. Falling tree <b>ter Lake Tah</b> <b>0215PST</b> <b>0315PST</b> gusts estimated o vehicles. Tree	mph). umas/East ed scattered n eastern Sie limbs damag oe Area at over 80 n e limbs dam	ern Sierra property dar erra County, ( ged several p nph blew dow aged four oth	0 nage from str CA. In additi arked vehicle 0 vn trees in th ter homes and	0 ong wind on to nur s and bur 0 e South I d downed	150K Is estimated at nerous downed Idings in the to 300K Lake Tahoe, Ca several power	over 80 n d trees, tw owns of Si A area. F	High Wind (G70) nph. Most damage to barns were destri ierraville and Clio. High Wind (G70) alling trees severel	) occurred on the we oyed, one damaging ) y damaged one hon
<u>CALIFORNIA, North</u> CALIFORNIA, North CAZ071 CAZ072	gust wa me Sou NONE Centr NONE east Lasse 07 A storr side of combir Great 07	as 43 knots (49 <b>utheast</b> REPORTED. <b>ral</b> REPORTED. <b>n/Eastern Ph</b> <b>0200PST</b> <b>0400PST</b> n spotter report Sierra Valley i ne. Falling tree <b>ter Lake Tah</b> <b>0215PST</b> <b>0315PST</b> gusts estimated o vehicles. Tree	mph). umas/East ed scattered n eastern Sie limbs damag oe Area at over 80 n e limbs dam	ern Sierra property dar erra County, ( ged several p nph blew dow aged four oth	0 nage from str CA. In additi arked vehicle 0 vn trees in th ter homes and	0 ong wind on to nur s and bur 0 e South I d downed	150K Is estimated at nerous downed Idings in the to 300K Lake Tahoe, Ca several power	over 80 n d trees, tw owns of Si A area. F	High Wind (G70) nph. Most damage to barns were destri ierraville and Clio. High Wind (G70) alling trees severel	) occurred on the we oyed, one damaging ) y damaged one hor
CALIFORNIA, North CALIFORNIA, North CAZ071 CAZ072 Sierra County Sattley	gust wa me Sou NONE Centr NONE east Lasse 07 A storr side of combir Great 07 Wind § and tw. electric 07 10	as 43 knots (49 <b>utheast</b> REPORTED. <b>cal</b> REPORTED. <b>n/Eastern Ph</b> <b>0200PST</b> <b>0400PST</b> n spotter report Sierra Valley i he. Falling tree <b>ter Lake Tah</b> <b>0215PST</b> gusts estimated o vehicles. Tree c lines caused tw <b>0600PST</b> <b>1200PST</b>	mph). umas/East ed scattered n eastern Sie limbs damay oe Area at over 80 n e limbs dam vo brush fire	property dar property dar rra County, ( ged several p nph blew dov iaged four oth ess, the largest	0 nage from str CA. In additi arked vehicle 0 vn trees in the ter homes and of which sco 0	0 ong wind on to nu s and bui 0 e South I 1 downed rched 30 0	150K Is estimated at nerous downee Idings in the to <b>300K</b> Lake Tahoe, C. Is several power acres.	over 80 n d trees, tw wns of Si A area. F r lines, cau	High Wind (G70) nph. Most damage to barns were destri- ierraville and Clio. High Wind (G70) alling trees severel using scattered pow	) occurred on the we oyed, one damaging ) y damaged one hor ver outages. Sparki
<u>CALIFORNIA, North</u> <u>CALIFORNIA, North</u> CAZ071 CAZ072 Sierra County	gust wa me Sou NONE Centr NONE east Lasse 07 A storr side of combir Great 07 Wind § and tw. electric 07 10	as 43 knots (49 <b>utheast</b> REPORTED. <b>cal</b> REPORTED. <b>n/Eastern Ph</b> <b>0200PST</b> <b>0400PST</b> n spotter report Sierra Valley i he. Falling tree <b>ter Lake Tah</b> <b>0215PST</b> gusts estimated o vehicles. Tree c lines caused tw <b>0600PST</b> <b>1200PST</b>	mph). umas/East ed scattered n eastern Sie limbs damay oe Area at over 80 n e limbs dam vo brush fire	property dar property dar rra County, ( ged several p nph blew dov iaged four oth ess, the largest	0 nage from str CA. In additi arked vehicle 0 vn trees in the ter homes and of which sco 0	0 ong wind on to nu s and bui 0 e South I 1 downed rched 30 0	150K Is estimated at nerous downee Idings in the to <b>300K</b> Lake Tahoe, C. Is several power acres.	over 80 n d trees, tw wns of Si A area. F r lines, cau xon on No	High Wind (G70) nph. Most damage to barns were destr- ierraville and Clio. High Wind (G70) falling trees severel using scattered pow Heavy Rain	) occurred on the we oyed, one damaging ) y damaged one hor ver outages. Sparkin

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
CALIFORNIA, No	rtheast								
Plumas County									
Countywide	07 08	0900PST 0900PST			0	0		Heavy Rain	
			orts of heavy	rain overnig	ht with totals	of over 2	2 inches common. No	o flooding reported.	
Lassen County		i i i i i i i i i i i i i i i i i i i	· · · · · · · · · · · · · · · · · · ·	0				8 1	
Countywide	07	0900PST			0	0		Heavy Rain	
	08	0900PST		,	II.	. 1 . 6 9		AT (1 1	
Nevada County	Nume	erous spotter rep	orts of heavy	rain overnig	nt. Rainfall t	otal of 2	to 3 inches were com	mon. No flooding re	ported.
Hobart Mills	07	1200PST			0	0		Heavy Rain	
	08	1200PST			-	-			
	Spotte	er report of 24 he	our rainfall to	otal of 2.70 in	ches.				
Placer County		1500000			0	0		и в.	
Homewood	07 08	1500PST 0830PST			0	0		Heavy Rain	
		er reported rainfa	all total of 3	inches.					
Lassen County	~								
Doyle	07	1800PST			0	0		Heavy Rain	
	08	0730PST							
Plumas County	Spotte	er reported overr	hight rainfall	total of 1.62	inches.				
Graeagle	07	1800PST			0	0		Heavy Rain	
Gracagic	08	0745PST			U	U		incavy Kall	
	Spotte	er reported overr	night rainfall	total of 3.25	inches.				
Mono County									
Countywide	07 08	1800PST 1200PST			0	0		Heavy Rain	
			heavy rain fr	om snotters	24 hour am	ounts fro	m 1-2 inches were co	mmon The greatest	amount reported was
		4.5 inches in Ma			24 nour un	ounts no	III I 2 menes were et	minon. The greatest	amount reported wa
CAZ072		ter Lake Tah							
	08	0000PST			0	0		High Wind (G10	0) <sup>м</sup>
		0100PST		1 0' 0					
CAZ072				the Sierra Cr	est measured	wind gu	sts in excess of 120 n	iph.	
CAL012	08	iter Lake Tah 0000PST	oe Area		0	0		High Wind (G50	) М
	00	0200PST			U	U		Ingn Wind (050	)
	Nume	erous wind gusts	in excess of	60 mph repo	rted by autor	nated we	ather stations.		
CAZ072	Grea	iter Lake Tah	oe Area						
	08	0000PST			0	0	50K	High Wind (G70	)
	Strong	0600PST	the north sh	ore of Lake	Tahoe cause	d numer	ous power outages di	e to falling nine tree	es and limbs downing
		0					owned power lines als	01	
CAZ072		ter Lake Tah		1		5	I		
	08	0000PST			0	0	100K	High Wind (G70	)
	<b>G</b> .	0600PST					5 I I		
							also suffered minor ro		telephone poles were
CAZ072		iter Lake Tah	0 0	s with power	lines. Seven	u nomes	also suffered fillior fo	of damage.	
0111072	08	0000PST	ou mu		0	0	50K	High Wind (G70	)
		0600PST						8	, ,
					ge building a	t the U.C	C. Berkeley Sagehen C	Creek Field Station al	oout 10 miles north of
CAZ072		ee, CA. The ou ter Lake Tah	U	s destroyed.					
CAL072	08	0000PST	oe Area		0	0	50K	High Wind (G60	)
	00	0600PST			v	U	JUIX	ingn wind (G00	,
	Strong		3 foot diame	eter pine tree	onto a garag	e in the	Tahoe Donner area ju	ist north of Truckee,	CA. The garage was
	destro	-		-			5		
CAZ073	Mon								
	08	0115PST			0	0		High Wind (G65	)
		0120PST							

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		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
CALIFORNIA, Nor	theast								
CAZ072		ter Lake Tah	oe Area						
	08	1800PST			0	0		Heavy Snow	
	10	0600PST							
	•		nes through t	his period. S	ki resorts in	the area r	eported 2 to 4 feet of	of new snow above the	7000 foot elevation.
CAZ073	Mone								
	08	1800PST			0	0		Heavy Snow	
	10	0700PST		CM C		. ,.		1 140	
		oot elevation.	e mountains	of Mono Col	inty during ti	nis time.	Mammoth Mountai	n ski area reported 4 fe	eet of new snow at th
CAZ072		ter Lake Tah	00 1 200						
CALU12	08	2330PST	UC AICA		0	0	50K	High Wind (G70	)
			arge fir tree	into a home i	-			northwest shore of Lak	
		nd a bedroom w				unity of C	numbukken on the	northwest shore of Ear	e runde. The nome
CAZ072		ter Lake Tah	-						
	09	1200PST			0	0		Heavy Snow	
	10	1200PST							
	CALT	RANS reported	18 inches of	f snow in 24 l	nours at Echo	o Summit	on U.S. Highway 5	0 near Lake Tahoe.	
CAZ071	Lasse	en/Eastern Pl	umas/East	ern Sierra					
	09	1700PST			0	0		Heavy Snow	
	10	0500PST							
		RANS reported		f new snow in	n 12 hours at	Yuba Pa	ss.		
CAZ072		ter Lake Tah	oe Area						
	09	2245PST			0	0		Heavy Snow	
	10	1045PST	1		. 1 10 .				
							e south shore of La	rs at the 6200 foot ele	vation. CALIRAN
CALIFORNIA, Nor		eu a sinniar ann	Junt, 9 mene	s in 12 nours,	III Meyers, v	CA, on ui	e south shore of La	ke Talloe.	
CAZ001>002		vood Coast - 1	Mondooine	Coost					
CAL0012002			vienciocini						
				Coust	0	0			<u>`</u>
	07	1700PST		Coust	0	0		High Wind (G53	)
	07	1700PST 2300PST					ng the coast Two t	0	
	<b>07</b> High v	1700PST 2300PST winds blew num					ng the coast. Two t	High Wind (G53 rees landed on a house	
CAZ001	<b>07</b> High v minor	1700PST 2300PST winds blew num damage.					ng the coast. Two t	0	
CAZ001	07 High y minor <b>Redy</b>	1700PST 2300PST winds blew num damage. wood Coast				down alo	ng the coast. Two t	rees landed on a house	
CAZ001	07 High w minor Redw 07	1700PST 2300PST winds blew num damage. vood Coast 1935PST	erous trees,	branches and	power lines	down alor 0	-	0	
CAZ001	07 High w minor Redw 07	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe	erous trees,	branches and	power lines	down alor 0	ng the coast. Two t ch with his parents.	rees landed on a house	
CAZ001 CAZ001-003>004	07 High v minor Redw 07 A you M4OU	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe	erous trees, bet to sea by t	branches and large surf whi	power lines 1 le walking o	down alor 0 n the bead	ch with his parents.	rees landed on a house	
	07 High v minor Redw 07 A you M4OU	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J	erous trees, been by to sea by t	branches and large surf whi	power lines 1 le walking o	down alor 0 n the bead	ch with his parents.	rees landed on a house	
	07 High y minor Redw 07 A you M4OU Redw	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - 2	erous trees, been by to sea by t	branches and large surf whi	power lines 1 le walking o - <b>Upper Tr</b>	down alor 0 n the bead <b>inity Ri</b>	ch with his parents.	rees landed on a house	
CAZ001-003>004	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - I 1700PST 1000PST pread visibility	erous trees,   ept to sea by ] North Coa	branches and large surf whi st Interior	power lines 1 le walking o • Upper Tr 0	0 0 n the beac inity Ri 0	ch with his parents.	rees landed on a house	
CAZ001-003>004	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - I 1700PST 1000PST pread visibility	erous trees,   ept to sea by ] North Coa	branches and large surf whi st Interior	power lines 1 le walking o • Upper Tr 0	0 0 n the beac inity Ri 0	ch with his parents.	rees landed on a house	
CAZ001-003>004	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides th Centr	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - I 1700PST 1000PST pread visibility	erous trees, ppt to sea by <b>North Coa</b> of 1/8 mile c	branches and large surf whi st Interior or less along t	power lines 1 le walking o • Upper Tr 0	0 0 n the beac inity Ri 0	ch with his parents.	rees landed on a house	
CAZ001-003>004 CALIFORNIA, Sou	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides th Centr	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - 1 1700PST 1000PST ppread visibility ral	erous trees, ppt to sea by <b>North Coa</b> of 1/8 mile c	branches and large surf whi st Interior or less along t	power lines 1 le walking o • Upper Tr 0	0 0 n the beac inity Ri 0	ch with his parents.	rees landed on a house	
CAZ001-003>004 CALIFORNIA, Sou CAZ096>097	07 High winnor Redw 07 A you M4OU Redw 21 22 Wides th Centr S Sie	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - J 1700PST 1000PST pread visibility ral rra Mtns - Ta	erous trees, ppt to sea by <b>North Coa</b> of 1/8 mile c	branches and large surf whi st Interior or less along t	1 le walking o • <b>Upper Tr</b> 0 he coast and	down alo 0 n the beau inity Ri 0	ch with his parents.	rees landed on a house High Surf Fog	
CAZ001-003>004 <u>CALIFORNIA, Sou</u> CAZ096>097 Fresno County	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides th Centr S Sier 07 09	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - 1 1700PST 1000PST 1000PST pread visibility ral rra Mtns - Tr 0600PST 1600PST	erous trees, ppt to sea by <b>North Coa</b> of 1/8 mile c	branches and large surf whi st Interior or less along t	power lines of 1 le walking o • Upper Tr 0 he coast and 0	down alor 0 n the bear inity Ri 0 in valleys 0	ch with his parents.	rees landed on a house High Surf Fog Winter Storm	in Fort Bragg causin
CAZ001-003>004 <u>CALIFORNIA, Sou</u> CAZ096>097	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides th Centr S Sier 07 09 08	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - 1 1700PST 1000PST 1000PST pread visibility ral rra Mtns - Tr 0600PST 1600PST	erous trees, ppt to sea by <b>North Coa</b> of 1/8 mile c	branches and large surf whi st Interior or less along t	1 le walking o • <b>Upper Tr</b> 0 he coast and	down alo 0 n the beau inity Ri 0	ch with his parents.	rees landed on a house High Surf Fog	in Fort Bragg causin
CAZ001-003>004 <u>CALIFORNIA, Sou</u> CAZ096>097 Fresno County Fresno	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides th Centr S Sier 07 09	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - 1 1700PST 1000PST 1000PST pread visibility ral rra Mtns - Tr 0600PST 1600PST	erous trees, ppt to sea by <b>North Coa</b> of 1/8 mile c	branches and large surf whi st Interior or less along t	power lines of 1 le walking o • Upper Tr 0 he coast and 0	down alor 0 n the bear inity Ri 0 in valleys 0	ch with his parents.	rees landed on a house High Surf Fog Winter Storm	in Fort Bragg causin
CAZ001-003>004 <u>CALIFORNIA, Sou</u> CAZ096>097 Fresno County Fresno Kern County	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides th Centr 09 08 09	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - 1 1700PST 1000PST 1000PST 1600PST 1600PST 1600PST	erous trees, ppt to sea by <b>North Coa</b> of 1/8 mile c	branches and large surf whi st Interior or less along t	power lines 1 le walking o • Upper Tr 0 he coast and 0 0	down alor 0 n the bear inity Ri 0 in valleys 0 0	ch with his parents. <b>ver</b> s.	rees landed on a house High Surf Fog Winter Storm Urban/Sml Strea	in Fort Bragg causin
CAZ001-003>004 <u>CALIFORNIA, Sou</u> CAZ096>097 Fresno County Fresno	07 High w minor Redw 07 A you M4OU Redw 21 22 Wides th Centr S Sier 07 09 08	1700PST 2300PST winds blew num damage. vood Coast 1935PST ng boy was swe J vood Coast - 1 1700PST 1000PST 1000PST pread visibility ral rra Mtns - Tr 0600PST 1600PST	erous trees, ppt to sea by <b>North Coa</b> of 1/8 mile c	branches and large surf whi st Interior or less along t	power lines of 1 le walking o • Upper Tr 0 he coast and 0	down alor 0 n the bear inity Ri 0 in valleys 0	ch with his parents.	rees landed on a house High Surf Fog Winter Storm	in Fort Bragg causin

After a relatively beingn active weather month in October, November 2002 also started slow for Interior Central California. However, the first major trough off from the East Pacific combined with tropical moisture from Hurricane Huko at southern latitudes brought copious amounts of rain (snow levels at or above 9,000 feet Mean Sea Level) and gusty wind at higher elevations from the 7th until early on the 9th. What was unusual for this area was the change from the normal summer/fall dry conditions to the wet season in such dramatic fashion with little in the way of transition. During the period in the Southern Sierra Nevada 46" of new snow fell at Volcanic Knob and Upper Burnt Corral; and in the Tulare County Mountains 80" fell at Chagoopa Plateau. Numerous foothill locations received 5-10" of rain within the 3-day period in the foothills of the Southern Sierra Nevada. Johnsondale, in Tulare County received 16.38" of rain in the 3-day period. On the San Joaquin Valley floor Merced received 1.80" in 3 days, Fresso 1.76"; Hanford 1.44"; and, Bakersfield 1.29." Rainfall amounts for the 8th was 0.23" ... new record 0.98". There were 23 pole fires caused by wind and arcing reported by Southern California Edison utility and ultimately affected 102,000 residents in the Central and Southern S.J.

	Stor	m Data	a and	Unus	ual W	eat	her Phen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Person Killed I		Estimated Damage Property Crops	Character of Storm	November 2002
CALIFORNIA, Sou	uth Cent	ral							
CAZ095-098>099	Valley Kern 07	Cty Mtns - I 1800PST	Indian Wel	ls Vly - Se	Kern Cty De	esert 0		Wind	
C 4 7080- 000 003	7th. Moun AM o	Numerous loca tains poles were n the 8th. In the	tions reporte e downed in Kern Desert	d gusty wind the Weldon a , Indian Wells	l with damage and Onyx area s Canyon and I	e reporte east of Laural N	ed to powerlines due Lake Isabella and an Mountain reported with	e to arcing and felle round Mt.Mesa and S	ntral California on the d trees. In the Kern Southlake around 3:30 PH at both locations.
CAZ089>090-093	07 08	entral S.J. Va 2103PST 0400PST			0	0		Wind	<b>W</b> III - 11 - 11
~	neighl	boring foothills	of the Southe	ern Sierra Nev	vada.				n Valley and into the
CAZ093>097	S Sie 08 09	rra Foothills 1000PST 1800PST	- Tulare C	ty Foothills	s - Kern Cty 0	Mtns 0	- S Sierra Mtns - 200K	Tulare Cty Mtns Flood	
	7th to floodi Dispa road t Kern foothi Highv on the was sj mudsl CFS c	the 9th along ng problemser tch reported wa hat leads from . County (Glenny Ills; and, with r vay and Mineral e morning of the pread across ma lide problems w	with the 16 specially in a shouts on Pa Johnsondale ville received numerous root I King were of 9 9th. Due to uny mountair ere noted all the 8th. The	38" at Johns ind around the irker Pass Ro southward to I 6" of rain); ck/mudslides, closed. Sequo e erosion prob i roads in the ong Highway e lake storage	sondale. Despit e Tulare Count bad and the Ro Kernville in K rock/mudslide and road eros bia National Pa blems with the area as well a 178 in Kern (	the the v y Mound ad belo Cern Co s occurn sion pro- rk had t McNall s contri County.	rery dry antecedent of ntains. Snow levels w w Durwood Resort i unty. Flooding also of red on Highway 168 oblems, the Tulare O to evacuate folks from y Fire in Southeast T buting to a fish kill i Peak flow into Lake	conditions, this amou ere relatively high, a n Southeast Tulare ( occurred along Highy and Highway 180 i County foothill roady n a flooded trailer pa ulare and Northeast n the Kern River. A b Isabella from the K	3-day period from the ant of rainfall lead to t 9000 feet MSL. Park County, as well as the vay 178 near Kelso in n the S.Sierra Nevada ways of the General's rk near Ash Mountain Kern Counties, debris dditional flooding and tern River was 26,500 sed in elevation 5 feet
CAZ095-098>099	Kern 08	Cty Mtns - I 1555PST	Indian Wel	ls Vly - Se	Kern Cty De 0	esert 0		Wind	
	<b>09</b> In con Moun spikes Mojav	<b>2100PST</b> njunction with thattains and Deserves of 74 and 91 N	rts. Wind wa IPH at Indian gain were ger	as often report	rted with 40+1 on at 1613 PST	MPH gu T and 17	usts at several different of the several difference of the several dif	ent automated report afternoon of the 9th d	buffet the Kern County ting sites. There were luring the event. In the tt the Inyokern Airport
CAZ089>092	W C 14	entral S.J. Va 0000PST		entral S.J. V	Valley - Sw S 0	5.J. Va 0	lley - Se S.J. Valle 1.4M	ey Fog	
CAZ096>098	reside betwe throug San Jo due to 3-mile occurr 99 res North	d over Interior en the 10th and gh the morning o oaquin Valley ro the dense fog v e stretch of High red in the dense	Central Cali 1 13th, and r of the 21st. N oadwaysesp with at least 3 hway 99 just fog. Also on es and damag t Tulare Cou	fornia. This maintained its Numerous veh pecially durin 32 injuries. Sp north of the 1 the 20th, a se ge. On the mo nties that resu	weather regim elf through the nicle accidents ig the week sta pecifically on t Merced-Mader eries of 8 accid orning of the 2 alted in indirec	e, quite e end of occurre rting th he 20th a Count ents occ 22nd, th t injurie	conducive to dense f the month. The fog d due to the extremel e 18th. During this , 50 trucks and cars v ty Lineand in Tular curred just north of th ere were several sep	morning fog forma was especially wid y poor visibilities or week there were 4 ir vere involved in mul e County a couple of e Madera-Fresno Co	ressure aloft built and tion, established itself espread from the 14th Central and Southern direct traffic fatalities ti-vehicle pile-ups in a f multi-vehicle pileups unty Line on Highway o locally dense fog in
	25 26	0900PST 1600PST			0	0		Wind	
	A clos over t Count were o Lake. Peak.	sed low off the s the upper elevat ty Desert. In the downed along H Likewise in the	tions of the see S.Sierra, policy for the second se	Southern Sier ower outages down to El Po unty Mountai wind speeds o	rra Nevada and were reported ortal. Wind spe ins, speed in th of 40-50 MPH	d Tulare in Yos eeds rea ie range	e County Mountains, emite Valley as wind ched 40-50 MPH cor e of 40-50 MPH were	and the Indian Well as downed power lin sistently with a gust e common with a gu	ty northeast wind flow ls Valley in the Kern es and trees and trees to 61 MPH and Ellery st to 62 MPH at Bear l an isolated gust to 79

St	torr	n Data	a and	Unus	ual W	'eat	her Phen	omena
		Time Local/	Path	Path Width	Numbe Perso		Estimated Damage	November 2002
Location	Date	Standard	Length (Miles)	(Yards)		ns Injured	Property Crops	Character of Storm
CALIFORNIA, South	Centr	al						
CAZ092		I. Valley						
	26	0715PST			0	0		Fog
	While	1000PST fog was patchy	within the C	entral and So	uthern San Io	aquin V	alley on the morning	of the 26th, widespread dense fog did form
		sibilities as lov						of the 20th, whicespread dense log and form
Madera County					-			
10 E North Fork	27 29	1200PST			0	0	22K	Wildfire
		1200PST use of the Rocl	k Creek fire i	s unknown bu	t it burned 42	0 acres	before containment by	V Sierra NF crews
CALIFORNIA, South				s unino an ou		io deres		
CAZ026		s Valley						
	07	1800PST			0	0		Heavy Snow
	08 A stror	1400PST	n brought he	www.enow.to.th	e couthern Si	orro Ne	arly a foot of snow we	as reported above 8500 feet.
CAZ026		s Valley	ii biougiit nea	avy show to u	le soumern Si	ena. Inc	arry a root of show wa	is reported above 8500 reet.
0111020	10	1500PST			0	0		High Wind (G62) <sup>M</sup>
		1740PST						-
		erful Pacific s ed winds of 40		t strong wind	s to the Sier	a. A lo	cal spotter in Aspend	ell recorded a wind gust of 71 mph with
CALIFORNIA, South		ed winds of 40	0 to 50 mpn.					
CAZ042		ge County C	oastal Plai	n				
	03	0742PST			0	0		Fog
	Dense	fog with visibi	lity less than	1/16 mile was	s observed fro	m Lagu	na Beach to Seal Beac	h along Pacific Coast Highway 1.
Orange County	07	2250DC/T			1	•		
Huntington Beach	07 08	2359PST 1000PST			1	0		Rip Currents
	M76IW							
San Bernardino								
County					<u>^</u>	0		
Wrightwood to Forest Falls	08 09	0100PST 2200PST			0	0		Heavy Rain
CAZ048-055-060>061			County Val	llev/The Inl	and Empir	e - Sai	n Bernardino Cou	nty Mountains - Apple And Yucca
		ys - Coachell	-					
	08	0234PST	•		0	0	550K	High Wind (G81) <sup>M</sup>
C	09	2334PST						
San Diego County Palomar Mtn to	08	0400PST			0	0		Hoovy Dain
7 E Rancho Bernardo	09	2300PST			U	U		Heavy Rain
Orange County								
8 E Yorba Linda to	08	0700PST			0	0		Heavy Rain
18 NE San Juan Capistrano	09	2200PST						
Riverside County								
8 N Pine Cove to	08	0700PST			0	0		Heavy Rain
Anza	09	2200PST						
Orange County	00	0000000			0	•	15017	
10 NE San Juan Capistra 18 NE San Juan	08 09	0900PST 2001PST			0	0	150K	Urban/Sml Stream Fld
Capistrano	07	20011.01						
CAZ060		e And Yucca	Valleys					
	08	1036PST			0	0		Dust Storm
San Bernardino		2253PST						
County								
Wrightwood to	08	1200PST			0	3	200K	Urban/Sml Stream Fld
Forest Falls	10	1630PST						
San Diego County	00	1200000			٥	2		Dia Commente
La Jolla to Ocean Beach	08 09	1200PST 1700PST			0	2		Rip Currents
Jeen Douch			Front of the r	• • • • • • • • • • • • •			Collifornia	Steady rain fall over a two day period. The

The first strong cold front of the winter season moved slowly across Southwest California. Steady rain fell over a two day period. The

	Stori	m Dat	a and	Unus	ual W	'eat	her Phe	nomena
		Time	Path	Path	Numbe		Estimated	November 20
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso: Killed	ns Injured	Damage Property Crop	s Character of Storm
CALIFORNIA, Sou	thwast							
ALIFORMA, Sou		est amounts we	ere in the mou	intains and ra	inged from ove	er 10 in	ches in the San Be	rnardino Mountains to around 4 inches in
	San D runoff Ana M Heavy	Diego Mountair f coming down Mountains. Str y surf, ranging	ns. Three men n from the mo ong winds ov between 10 an	n, living in a fountains. Num yer the mount and 15 feet, created the transformed to the t	flood control c nerous rock sli tains and dese eated strong rij	channel des wer erts caus	in San Bernardino e reported along ro ed downed power	suffered hypothermia after being trapped bads traversing the San Bernardino and Sa lines and some damage to roofs and sig
CAZ049	River 11	rside County 0321PST 0800PST	y Valley/The	e Inland En	npire 0	0		Fog
		lity less than 1			March ARB.			
CAZ042	Oran 14	ige County ( 0530PST	Coastal Plai	n	0	0		Fog
	Visibi	lity 100 feet in	Fountain Val	ley.				5
Orange County	• •							
Yorba Linda	20 22	1930PST 1600PST			0	2		Wild/Forest Fire
		egetation and rs suffered from				sh fire t	o grow to 477 act	res. No structures were threatened. Two
CAZ042-048	Oran		Coastal Plai	n - San Ber	mardino Co	unty V	alley/The Inlan	-
	25	0851PST 1630PST			0	0	900K	High Wind (G53) <sup>M</sup>
CAZ049	River	rside County	y Valley/Th	e Inland Er	npire			
	25	1016PST 1648PST			0	6		Dust Storm
CAZ042-048>050	Lagun Huntii <b>Oran</b>	na Beach, cars ngton Beach, a nge County cy/The Inlan 0200PST	and roofs we nd La Brea. Coastal Pl	re damaged lain - San	by falling tree Bernardine	es. Pow	er outages due to	Corona, and Victorville. In San Clemente a he wind also occurred in Tustin, Santa A Inland Empire - Riverside Cour High Wind (G70) <sup>M</sup>
<b>Riverside County</b>		1615PST						
Norco	26	0410PST			0	1	30K	Wild/Forest Fire
0		1400PST						
Orange County 5 E Mission Viejo	26	1034PST			0	0		Wild/Forest Fire
5 E Mission viejo	20	1115PST			U	U		What brest i ne
G1 70 40 070	houses Norco Cucan	s were damage o, where three nonga.	ed. Winds gus roofs of nea	sting between arby homes c	a 30 and 40 m caught fire. Th	ph fann hree tra	ed a 3 acre fire in ctor trailers were	San Clemente, and Lakeside. Several cars a Coto de Caza and a 7.5 acre brush fire n blown over between Riverside and Rand
CAZ049>050	Rivei 27	rside County 0630PST 1123PST	y Valley/Th	e Inland Er	npire - San 1 0	Diego 0	County Valleys 350K	High Wind (G52)
G D' Cont	Trees	and signs were	e blown down	in Escondido	o, Poway, El C	ajon, He	emet, and San Jacir	nto.
San Diego County Lakeside to	29	1555PST			0	0		Urban/Sml Stream Fld
El Cajon		1612PST			U	Ū		
San Diego County Alpine	29	1610PST			0	0		Hail (1.00)
	A thur	1621PST nderstorm prod	luced large ha	il in Alpine	and very heav	v rain w	ith street flooding	n La Mesa, El Cajon, and Lakeside.
	1 x 11101					, w	sacer nooung	moss, Er oujon, und Europuo.
San Diego County								
San Diego County Lakeside to La Mesa	29	1613PST 1622PST			0	0		Urban/Sml Stream Fld
Lakeside to	29 29				0	0	300K	Urban/Sml Stream Fld Urban/Sml Stream Fld

		Time	Path	Path	Numb	er of	Estimated	November 2002
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers		Damage Property Crops	November 2002 Character of Storm
		Standard	(inites)	(Turus)	Tunicu	injureu	rioperty crops	
CALIFORNIA, South	west							
San Diego County 2 N Fallbrook to 3 N Fallbrook	29	1832PST 1926PST			0	0	150K	Urban/Sml Stream Fld
Riverside County 6 SE Lake Elsinore to 5 SE Lake Elsinore	29	2006PST 2046PST			0	0		Urban/Sml Stream Fld
San Diego County 2.5 SW La Mesa	across Missic San D	Southwest Cal	ifornia. A roo ne stranded. vehicles in a	of collapsed f Four parked an Auto Dea	rom heavy ra vehicles wer ership yard	in in El C e washec were floc	Cajon. Several vehicle l into Alvardo Creek.	<b>Lightning</b> d of thunderstorms moved north and west s attempting to cross a flooded road way in At the junction of Alvardo Creek and the pok, 15 vehicles were stuck in mudslides.
San Bernardino								
County Yucaipa	30	1613PST 1622PST			0	0		Urban/Sml Stream Fld
<u>CALIFORNIA, Upper</u> CAZ085	_	Country						
CALU05	07	oc County 0352PST			0	0		High Wind (G66) <sup>M</sup>
	No wa	ther station at A urning or wind a anels, and blow	advisory was	in effect for	this area. So	me dama	ge was reported, inclu	nding several broken trees, a few peeled up
CAZ080-082	West 07 08	ern Siskiyou 0940PST 1435PST	County - S	outh Cent	al Siskiyou 0	ı Count 0	y	Heavy Snow
CALIFORNIA, West	PST o warnir	nter Storm War n 11/8. This wings are not issue	varning did n	ot verify as l	neavy snowfa	ll only o		feet and was lowered to 5500 feet at 0815 well above 6000 feetelevations at which owever.
CAZ041		Angeles Cour	ty Coasts 1	Including I	owntown ]	-	geles	_
		0640PST fog contribute nt. Forty-one p			0 Interstate 7	<b>41</b> 10 in Lo	os Angeles county. In	Fog total, 194 vehicles were involved in the
Santa Barbara County								
4 W Guadalupe		1528PST nen who were f W, M20IW	ishing along	Guadalupe B	2 each were sw	0 ept out to	o sea by a large wave.	<b>Rip Currents</b> Both men were presumed dead.
CAZ044>047-053>054	Area		es County					nta Monica Mountains Recreation geles County Mountains Excluding
	25	0930PST 2215PST	a Kange		0	0		High Wind (G70)
				-				left without power as the winds snapped snapped power lines sparked three house
Ventura County	30	1528PST 1545PST			0	0		Flash Flood
2 W Santa Paula								
2 W Santa Paula Ventura County 2 W Santa Paula	30	1606PST 1636PST			0	0		Flash Flood
Ventura County	An int reporte	<b>1636PST</b> tense thunderst ed the intersect	ion of Foothi	ll Boulevard	and flash fl	ooding n	•	Flash Flood f Santa Paula. Law enforcement officials of Telegraph Road and Briggs Road were
Ventura County	An int reporte inunda	1636PST tense thunderst	ion of Foothi	ll Boulevard	and flash fl	ooding n	•	f Santa Paula. Law enforcement officials

		Time Local/	Path Length	Path Width		nber of rsons	Estim Dam			November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

#### **CALIFORNIA**, Western

One very strong weather system affected central California during November. For a three-day period starting on the 7th of the month, rainfall totaling 2-5 inches fell across the North Bay counties, 2-4 inches fell across the San Francisco Peninsula, 1-3 inches fell across the East Bay, 1-4 inches fell across the South Bay and 1-2 inches fell across Monterey and San Benito Counties. The most rain fell across Santa Cruz County during this period where rainfall totals ranged from 2 inches to as much as 8 inches in the higher elevations of the coastal hills. Since this was the first appreciable rain of the season, no major flooding occurred with the ground absorbing most of the rain. Only urban and small stream advisories were needed. Stronmg winds at SFO blew the Roof off a large aircraft hangar. Many trees and branches were down blocking riads and interupting power. winds also blew down power poles and lines. as many as 1 million homes were with out pawer at one time. A number of trees fell onhomes and automobiles. Total damae to the area has been estimated at 2.5 million dollars from this storm

Summary of Thursday (November 7, 2002) Bay Area winds:

Strongest: 96 mph gust at Kregor Peak, Contra Costa County @ 8 PM

Other Peak Winds of note: Pt. San Pablo, 87 mph Fort Funston, 77 mph Mt. Tamalpias, 65 mph San Francisco International Airport, 64 mph Richmond, 57 mph Sonoma (Baylands Raceway), 56 mph Sunol, 55 mph Lake Chabot (Castro Valley), 55 mph Oakland International Airport, 50 mph San Jose International Airport, 46 mph San Carlos Airport, 52 mph Buchanan Field (Concord), 46 mph

Summary of Bay Area Storm Total Rainfall (November 6-9): CONCORD 2.00 FREMONT 1.81 KENTFIELD 3.79 LIVERMORE AP 2.90 MOFFETT FIELD 1.99 NAPA 3.10 OAKLAND 2.29 OAKLAND 2.29 OAKLAND 4.29 OAKLAND 4.29 OAKLAND 4.29 SAN JOSE ARPORT 2.56 PACIFICA 2.74 REDWOOD CITY 1.96 SAN JOSE ARPT 1.69 SFO AIRPORT 2.85 SAN FRANCISCO 1.91 SANTA ROSA 3.05

#### OTHERS

BIG SUR STATION 6.64 CARMEL VALLEY 3.92 GILROY 3.36 HOLLISTER 1.37 MONTEREY NWSO 1.79 MORGAN HILL 2.14 SALINAS 1.73 SANTA CRUZ 3.95 WATSONVILLE AP 3.23

VENADO 6.04 ANGWIN 4.96

Santa Lucia Mountains (Monterey County) Three Peaks 11.89 Black cone 10.98 Ventana cone 10.47

							_			
		Time Local/	Path Length	Path Width	Numb Perso		Estin Dan			November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
CALIFORNIA, Weste	ern									
		g Ridge 10.24								
		Ridge 10.16								
		Peak 9.92 Rock 8.78								
		Seco 8.27								
	•	son Peak 7.91								
		dres Reservoir 6		-						
CARIBBEAN SEA A	ND TH	ROPICAL A	TLANTI	<u>C</u>						
Deerfield Beach To										
Ocean Reef Fl 5 E Miami Beach	02	1045EST			0	0			Waterspout	
5 E Miann Deach		each Patrol sight	ed a watersr	out in the At		U			waterspout	
Pamlico Sound	The D	euch i uror sign	ed a watersp		luittie.					
5 SW Oriental	11	1345EST			0	0			Marine Tstm Wi	nd
<b>Deerfield Beach To</b>										
Ocean Reef Fl										
15 NE Port Everglades	15	1000EST			0	0			Waterspout	
D	A pilo	t reported a wate	erspout in the	e Atlantic, 8 r	niles east of l	Hillsbor	o Beach.			
Deerfield Beach To Ocean Reef Fl										
1 E Port Everglades	16	1449EST			0	0			Waterspout	
I E I oft Everglades			lerdale Exec	utive Airport			t in the Atla	intic just of	fshore Port Everglad	es.
Flagler Beach To				1	1	1		5	e	
Cocoa Beach Fl 20 To										
60Nm										
20 E Port Canaveral	16	1800EST			0	0	0	0	Marine Tstm Wi	nd
COLORADO, Centra		erstorm winds p	roduced a w	ind gust of 3	/ knots at buc	y 41009	1.			
COZ032-038-043			Counties	Rolow 0000	) Foot - I a	rimor	County B	olow 600	() Foot / Nw Wol	l County - C & S
02032-030-043		County	Countres		Feet - La	mici	County D			
	01	1500MST			0	0	0	0	Winter Storm	
	02	0300MST								
										eld County. A storm
					snow. Stori	n totals	ranged from	n 5 to 9 ir	ches around Fort C	ollins, with up to 6.5
COZ032>034		reported in the (			M Foot - S	& F	Iackson	/ I arimo	r / N & No Cra	nd / Nw Boulder
000000000										Summit / N & W
		Counties Abo				ui ui u	Dow Down	ier / onp		
	08	1700MST			0	0	0	0	Winter Storm	
	09	1700MST								
										2 inches atop Hoosier
COZ034									Gulch and 2 miles v	
COZ034	Feet	se Granu / w	Central o	c Sw Doulu	er / Gupin		CIECK / A	Summit /	IN & W FAIK CO	unties Above 9000
	1 CCL 08	1912MST			0	0	0	0	High Wind (G77	м
	09	0150MST			Ū	v	Ū	v		,
								er station at	op Corona Pass reco	rded a peak wind gust
		tts (89 mph), wit	th a gust to 6	64 kts (74 mp	h) registered	at Niwo	t Ridge.			
COLORADO, East C	entral									
	NONT	E REPORTED.								
COLORADO, South			east							
COZ085		ado Springs '		Southern F	Paso Com	ntv / P	amnart R	ange Rela	ow 7500 Ft	
0.02000	01	0200MST	vicinity / c	Sumer II E	0	0	umpart N	ange Delt	Heavy Snow	
		1000MST			ŭ	~				
								ow to the fa	ar southwestern part	of Colorado Springs.
	Three	to 5 inches of sn	ow was rece	erved in the S	kyway and B	roadmoo	or areas.			

		Time	Datk	Deth	NT1	r of	Fatiment 1		
r	D	Time Local/	Path Length	Path Width	Numbe Perso	ns	Estimated Damage	C.	November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Cr	ops Character of	of Storm
COLORADO, South									
COZ058>061-066-068- 073-075									ty / Lake County Belo
075-075									tween 9000 & 11000 Ft Ft - Northern Sangre I
								ains Above 1100	-
	08	0600MST			0	0		Heavy Sn	
		0600MST	listurhansa n	roduced <b>pr</b> od	cious amount	oferow	over mainly th	ha highast mounta	ins. Up to 20 inches of sno
									20 inches near the summit
	Wolf Cr	eek Pass. G	enerally, one	foot to nearl	y 3 feet of sn	ow fell in	the eastern Sa	watch Range, inc	luding 31 inches on Monar
					nty, Leadville re de Cristo ra		21 inches of s	snow, while Clima	ax recorded 23 inches. Near
COZ072>075-080-082				-		•	11000 Ft - N	Northern Sang	re De Cristo Mountain
									't - Southern Sangre I
			Above 110	000 Ft - We			10000 Ft - P	ikes Peak Abov	
	08	0730MST 1000MST			0	0		High Wir	nd (G74) <sup>M</sup>
	Strong n		ds with a pote	ential storm s	ystem brought	high win	ds to the easter	rn mountains. The	e strongest measured gust w
					ains7 miles v	west of W	estcliffe. Wind	d gusts over 60 mj	ph were also experienced ne
COLORADO, West	walsent	ourg and in pa	irts of El Paso	o county.					
COZ004-009>010-013	Elkhea	d And Par	k Mountai	ns - Grand	And Battle	ement M	lesas - Gore	And Elk Mou	ntains/Central Mounta
		s - Flattop I							
	01	0000MST 0900MST			0	0		Heavy Sn	IOW
	A nearly		nner low ove						
				r the central l	Rockies produ	ced 5 to 1	2 inches of ne	w snow in most n	orthern and central mountai
		ern Colorado.	The heavies	t reported sno	owfall was 14				
COZ001>014-017>023	along the	ern Colorado. e Interstate 7	The heavies ) corridor in (	t reported sno eastern Eagle	owfall was 14 County.	inches at	a location 5 mi	iles south of Wolc	orthern and central mountai ott. A foot of snow prevaile
COZ001>014-017>023	along the <b>Lower</b>	ern Colorado. e Interstate 70 Yampa Ri	The heavies ) corridor in 6 ver Basin -	t reported sno eastern Eagle • <b>Central Y</b>	owfall was 14 County. ampa River	inches at Basin -	a location 5 mi <b>Roan And</b> '	iles south of Wolc Tavaputs Plate	ott. A foot of snow prevaile
COZ001>014-017>023	along the Lower Mount Basin	ern Colorado. e Interstate 70 Yampa Ri ains - Upp - Grand A	The heavies corridor in a ver Basin - er Yampa	t reported sno eastern Eagle • Central Y River Basin ment Mesa	owfall was 14 County. ampa River a - Grand V as - Gore	inches at Basin - Alley - I And Ell	a location 5 mi Roan And ' Debeque To Mountains	iles south of Wolc Tavaputs Plate Silt Corridor - s/Central Mou	ott. A foot of snow prevail aus - Elkhead And Par Central Colorado Rive ntain Valleys - Centr
COZ001>014-017>023	along th Lower Mount Basin Gunnis	rn Colorado. e Interstate 70 Yampa Ri ains - Upp - Grand A son And U	The heavies ) corridor in ( ver Basin - er Yampa And Battle ncompahgi	t reported sno eastern Eagle • Central Y River Basin ment Mesa re River Ba	owfall was 14 County. ampa River 1 - Grand V as - Gore asin - West	inches at Basin - Alley - I And Ell Elk Anc	a location 5 mi Roan And ' Debeque To Mountains I Sawatch M	iles south of Wolc Tavaputs Plate Silt Corridor - s/Central Mou Iountains - Fla	ott. A foot of snow prevaile aus - Elkhead And Par Central Colorado Rive ntain Valleys - Centr attop Mountains - Uppo
COZ001>014-017>023	along the Lower Mount Basin Gunnis Gunnis	ern Colorado. e Interstate 70 Yampa Ri ains - Upp - Grand A son And U son River	The heavies ) corridor in ( ver Basin - er Yampa And Battle ncompahgi Valley - U	t reported sno eastern Eagle Central Y River Basin ment Mesa re River Ba ncompahgi	owfall was 14 County. ampa River 1 - Grand V as - Gore A asin - West re Plateau A	inches at Basin - Valley - I And Ell Elk And And Dal	a location 5 mi Roan And ' Debeque To & Mountains I Sawatch M llas Divide -	iles south of Wolc Tavaputs Plate Silt Corridor - s/Central Mou Iountains - Fla - Northwestern	ott. A foot of snow prevail aus - Elkhead And Par Central Colorado Rive ntain Valleys - Centr attop Mountains - Uppe San Juan Mountains
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COZ007>008 COZ004-010-012>013- 018 COZ004-009>010-	along the Lower Mount Basin Gunnis Gunnis Southy Dolore 01 30 An activ snowpac Decemb Debequ 01 A slow occurred Elkhea Mount 02 03 Another Elkhea Valleys Northy 08 10 A moist	rn Colorado. e Interstate 70 Yampa Ri ains - Upp - Grand A son And U son River vestern Sai s River Bas 0000MST 2359MST 72 weather re ck remained er 2002 Storr ue To Silt C 0000MST 0800MST moving uppe a lalong the In d And Par ains - Flatt 0600MST 0400MST early season d And Par s - West El vestern Sai 0500MST 2300MST 2300MST westerly flor	The heavies ) corridor in a ver Basin - er Yampa : And Battle ncompahgn Valley - U n Juan Mo sin - Anima gime early in insufficient n Data public Corridor - ( k Mountai op Mountai storm system k Mountai k And Saw n Juan Mou v brought on	t reported sno eastern Eagle Central Y River Basin ment Mesa re River Ba ncompahyn untains - I as River Ba a November 1 for improver ation for a cc Central Col noved across rridor from R ms - Gore A ins - North a and associat ms - Grand ratch Moun untains - So e disturbance	wifall was 14 County. ampa River n - Grand V as - Gore A Paradox Va sin - West re Plateau A Paradox Va sin - San Ju 0 maintained ne nent, and ext notinuation of 1 orado River 0 the central Ro ifle to Eagle. and Elk Mo western Sar 0 ed cold front r And Battle tains - Flatt uthwestern 0 after another	inches at Basin - Yalley - I And Ell Elk And And Dal lley / Lo an River 0 ar normal reme drouthis droug r Basin 0 ckies proc untains/ 1 Juan M 0 noved acr ement M top Mou San Jua 0 across we	a location 5 mi Roan And ' Debeque To A Mountains I Sawatch M las Divide - ower Dolores Basin river basin pro- ight condition ht chronicle for ducing widespr Central Mou fountains oss the area an- lesas - Gore ntains - Unc n Mountains	iles south of Wolc Tavaputs Plate Silt Corridor - s/Central Mou Iountains - Fla Northwestern s River Basin Drought ecipitation across is persisted across r western Colorade Heavy Sn read significant sn untain Valleys Heavy Sn d produced snowf And Elk Moun compahgre Plates S Heavy Sn o resulting in heav	ott. A foot of snow prevail aus - Elkhead And Par Central Colorado Riv ntain Valleys - Centr attop Mountains - Upp San Juan Mountains - Four Corners / Upp the area. However, mounta s western Colorado. See t o. www owfall. 4 to 6 inches of sno - West Elk And Sawate www all totals of 5 to 9 inches. Intains/Central Mounta teau And Dallas Divide ww
COZ001>014-017>023 COZ007>008 COZ004-010-012>013- 018 COZ004-009>010- 012>013-017>019	along the Lower Mount Basin Gunnis Gunnis Southy Dolore 01 30 An activ snowpac Decemb Debequ 01 A slow occurred Elkhea Valleys Northy 08 10 A moist Widespr	rn Colorado. e Interstate 70 Yampa Ri ains - Upp - Grand A son And U son River vestern Sai s River Bas 0000MST 2359MST 72 weather re ck remained er 2002 Stori ue To Silt C 0000MST 0800MST moving uppe l along the In d And Par ains - Flatt 0600MST 0400MST early season d And Par s - West El vestern Sai 0500MST 2300MST westerly flor read snowfall	The heavies ) corridor in a ver Basin - er Yampa : And Battle ncompahgn Valley - U n Juan Mo sin - Anima gime early in insufficient n Data public Corridor - ( k Mountai op Mounta storm system k Mountai k And Saw n Juan Mou w brought on accumulation	t reported sno eastern Eagle Central Y River Basin ment Mesa re River Ba ncompahyn untains - I as River Ba n November 1 for improver ation for a cc Central Col noved across rridor from R ns - Gore A ins - North and associat ns - Grand atch Moun untains - So e disturbance ns ranged from	with the second	inches at Basin - Yalley - I And Ellk Elk And And Dal lley / Lo an River 0 ar normal reme drouthis droug r Basin 0 ckies proc untains/ a Juan M 0 noved acr ement M top Mou San Jua 0 across we hes. Some	a location 5 mi Roan And ' Debeque To A Mountains I Sawatch M las Divide - ower Dolore Basin river basin pro- ight condition ht chronicle for ducing widespr Central Mou fountains oss the area an- lesas - Gore n Mountains estern Colorado of the heavies	iles south of Wolc Tavaputs Plate Silt Corridor - s/Central Mou Iountains - Fla Northwestern s River Basin Drought ecipitation across is persisted across r western Colorade Heavy Sn read significant sn untain Valleys Heavy Sn d produced snowff And Elk Moun compahgre Plat s Heavy Sn o resulting in heav st reported snowfa	ott. A foot of snow prevail aus - Elkhead And Par Central Colorado Riv ntain Valleys - Centr attop Mountains - Upp San Juan Mountains - Four Corners / Upp the area. However, mounta s western Colorado. See to o. www. owfall. 4 to 6 inches of sno - West Elk And Sawate www. all totals of 5 to 9 inches. ntains/Central Mounta teau And Dallas Divide

		Time	Path	Path	Numb		Estimated	November 20
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property Crops	Character of Storm
OLODADO West						-		
OLORADO, West COZ003	Roar	n And Tavapu	ıts Plateau	5				
	08	0500MST	ns i lateau	3	0	0		Winter Storm
	10	1600MST						
								resulting in heavy snow and strong wi
COZ005		er Yampa Riv	-	eaus. 10 men	es of showfal	loccurre	u at Douglas Pass wit	h winds greater than 50 miles an hour.
002000	08	1200MST	er busin		0	0		Heavy Snow
	10	2000MST						
								resulting in heavy snow across the Up t of 8 inches occurring at Yampa.
Montezuma County	ramp	a River Dasin.		unto rangeo	10111 5 10 0 11	enes, wit	ii the neaviest amoun	t of o menes occurring at Tampa.
12 NW Cortez	09	1600MST			0	0		Urban/Sml Stream Fld
		1730MST	1 D		1		1	
	-	y rain caused Br unty Road W.	umley Draw	to overflow	resulting in m	ud, debri	s, and water 6 to 8 in	ches deep to run across U.S. Highway
COZ004-009>010-		2	k Mountai	ns - Grand	And Battl	ement ]	Mesas - Gore And	d Elk Mountains/Central Mount
012>013-018								stern San Juan Mountains
	14	1200MST			0	0		Heavy Snow
	15 An ur	1200MST	rhance move	d across wes	tern Colorad	in north	west flow and prod	uced heavy snow across the mountains
								b Mountains. 8 to 16 inches fell across
								west San Juan Mountains received 8 to
COZ007>008							OTEL data and ski re	sort reports.
CUZ007>008	24	eque To Silt C 1800MST	orridor - C	entral Col	orado Rive 0	r basin 0		Heavy Snow
	25	0700MST			Ū	Ū		
								g the Interstate 70 corridor from De Be
COZ004-013			-			-	become snowpacked	d and icy.
COZ004-013	ЕІКП 24	ead And Parl 1800MST	k Mountair	is - riattop	Niountains 0	, 0		Heavy Snow
	25	0700MST			Ū	Ū		
								w across the Elkhead, Park, and Flat
							to 23 inches. The hea x Pass SNOTEL sites	wiest amounts were 23 inches at the To
CONNECTICUT, No			nes at mappe	15 Eule, 140	on Dais I ass	una 291		
CTZ002>003		ford - Tollan	d					
	16	2200EST			0	0	2.5M	Ice Storm
CT7002	17 Heart	1500EST						
CTZ002	Hart 18	10ra 0700EST			0	0	25K	High Wind (G50)
	10	1000EST			U	U	25K	riigii Willia (050)
	A maj	jor ice storm cau	used significa	ant damage ir	north centra	l Connec	ticut. There were nur	merous reports of downed trees, limbs,
				-		nch of ic	ing. An estimated 1	00,000 customers in Hartford and Toll
	Count	ties were left wi	thout power i	because of the	e storm.			
	Dama	ige was especia	lly severe in	western Ha	rtford County	, where	entire communities	such as Hartland, Granby, Simsbury,
			-		•			npletely isolated due to downed trees
		-		-	-	-	*	s crashed down on cars, punched through track blocked reads in Pristel
								owned trees blocked roads in Bristol. ' h as 50 mph hampered the cleanup eff
		-		-		-	-	he storm in Hartford County was estimated
	at two	o million dollars.						
	The d	lamage was less	s severe in n	eighboring T	olland Coun	v but th	ere were still many	reports of downed trees, limbs, and w
		ywide. Total da					ere were still many	reports of downed dees, milos, and w
CTZ002>004		ford - Tollan						
	27	0100EST			0	0		Heavy Snow
		1000-0-						
	A	1300EST	a couth	of New East			w to northern Corr	-
		nter storm passir	-	-	and brought h	eavy sno		cticut. The highest totals were observed d from 6 to 10 inches. The storm occur

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated November 2002 Local/ Width Length Persons Damage Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm **CONNECTICUT**, Northeast storm. Still, several minor accidents were reported throughout the region, but no injuries were directly attributable to the storm. Some specific snowfall totals include 10.5 inches in Canton; 10 inches in Burlington, Glastonbury, Wethersfield, and West Hartford; 9 inches in Granby, Suffield, Bristol, Farmington, Ellington, and Hebron; 8 inches in Avon, Stafford, and Mansfield; 7 inches in Hartford, Manchester, Columbia, Ashford, and Woodstock; and 6 inches in Newington, Union, Vernon, Thompson, and Pomfret. Officially, the storm total at Bradley International Airport in Windsor Locks was 9.0 inches. **CONNECTICUT**, Northwest **CTZ001** Litchfield 16 2200EST A A 100K Winter Storm 17 0900EST A strong nor'easter developed off Cape Hatteras on November 16. The low pressure center then slowly moved north along the coast, reaching Cape Cod by late November 17. At the same time, a shallow layer of arctic air bled south from eastern Canada. This air was cold enough to produce a heavy wintery mix of precipitation during a good portion of the storm across Litchfield County. Generally speaking, 1-3 inches of snow fell as the precipitation arrived late on Saturday morning. As warmer air moved in aloft, the precipitation gradually changed to sleet, then an extended period of freezing rain. The freezing rain produced a buildup of ice between a half and one inch thick on many surfaces. Winds, frequently gusting to around 30 mph combined with the ice and residual leaves left on the trees, to bring many of them down. The ice and wind also brought down a number of power lines. The net result from this storm was one of the greatest power outages ever in Litchfield County. At one point, during the overnight hours of the 17th, well over 50 percent of customers in the county were without power! Many trees were uprooted and some roads were impassable due to the ice and downed debris. Surface temperatures finally rose above the freezing mark later on Sunday morning, thus ending additional icing. As colder air worked back in, some snow fell on the back side of the storm, but additional accumlations were fairly minor. Many businesses and schools were closed up to several days after the storm and it took the better part of a week to completely restore power. **CTZ001** Litchfield 0000EST 27 0 0 Winter Storm 0300EST An area of low pressure developed along the Delmarva pennisula during the evening hours of November 26. Cold enough air was in place across northwest Connecticut, so that most precipitation associated with the storm was in the form of snow. The storm moved fairly quickly out to sea early on the 27th, but was still able to deposit a swath of heavy snow across portions of Litchfield County. Bakersville reported 8.6 inches of snow, while Thomston Dam reported 7.0 and Torrington 7.7 inches. Unlike the previous winter storm, no unusual weather related problems were reported to the National Weather Service with this one. **CONNECTICUT. Southern** CTZ005>008 Northern Fairfield - Northern New Haven - Northern Middlesex - Northern New London 27 0700EST 0 0 Heavy Snow 0800EST With a high pressure system over New England, a low pressure system developed south of Long Island and intensified as it moved northeast. Snow developed between midnight and 1 am. Bands of heavy snow swept across the region and reached accumulations of 6 to 9 inches between 7 am and 8 am across the area. Here are selected snowfall amounts for: Northern Fairfield County: between 6 and 7 inches reported in Ridgefield and Danbury. Northern New Haven County: from 7 inches at Beacon Falls to 9 inches in Waterbury. Northern Middlesex County: 7 inches was measured by a spotter in Haddam. Northern New London County: from 7 inches at Norwich to 9 inches at Colchester. A moderate snowfall occurred across the remainder of Southern Connecticut with amounts ranging from 3 inches at Sikorsky Airport in Bridgeport in Southern Fairfield County to around 4 inches at Groton and Laurel Hill along coastal New London County to around 5 inches at West Haven, Milford, and New Haven along coastal New Haven County. DELAWARE DEZ001>004 New Castle - Kent - Inland Sussex - Delaware Beaches 0000EST 01 0 Drought 25 0900EST An unseasonably wet November ended the meteorological drought across Delaware. A series of northeasters on November 5th and 6th, November 11th and 12th, November 16th and 17th dropped more precipitation than is normal for the month of November. Ironically the wet weather hampered farmers as it slowed the harvest of soybean crops and thwarted the planting of grain cover crops.

		Time Local/	Path Length	Path Width		ber of sons	Estin Dam			November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
DELAWARE										
	inches droug Penns supple River 1st wa	in New Castle ht emergency ylvania returned ement the base f increased from as 13 percent abo	County. Norri for the entind to normal low of the D 57.6 percent pove normal a	mal is around re Delaware and there was relaware River of capacity o nd 135 billion	3.4 inches. River Bass s no longer r south of T n Novembe gallons gree	On Nove in. Stream a need f Frenton. T er 1st to 7 eater (or 3	mber 25th, a nflows hav for water sta he New Yo 1.5 percent 00 percent h	the Delaw re returned orage in t ork City re of capacit nigher) that	punty, 5.4 inches in Suss are River Basin Commis d to normal. Lower b he F.E. Walter Dam (in servoirs at the headwate ty on December 1st. Sto in levels on December 1, e County Airport was 4.4	ssion dropped their asin reservoirs in a Pennsylvania) to rs of the Delaware rage on December , 2001.
New Castle County			J I . I						j I	
Coochs Bridge	17	0046EST 0741EST			0	0			Flood continued a trend of w	
	steadil New ( condit from 1 2.10 in eastern Nova autum	ly through the n Castle County 2 ions to produce 1246 a.m. EST nches in Newar n Gulf of Mexic Scotia by the m	norning of the Airport, 0.57 flooding alou through 741 k and 2.07 in to the mornin orning of the the system ov	e 17th. The he fell during f ng the Christin a.m. EST. on heches at the N ng of the 16th, 18th. While t rer New Engla	eaviest rain that four he na River Ba the 17th. If lew Castle to near Ca he central p and and nea	fell betwee our period sin. The C t crested a County A pe May the pressure of arby Canad	een 10 p.m. 1. This was Christina Riv tt 11.25 feet irport. The ne morning f this northed da increased	EST on the s enough a ver at Coo t at 245 a. northeaste of the 17th easter was	n before dawn on the 1 ne 16th and 2 a.m. EST rain given the already chs Bridge was above its m. EST on the 17th. Sto er that affected the regio n (central pressure about not as low as some of th ure gradient which subs	on the 17th. At the near saturated soil s 9 foot flood stage orm totals included on moved from the t 1000 millibars) to be others so far this
DEZ003>004		d Sussex - De		-	1 1	2	5			
	23	0100EST 1300EST			0	0			Strong Wind	
DISTRICT OF COL	produ 23rd.	ced strong wind The strongest re	s across Sus	sex County D	elaware. Th	ne stronge	st winds oc	curred bet	New England and the C ween midnight EST and	
District Of Columbia										
Northwest Portion	11 Traca	0610EST	the Deels Co	aalt Dault anaa	0	0	2K		Thunderstorm Win	d
		were downed in iderstorm which				n the 11th	downed tre	es in the I	Rock Creek Park area.	
FLORIDA, East Cen										
Brevard County										
West Melbourne			-		<b>0</b> nits on a la	0 rge wareh	5K ouse store in	0 n West M	Thunderstorm Win elbourne. Large pallets	. ,
FLORIDA, Extreme		noved around ir e <u>rn</u>	the parking	lot.						
	NONI	E REPORTED.								
FLORIDA, Northeas										
Hamilton County										
Jasper	06	0503EST			0	0	2K		Thunderstorm Win	d
Hamilton County	Large	trees down over	r road and on	power lines a	tt SW 99th	Street in J	asper.			
Hamilton County Jasper	06	0519EST			0	0	2K		Thunderstorm Win	d
Jusper		trees down on N	W 44th Stre	et in Jasper.	v	v	211		Thuhuerstorm win	u
<b>Gilchrist County</b>	e			1						
5 NE Bell	06	0600EST			0	0			Tstm Wind/Hail	
Sumannaa Country	2 trees	ss down with sca	attered power	outages.						
Suwannee County 5 S Dowling Park	12	0925EST			0	0			Funnel Cloud	
e o zonang i uni		al reports of fun	nel cloud sigl	htings.	v	v			_ units olouu	
Columbia County		•	U	-						
Lake City	12	1130EST			0	0	5K		Thunderstorm Win	d
-	~	al large trees do				U	31		Thuhuerstorm win	u

		Time Local/	Path Length	Path Width	Numb Pers		Estim Dam		Novembe	r 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
FLORIDA, Northeast	ern									
Baker County										
Taylor to	12	1200EST			0	0	10K		Thunderstorm Wind	
Macclenny		1215EST								
	Severa	al large trees blo	wn down aci	oss roadway	s and power l	ines.				
Alachua County										
Countywide	12	1230EST			0	0	10K		Thunderstorm Wind	
	Nume	rous large trees	down. Powe	r lines down	in Micanopy	. Large t	trees down o	n NW 8th	Ave in Gainesville.	
Alachua County	10	1020505			0	0				
Central Portion	12 Dublia	1230EST	alouda in N	wike and	0 LoCrosso	0			Funnel Cloud	
		reported funnel	clouds in N	ewberry and	LaCrosse.					
FLORIDA, Northwes	<u>L</u>									
Holmes County	07	1720505	0.1	50	0	0	1 777			
Ponce De Leon	05	1738EST	0.1	50	0	0	15K		Tornado (F0)	
				ned down ne	ar Interstate	to and re	suited in a i	ew car ac	cidents. There were no injuries. R	eporte
Franklin County	by the	Holmes County	LIVIA.							
6 SE East Pt	10	1815EST	0.1	50	0	0	15K		Tornado (F0)	
0 SE East Ft								near inte	rsection of 5th and West Gorrie S	treat o
		George Island. 1					upleu nouse	near inte	isection of 5th and west Gome S	ueet of
Bay County	Same	George Island.	teponed by		county Sheri					
(Pfn)Panama City Arp	11	2017EST			0	0			Thunderstorm Wind (G52)	M
(i iii)i anama enty mp		mph wind gust v	vas recorded	by the Panar	-		virnort ASO	s	Thuhuerstorm (Co2)	
Taylor County	11001	inpir wind gust v	vas recoraca	by the I ana	na City Day	county 1	inport 160	5.		
Steinhatchee	12	1330EST			0	0	50K		Lightning	
Stellinutchee		ning destroyed th	ne top floor o	f a two-story	-			the Perry	8 8	
FLORIDA, Southern	Eight	ing desubjed d		i u two story	wood mame	nouse. 1	coported by	une i eniy		
Broward County										
Pembroke Pines	16	1810EST			0	0			Thunderstorm Wind (G55)	
I childroke I likes		ster of severe thu	inderstorms	rought dow	-		ines and Por	nnano Be		
FLORIDA, West Cen		ter of severe in	inderstorms	stought down	r dees in r en	lorone r	ines und i or	inpuno De		
FLZ039-042>043-048-		- Citrus - Su	ntor - Hor	nando - M	anataa					
055	Levy	- Citi us - Sui		nanuo - 191	anatee					
055	12	0200EST			0	0			Fog	
	12	0200EST			v	Ū			10g	
	Dense		r west centra	l Florida. T	he Sarasota a	irport rer	orted 1/4 m	iles visibi	ity for six hours and the Hernando	Count
		t reported it for								
Polk County	. 1	1				,				
Auburndale	12	2330EST			0	0			Tstm Wind/Hail	
	Ceilin	g tiles blown do	wn in conces	sion stand a	nd bleachers l	olown ov	er at a sport	s complex		
Manatee County		0					1	1		
Myakka City	16	0700EST			0	0			Urban/Sml Stream Fld	
<i>. .</i>		1800EST								
	Myakl	ka City reported	4.8 inches o	f rain during	an 11 hour p	eriod. Al	l other rain f	all reports	in the county were 3.5 inches or le	ess.
Lee County										
Cape Coral to	16	0800EST			0	0			Flash Flood	
Ft Myers		1800EST								
Charlotte County										
Punta Gorda to	16	1000EST			0	0			Flash Flood	
3 SSE Englewood		1600EST								
De Soto County										
De Solo County	16	1100EST			0	0			Flash Flood	
14 E Ft Ogden	16									
	10	1500EST								
	10									
14 E Ft Ogden	16				0	0			Flash Flood	

A slow moving storm system transported abundant tropical moisture across the Florida peninsula producing rainfall of 8.39 inches 14 miles east of Fort Ogden in De Soto county and 8.12 inches 3 miles south southeast of Englewood in Charlotte county. The Orange river in Lee County surpassed bankful. Water was reported in several homes in Englewood in Sarasota county. Other significant rainfall reports included Point Lonesome at 7.09 inches, Fort Ogden 6.81 inches, near Punta Gorda 5.38 inches, and North Port 5.13 inches.

		Time Local/	Path Length	Path Width		ber of sons	Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
LORIDA, West Cen	tral							
Hardee County								
2 N Gardner	16	1100EST 1500EST			0	0		Urban/Sml Stream Fld
	4.62 ii	nches of rain.						
Highlands County								
Archbold	16	1100EST			0	0		Urban/Sml Stream Fld
	/ 38 ji	1500EST nches of rain.						
FLZ048		ando						
	17	1130EST			0	0	5K	High Wind
		convective wind pe		ayer of a roof	off of a trai	ler home.		
FLZ039-042-048	•	- Citrus - Heri	nando					
	24	0100EST 0600EST			0	0		Extreme Cold
	The fi		ezing tempe	ratures in we	est central F	lorida in l	ate 2002 occurred on	this date under clear skies and light wind
								s reaching 31 degrees in Chiefland, 28
		ness, and 29 in Bro						
FLZ039-042>043-	Levy	- Citrus - Sum	ter - Heri	nando - Pa	sco			
048>049	29	0100EST			0	0		Extreme Cold
	<u></u>	0700EST			U	U		Extreme Colu
	This f	reeze occurred ov	er much of	northern inte	rior Florida	with Inve	rness reaching 30 deg	grees and Brooksville reaching 26 degrees
FLZ039-042>043-048	•	- Citrus - Sum	ter - Heri	nando				
	30	0200EST 0600EST			0	0		Extreme Cold
	Cold I		ained in pla	ice for a seco	nd night car	using free	zing temperatures acr	oss inland areas of northern Florida. So
							the FAWN site northe	
LORIDA, West Pan	handle	<u>e</u>						
Escambia County								
Bratt	05	1115CST 1116CST	0.1	20	0	0		Tornado (F0)
	A wea		touched do	wn near Brat	t. Law enfo	rcement s	aw the tornado briefly	y touch down in an open field. The torna
		d no damage.						· · · · · · · · · · · · · · · · · · ·
Escambia County								
Cantonment	05	1440CST			0	0	50K	Thunderstorm Wind (G65)
	Strong	1445CST thunderstorm wi	nde damage	ad a Mobile h	nome and a t	ravel trail	er as well as a harn	Some tree damage was also reported.
Santa Rosa County	Suong	g thunderstorm wi	nus uamage			lavel uali	ei, as well as a ball.	Some tree damage was also reported.
Milton	05	1440CST			0	0	5K	Thunderstorm Wind (G55)
		1442CST						
	High t	thunderstorm wind	ds downed a	a few trees no	ear Milton.			
Santa Rosa County Bagdad	05	1510CST	0.1	20	0	0	15K	Tornado (F0)
Daguau	05	1515CST	0.1	20	U	U	15K	Tornado (FO)
	A thu		ced a weak	tornado jus	st North and	d East of	Bagdad that resulte	d in some minor roof damage to sever
~	structu	ures, as well as so	me downed	trees and po	wer lines.			
Escambia County	10	0942CET			1	(		
Pensacola Beach	10	0842CST 0850CST			1	6		Rip Currents
	Severa		ing in roug	h water at P	ensacola Be	ach were	caught in a strong r	ip current. A male visitor from Nebras
						le ended	up drowning in the	rough surf and six other people had to
		ed and were taken	to the hosp	ital and later	released			
EORGIA, East Cen	M43IV tral	vv						
Lincoln County	<u>u ai</u>							
14 NNW Lincolnton	11	0538EST			0	0	12K 0	Thunderstorm Wind (G60)
			n trees in th	e L.B.K. Circ			wo trees falling on ho	
Lincoln County							-	
5 NW Goshen to	11	0615EST	1	50	0	0	0 0	Tornado (F0)
5 NNW Goshen		0617EST	4	1 11 /				

A strong F0 took down trees about 1 mile east of Chennault in very rural area.

		Time Local/	Path Length	Path Width	Numl		Estima Dama		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
GEORGIA, East Ce	ntral								
Burke County									
4 ENE Gough	11 High	0825EST way maintenance	dent reporte	d coveral tra	0 s down on r	0 ural road	0	0	Thunderstorm Wind (G50)
GEORGIA, Lower	Ingn	way maintenance	e dept reporte			liai ioau	15.		
Coffee County									
2 N Douglas	05	2300EST 2330EST			0	0			Urban/Sml Stream Fld
~ ~ ~	3 to 4	4 inches of rainfal	ll reported w	ith several co	unty roads fl	ooded.			
Coffee County	~-				0				
2 N Douglas	05 One l	2300EST large tree down a	cross county	road.	0	0			Tstm Wind/Hail
Coffee County									
Ambrose	05 Large	2315EST e trees down on p	ower lines, p	oles down.	0	0	2K		Thunderstorm Wind
Appling County	U	1	1						
2.5 N Baxley to 3.5 N Baxley	05	2345EST	0.8	80	0	2	200K		Tornado (F0)
		g Ben Carter Ro e residential struc							destroyed and four damaged. Two wood
Wayne County	mann	e residential struc	tures uamag	eu. Thie nee	s snapped of		isted. Numero	Jus powe	i lilles down.
Odum to Mc Kinnon	06	0315EST			0	0	10K		Thunderstorm Wind
WIC KIIIIOII	Num	erous large trees	down on Bra	untley Road (	Off Highway	301) ne	ar McKinnon	Large t	rees down in Odum.
Echols County	i tuin	erous large trees	down on Die	introy Road (	on ingnway	501) ne		. Daige i	ices down in Oddin.
Needmore to 3 E Needmore	06	0500EST 0510EST	3	200	0	0	10K		Tornado (F0)
5 E Recumore	Trees		ng highway	94 between N	Jeedmore an	l Fargo	Discontinuo	us 200 Y	ard wide debris field reported.
Camden County	1100.			, , , , , , , , , , , , , , , , , , , ,	leeunore un	a i uigoi	Discontinuo	40 200 1	
St Marys	06 Large	0530EST e trees down acro	es various po	ortions of the	0 city	0	10K		Thunderstorm Wind
Ware County	Laig	e trees down aero	ss various po	nuons or the	enty.				
25 S Ft Mudge	06	0530EST 0540EST			0	0	2K		Thunderstorm Wind
	Many	y large trees down	n on power li	ines					
Charlton County		, illige liees do il	n on poner n						
Moniac to St George	06	0540EST 0550EST			0	0	10K		Thunderstorm Wind
St George	Many	y large trees down	n across pow	er lines.					
Atkinson County		,8	F						
2 W Willacoochee	12	0745EST	0.1	50	0	0	10K		Tornado (F0)
	Brief	tornado touchdo	wn along Hi	ghway 82. S	everal tree to	ps snapp	ed and twiste	d. Sever	al large trees down across roadway.
Coffee County									
7 SW Douglas to 4 S Douglas	12	0745EST 0810EST	3	200	0	2	500K	50K	Tornado (F2)
	Torna		n in field alo	ong the Atkin	son-Coffee	County li	ine near Mars	shal Corb	et Road. Just inside of Coffee county on
									hicken houses were totally destroyed and
	mach	inery tossed about	ut. One auto	mobile was j	picked up an	d landed	on the roof o	of a brick	structure. Extensive roof damage to brick
	struct	ture. Several wo	ork sheds des	stroyed. Tree	es snapped o	ff and tw	visted at tops	with deb	oris wrapped in tree tops. Numerous larg
						-			e storm continued north in a discontinuou
	-	• •							with trees again snapped and twisted at the
	-	•••							p destroying a hanger/office structure and identified at this site some 3 miles from it
	point	of origin. This	was the fin	al discernabl	e touchdow	n, althou	gh there was	some ev	vidence from debris further north that the
Bacon County	syste	m continued as a	runner ciouc	i jusi above li	te top level	mo sout	neast Dougla	5.	
3 SW Alma	12	0820EST	0.1	100	0	0	100K		Tornado (F0)
J D II AIIIIA	One		troyed and a	portion of th	e roof of an	adjacent	wood frame		removed. Several large trees down across
Appling County	Touch							-F.,	
Pine Grove	12	0840EST			0	0	5K		Thunderstorm Wind
		rol lorgo troos dor		1 241	~	•	~ 48		

 12
 0840EST
 0
 0
 5K
 Thunderstorm w

 Several large trees down across highway 341.
 0
 5K
 Thunderstorm w

		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)		Injured	Property Crops	Character of Storm
GEORGIA, North a	nd Cen	<u>tral</u>						
Heard County	07	1000505			0	0	0.0517	
Frolona to Glenn	05	1900EST 1930EST			0	0	0.25K	Thunderstorm Wind
		•		-	-			n down in the extreme western part of th he other on Glenn Road.
Lamar County		,						
6 E Barnesville	10	1659EST			0	0		Funnel Cloud
Laman Carrata	The L	amar county sher	iff sighted a	possible funn	el cloud near	the Lar	nar/Monroe county l	ine.
Lamar County Barnesville	10	1700EST 1715EST			0	0	5K	Hail (1.00)
	The p	ublic reported that	t quarter siz	e hail fell. So	ne cars were	e damag	ed.	
Bibb County	ine p						, <del>.</del>	
2 ENE Lorane to 2.2 ENE Lorane	10	1721EST 1722EST	0.6	200	0	0	400K	Tornado (F0)
	in the path 1 Some Most	Cross Creek and ength of 1/2 to 3/ of the trees land	Sleepy Cree 4 mile and a ed on home	k subdivision path width of s and some sh	s which strac 1/4 mile or ningles were	idle the less. N also pe	Bibb-Monroe count umerous trees, mostleeled off by the wind	ched down in extreme northern Bibb count y line. The tornado was estimated to have y pines, were either broken off or uprooted d. However, damage to homes was minor reas. A couple of roads were blocked b
Monroe County 3 SE Bolingbroke to 4 SE Bolingbroke	10	1722EST 1724EST	0.2	200	0	0	100K	Tornado (F0)
	uama	ge here as ro ton						
Jones County 12 WSW Gray to	into e confir home home	xtreme southern I ned mainly to nur s and four vehicle	Monroe cour nerous down es were dam	nty, continuing ned pine trees aged by dowr	to do dama , a few on h ed trees. O	ge in the omes, a ne four	e Sleepy Creek and C and a few incidents of foot diameter tree w	northern Bibb county moved east-northeas Cross Creek Subdivisions. The damage wa of shingles blown off roofs. At least eigh as blown right through the bedroom of on subdivision. Two roads were blocked b Thunderstorm Wind
v	into e confir home down	xtreme southern 1 ned mainly to nur s and four vehicle and at least two ed trees as well. 1740EST	Monroe cour nerous down es were dam dozen trees	nty, continuing ned pine trees aged by dowr were tossed	to do dama , a few on h ed trees. O about like tw 0	ge in the omes, a ne four wiggs ir 0	e Sleepy Creek and G and a few incidents of foot diameter tree w a another part of the 50K	Cross Creek Subdivisions. The damage wa of shingles blown off roofs. At least eigh as blown right through the bedroom of on subdivision. Two roads were blocked b Thunderstorm Wind
12 WSW Gray to 3 ENE Gray	into e confir home down 10 The J trucki portio blowr damag	xtreme southern I ned mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Em ng industry locat n of the roof and a away. Several	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off ti trees fell dow	nty, continuing ned pine trees aged by dowr were tossed nagement Din ille, about hal ne front doors wn on the pro	to do dama , a few on h ed trees. O about like tw 0 rector report fway betwee of the main perty as wel	ge in the omes, a ne four wiggs ir 0 ed that en Gray building l, causin	e Sleepy Creek and G and a few incidents of foot diameter tree w a another part of the 50K strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f	Cross Creek Subdivisions. The damage wa of shingles blown off roofs. At least eigh as blown right through the bedroom of on subdivision. Two roads were blocked b
12 WSW Gray to 3 ENE Gray Jones County	into e confir home down 10 The J trucki portio blowr damag Bibb o	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Em ng industry locat n of the roof and a away. Several ge to the vehicle, county line.	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off ti trees fell dow	nty, continuing ned pine trees aged by dowr were tossed nagement Din ille, about hal ne front doors wn on the pro	to do dama , a few on h ed trees. O about like to 0 ector report fway betwee of the main perty as wel a pontoon. O	ge in the omes, a ne four wiggs ir 0 ed that en Gray building l, causin Other tre	e Sleepy Creek and G and a few incidents of foot diameter tree w a another part of the 50K strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerably were down in the county, especially near th
12 WSW Gray to 3 ENE Gray	into e confir home down 10 The J trucki portio blowr damag Bibb o 10	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Em ng industry locat n of the roof and a way. Several ge to the vehicle, county line. <b>1743EST</b>	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off ti rrees fell do while anothe	nty, continuing ned pine trees aged by dowr were tossed nagement Din ille, about hal ne front doors wn on the pro	to do dama , a few on h ed trees. O about like tw 0 rector report fway betwee of the main perty as wel	ge in the omes, a ne four wiggs ir 0 ed that en Gray building l, causin	e Sleepy Creek and G and a few incidents of foot diameter tree w a another part of the 50K strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerable
12 WSW Gray to 3 ENE Gray Jones County 2 SW Gray	into e confir home down 10 The J trucki portio blowr damag Bibb o 10	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Em ng industry locat n of the roof and a away. Several ge to the vehicle, county line.	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off ti rrees fell do while anothe	nty, continuing ned pine trees aged by dowr were tossed nagement Din ille, about hal ne front doors wn on the pro	to do dama , a few on h ed trees. O about like to 0 ector report fway betwee of the main perty as wel a pontoon. O	ge in the omes, a ne four wiggs ir 0 ed that en Gray building l, causin Other tre	e Sleepy Creek and G and a few incidents of foot diameter tree w a another part of the 50K strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerably were down in the county, especially near th
12 WSW Gray to 3 ENE Gray Jones County	into e confir home down 10 The J trucki politor damag Bibbo 10 The p 10 The J cutou	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Eming industry locat in of the roof and a way. Several ge to the vehicle, county line. <b>1743EST</b> ublic reported dir <b>2300EST</b> Dade county Emi	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off th rees fell dow while another ne size hail.	nagement Din ille, about hal he front doors wn on the pro er tree fell on a anagement Din ilighway 136 a	to do dama , a few on h ed trees. O about like to 0 rector report fway betwee of the main perty as wel a pontoon. C 0 rector report	ge in the omes, a ne four wiggs in 0 ed that en Gray building l, causin Dther tro 0 0 tred that	e Sleepy Creek and G and a few incidents of foot diameter tree w a nother part of the <b>50K</b> strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f bees and power lines w <b>10K</b> tt lightning struck a	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerably were down in the county, especially near th
12 WSW Gray to 3 ENE Gray Jones County 2 SW Gray Dade County 7 SE Trenton Walker County	into e confir home down 10 The J trucki portion blowr damag Bibbo 10 The p 10 The J trucki	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Eming industry locat in of the roof and a way. Severaling ge to the vehicle, county line. <b>1743EST</b> ublic reported diri <b>2300EST</b> Dade county Emilding located near ments, were destributed in the source of the sou	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off th rees fell dow while another ne size hail.	nagement Din ille, about hal he front doors wn on the pro er tree fell on a anagement Din ilighway 136 a	to do dama , a few on h ed trees. O about like tw 0 rector report fway betwee of the main perty as wel a pontoon. C 0 rector report t the foot of	ge in the omes, a ne four wiggs ir 0 ed that en Gray building l, causin Dther tro 0 0 tred that Lookon	e Sleepy Creek and G and a few incidents of foot diameter tree w a nother part of the <b>50K</b> strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f bees and power lines w <b>10K</b> tt lightning struck a	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerable were down in the county, especially near th <b>Hail (0.75)</b> <b>Lightning</b> and completely destroyed a small garage ontents, which included numerous tools an
12 WSW Gray to 3 ENE Gray Jones County 2 SW Gray Dade County 7 SE Trenton	into e confir home down 10 The J trucki portio blowr damag Bibbo 10 The p 10 The J 10 The J 10 The J	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Eming industry locat in of the roof and a way. Severaling to the vehicle, county line. <b>1743EST</b> ublic reported diri <b>2300EST</b> Dade county Emilding located near ments, were destring <b>2327EST</b>	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off th rees fell dow while another ne size hail. ne size hail. nergency Ma ur Georgia H oyed as well	nagement Dir anagement Dir ille, about hal he front doors wn on the pro er tree fell on a anagement Di lighway 136 a	to do dama , a few on h ed trees. O about like to 0 rector report fway betwee of the main perty as wel a pontoon. C 0 rector report t the foot of 0	ge in the omes, a ne four wiggs in 0 ed that en Gray building l, causin Dther tro 0 0 tred that	e Sleepy Creek and G and a few incidents of foot diameter tree w a nother part of the <b>50K</b> strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f bees and power lines w <b>10K</b> tt lightning struck a	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerable were down in the county, especially near th <b>Hail (0.75)</b> <b>Lightning</b> and completely destroyed a small garag
12 WSW Gray to 3 ENE Gray Jones County 2 SW Gray Dade County 7 SE Trenton Walker County Rossville	into e confir home down 10 The J trucki portio blowr damag Bibbo 10 The p 10 The J 10 The J 10 The J	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Eming industry locat in of the roof and a way. Severaling ge to the vehicle, county line. <b>1743EST</b> ublic reported diri <b>2300EST</b> Dade county Emilding located near ments, were destributed in the source of the sou	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off th rees fell dow while another ne size hail. ne size hail. nergency Ma ur Georgia H oyed as well	nagement Dir anagement Dir ille, about hal he front doors wn on the pro er tree fell on a anagement Di lighway 136 a	to do dama , a few on h ed trees. O about like to 0 rector report fway betwee of the main perty as wel a pontoon. C 0 rector report t the foot of 0	ge in the omes, a ne four wiggs ir 0 ed that en Gray building l, causin Dther tro 0 0 tred that Lookon	e Sleepy Creek and G and a few incidents of foot diameter tree w a nother part of the <b>50K</b> strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f bees and power lines w <b>10K</b> tt lightning struck a	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerable were down in the county, especially near th <b>Hail (0.75)</b> <b>Lightning</b> and completely destroyed a small garage ontents, which included numerous tools an
12 WSW Gray to 3 ENE Gray Jones County 2 SW Gray Dade County 7 SE Trenton Walker County	into e confir home down 10 The J trucki portio blowr damag Bibbo 10 The p 10 The J 10 The J 10 The J	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Eming industry locat in of the roof and a way. Severaling to the vehicle, county line. <b>1743EST</b> ublic reported diri <b>2300EST</b> Dade county Emilding located near ments, were destring <b>2327EST</b>	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesw ripped off th rees fell dow while another ne size hail. ne size hail. nergency Ma ur Georgia H oyed as well	nagement Dir anagement Dir ille, about hal he front doors wn on the pro er tree fell on a anagement Di lighway 136 a	to do dama , a few on h ed trees. O about like to 0 rector report fway betwee of the main perty as wel a pontoon. C 0 rector report t the foot of 0	ge in the omes, a ne four wiggs ir 0 ed that en Gray building l, causin Dther tro 0 0 tred that Lookon	e Sleepy Creek and G and a few incidents of foot diameter tree w a nother part of the <b>50K</b> strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f bees and power lines w <b>10K</b> tt lightning struck a	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerable were down in the county, especially near th <b>Hail (0.75)</b> <b>Lightning</b> and completely destroyed a small garage ontents, which included numerous tools an
12 WSW Gray to 3 ENE Gray Jones County 2 SW Gray Dade County 7 SE Trenton Walker County Rossville Dade County Trenton	into e confir home down 10 The J trucki portio blowr damag Bibb o 10 The p 10 The p 10 The J trucki portio blowr damag Bibb o 10 The V trucki portio blowr damag Bibb o 10 The J trucki portio blowr damag Bibb o 10 The J trucki portio blowr damag Bibb o 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J 10 The J 10 10 The J 10 The J	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Eming industry locat in of the roof and a away. Severaling ge to the vehicle, county line. <b>1743EST</b> ublic reported diri <b>2300EST</b> Dade county Emi ilding located near ments, were destrict <b>2327EST</b> Valker county 911	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesv ripped off ti rees fell dow while another ne size hail. ne size hail. tregency Ma ne size hail. tregency Ma ur Georgia H oyed as well center repo	nty, continuing ned pine trees aged by down were tossed nagement Din ille, about hal ne front doors wn on the pro er tree fell on a anagement Di lighway 136 a	to do dama , a few on h ed trees. O about like to 0 ector report fway betwee of the main perty as wel a pontoon. O 0 rector report t the foot of 0 ail. 0	ge in the omes, a ne four wiggs ir 0 ed that en Gray building 1, causin Other tro 0 0 tred tha 'Lookot 0 0	e Sleepy Creek and G and a few incidents of foot diameter tree w a nother part of the <b>50K</b> strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f bees and power lines w <b>10K</b> tt lightning struck a	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerable were down in the county, especially near th <b>Hail (0.75)</b> <b>Lightning</b> and completely destroyed a small garage ontents, which included numerous tools an <b>Tstm Wind/Hail</b>
12 WSW Gray to 3 ENE Gray Jones County 2 SW Gray Dade County 7 SE Trenton Walker County Rossville Dade County	into e confir home down 10 The J trucki portio blowr damag Bibb o 10 The p 10 The p 10 The J trucki portio blowr damag Bibb o 10 The V trucki portio blowr damag Bibb o 10 The J trucki portio blowr damag Bibb o 10 The J trucki portio blowr damag Bibb o 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J trucki j n f 10 The J 10 The J 10 10 The J 10 The J	xtreme southern I hed mainly to nurs and four vehicle and at least two ed trees as well. <b>1740EST</b> fones county Eming industry locat in of the roof and a way. Severaling to the vehicle, county line. <b>1743EST</b> ublic reported diri <b>2300EST</b> Dade county Emilding located near ments, were destring <b>2327EST</b> Valker county 911 <b>2330EST</b>	Monroe cour nerous down es were dam dozen trees ergency Ma ed in Pinesv ripped off ti rees fell dow while another ne size hail. ne size hail. tregency Ma ne size hail. tregency Ma ur Georgia H oyed as well center repo	nty, continuing ned pine trees aged by down were tossed nagement Din ille, about hal ne front doors wn on the pro er tree fell on a anagement Di lighway 136 a	to do dama , a few on h ed trees. O about like to 0 ector report fway betwee of the main perty as wel a pontoon. O 0 rector report t the foot of 0 ail. 0	ge in the omes, a ne four wiggs ir 0 ed that en Gray building 1, causin Other tro 0 0 tred tha 'Lookot 0 0	e Sleepy Creek and G and a few incidents of foot diameter tree w a nother part of the <b>50K</b> strong thunderstorm and Haddock on G g at the industry. A ng damage. A tree f bees and power lines w <b>10K</b> tt lightning struck a	Cross Creek Subdivisions. The damage was of shingles blown off roofs. At least eight as blown right through the bedroom of on subdivision. Two roads were blocked b <b>Thunderstorm Wind</b> In winds caused considerable damage to eorgia Highway 22. The winds removed shed attached to the main building was als ell on a service truck, causing considerable were down in the county, especially near th <b>Hail (0.75)</b> <b>Lightning</b> and completely destroyed a small garage ontents, which included numerous tools an <b>Tstm Wind/Hail</b>

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		Time Local/	Path Length	Path Width	Numb Pers		Estim Dam			November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
GEORGIA, North a	nd Cen	tral								
Walker County										
Kensington	10	2330EST			0	0	2K		Thunderstorm W	Vind
		Walker county En ofs, and a few tre		-	irector repor	ted that a	a small meta	l shed wa	s blown down, a few	shingles were blow
Chattooga County										
Summerville	10	2345EST			0	0	15K		Tstm Wind/Hail	
		Summerville New ge as a result.	s reported t	hat a large tre	e was blowr	down o	nto a campe	r parked a	at a residence. The c	amper suffered majo
Troup County										
Hogansville	11	0036EST			0	0			Tstm Wind/Hail	
	An of	ff duty National W	Veather Serv	vice employee	reported pea	a size hai	1.			
Floyd County										
Countywide	11	0056EST			0	0	17K	_	Thunderstorm V	
									shed were damaged	
		e county, while oximately six to s						moderate	e damage from win	a and downed tree
Murray County	Appro	oximately six to s	even nees v	vere blown do	wii scattereu	about in	le county.			
8 S Spring Place	11	0059EST			0	0			Tstm Wind/Hail	
o o opring r lace		Aurray county 91	1 center ren	orted that one	tree was blo	-	ı		15th White/Han	
Polk County	The F	fulling county 91	r contor rop	oned that one						
Countywide	11	0108EST			0	0	1K		Thunderstorm W	Vind
·	The C	Cedartown Standa	rd newspap	er reported that	at a few trees	were bl	own down a	cross the c		
Haralson County				-					-	
Buchanan	11	0110EST			0	0	1.5K		Lightning	
	was c		thus damage	e to the struc	ture was lin	nited to a	some of the	vinyl sid	ne setting the vinyl si ing. The county ho the facility.	
Bartow County										
3 W Halls to 5 WNW White	11	0135EST	12	100	0	0	1.5M		Tornado (F2)	
	west- just s Sprin speed This evide Cassy suffer destro	east path of dama outh of Halls Sta g Road. The path is of 80 to 100 mp portion of the tor nt along a second <i>r</i> ille. This portior red major structu	age beginnir tion crossin a of damage oh, but there rado had a ary segmen a of the tora tral damage also numer	ng on Barnsley g U.S. Highw , up to 500 ya e was definite path length of t of the damag ndo had a pat e, seven chick rous downed t	y Garden Ro yay 41, then rds wide in s evidence of of 500 yards ge path at the h length of 5 cen houses rees and pow	ad near 1 east acro some are tornadic with a p intersec 00 yards were des ver lines	Barnsley Ga oss Pleasant a, consisted damage of I oath width o tion of Ceda s with a path stroyed, incl	rdens in n Valley Ro mostly of 72 intensit f 100 yard r Creek Ro width of uding 750	gement Director con orthwest Bartow cou oad, to just east of Ir damage caused by st y in an isolated area ds. Tornadic damag oad and Hazel Road 100 yards. Twelve t 00 chickens, and a e damage path. Barto	nty continuing east t nterstate 75 on Crow raight line winds wit on Clear Creek Road e of F1 intensity wa about 3 miles north c o 15 residental home barn was completel
Cherokee County				C	C I					
3 NW Waleska to	11	0148EST	6	100	0	0	1.8M		Tornado (F2)	
7 NE Waleska		0154EST								
	of da Cross	mage, beginning roads on the Pick	near Beasle kens county	ey Gap in nor border. Whi	thwest Cher le much of t	okee cou he dama	unty, then congression in the second se	ontinuing e path was	nager Director observ east-northeast toward s determined as straig do. The most signif	d the town of Worle ght line wind damag

with speeds of at least 70 mph, there was definite indication of a multi-segmented tornado. The most significant tornado damage occurred on Salacoa Road near Beasley Gap, where the tornado damage was classified as F2. The damage path was approximately 627 yards wide at its widest point, but the tornadic portion of this damage was limited to around 100 yards wide. Two homes were completely destroyed, three were severely damaged, and six were moderately damaged. Numerous trees and power lines were down along and near the damage path as well. Some livestock was also killed during the event. Cherokee county was one of five counties declared in a state of emergency by the governor.

SEORGIA, North and C Pickens County 6 SW Tate to 1 2 NE Holcomb T N t t d d h s d d h s d d h s d d h s d d h s d d h s d d h s d d h s d d h s d d h s d d h s d d h s d d h s d d h s d d h s d f f f S T N N Holcomb T N N N S d d h s d d h s d f f f S M T N N S d d h s d f f f S M T N N S d f f f f S M T N S N S M S Holcomb T N S d d h s d f f f f f f f f f f f f f f f f f f	1 The to Nation he pa ust no hrougglefiniti uardess evera Road rea n ogeth lestro vehicl estaun n the lebris uffero Che st uffero that 1 An an 1 Che N	0154EST 0220EST ornado that original Weather Servith caused by stra orth of Tate rough of the Big Canoo te evidence of F2 st hit areas included al homes suffered near Tate, the to near the Dawson near the Dawson are, a total of 26 s yed, and 14 vehi es on which tree rant was complet county occurred if from the restaur ed extensive dam teeple and all of Numerous trees least 6000 peopli ate of emergency 0154EST nateur radio opera	vice disaster aight line w hly paralleli e golf cour 2 tornadic o ded homes l extensive o wwn sufferin county bo structures, i icles were to ses fell. On tely blown a in new mo rant. One o age and wa the windo s were uprod le were left y by the gov	r survey team vinds of at lea ing Georgia H se and recreat lamage just n on Pleasant U damage; the E ng some of the mostly resider totally destroy to of the busin away, includir bile homes be of the children as left in sham ws were lost oted and many without powe vernor.	0 ty near Bea determined st 70 mph. ighway 108, ion area, th orth of Tate nion Road r ethany-Sale e greatest da everal homes tial homes e de In addi nesses destru- ing the 20-foo hind the Baa injured, a 4 bles. The h from the chu power line: o tr for an exter 0 all.	that this of The torna then turn en east of where w are the C m district umage whises were da set were dat by were dat to the the construction to the construction of the construction to	5.6M b, continued into was a multi-segm ado entered the co- hed more eastward f Big Canoe into inds were estimat Cherokee county b t where at least 56 here several home lamaged and the royed, 142 structu people were injur the popular Dav olumns that stood staurant when the l girl, was found l g Canoe chapel w g with other structure maged along the p	Character of Storm Tornado (F2) and across Pickens coum- nented tornado, with much ounty southwest of Cagle, d along Georgia Highway 5 o extreme western Dawson ted in the 113 to 157 mph porder; the Mountain Lake 6 structures were damaged es and business were destru- tennis center suffered ext ures were partially damaged vis's Barbeque on Georgia 1 in front of the restaurant. bir homes were flattened by by a nearby pond. The Re- vas also among the structure cural damage to both the path. Thirty people had to nty was the hardest hit of f Hail (0.75) Thunderstorm W	of the damage alon then continued on t 53 to near Marblehil a county. There wa a range. Some of th es Estates area, when or destroyed; Refug royed; the Big Cano tensive damage. A ed, 2 businesses wer homes or trapped in thighway 108. Th Three of the injurie y the winds and othe efuge Baptist Church res suffering damage e exterior and interior o be put up in shelter five counties declare
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2 NE Holcomb T N tt ju ju tt d d h s c R R a a a tt d d v v r e ir ir d d v v v r e ir ir ir f r f r f r f r f r f f r f f f f	The total action of the part o	0220EST ornado that original Weather Servith caused by stra orth of Tate rough gh the Big Canoo te evidence of F2 st hit areas include al homes suffered near Tate, the to bear the Dawson er, a total of 26 s yed, and 14 vehi es on which tree rant was complet county occurred if from the restaur ed extensive dam teeple and all of Numerous trees least 6000 peopl ate of emergency 0154EST nateur radio opera 0200EST	inated in C vice disaster aight line w hly paralleli e golf cour 2 tornadic d ded homes 4 extensive of work sufferin county bo structures, r icles were to es fell. On tely blown a in new mo rant. One c age and wa the windo s were uprov le were left y by the gov ator reporte	Cherokee cour r survey team vinds of at lea ing Georgia H se and recreat damage just n on Pleasant U damage; the E ng some of the rder, where s mostly resider totally destroy te of the busin away, includir bile homes be of the children as left in sham ws were lost toted and many without power remor.	ty near Bea determined st 70 mph. ighway 108, ion area, th orth of Tate nion Road r ethany-Sale e greatest da everal home tial homes ed. In addi nesses destru- g the 20-foo hind the Baa injured, a 4 bles. The h from the chu power lines er for an exter 0 uil.	asley Gap that this v The torna then turn en east o where w hear the C m district m district tion, ten byed was t white co theque res t-year old istoric Bij urch alon s were dast ended per	b, continued into was a multi-segm ado entered the co- led more eastward f Big Canoe into inds were estimat Cherokee county b t where at least 56 here several home lamaged and the royed, 142 structu people were injur the popular Dav olumns that stood staurant when the I girl, was found I g Canoe chapel w g with other structu maged along the p iod. Pickens court	and across Pickens count nented tornado, with much ounty southwest of Cagle, d along Georgia Highway 5 o extreme western Dawson ted in the 113 to 157 mph oorder; the Mountain Lake 5 structures were damaged es and business were destr tennis center suffered ext ures were partially damaged red, primarily in damaged vis's Barbeque on Georgia d in front of the restaurant. Sir homes were flattened by by a nearby pond. The Re vas also among the structur ctural damage to both the path. Thirty people had to nty was the hardest hit of f	of the damage alon then continued on t 53 to near Marblehil a county. There wa a range. Some of th es Estates area, when or destroyed; Refug royed; the Big Cano tensive damage. A ed, 2 businesses wer homes or trapped in thighway 108. Th Three of the injurie y the winds and othe efuge Baptist Church res suffering damage e exterior and interior o be put up in shelter five counties declare
T N S S S S S S S S S S S S S S S S S S	Vatior he pa ust no hroug lefinit ardess evera Road rea n ogeth lestro vehicl estaum n the lebris uffer che st valls. <b>1</b> An arr <b>1</b> Che N	ornado that original Weather Servith caused by stratering of the Big Canoo te evidence of F2 st hit areas included in the Big Canoo te evidence of F2 st hit areas included in the Big Canoo te evidence of F2 st hit areas included in the Big Canoo te evidence of F2 st hit areas included in the Big Canoo te evidence of F2 st hit areas included in the Big Canoo te evidence of F2 st hit areas included in the state of the Dawson ter, a total of 26 st yed, and 14 vehi es on which tree rant was complet county occurred county occurred and all of Numerous trees is least 6000 peoplate of emergency <b>0154EST</b> nateur radio operator <b>0200EST</b> Sews Observer of the service o	vice disaster aight line w hly paralleli e golf cour 2 tornadic o ded homes l extensive o wwn sufferin county bo structures, i icles were to ses fell. On tely blown a in new mo rant. One o age and wa the windo s were uprod le were left y by the gov	r survey team vinds of at lea ing Georgia H se and recreat lamage just n on Pleasant U damage; the E ng some of the mostly resider totally destroy to of the busin away, includir bile homes be of the children as left in sham ws were lost oted and many without powe vernor.	determined st 70 mph. ighway 108, ion area, th orth of Tate nion Road r ethany-Sale e greatest da e greatest da everal homes ded. In addi nesses destru- g the 20-foo hind the Bai injured, a 4 bles. The h from the chu p power lines er for an exter 0 uil.	that this y The torna then turn en east o where w mear the C m district umage whis se were dat set were dat ton, ten byged was ot white ca beque res l-year old istoric Big urch alon s were dat ended per	was a multi-segm ado entered the co- hed more eastward f Big Canoe into inds were estimat Cherokee county be twhere at least 566 here several home lamaged and the royed, 142 structu people were injur the popular Dav olumns that stood staurant when the l girl, was found l g Canoe chapel w g with other structure maged along the p iod. Pickens court	hented tornado, with much ounty southwest of Cagle, d along Georgia Highway 5 o extreme western Dawson ted in the 113 to 157 mph border; the Mountain Lake 6 structures were damaged es and business were destr tennis center suffered ext ures were partially damage red, primarily in damaged vis's Barbeque on Georgia 1 in front of the restaurant. eir homes were flattened by by a nearby pond. The Re vas also among the structur ctural damage to both the path. Thirty people had to nty was the hardest hit of f Hail (0.75)	of the damage alon then continued on t 53 to near Marblehil a county. There wa a range. Some of th es Estates area, when or destroyed; Refug royed; the Big Cano tensive damage. A ed, 2 businesses wer homes or trapped in thighway 108. Th Three of the injurie y the winds and othe efuge Baptist Church res suffering damage e exterior and interior o be put up in shelter five counties declare
N th ju ju d d A R au tc R au tc v v re ir au tc v v v re ir T Polk County Rockmart 1 Fannin County Blue Ridge 1 T tr Bartow County Cartersville 1 T Dawson County	Vatior he pa ust no hroug lefinit ardess evera Road rea n ogeth lestro vehicl estaum n the lebris uffer che st valls. <b>1</b> An arr <b>1</b> Che N	nal Weather Serv th caused by stra orth of Tate rough the Big Canoo te evidence of F st hit areas include a near Tate, the to hear the Dawson her, a total of 26 s yed, and 14 vehi es on which tree rant was complet county occurred from the restaur ed extensive dam teeple and all of Numerous trees least 6000 peopl ate of emergency 0154EST nateur radio opera	vice disaster aight line w hly paralleli e golf cour 2 tornadic o ded homes l extensive o wwn sufferin county bo structures, i icles were to ses fell. On tely blown a in new mo rant. One o age and wa the windo s were uprod le were left y by the gov	r survey team vinds of at lea ing Georgia H se and recreat lamage just n on Pleasant U damage; the E ng some of the mostly resider totally destroy to of the busin away, includir bile homes be of the children as left in sham ws were lost oted and many without powe vernor.	determined st 70 mph. ighway 108, ion area, th orth of Tate nion Road r ethany-Sale e greatest da e greatest da everal homes ded. In addi nesses destru- g the 20-foo hind the Bai injured, a 4 bles. The h from the chu p power lines er for an exter 0 uil.	that this y The torna then turn en east o where w mear the C m district umage whis se were dat set were dat ton, ten byged was ot white ca beque res l-year old istoric Big urch alon s were dat ended per	was a multi-segm ado entered the co- hed more eastward f Big Canoe into inds were estimat Cherokee county be twhere at least 566 here several home lamaged and the royed, 142 structu people were injur the popular Dav olumns that stood staurant when the l girl, was found l g Canoe chapel w g with other structure maged along the p iod. Pickens court	hented tornado, with much ounty southwest of Cagle, d along Georgia Highway 5 o extreme western Dawson ted in the 113 to 157 mph border; the Mountain Lake 6 structures were damaged es and business were destr tennis center suffered ext ures were partially damage red, primarily in damaged vis's Barbeque on Georgia 1 in front of the restaurant. eir homes were flattened by by a nearby pond. The Re vas also among the structur ctural damage to both the path. Thirty people had to nty was the hardest hit of f Hail (0.75)	of the damage alon then continued on t 53 to near Marblehil a county. There wa a range. Some of th es Estates area, when or destroyed; Refug royed; the Big Cano tensive damage. A ed, 2 businesses wer homes or trapped in thighway 108. Th Three of the injurie y the winds and othe efuge Baptist Church res suffering damage e exterior and interior o be put up in shelter five counties declare
ir Polk County Rockmart 1 A Fannin County Blue Ridge 1 T tr Bartow County Cartersville 1 T Dawson County	n a sta 1 An am 1 The N	ate of emergency 0154EST nateur radio opera 0200EST Jews Observer of	y by the gov ator reporte f Blue Ridg	vernor. Ind dime size ha	0 ıil. O	0		Hail (0.75)	7ind (G52)
Polk County Rockmart 1 A Fannin County Blue Ridge 1 T tr Bartow County Cartersville 1 T Dawson County	1 An an 1 The N	0154EST nateur radio opera 0200EST Jews Observer of	ator reporte f Blue Ridg	ed dime size ha	uil. 0	0	30K		. ,
Rockmart 1 A Fannin County Blue Ridge 1 T tr Bartow County Cartersville 1 T Dawson County	An am 1 The N	nateur radio opera 0200EST News Observer of	f Blue Rid	ge reported th	uil. 0	0	30K		. ,
A Fannin County Blue Ridge 1 T tr O Bartow County Cartersville 1 T Dawson County	An am 1 The N	nateur radio opera 0200EST News Observer of	f Blue Rid	ge reported th	uil. 0	0	30K		. ,
Fannin County Blue Ridge 1 T tr O Bartow County Cartersville 1 T Dawson County	1 The N	0200EST Jews Observer of	f Blue Rid	ge reported th	0		30K	Thunderstorm W	. ,
Blue Ridge 1 T T Bartow County Cartersville 1 T Dawson County	The N	lews Observer of			0 at a large p		30K	Thunderstorm W	. ,
Bartow County Cartersville 1 T Dawson County	of a fr	ont porch. Wind		-	ficant dama	ge. At an	other residence, 1	p trucks at a residence in large tree limbs fell on and	
T Dawson County		1			1 2				
Dawson County	1	0213EST			0	0		Hail (0.75)	
v	The B	artow county 91	1 center rep	orted dime siz	e hail.				
o w Dawsonvine 1	1	0215EST			0	0	250K	Lightning	
т			d Advertise	er reported the				Lightning nomes in extreme western	Dawson county neg
								ilt. A vehicle also suffered	
0	one of	f the residences.	In addition	n, one family l	ost one of th	eir pets ir	n the fire.		
Dawson County									
	1	0220EST	3	100	0	3	200K	Tornado (F2)	
au b th m re so	cross before he str nobile eceiv	Pickens county, e dissipating. Tw uctures. While t e homes as the r red minor damag roads were temp	r, entered D vo double-v the contents residents w ge in the Bi	Dawson county vide mobile has s of one were vere trapped b g Canoe area	in the Big omes were c salvagable, t y the downed Numerous	Canoe a completely those of the ed trees of trees and	rea and continued y destroyed just e he other were des on the structure. d power lines we	at originated in Cherokee of to just east-northeast of east of the Big Canoe area stroyed. Three injuries occ In addition, there were for ere blown down in the are pounties declared in a state	f the Big Canoe are as large trees fell o curred at one of thes our other homes that a of the tornado an
Haralson County	,5,011								
-	1	0230EST			0	0		Tstm Wind/Hail	
			Emergency I	Management I			a tree was blown		
Lumpkin County		5		-	1				
	1	0240EST			0	0	2K	Thunderstorm W	ind
	The L	umpkin county E	Emergency	Management 1	Director repo	orted that	several trees were	e blown down.	
Cherokee County									
Canton to 1 Woodstock	1	0244EST 0249EST			0	0		Hail (1.00)	

	Stor	m Data	a and	Unus	ual W	Veat	her Phe	enomena	
		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November	2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crop	s Character of Storm	
GEORGIA, North	and Cen	<u>itral</u>							
Cobb County					0	•	<b>A</b> 17		
Acworth	11 The (	0247EST Tobb county 911	center repor	ted that some	0 trees and po	0 wer lines	2K were blown down	Thunderstorm Wind	
White County	1110 (	2000 <b>c</b> ounty 911	eenner repor	lieu inue sonne	arees and po				
Countywide	11	0250EST 0315EST			0	0	5K	Thunderstorm Wind	
		White county Er here was also so				d that se	veral trees were bl	own down in scattered areas about the c	count
Cobb County	and u	nere was also so	ine mnor su	ucturar uamag	30.				
Lost Mtn to	11	0255EST			0	0		Hail (1.00)	
Marietta		0328EST							
Formerth Conneter		1					ublic in the Mariet lear the Paulding co	ta area. The public also reported quarte punty border.	er size
Forsyth County 3 N Coal Mtn	11	0300EST 0320EST			0	0	2K	Thunderstorm Wind	
				Management	Director repo	orted that	t a few trees were	blown down in the far northern part	of the
Forsyth County									
Cumming	11	0305EST		1		0		Tstm Wind/Hail	
Hall County	A spo	otter for Channe	16 I V OF Atl	anta reported	pea size hail.				
Gainesville	11	0320EST			0	0		Tstm Wind/Hail	
	The H	Hall county Eme	ergency Mana	agement Direc	tor reported	pea size ł	nail.		
Gwinnett County Duluth to	11	0327EST			0	0	15K	Thunderstorm Wind	
Lilburn	The A front Boule	0347EST Atlanta Journal- porch of the re	esidence. Se by a storm sp	everal other tr potter. Severa	rees were rep al thousand r	orted do	own across the cou	e causing considerable damage to the roo anty, including some on Peachtree Inde without power much of the night and	ustria
Fulton County									
Alpharetta	11 The F	0339EST Fulton county 91	1 center ren	orted dime siz	0 a hail	0		Hail (0.75)	
Barrow County	The I	anon county 91	i center rept		c nan.				
Winder	11	0345EST			0	0	15K	Lightning	
								something in the house to smoke, promp as believed to be lightning related as we	
Fulton County 6 N Atlanta	11	0346EST			0	0	30K	Thunderstorm Wind	
0 IV Atlanta	The F areas feet, I	Fulton county En . The Alpharett literally destroy	ta/Roswell N ed a 150-yea	eighbor news r old two-stor	rector reporte paper reporte y barn at the	d that se d that a historic	veral trees were ble large oak tree, cov 1845 Smith Planta	ering an area of approximately 20 feet tion in the historic Roswell District. Th s considered a total loss.	by 20
<b>Gwinnett</b> County		Ĩ	-	5					
Duluth	11	0347EST	- Cl337	NT - 4 1	0	0		Hail (0.75)	
Hall County	A sto	rm spotter for th	е sкуwarn I	Network repoi	tied dime size	e nati.			
Countywide	miles the co Atlan	east of Gainesv ounty. The Tin	rille. The hounes newspape hich brought	use and most of er of Gainesv down four sp	of the chicken ille reported pans of electr	ns were d that a ve	lestroyed. Trees w ery large oak tree	Thunderstorm Wind own down on Joe Chandeler Road abou ere also blown down in scattered areas a was blown down behind Continental T re were a number of power outages rep	around ire or
Banks County	20103		01 4000	in on pow					
6 E Homer	<b>11</b> The p	0410EST oublic reported s	treet flooding	<u>.</u>	0	0		Urban/Sml Stream Fld	

		Time	Path	Path	Numb	er of	Estimated	X7 1
		Local/	Length	Width	Pers		Damage	November
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property C	Crops Character of Storm
GEORGIA, North	and Cen	tral						
Banks County								
Countywide	Home		the yard of					<b>Thunderstorm Wind</b> off a barn located on U.S. Highway 441 In addition, there were trees down in sca
Fayette County								
1 NW Brooks		0415EST Fayette county E ng considerable		-	0 Pirector repor	0 ted that	50K thunderstorm w	Tstm Wind/Hail inds blew a tree down on a house in Fayett
Fayette County		8						
Brooks	<b>11</b> The F dama		Emergency M	lanager repor	0 ted that light	0 ning stru	<b>2K</b> ick a home in F	Lightning ayetteville on Doe Hollow Trace, causing
Jasper County		e						
Farrar	<b>11</b> The J	0430EST asper county En	nergency Mar	nagement Dir	0 ector reported	0 1 golf ba	ll size hail.	Hail (1.75)
Morgan County		1	0	e		e		
Rutledge to Godfrey	11	0430EST 0500EST			0	0	5K	Thunderstorm Wind
								he south part of the county between Rut
	Penni	ington, and God	frey. At least	20 trees wer	e reported to	have bee	en blown down i	n the Rutledge vicinity alone.
Jasper County Farrar	11	0445EST			0	0	7K	Thunderstorm Wind
			nergency Ma	nagement Dir	-			d power lines were down at Farrar.
Morgan County								
Madison	11	0445EST			. 0	0		Hail (0.75)
C	The N	Aorgan county H	Emergency M	anagement D	irector report	ed dime	size hail.	
Gwinnett County Duluth	11	0446EST			0	0		
Duluth	11 The r	oublic reported s	ome street flo	oding on No	0 rth Hill Road	0		Urban/Sml Stream Fld
Greene County	rne p	done reported s	onic succi ne	Journg on No	iui iiii Koau	•		
Greensboro		•	0,	0	1		<b>100K</b> extensive wind o	Thunderstorm Wind lamage occurred to a school. The roof sust
Norman Corretor	signif	ïcant damage ar	nd the gymna	sium suffered	extensive da	mage.		
Newton County	11	0500587			0	0	2017	Thursdorstorm Wind
Countywide	11 A No	0500EST 0515EST tional Weather	Comvine dome		0 d the Newton	0	30K	Thunderstorm Wind
	and so lines Georg block Aroun	ome power lines were down acro gia Highway 36 ed a road to a l	s were down oss the county A tree fell of Future Farme e were witho	on Henderson y, but primar on a mobile h rs of Americ ut power dur	n Mill Road. ily in the are ome in a mo a camp just ing the heigh	The Ro as from bile hom off Geor	ckdale Citizen n Covington sout le park on Georg gia Highway 36	anagement Director determined that several ewspaper reported that scattered trees and p h to High Point near Georgia Highway 14 gia Highway 142 near Covington and a larg 5. Several electric meters were torn off h nundred people were left without power we
Henry County								
Locust Grove	11	0501EST			0	0	75K	Thunderstorm Wind
								onough reported that numerous trees and popoly and in the Locust Grove area. This

The Henry county Emergency Management Director and the Daily Herald of McDonough reported that numerous trees and power lines were blown down across the county, particularly in the central areas east of McDonough and in the Locust Grove area. This was confirmed by a National Weather Service disaster survey. Georgia Highway 42 in Locust Grove and East Knight Road northeast of McDonough were both blocked for several hours because of downed trees. Several roads were blocked in the Lake Dow area, where a tree also fell on a home, damaging the front porch, and crushing two vehicles.

S	tor	m Data	and	Unus	ual W	eat	her Phei	nomena
		Time Local/	Path Length	Path Width	Number Persons		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed In	jured	Property Crops	Character of Storm
GEORGIA, North an	d Cen	<u>itral</u>						
Butts County	11	0 <b>515</b> 50T			٥	1	45012	There denotes the d
Jenkinsburg	dama dama fell o only 100 y Stree Sever was i	ge occurred to f ge was the resul n the city's new suffered substant years. These tre t, one of the mos ral residents of the	ive homes and t of downed dump truck tial property es were upr t historic struct the apartment and had to	nd two apartn trees. on the s causing dama loses, but also ooted and blo cets in Jenkins buildings had be taken to a	nent buildings. structures. Nur ge. The Jackso o lost some of wwn down on H sburg. Most of I to be moved local hospital.	Two of merous on Prog its most nomes, the sto to temp Sever	of the structures had trees and several puress Argus newspart prized hardwood t barns (including a rm damage occurre- porary shelters. One	Thunderstorm Wind son Progress Argus, reported that extensive d the roofs removed. However, most of the ower lines were also blown down. One tree per reported that the city of Jenkinsburg not rrees that had graced the city streets for over one year-old workshop) up and down Oak d within a one mile square area within town. e eight year-old girl at the Miller apartments pruises and scratches from the storm debris.
Wilkes County	11	0520ECT			٥	•	1017	
Rayle to Tignall	11	0520EST 0530EST			0	0	10K	Thunderstorm Wind
-				the roof of a	home was part	ially da	maged by thunderst	torms winds in Rayle and that approximately
<b>Rockdale County</b>								
6 NE Conyers							250K lightning struck a ho and all of its content	Lightning ome in the northeast part of Rockdale county
Newton County	on m	ightower fran.	the resulting	The complete	iy destroyed in	e nome	and an of its conten	
Covington		0545EST Rockdale Citizen ainage systems.	reported that	t there was so	0 me street flood	<b>0</b> ling in t	he Covington area	Urban/Sml Stream Fld during the thunderstorms because of stopped
Morgan County	-r							
Madison		0547EST Morgan county H ust south of the c						Thunderstorm Wind power lines were blown down in, just west,
Oglethorpe County								
Lexington	11 The (	0548EST			0 • D:	0		Hail (0.75)
Wilkes County	The	Oglethorpe count	y Emergency	vianagemen	t Director repo	ned din	në sizë nan.	
2 W Washington to 2 N Washington	11	0600EST			0	0	115K	Thunderstorm Wind
	home powe	e west of Washir	gton suffere o down in th	d significant ne area. Geo	damage. A thi rgia Highway	rd hom 17, Tig	e in Washington su	n of Washington was destroyed and another affered minor damage. Numerous trees and mpletely blocked north of Washington. In
Oglethorpe County Maxeys	11	0615EST			0	0	5K	Thunderstorm Wind
·			y 911 center	reported that			s were blown down	
Rockdale County								
8 SW Conyers		0701EST Rockdale county The fire caused of	0,	0 1	0	0 ning sti	40K ruck a home in sou	Lightning thwest Rockdale county setting the attic on
GEORGIA, Northeas				8				
GAZ017>018-026		ersham - Step 1000EST	hens - Fra	nklin	0	0		High Wind (G50)
	Hick	2000EST	old fromt on	seed assume another	a tuana ta falla.	anaaa th	a faathilla and norti	ions of the mountains of northeast Coordia
Habersham County Clarkesville	11	0250EST		used numerou	0	0	le roounns and port	ions of the mountains of northeast Georgia. Thunderstorm Wind (G50)
	A fev	v trees were blov	vn down.					
Rabun County Clayton	11 A for	0250EST	or polo more	blown down	0	0		Thunderstorm Wind (G50)
Franklin County Countywide	11	v trees and a pow 0420EST			0	0		Thunderstorm Wind (G50)
	Num	erous trees were	blown down	across the co	unty.			

		Time Local/	Path Length	Path Width	Number		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)		Injured	Property Crops	Character of Storm
GEORGIA, Northeas	<u>t</u>							
Hart County								
Hartwell	11 A trace	0445EST	ing mars 11.	m dam-	0	0	1K	Thunderstorm Wind (G50)
Elbert County	A tree	anu a power	line were blow	n uown.				
Elberton	11	0635EST			0	0		Thunderstorm Wind (G55)
	Nume	rous trees wer	e blown down					
Elbert County	11	A <b>C27</b> EQT			0	0		
13 SE Elberton	11 Nume	0637EST rous trees wer	e blown down	at the Bobby	U Brown State	0 Park		Thunderstorm Wind (G55)
GEORGIA, Southeast			e olo nil do nil	at the Boool	Diowin Danie			
Bryan County	-							
3 SW Ellabell	06	0115EST			0	0		Thunderstorm Wind (G50)
Chatham County	Severa	al trees were d	own.					
Chatham County 1 SW Bloomingdale	06	0130EST			0	0		Thunderstorm Wind (G50)
15W Dissininguate			ge limbs were	down.	0	Ū		Thunderstorm (Coo)
Mcintosh County			-					
2 N Jones	06	0515EST			0	0		Thunderstorm Wind (G50)
<b>Bulloch County</b>	Severa	al trees and lar	ge limbs were	down.				
Brooklet	11	1340EST			0	0		Thunderstorm Wind (G50)
	Severa	al trees, large	limbs, and pov	ver lines were	e down.			
Bryan County								
8 E Pembroke	11 Savar	1350EST al trees were d			0	0		Thunderstorm Wind (G50)
<b>GEORGIA</b> , Southwes		a trees were d	own.					
Miller County								
10 S Colquitt	11	1715EST			0	0		Hail (1.00)
	Quarte	er size hail rep	orted by the N	filler County	EMA.			
Colquitt County Norman Park	11	2127EST			0	0		Hail (0.75)
Norman Park			ted by the pub	olic.	U	U		Hail (0.75)
Mitchell County		r	···· · · · · · · · · · · · · · · · · ·					
10 E Camilla	12	0300EST			0	0	50K	Thunderstorm Wind
					op on a farm	located	along State Road 37	near the Mitchell-Colquitt County line.
Mitchell County	Repor	ted by the Cal	nilla Enterpris	e.				
Pelham	12	0600EST			0	0	20K	Lightning
	Lightr	ning struck the	roof of a hom	e, and severe	ely damaged th	e attic a	nd adjacent bedroom.	Reported by the Pelham Journal.
Mitchell County	10	0<00EGT			0	•		<b></b>
Camilla	12 Lightr	0600EST	damaged the	roof of a Ca	<b>U</b> milla church	0 Reported	25K d by the Camilla Enterr	Lightning
<b>GULF OF MEXICO</b>	Light	ing struck and	i damaged the	1001 01 a Ca	inna chuich.	Reported	i by the Camina Enterp	113C.
Sw Pass Of The Ms R								
To Atchafalaya R La								
Out 20Nm	~-				<u>^</u>			
20 S Venice Pascagoula Ms To Sw	05	1154CST			0	0		Marine Tstm Wind
Pass Of Ms R Out								
20Nm								
22 SSE Biloxi	05	1232CST			0	0		Marine Tstm Wind
Mobile Bay						-		
Alabama Port to Point Clear	05	1235CST 1305CST			0	0		Marine Tstm Wind
Point Clear Pensacola Fl To		1303031						
Pascagoula Ms Out								
20Nm								
Dauphin Island	05	1245CST			0	0		Marine Tstm Wind
		1330CST						

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
GULF OF MEXICO								
Sw Pass Of The Ms R								
To Atchafalaya R La								
Out 20Nm 20 S Venice	05	1253CST			0	0		Marine Tstm Wind
Sw Pass Of The Ms R	03	1255051			U	U		Warme 1stin wind
To Atchafalaya R La								
Out 20Nm								
20 S Venice	05	1302CST			0	0		Marine Tstm Wind
Destin To Pensacola Fl								
Out 20Nm								
Pensacola Beach	05	1510CST 1530CST			0	0		Marine Tstm Wind
Tampa Bay								
Middle Tampa Bay	06 Report	0800EST ed by the PORT	FS marine ob	servation stat	0 tion on the S	0 t. Pete Pie	er	Marine Tstm Wind
Tampa Bay	nepon				ion on the s			
Lower Tampa Bay	06 	0834EST	. 1.40.1		0	0		Marine Tstm Wind
Pascagoula Ms To Sw	Trained	d spotter estima	ited 40 knot v	winds at Apol	lo Beach.			
Pass Of Ms R Out								
20Nm								
22 SSE Biloxi	11	0819CST			0	0		Marine Tstm Wind
Pensacola Fl To								
Pascagoula Ms Out								
20Nm								
Dauphin Island	11	0900CST			0	0		Marine Tstm Wind
Pascagoula Ms To Sw								
Pass Of Ms R Out								
20Nm 22 SSE Biloxi	11	1427CST			0	0		Marine Tstm Wind
Pascagoula Ms To Sw	11	142/051			U	U		Warme 1stin wind
Pass Of Ms R 20 To								
60Nm								
45 E Venice	11	1446CST			0	0		Marine Tstm Wind
Sw Pass Of The Ms R								
To Atchafalaya R La								
Out 20Nm								
20 S Venice	11	2249CST			0	0		Marine Tstm Wind
Pascagoula Ms To Sw								
Pass Of Ms R 20 To								
60Nm 45 E Venice	10	0004057			0	0		Marine Tstm Wind
Key W To Dry	12	0006CST			0	0		Marine Isun wind
Tortugas Waters								
8 SE Boca Grande	13	0747EST			0	0		Marine Tstm Wind
		gust 38 knots (4	5 mph) recor	ded by Sand	Key CMAN			
W End Of The 7 Mile Bridge To Key W Out				-				
20Nm								
6 SE Key West	13	0747EST			0	0		Marine Tstm Wind
		gust 38 knots (4	4 mph) recor	rded at Sand	Key CMAN			
Key W To Dry		×.	- 1		-			
Tortugas Waters								
8 SE Boca Grande	13	0821EST	0 1	11.0	0	0		Marine Tstm Wind
	Wind g	gust 35 knots (4	U mph) recor	rded at Sand	key CMAN	station.		

		Time	Path	Path	Number of	Estimated	N. 1	
Location	Date	Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injure	Damage	November 200 s Character of Storm	J2
	Dute	Sundard	(inites)	(Turus)	Tuneu Injure	a riopony crop		-
GULF OF MEXICO W End Of The 7 Mile Bridge To Key W Out 20Nm 6 SW Key West	13	0821EST			0 0		Marine Tstm Wind	
0 SW Key West			40 mph) recor	rded at Sand	Key CMAN station	n.	Warme Isun wind	
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm								
Bridge Out 20Nm 6 S Marathon	13 Wind	<b>0850EST</b> gust 37 knots (4	43 mph) reco	rded at Somb	00 rero Key CMAN s	tation.	Marine Tstm Wind	
Florida Bay 7 NE Duck Key	13	0851EST			0 0		Marine Tstm Wind	
Ocean Reef To Craig Key Fl Out 20Nm	Wind g	gust 34 knots (3	39 mph) recoi	ded at Long	Key CMAN station	n.		
7 S Key Largo	13 Wind g	<b>0921EST</b> gust 39 knots (4	15 mph) recon	rded at Molas	0 0 sses Reef CMAN s	tation.	Marine Tstm Wind	
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm 6 ENE Duck Key	13	1518EST			0 0		Waterspout	
			by storm spo	tter 1 mile so	uthwest of Long K	ey	······································	
Key W To Dry Tortugas Waters								
Dry Tortugas	<b>16</b> Wind g	1355EST gust 34 knots (3	39 mph) recor	rded at Dry T	0 0 ortugas CMAN sta	ation	Marine Tstm Wind	
Chokoloskee To Bonita Beach Fl 20 To 60Nm 22 ESE Marco Island	<b>16</b> The Fy	1701EST		cerved a win	<b>0 0</b>	ine of thunderstorms	Marine Tstm Wind	
Key W To Dry	The E	verglades eity i		served a win				
Tortugas Waters 8 SE Boca Grande	<b>16</b> Wind s	<b>1949EST</b> gust 42 knots (4	48 mph) recor	rded at Sand	00 Key CMAN station	n	Marine Tstm Wind	
W End Of The 7 Mile Bridge To Key W Out 20Nm	·	<i>.</i>	1 /		2			
6 SW Key West	<b>16</b> Wind g	<b>1949EST</b> gust 42 knots (4	48 mph) recor	ded at Sand	0 0 Key CMAN station	n	Marine Tstm Wind	
Gulf Side Of The Lower Keys Out 20Nm								
6 E Key West	16 Wind	2020EST gust 34 knots (3	39 mph) recor	ded at Key V	0 0 Vest Naval Air Stat	tion	Marine Tstm Wind	
W End Of The 7 Mile Bridge To Key W Out 20Nm		-	•	·				
6 E Key West	<b>16</b> Wind s	2020EST gust 34 knots (3	39 mph) recor	ded at Kev V	00 Vest Naval Air Stat	tion	Marine Tstm Wind	
Key W To Dry		8	.,	·····				
Tortugas Waters 8 SE Boca Grande	16 Wind	2052EST	<b>5</b> mmh) maaa	dad at Cand	0 0 Kay CMAN station		Marine Tstm Wind	
W End Of The 7 Mile Bridge To Key W Out 20Nm	wind	gust 48 knots (:	55 mpn) recoi	ued at Sand	Key CMAN station	1		
6 SW Key West	<b>16</b> Wind g	2052EST gust 48 knots (S	55 mph) recor	rded at Sand	0 0 Key CMAN station	n	Marine Tstm Wind	

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	Novem	ber 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
GULF OF MEXICO Craig Key To The W End Of The 7 Mile Bridge Out 20Nm									
7 S Marathon to 6 S Marathon	16	2151EST			0	0		Marine Tstm Wind	
0 S Waration	Wind	gust 58 knots (6	7 mph) reco	rded at Somb	rero Key CM	IAN stati	on		
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm		-	1 /					<b>.</b>	
7 S Marathon	16 Wind	2201EST gust 59 knots (6	8 mph) reco	rded at Somb	0 rero Kev CN	0 IAN stati	on	Marine Tstm Wind	
Florida Bay		gust by mious (o	o inpii) 1000	lucu ut bonno					
7 NE Duck Key	16	2236EST			0	0		Marine Tstm Wind	
Occar Deef To Croig	Wind	gust 38 knots (4	4 mph) reco	rded at Long	Key CMAN	station			
Ocean Reef To Craig Key Fl Out 20Nm									
7 S Key Largo	16	2330EST			0	0		Marine Tstm Wind	
	Wind	gust 45 knots (5	2 mph) reco	rded at Molas	ses Reef CM	IAN stati	on		
HAWAII									
HIZ001	Kaua 15	ui 0800HST			1	0		Strong Wind	
			nph. associa	ted with a she			gh the isle of Kauai. w	Strong Wind ere strong enough to snap off t	the top of
	cocon	ut tree on the V						as struck by the falling debris	
		d. M61GF	• • • • •		<b>XX</b> 7 4 <b>XX</b>	•• •			
HIZ001>003-005>007	Kaua 20	u - Oahu - Ma 0800HST	aui - Molo	kai - Lanai	- West Ha	wan Ind 0	cluding Leeward K	ohala And Kona High Surf	
	20	0600HST			U	U		riigii Suri	
								long the northwest-facing shore	es of all th
HIZ001>007		iian Islands. Th		*				ahala / Hamalma / Hila	/ Dune
1112/001/2007		h - Oanu - F kai - Lanai -					-	ohala / Hamakua / Hilo	/ Pulla
	23	0500HST	West Haw	an menuun	lg Leewarv 0	1	a Anu Kona	High Surf	
	24	1000HST						C	
	island: No sei	s. One surfer, k rious property da	mocked off l amage was r	his board by heported, howe	nigh surf, wa ever.	s injured	at Hapuna Beach in S	vise through north-facing shore outh Kohala on the Big Island	of Hawa
HIZ001>007								ohala / Hamakua / Hilo	/ Puna
	Molo 25	kai - Lanai - 0500HST	West Haw	aii Includir	ng Leeward 0	d Kohal 0	a And Kona	High Surf	
	23 27	2000HST			U	U		Ingli Sull	
	the Ha	•	The danger					ockwise through north-facing sl Oahu, but there were no reports	
HIZ001>007	Kaua		Maui - No					ohala / Hamakua / Hilo	/ Puna
	29 20	0200HST			0	0		High Surf	
	30 A stor	2000HST rm low north of	Hawaii cer	nerated surf o	f 10 to 25 f	eet along	the northwest- and n	orth-facing shores of all the is	slands N
		s injuries or pro	U			cor aiong	, are northwest and n	star ruening shores of an the f	
DAHO, Extreme Sou	theast	<u>t</u>							
	NON								
	NONE	E REPORTED.							
DAHO North									
IDAHO, North IDZ005		hern Clearwa	ter Mount	ains					
IDAHO, North IDZ005		hern Clearwa 0000MST	ter Mount	ains	0	0		Winter Storm	

The first of only two winter storm events during the month for western Montana and north central Idaho occurred over this weekend. Snowfall amounts ranged from around one foot in the northwest Montana mountains and the northern Idaho Clearwater Mountains; Elk Butte 10 inches, and Hemlock Butte 13 inches.

		Time Local/	Path Length	Path Width		nber of rsons	Estin Dan		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
IDAHO, North									
IDZ006	South	hern Clearwa	ater Mount	ains					
	23	0400MST			0	0			Winter Storm
	An ar	1600MST ctic cold front 1	moved over t	he continenta	l divide ar	d stalled a	cross south	west Mon	tana. Heavy snows were reported near the
									is of Idaho. Some snow amounts with this
	storm	system in Idaho	o were 6 inch	es at Dixie an	d Savage H	ass.			
IDAHO, Northwest IDZ001-004	Nort	hern Panhan	dla Contr	ol Donhond	lo Mount	aina			
IDZ001-004	08	0000PST	ule - Cellu	ai f ailliallu	le Mount 0	ams 0			Heavy Snow
		2359PST							
									now of the 2002-2003 season finally fell on
									SNOTEL24", Lost Lake SNOTEL20",
		dden Lake SNO		inosquito rue	ge bitte in				
IDZ001-004		hern Panhan	dle - Centr	al Panhand					
	18	0000PST 2359PST			0	0			Heavy Snow
	Heavy		the mountain	s of the Idah	o panhand	le on Nov	ember 18,	generally a	above 4000 feet. Snowfall totals include:
				Bear Moun	tain SNOT	EL10",	Mica Cree	k SNOTE	EL8", Lost Lake SNOTEL8", and the
IDAHO Southoost	Humb	oldt Gulch SNG	OTEL7".						
IDAHO, Southeast IDZ018>019-022>023-	Sawt	ooth Mounts	ins - Unn	er Snake H	liohlands	- South	Central	Highlan	ds - Caribou Highlands - Big And
031		Wood River		ci onake i	inginianus	boutin	central	1116111411	us caribba inginandis Dig rind
	08	0000MST	0		0	0			Winter Storm
	09	1200MST	evetem brou	aht extensive	moisture	nd hoowy a	now amour	te to the r	nountains of southeastern Idaho. SNOTEL
									12 inches at the Stanley Fish Hatchery, 10
	inches	at the Ketchun	n Ranger Stat						• •
IDZ019		er Snake High	hlands		0	0			<b>H</b> G
	09 10	2000MST 1200MST			0	0			Heavy Snow
			v fell in Tetor	n County. 6 i	nches was	reported in	Victor and	11 inches	at Pine Creek Pass at 6,720 feet.
IDZ019		er Snake Higl	hlands						
	23	0100MST 2000MST			0	0			Heavy Snow
	Locall	y heavy snow f	ell in the Upp	oer Snake Hig	hlands with	1 6 inches	reported at 1	Island Parl	k and Driggs.
IDAHO, Southwest				_			-		
ILLINOIS, Central	NONE	E REPORTED.							
Clay County									
Bible Grove	10	1230CST			0	0	0	0	Hail (0.75)
Jasper County									
1 W Newton	10	1245CST			0	0	0	0	Hail (0.75)
ILLINOIS, Northeast									
	NONE	E REPORTED.							
<b>ILLINOIS</b> , Northwest									
ILL INOIS South	NONE	E REPORTED.							
<u>ILLINOIS, South</u> Johnson County									
Goreville	09	2225CST			0	0			Hail (1.00)
Union County									
2 NE Saratoga	<b>09</b>	2345CST		11	0	0	5K	6.4	Thunderstorm Wind (G52)
Johnson County	A few	trees were blow	wn down, and	1 lots of tree b	ranches we	ere down.	i ne diamete	er of the do	owned trees was estimated to be 12 inches.
Goreville to	09	2355CST			0	0			Thunderstorm Wind (G50)
5 NE Goreville									~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	Source	al trees were blo	we down not	- Laka of Ea	unt and Ca				

Several trees were blown down near Lake of Egypt and Goreville.

		Time Local/	Path Length	Path Width	Numb Pers		Estimated	November 2002
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property Crops	Character of Storm
ILLINOIS, South								
Pope County 3 N Eddyville	10	0008CST			0	0		Hail (1.75)
Calletin Country	Golf-t	oall size hail fell on	Illinois R	oute 145 nort	h of Eddyvil	le.		
Gallatin County 3 SW Shawneetown	10	0030CST			0	0		Thunderstorm Wind (G50)
Saline County					-			()
5 SE Harrisburg	10	0030CST			0	0		Thunderstorm Wind (G50)
Hardin County	Trees	were blown down.						
Countywide	10	0040CST			0	0		Thunderstorm Wind (G50)
	Trees	were blown down.						
Gallatin County	10	0125CST			0	0		Flock Flood
Countywide	10	0125CST 0200CST			U	0		Flash Flood
								llatin County for a few hours. Rainfall in
		s of 3 inches in thr Route 1 was near l			Flooding of	many ro	bads was reported, inclu	uding Illinois Route 1. The worst flooding
Pope County	along	Route 1 was near 1	eabouy N	Uau.				
2 N Eddyville	10	0130CST			0	0		Thunderstorm Wind (G50)
In almont Country	Trees	were blown down.						
Jackson County 3 NW De Soto to	10	1332CST	9	100	0	0	4K	Tornado (F0)
5 E Elkville		1340CST						
								damage path. Other damage included tree
Jackson County	tops b	roken on and pow	er poies be	ent. Loose dei	oris such as t	in and pa	aper was blown around	
Elkville	10	1338CST			0	0		Hail (1.00)
Franklin County								
Royalton	10 Golf b	1340CST all size hail was re	norted		0	0		Hail (1.75)
Franklin County	UUII L	an size han was re	poneu.					
1.5 N Royalton to	10	1341CST	0.5	50	0	0	1K	Tornado (F0)
2 NNE Royalton	Λ τυρ	1342CST	some tree	damaga as i	t crossed a	highway	just porth of Poyaltor	n. The tornado was spawned by the same
		cell thunderstorm th						i. The tornado was spawned by the same
Hamilton County	-			-			·	
Mc Leansboro	10	1424CST			0	0		Hail (1.00)
Alexander County Olive Branch	10	1435CST			0	0	2K	Thunderstorm Wind (G50)
onve brunen		trees were down, l	olocking re	oads in and ne				
Pope County					<u>^</u>			
Delwood ILLINOIS, Southwest	10	1446CST			0	0		Hail (0.75)
Clinton County								
Carlyle	10	1210CST			0	0		Flash Flood
	<b>C1</b>	1700CST	,		1 6 .			
		moving thundersto vays 50 and 161 ne				1 on part	ts of Clinton County.	The Clinton County Sheriff reported that
INDIANA, Central	8							
Fountain County								
7 E Attica	10	1245EST			0	0		Thunderstorm Wind (G50)
Montgomery County Waynetown	10	1320EST			0	0		Hail (0.75)
Waynetown	10	1322EST			Ū	U		Hun (0.75)
Vigo County					~	~		
West Terre Haute Vigo County	10	1342EST			0	0		Thunderstorm Wind (G50)
10 NE Terre Haute to	10	1350EST			0	0		Hail (1.00)
Fontanet		1355EST			-	-		

2	Stori	n Data	and	Unus	sual V	veat	ther Phen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Pers Killed		Estimated Damage Property Crops	Character of Storm	November 2002
INDIANA, Central									
Putnam County 8 SW Greencastle	10	1405EST			0	0		Thunderstorm W	7 ind (G50)
Madison County West Elwood to	10	1440EST			0	0		Hail (0.75)	
Elwood Hamilton County		1450EST							
2 N Fishers	10	1500EST 1502EST			0	0		Hail (0.75)	
Hendricks County									
Plainfield	10	1500EST 1501EST			0	0		Hail (0.75)	
Morgan County									
Paragon	10	1507EST 1509EST			0	0		Hail (1.00)	
Marion County									
(Ind)Indnpls Intl Ar	10	1512EST 1513EST			0	0		Hail (1.00)	
Owen County									
Freedom	10	1515EST 1520EST			0	0		Hail (1.75)	
Morgan County 10 NW Martinsville	10	1525EST			0	0		Thunderstorm W	'ind (G50)
Greene County									
Worthington	10	1530EST 1531EST			0	0		Hail (0.75)	
Monroe County									
10 SW Bloomington	10	1530EST			0	0		Thunderstorm W	'ind (G50)
Owen County Freedom	10	1530EST			0	0		Hail (0.75)	
	10	1531EST			Ū	0		Han (0.75)	
Delaware County									
Albany	10	1545EST 1546EST			0	0		Hail (0.75)	
<b>Bartholomew County</b>									
Ogilville	10	1641EST 1642EST			0	0		Hail (0.75)	
Bartholomew County									
Columbus	10	1656EST 1657EST			0	0		Hail (0.75)	
Jackson County									
Brownstown	10	1700EST			0	0		Thunderstorm W	'ind (G50)
Lawrence County									
Needmore			cross Centr	al Indiana du	0 ring the after	0 rnoon pro	oducing numerous din	Thunderstorm W ne size hail reports an	
INDIANA, Northeas	reports								
Blackford County 5 SW Hartford City t	o 10	1430EST	5	100	0	3	250K	Tornado (F1)	
Hartford City	survey		damage al	ong its path	with F1 dam	age to a	then moved into Har supermarket and a mo		
Wells County	-		-						
1 E Petroleum to 1 NE Petroleum	10	1446EST	1	100	0	0	5K	Tornado (F0)	
	This to	ornado touched de	own briefly	in Wells cou	unty just east	of Petrol	eum. An NWS areal s	urvey found F0 dama	ge occurred along a 1

This tornado touched down briefly in Wells county just east of Petroleum. An NWS areal survey found F0 damage occurred along a 1 mile path about 100 yards wide mainly to trees. Two small outbuildings were also damaged.

S	Stor	m Data	a and	Unus	ual W	/eat	her Phen	omena
		Time	Path	Path	Numb		Estimated	November 2002
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Damage Property Crops	Character of Storm
INDIANA, Northeas	<u>t</u>							
Adams County 2 NE Berne to 1 NE Salem	10	1459EST 1505EST	5	200	0	0	125K	Tornado (F3)
	An N		vey found F3	3 damage at t	imes 200 yar	ds wide		before lifting. Auch of the damage was to extremely well
Adams County					0	•		These James Wind
1 N Decatur	10 A trai	1500EST ned spotter repo	orted numero	us trees dowr	0	0 Decatur.	0	Thunderstorm Wind
Grant County 2 S Upland	10 A trai	1517EST ned spotter repo	orted nickel s	ize hail south	0 of Upland	0	0	Hail (0.88)
INDIANA, Northwes		neu spotter repo	fied mekers	ize han south	or optaild.			
	NONI	E REPORTED.						
INDIANA, South Ce								
Dubois County Huntingburg	10	1625EST			0	0		Flash Flood
8 8	Douto	1800EST	4 wore under	water and in	maasihla			
Dubois County	Parts	of State Road 6	4 were under	water and m	ipassible.			
Holland	10	1630EST 1800EST		TT 11 1	0	0		Flash Flood
Dubois County	Water	covered some	roadways nea	ar Holland.				
Ireland	10 Thunc	1635EST lerstorm gusts l	olew down si	x inch diamet	0 ter trees.	0		Thunderstorm Wind (G75)
Washington County Freddricksburg	10	1700EST			0	0	150K	Thunderstorm Wind (G75)
0			took the roof	s off numero	us houses. Ma			e size hail covered the ground.
Washington County New Pekin	10	1712EST			0	0		Thunderstorm Wind (G50)
		were downed.			Ū	Ū		
Harrison County 3 SW Corydon	10	1725EST			0	0		Hail (0.88)
Harrison County	10	1725251			U	0		11an (0.00)
3 S Corydon	10	1725EST			0	0		Thunderstorm Wind (G52) <sup>M</sup>
Crawford County Marengo	10	1730EST			0	0		Thunderstorm Wind (G50)
н. с. (	Trees	were downed.						
Harrison County Lanesville	10	1740EST 1745EST			0	0		Hail (0.75)
Floyd County								
Georgetown Clark County	10	1745EST			0	0		Hail (0.75)
Clarksville	10	1750EST			0	0		Hail (0.88)
Clark County Countywide	<b>10</b> Trees	1750EST were downed in	n Jeffersonvil	lle Clarksvill	0 e. and Charles	0 stown		Thunderstorm Wind (G50)
Clark County Charlestown	10	1755EST		.,	0	0		Hail (0.88)
Harrison County Palmyra	10 The re	1823EST	a harra D	on lin · 1	0	0	15K	Thunderstorm Wind (G60)
	The ro	oof was torn off	a barn. Pow	er lines and so	everal trees w	ere dowr	ied.	

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
INDIANA, Southeast								
Franklin County								
Countywide	10	1640EST 1655EST			0	0	5K	Thunderstorm Wind (G50)
	Trees	were downed ad	cross the cou	nty.				
Wayne County								
Countywide	10	1640EST 1655EST			0	0	5K	Thunderstorm Wind (G50)
	Severa	al trees were do	wned across	the county.				
Fayette County								
Countywide	10	1656EST 1710EST			0	0	5K	Thunderstorm Wind (G50)
	Nume	erous trees were	knocked dov	vn.				
INZ050-058-066- 074>075-080	Way	ne - Fayette -	Franklin -	Dearborn	- Ohio - Sv	vitzerla	nd	
	10	1730EST 2025EST			0	0		Flood
								Indiana and the Whitewater Valley during luced two to locally four inches across the
							ng areas across the reg	
Dearborn County								
Lawrenceburg	10	1815EST 1819EST			0	0	2K	Thunderstorm Wind (G50)
	Severa	al large limbs w	ere blown do	wn.				
Ripley County								
Milan	10	1815EST 1819EST			0	0		Hail (0.75)
Switzerland County								
Vevay	10	1819EST 1823EST			0	0	2K	Thunderstorm Wind (G50)
	Trees	were downed th	roughout tov	vn.				
INDIANA, Southwest								
Posey County								
Wadesville	<b>09</b> A win	2340CST ad gust to 64 MF	PH was meas	ured by a spo	0 tter.	0		Thunderstorm Wind (G56) <sup>M</sup>
Vanderburgh County								
Evansville	10 Some	0010CST trees were blow	n down.		0	0		Thunderstorm Wind (G50)
Warrick County								
Newburgh	10	0035CST			0	0		Thunderstorm Wind (G50)
	Trees	were blown dow	wn.					
Spencer County								
Grandview	10 Trees	0100CST were uprooted.			0	0		Thunderstorm Wind (G50)
Pike County								
Winslow to Velpen	10	1508CST			0	0		Thunderstorm Wind (G50)
	Trees	were blown dow	wn in the Ves	spen and Win	slow areas.			
Spencer County								
Rockport								Thunderstorm Wind (G50) long the Ohio River. Numerous trees were
Vandarburgh Comet	downe	ea from the Owe	ensboro bridg	ge area to Roc	kport. A cou	ple of tre	es fell on houses.	
Vanderburgh County Evansville	10	1548CST			0	0		Flash Flood
	on roa	adways. Floodii	ng was repor					causing flooding of viaducts and low spots Virginia Street viaduct, and on Diamond
IOWA, Central	Avent	ue west of Highv	way 41.					

NONE REPORTED.

St	torm	Data	and	Unus	ual W	eatl	ner Phen	omena	
Location		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Person Killed Ir		Estimated Damage Property Crops	Character of Storm	November 200
IOWA, East Central a	nd Sout	theast							
IOWA, Northeast	NONE R	REPORTED.							
IOWA, Northwest	NONE R	REPORTED.							
IOWA, Southwest	NONE R	REPORTED.							
KANSAS, East KSZ008>012-020>024- 026-034>040-054>056- 058>059	Republic Jefferso Coffey 01 30 After a	on - Ottawa - - Anderson 0001CST 2359CST brief respite fr	Dickinso	on - Geary -	- Morris - W 0 October the d	<b>o</b> 0 19 19 weatl	see - Shawnee - I	Douglas - Lyon - Drought mmer returned in N	tomie - Jackson - Osage - Franklin - Jovember. Although Only 0.03 of an inch
KANSAS, Extreme So	was reco	rded all month a							-
KANSAS, North Cent		REPORTED.							
KANSAS, Northeast	NONE R	REPORTED.							
KANSAS, Northwest	NONE R	REPORTED.							
KANSAS, Southeast	NONE R	REPORTED.							
KANSAS, Southwest	NONE R	REPORTED.							
KENTUCKY, Central Warren County Bowling Green	<u> </u> 10 (	REPORTED. 0220EST d power lines w	ere downed	d by thunders	<b>0</b> torm winds.	0		Thunderstorm V	Vind (G50)
Warren County Plano Logan County	10	0220EST			0	0		Hail (1.00)	
Adairville		0225EST ere downed.			0	0		Thunderstorm V	Vind (G50)
Edmonson County Brownsville		0250EST wer poles were	downed.		0	0		Thunderstorm V	Vind (G70)
Allen County 12 SW Scottsville to 10.8 SW Scottsville	(	0300EST 0302EST	1.5	25	0	0	65K	Tornado (F1)	
Allen County Scottsville	downs w Road, ab	hich were ripp	ed from th	e ground. On	e of the tie d	owns wa		hape. Debris was bl	

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage	No	vember 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
<b>KENTUCKY, Centra</b>	<u>l</u>								
Taylor County									
Campbellsville	10	0345EST			0	0		Hail (0.75)	
Mercer County	10	0400507			0	0	2017		
Burgin	10 Nume	0420EST	phone poles y	vere blown do	0 wn near Hio	0 hway 152	30K and Kennedy Bridge	Thunderstorm Wind ( Road. A roof was ripped of	
Mercer County	INUIIC	lous nees and	i phone poles v	vere biowir uc	wii licai 111g	nway 152	and Rennedy Bridge	Road. A foor was tipped o	ni a nouse.
Harrodsburg	10	0420EST			0	0		Thunderstorm Wind (	G65)
-	Powe	r lines were do	owned and a te	lephone pole	was snapped				
Jessamine County									
Camp Nelson	10	0430EST			0	0	5K	Thunderstorm Wind (	G60)
Comord Courts	Fourt	trees were blo	wn down. One	of them fell of	on a car.				
Garrard County Buena Vista	10	0445EST			0	0	200K	Thunderstorm Wind (	C (5)
Duella vista			rturned on Her	rington Lake				nage to homes and garages	,
Monroe County	Ten o			Ington Eake.	DOCKS WEIC	overturne	u. There was toor dar	hage to nomes and garages	•
Tompkinsville	10	1655EST			0	0		Hail (0.75)	
Clinton County									
Albany	10	1700EST			0	0		Thunderstorm Wind (	G50)
	Trees	were downed	•						
Meade County									
Battletown	10	1720EST			0	0		Hail (1.75)	
Meade County Wolf Creek	10	1720EST			0	0		Thundorstorm Wind (	C 50)
won Creek		r lines were do	owned		U	U		Thunderstorm Wind (	G30)
Monroe County	10000	i inics were do	owned.						
Tompkinsville	10	1720EST			0	0		Thunderstorm Wind (	G50)
•	Powe	r lines were do	owned.					·	,
Russell County									
Creelsboro	10	1730EST			0	0		Thunderstorm Wind (	G50)
	Trees	were downed							
Breckinridge County Irvington	10	1805EST			0	0		Hail (0.75)	
Jefferson County	10	1005E51			U	U		$\operatorname{Hall}\left(0.75\right)$	
Kosmosdale	10	1805EST			0	0		Thunderstorm Wind (	G65)
		ver pole was s	napped.		Ŭ	Ū		(	
Jefferson County	1	1	11						
Prospect	10	1805EST			0	0		Hail (1.00)	
	Pea to	o quarter size h	nail was coveri	ng the ground					
Breckinridge County									~ = ~ `
Countywide	10 Trace	1813EST			0	0		Thunderstorm Wind (	G50)
Jefferson County	Trees	were downed	•						
Prospect	10	1815EST			0	0		Hail (1.00)	
Trospect			narker 15 on Ir	nterstate 71.	v	Ū		Han (1.00)	
Trimble County									
Bedford	10	1819EST			0	0		Thunderstorm Wind (	G50)
	Trees	and power lin	es were downe	ed.					
Oldham County	10	1000			0			<b>TT II</b> (1.00)	
Countywide to La Grange	10	1820EST			0	0		Hail (1.00)	
La Urange	1.00 i	nch hail fell a	t La Grange. T	here were nur	nerous repor	ts of large	hail from around the	county.	
Russell County	1.001	inuit tott di	. Lu Grunge. II			or imge	itom around the	county.	
Russell Spgs	10	1820EST			0	0		Thunderstorm Wind (	G50)
• 0	Trees		es were downe	ed.					
Jefferson County									
Indian Hills	10	1850EST			0	0		Thunderstorm Wind (	G50)
	Trees	were downed	along River R	oad.					

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
KENTUCKY, Centra	<u>1</u>							
Logan County								
Lewisburg	10	1900EST			0	0		Thunderstorm Wind (G50)
Shallor Course	Trees	and power lines	s were downe	ed.				
Shelby County	10	1905EST			0	0		Hail (1.00)
3 E Shelbyville Franklin County	10	1905251			U	U		Hail (1.00)
Switzer	10	1925EST			0	0	20K	Thunderstorm Wind (G75)
5 witzer		bile home was t	plown off its	foundation.	U	U	2011	Thuhuerstorm (G75)
Scott County								
Sadieville	10	1940EST			0	0		Hail (1.00)
Anderson County								
Countywide	10	1944EST			0	0		Thunderstorm Wind (G50)
	Trees	and power lines	s were downe	ed.				
Barren County								
Glasgow	10	1945EST			0	0	100K	Thunderstorm Wind (G75)
	Mobil	le homes were b	olown off thei	r foundations				
Woodford County	10	10475675			0	0		
Versailles	10	1945EST			0	0		Thunderstorm Wind (G57) <sup>M</sup>
Harrison County Berry	10	1950EST			0	0		Hail (0.75)
Woodford County	10	1950E51			U	U		Han (0.75)
Midway	10	1950EST			0	0		Hail (0.88)
Fayette County	10	1000101			Ū	Ū		
Countywide	10	1955EST			0	0		Thunderstorm Wind (G50)
		were downed co	ountywide.		-			(010)
Green County			2					
Creal	10	1955EST			0	0		Thunderstorm Wind (G52) <sup>M</sup>
Allen County								
Halifax	10	2000EST			0	0		Thunderstorm Wind (G50)
	A cou	ple of trees wer	e downed.					
Allen County								
Scottsville	10	2000EST			0	0		Thunderstorm Wind (G50)
D	Power	r lines were dow	vned.					
Barren County Bon Avr	10	2000EST			0	0	467K	Thursdonstorm Wind (C95)
Don Ayı			ad some dam	age 6 had m	U aior damage			Thunderstorm Wind (G85) een barns were destroyed. Two businesses
							be 2 miles long and or	
Hart County	und 2	Burdges ind ind	.jor dannager	rne damage a	iou mus osti	indica to	or 2 miles long and of	
Horse Cave	10	2000EST			0	0		Hail (1.00)
Scott County								
Georgetown	10	2000EST			0	0		Hail (1.00)
Barren County								
Park City	10	2010EST			0	0		Hail (1.00)
Nicholas County								
Myers	10	2010EST			0	0	20K	Thunderstorm Wind (G70)
	A mo	bile home was t	olown off its i	foundation.				
Marion County	10				0	0		
2 N Lebanon	10 Traca	2015EST	to Highmon (		0	0		Thunderstorm Wind (G50)
Bourbon County	Trees	were blown on	to Highway :	55.				
Paris	10	2018EST			0	0		Thunderstorm Wind (G50)
1 4115		r lines were dow	vned		U	U		Thuhuerstorm wind (050)
Mercer County	10000	i intes were dow	incu.					
Cornishville	10	2020EST			0	0		Thunderstorm Wind (G50)
-		were downed.						
Taylor County								
Taylor County 5 SW Campbellsville	10	2020EST			0	0		Thunderstorm Wind (G50)

		Time Local/	Path Length	Path Width	Numb		Estima		November 20
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	ge Crops	Character of Storm
KENTUCKY, Centra	al								
Taylor County	_								
Elk Horn	10	2020EST			0	0			Hail (0.75)
Adair County									
Cane Vly	10	2030EST			0	0			Thunderstorm Wind (G87)
	blown		n NWS stori						lown off an office building. A steeple work work and the winds with straight line winds
Casey County		<b>y</b> 1							
5 SE Jacktown	10	2030EST 2031EST	0.1	25	0	0			Tornado (F0)
		nel cloud likely Peyton Ridge, at				on of the	storm, but s	pot F0 da	amage to trees was found on the ridge
Metcalfe County		,							
3 SW Sulphur Well	10	2030EST			0	0			Thunderstorm Wind (G50)
	Five t	rees were downed	d.						
Lincoln County									
Hustonville	10	2040EST			0	0			Hail (1.00)
Monroe County									× /
Countywide	10	2040EST			0	0			Thunderstorm Wind (G50)
·	Trees	were downed.							
Casey County									
Mintonville	10	2045EST			0	0	20K		Thunderstorm Wind (G70)
	The re	oof was blown of	f a barn.						
Lincoln County									
3 SE Hustonville	10	2045EST 2046EST	0.1	25	0	0			Tornado (F0)
		nel cloud briefly ess than the size of			lge top of A	ngel Ridg	ge at an eleva	tion of a	bout 1300 feet. Trees were uprooted in
Metcalfe County									
Edmonton	10	2045EST			0	0			Thunderstorm Wind (G50)
	Trees	were downed.							
Russell County									
Countywide	10	2115EST			0	0			Thunderstorm Wind (G50)
	Trees	and power lines	were downe	d.					
<b>KENTUCKY</b> , Easter	n	-							
Wayne County	_								
5 N Sunnybrook	10	0130EST			0	0	0	0	Thunderstorm Wind
·	Three	trees were down	across Ken	tucky Highwa	ay 200.				
Laurel County				, ,	5				
Tuttle	10	0330EST			0	0	0	0	Thunderstorm Wind
	Sever	al three inch dian	neter tree lir	nbs were dow	'n.				
Lee County									
Heidelberg	10	0634EST			0	0	60K	0	Lightning
-	A vac	ant house on Ker	ntucky State	Highway 39	9 burned ear	ly Sunday	y morning aft	er being	hit by lightning from a thunderstorm.
	lightn	ing jolted a breal	ker loose on	a nearby tra	nsformer that	it also ser	rved another	house. H	By the time fire departments arrived at
	scene.	, the structure wa	s fully engu	lfed in flames	and was a t	otal loss.			
Lee County									
Ida May	10	0638EST			0	0	0	0	Thunderstorm Wind
	Sever	al trees were dow	/n.						
Wayne County									
Monticello	10	1715EST			0	0	0	0	Thunderstorm Wind
	Sever	al trees were dow	/ <b>n</b> .						
Pulaski County									
Countywide	10	1740EST			0	0	0	0	Thunderstorm Wind
	Nume	erous trees were d	lown.						
Jackson County									
Jackson County Mc Kee	10	1820EST al trees were dow			0	0	0	0	Thunderstorm Wind

		Time Local/	Path Length	Path Width	Numb Pers		Estima Dama		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
KENTUCKY, Easter	<u>.n</u>								
Rockcastle County	10	1025507			0	0	0	0	
Livingston	10 Nume	1825EST erous trees were	down		0	0	0	0	Thunderstorm Wind
Laurel County	INUIR	elous nees were	down.						
Countywide	10	1830EST			0	0	0	0	Thunderstorm Wind
·	Nume	erous trees were	down.						
Pulaski County									
2 N Somerset	10	1847EST			0	0	0	0	Hail (0.75)
Mccreary County	10	10.405.07			0	0		0	
3 E Pine Knot	10 Straig	1849EST	used signifier	ant domoco ti	0 the Dire V	0	250K	0	Thunderstorm Wind vice, the roof of a church was torn apart.
	along The p bruise	with terrible st picnic shelter ne es. Several out	ructural dama ext door was buildings wer	age. The stee completely fl re damaged a	eple was cor lattened. Mi nd blown of	npletely b raculousl f of foun	blown off an y, nobody s dations. Sev	d destroy ustained veral trail	ved. The church was declared a total loss injuries, omitting a couple of scrapes and ler homes suffered roof damage and were eral motor vehicles sustained damage.
Rockcastle County				-					-
Livingston	10	1910EST			0	0	0	0	Hail (0.75)
Breathitt County									
Wolverine	10	1915EST			0	0	0	0	Thunderstorm Wind
Is always Country	One t	ree was down.							
Jackson County Cornelius	10	1920EST			0	0	0	0	Hail (0.75)
Pulaski County	10	1920151			U	U	U	U	Hall (0.75)
Woodstock	10	1920EST			0	0	0	0	Thunderstorm Wind
WOOUSTOCK		al trees were do	wn.		U	U	0	U	Thuhuerstorm while
Breathitt County	50.01								
Guage	10	1925EST			0	0	3K	0	Thunderstorm Wind
-	One p	power pole and p	ower lines w	ere blown do	wn.				
Bell County									
Middlesboro	10	1940EST			0	0	0	0	Hail (1.75)
Knox County	10	1050567			٥	0	0	0	There denotes Wind
Erose	10 Sever	1950EST al trees were do	wn		0	0	0	0	Thunderstorm Wind
Leslie County	Sever	ai tiees were do	wii.						
Mozelle	10	1955EST			0	0	0	0	Thunderstorm Wind
		erous trees were	down along I	Kentucky Hig	hway 1780.				
Owsley County			U						
Levi	10	2002EST			0	0	0	0	Thunderstorm Wind
	Sever	al trees were do	wn.						
Bath County									
Sharpsburg	10	2036EST			0	0	0	0	Hail (0.75)
Fleming County	10	2100EST			٥	0	0	0	There denotes With d
Hillsboro	10 One t	ree was down of	n Kontucky H	Jahway 1013	0 South	0	0	0	Thunderstorm Wind
Fleming County	One t	iee was down of	п кенцеку п	ligilway 1015	South.				
Poplar Plains	10	2100EST			0	0	0	0	Thunderstorm Wind
- • <b>r</b>		ree was down or	n Hope Hill R	load.					
Pulaski County			-						
Faubush	10	2113EST			0	0	0	0	Hail (0.88)
Bell County									
Middlesboro	10	2115EST			0	0	0	0	Hail (1.00)
Rockcastle County	10	<b>2110DCT</b>			0	0	0	0	<b>II</b> II (1.00)
Conway Dela di Constant	10	2118EST			0	0	0	0	Hail (1.00)
Pulaski County	10	2120EST			0	0	0	0	Thundorstorm Wind
Nancy		al trees were do	wn		U	U	U	U	Thunderstorm Wind
Pulaski County	Sevel	u uces were do	** 11.						
2 N Naomi	10	2120EST			0	0	0	0	Thunderstorm Wind

							_			
		Time Local/	Path Length	Path Width	Numb Pers		Estin Dam		November 200	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
KENTUCKY, Easte	<u>rn</u>									
Estill County										
2 SE Irvine Monifos County	10	2131EST			0	0	0	0	Hail (0.75)	
Menifee County Frenchburg	10	2132EST			0	0	0	0	Hail (0.75)	
Lee County	10	2152251			U	U	U	U	Han (0.73)	
3 N Beattyville	10	2135EST			0	0	0	0	Thunderstorm Wind	
	Severa	al trees were down	•							
Rockcastle County										
Conway	10	2135EST			0	0	0	0	Hail (1.00)	
Rockcastle County	10	0145ECT			0	0	0	0	II-1 (0.75)	
Livingston Wolfe County	10	2145EST			0	0	0	0	Hail (0.75)	
Campton	10	2150EST			0	0	0	0	Hail (0.75)	
Wolfe County	10	2130251			v	Ū	U	U	Han (0.75)	
Trent	10	2157EST			0	0	0	0	Hail (1.00)	
Rowan County										
Bangor	10	2200EST			0	0	0	0	Hail (0.75)	
Laurel County										
London	10	2200EST			0	0	0	0	Thunderstorm Wind	
T and C and	Severa	al trees were down	•							
Laurel County East Bernstadt	10	2200EST			0	0	0	0	Thunderstorm Wind	
Last Definstaut		al trees were down			U	U	U	U	Thunderstorm wind	
Morgan County	Seven	a aces were down	•							
10 N West Liberty	10	2205EST			0	0	0	0	Thunderstorm Wind (G52)	
Morgan County										
Cannel City	10	2210EST			0	0	0	0	Hail (0.75)	
Jackson County										
Annville	10	2215EST			0	0	0	0	Hail (0.75)	
Jackson County										
Gray Hawk	10	2215EST			0	0	0	0	Hail (0.75)	
Clay County	10	2210ECT			0	0	0	0		
7 NW Manchester	10 Numo	2218EST rous trees were do	un along I	Inited States	0 Lichwor 42	0 1 baturaa	0 Durning S	0 nrings and	Thunderstorm Wind	
Bell County	INUITIE	ious nees were do	wil along v	Jinted States	rigiiway 42	1 Detween	ii buining 5	prings and	raii Kock.	
2 E Middlesboro	10	2230EST			0	0	0	0	Hail (0.75)	
		quarter inch diame	eter hail w	as reported al	long United S				()	
Johnson County		•		•	÷					
Paintsville	10	2235EST			0	0	0	0	Hail (1.00)	
KENTUCKY, North	<u>neast</u>									
Greenup County										
Bellefonte	10	2130EST			0	0			Hail (0.88)	
Greenup County					0					
Flatwoods	10	2130EST			0	0			Hail (0.88)	
Carter County	10	2140EST			0	0	1K		Thundorstorm Wind	
3 NE Grayson	10 Nume	rous trees were kn	ocked dow	n along Rou		U	IK		Thunderstorm Wind	
Boyd County	Ivuine	ious nees were kir	OCKCU UOW	II along Rou	ic 207.					
Ashland	10	2155EST			0	0			Hail (0.75)	
Greenup County		~ -			-	-				
1 S Greenup	10	2200EST			0	0	1K		Thunderstorm Wind	
-	Fallen	trees were along H	Route 2.							
Lawrence County										
Blaine	10	2235EST			0	0			Hail (0.88)	
									er Valleys. Temperatures had reached the the 55 to 60 degree range. A squall line	

This episode was part of a large outbreak of severe weather in the Ohio and Tennessee River Valleys. Temperatures had reached the 75 to 80 degree range in northeast Kentucky during the afternoon. Dew points were in the 55 to 60 degree range. A squall line formed near a cold frontal boundary, with a few storms out ahead of the main line. The storms did not reach northeast Kentucky until well after dark.

		Time	Path	Path	Numb	per of	Estimated	Nov
•	-	Local/	Length	Width	Pers	ons	Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
KENTUCKY, North	<u>nern</u>							
Carroll County Prestonville	10	1830EST			0	0	2K	Thunderstorm Wind (G50)
i reston vine	10	1833EST			Ū	Ū		
Ormon Country	Severa	al trees were d	owned and a c	church steeple	e was blown o	over.		
Owen County New Liberty	10	1833EST			0	0		Hail (0.75)
New Liberty	10	1836EST			U	U		Haii (0.73)
Gallatin County								
5 SW Warsaw	10	1850EST			0	10	375K	Thunderstorm Wind (G65)
	Severa	1855EST al mobile hom	es were demo	lished along	State Route	184 betw	veen Interstate 71 and	the Ohio River. Damage was caused by a
	microl			anone arong				ine onio tuven Danage was eaused by a
Grant County								
Crittenden	10	1852EST 1855EST			0	0		Hail (0.75)
Boone County		1055151						
Verona	10	1900EST			0	0	3K	Thunderstorm Wind (G50)
		1908EST						
	Nume	rous trees wer	e blown down	across the so	outhern part o	f the cou	inty.	
Campbell County Grants Lick	10	1900EST			0	0		Thunderstorm Wind (G57) <sup>M</sup>
Gallatin County	10	1300E51			U	U		Thunderstorm while (657)
Glencoe	10	1908EST			0	0	15K	Thunderstorm Wind (G50)
		1912EST						
121/2000 000		-		Powerlines w	ere also knoo	ked dow	n and the roof was tak	ken off of a house.
KYZ092>093	Kent 10	on - Campb 1910EST	ell		0	0		Flood
	10	2025EST			U	U		Flood
	An int	tense line of the	hunderstorms	tracked acros	s northern K	entucky	during the early even	ing, producing two to three inches of rain
The second second	across	the southern p	portions of the	Cincinnati m	etro area. Tl	ne heavy	rain caused minor flo	oding of roadways and low-lying areas.
Kenton County 7 S Independence	10	1015567			0	0	3K	Thursdorstorm Wind (C50)
7 S independence	10	1915EST 1919EST			U	U	эк	Thunderstorm Wind (G50)
	Trees	were downed	across souther	n parts of the	county.			
Bracken County								
Countywide	10	1945EST			0	0		Hail (0.75)
<b>Robertson County</b>		2005EST						
Mt Olivet	10	2010EST			0	0		Hail (1.75)
		2014EST			-			
Mason County								
Maysville	10	2020EST 2024EST			0	0		Hail (1.00)
Lewis County		2024E51						
Vanceburg to	10	2100EST			0	0	1K	Thunderstorm Wind (G50)
Central Portion		2104EST						
VENTUCIV Sand		rees were dow	ned near the i	ntersection of	State Route	10 and E	Boman Springs Road.	
KENTUCKY, South Fulton County	Iwest							
Fulton	09	2335CST			0	0	2K	Thunderstorm Wind (G50)
1 unon			ere blown dow	vn in the city				etween Hickman and Fulton.
Union County				-				
Countywide	10	0002CST			0	0	10K	Thunderstorm Wind (G50)
	A mili	0016CST	ported trace b	lown down o	ountwuide in	cluding	the Morganfield Store	gis, and Uniontown areas.
Henderson County	A utili	ity company re	poneu nees b		ountywide, II	ciuunig	the worgannett, stury	gis, and Uniontown areas.
2 S Henderson	10	0010CST			0	0		Thunderstorm Wind (G50)
	A cou	ple of trees we	ere blown dow	'n.				

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
KENTUCKY, South	west							
Union County								
Morganfield to Uniontown	10	0045CST			0	0		Thunderstorm Wind (G50)
	A cou	ple of trees wer	e blown dow	n.				
Webster County								
2 W Sebree	<b>10</b> A few	0045CST trees were blow	wn down.		0	0		Thunderstorm Wind (G50)
Crittenden County								
Countywide	10 A utili	0100CST ity company rep	orted some the	ree damage a	0 cross the cou	0 nty.		Thunderstorm Wind (G50)
Henderson County								
Henderson	10	0106CST			0	0		Thunderstorm Wind (G50)
	Trees	were blown dow	wn.					
Union County								
Morganfield	10	0224CST 0300CST			0	0	10K	Flash Flood
						•	•	nd central Union County for a few hours
	Rainfa	all from 3 to 4 in	nches in three	e hours was ii	ndicated. A f	ew vehic	les became stranded o	n flooded roads near Morganfield.
Crittenden County		1 100 000			0	0		
3 N Marion	10	1432CST			0	0		Thunderstorm Wind (G50)
Wahatan County	A rew	trees were blow	vn down.					
Webster County Sebree	10	1508CST			0	0		Hail (1.00)
Mclean County	10	1508051			U	U		Hall (1.00)
Beech Grove	10	1512CST			0	0		Hail (1.75)
Deech Grove			n moved nor	theast from V	Vebster Cour		icing golf-ball size ha	il as it moved over the northwest corner of
		in County.	ii iiioved iioi	uncust from v	vebster cour	ny, prout	ienig gon ban size na	in as it moved over the northwest corner of
Daviess County								
St Joseph to	10	1515CST			0	0		Hail (1.25)
Owensboro		1530CST						
					Aclean Coun	ty, produ	cing a swath of large	hail across western Daviess County. Dim
Devices County	to hall	f-dollar size hail	l was reported	1.				
Daviess County Owensboro	10	1530CST			0	0	150K	Thunderstorm Wind (G65)
Owensboro		1535CST						
								Owensboro. Extensive thunderstorm win
								ide of Owensboro near the intersection of was blown off, and a church steeple was
								residences. At least 12 city residences we
								amage was reported at Brescia Universit
	when	roofing from th	e science bui	ilding was bl	own into oth	er buildir	ngs on campus. Hundi	reds of trees were down across the county
	includ	ling 71 reports o	of trees block	ing roads or f	alling on pov	ver lines	or structures. A carpor	rt was flipped onto a car at Maceo.
Calloway County								
Hamlin	10	1645CST			0	0	5K	Thunderstorm Wind (G50)
				ew trees were	e pushed over	r onto po	wer lines. In a foreste	d area on the north side of Hamlin, about
Christian County	dozen	trees were blov	vn down.					
Christian County	10	1725CST			0	0		Hoil (175)
Hopkinsville	10 Hail u		ze fell from a	severe thund			e hail was reported in	Hail (1.75) downtown Hopkinsville.
	rian u	P to goir ball SE		severe utuild	erstorm. 001	i Joan SiZ	e nan was reported III	downtown Hopkinsville.
Christian County		1725CST			0	0	10K	Thunderstorm Wind (G55)
Christian County Hopkinsville	10	1/401.01			~			
Christian County Hopkinsville	10 Trees		s were topple	d in several lo	ocations arou	nd Hopk	insville, blocking traff	10.
Hopkinsville			s were topple	d in several le	ocations arou	nd Hopk	insville, blocking traff	10.
			s were topple	d in several le	ocations arou 0	nd Hopk 0	insville, blocking traff	ic. Hail (0.75)
Hopkinsville Todd County	Trees	and utility poles 1739CST	s were topple	d in several le			insville, blocking traff	
Hopkinsville Todd County Fairview	Trees	and utility poles	s were topple	d in several le			insville, blocking traff	

The Green River rose slightly above flood stage at the Paradise Fossil Plant, causing only minor flooding of rural bottomland. The river crested at 380.34 feet, just above the flood stage of 380 feet.

		Time	Path	Path	Numb	er of	Estimated	Name 2002
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso		Damage Property Crops	November 2002 Character of Storm
LAKE ERIE								
Avon Point To Willowick Oh Avon Point to Willowick Le Avon Pt To Willowick Oh Byd	10	1740EST 1940EST			0	0		Marine Tstm Wind
5Nm Offshore To Intl Border Avon Point to Willowick Le Detroit R Lt To Reno Beach Oh Byd	10	1740EST 1940EST			0	0		Marine Tstm Wind
5Nm Offshore To Intl Border Maumee Bay to Reno Beach Le Reno Beach To The	10	1740EST 1940EST			0	0		Marine Tstm Wind
Islands Oh Byd 5Nm Offshore To Intl Border Reno Beach to The Islands Le The Islands To Vermilion Oh Byd 5Nm	10	1740EST 1940EST			0	0		Marine Tstm Wind
Offshore To Intl Border The Islands to Vermilion Le Vermilion To Avon Pt Oh Byd 5Nm	10	1740EST 1940EST			0	0		Marine Tstm Wind
Offshore To Intl Border Vermilion to Avon Point Le Willowick To Geneva On The Lake	10	1740EST 1940EST			0	0		Marine Tstm Wind
Oh Byd 5Nm Offshore To Intl Border Willowick to Geneva-On-The-Lake Maumee Bay To Reno Beach Oh	10	1740EST 1940EST			0	0		Marine Tstm Wind
Maumee Bay to Reno Beach Reno Beach To The	10	1740EST 1940EST			0	0		Marine Tstm Wind
Islands Oh Reno Beach to The Islands The Islands To	10	1740EST 1940EST			0	0		Marine Tstm Wind
Vermilion Oh The Islands to Vermilion Vermilion To Avon	10	1740EST 1940EST			0	0		Marine Tstm Wind
Point Oh Vermilion to Avon Point	10	1740EST 1940EST			0	0		Marine Tstm Wind

		Time Local/	Path Length	Path Width	Numb Perso		Estimated Damage		November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
LAKE ERIE									
Willowick To Geneva									
On The Lake Oh Willowick to	10	1 <b>74</b> 0EST			0	0		Marine Tstm Wi	nd
Geneva-On-The-Lake	10	1740EST 1940EST			U	0		Marine 1 stm Wi	na
							nd produced wind gu	sts in excess of 50 k	nots. An F2 tornad
LOUISIANA, Northe		l across Lake E	rie from Port	Clinton to Ca	tawba Island				
200151ANA, Northea	asi								
		E REPORTED.							
LOUISIANA, Northw	vest								
	NONE	E REPORTED.							
LOUISIANA, Southea	ast								
St. Charles Parish	05	0050CCT	0.2	75	0	•	2517	T-m-d- (F1)	
St Rose	05 A torn	0950CST ado destroyed	0.3 one mobile h	75 ome and heav	0 vilv damaged	2 another	25K Four other mobile he	Tornado (F1)	damage Power line
		ilso knocked do			,8				
St. Tammany Parish					0	<u>^</u>			
3 NW Goodbee	11 A torn	0055CST	0.3	150 a large numb	0 ar of trees	0 nanning 1	35K arge branches and ca	Tornado (F1)	age to three homes
		on, several outb						using moderate dama	ige to three nomes.
St. Tammany Parish			e		<i>c</i> .	e			
Bush	11	1800CST			0	0	1.5K	Thunderstorm V	Vind
LOUISIANA, Southw		al trees were blo	own down alc	ong Highway	40 near Bush	•			
Cameron Parish	651								
Creole	05	0230CST			0	0	25K	Flash Flood	
	G	0400CST			<b>CI</b> . 1	<u> </u>		1 6 . 1	
Allen Parish	Severa	a nomes were i	looded near Q	reole, Little	Chemier, and	Chenter	Pardue due to three in	icnes of rain on alrea	by saturated grounds
Oakdale	05	0301CST			0	0	25K	Flash Flood	
		0500CST							
Jefferson Davis Parish	The se	ewage treatment	t plant was flo	boded, and se	veral roads h	ad to be c	closed due to high wa	ter.	
Jennings	05	0330CST			0	0	20K	Flash Flood	
C		0600CST							
Calcasieu Parish	A few	homes had floo	od waters ent	er them after t	he region rec	ceived 3 i	nches of rain on alrea	idy saturated grounds	
Lake Charles	05	0340CST			0	0	50K	Flash Flood	
		0700CST							
St. Landry Parish	Severa	al homes and bu	isinesses had	water enter th	iem after 3 ir	iches of r	ain fell on previously	saturated ground.	
Eunice	05	0500CST			0	0	25K	Flash Flood	
		0700CST							
Enougeline Deutsh	Severa	al roads were cl	osed due to h	igh water afte	r 3 inches of	rain fell	on previously saturate	ed grounds.	
Evangeline Parish Ville Platte	05	0520CST			0	0	10K	Flash Flood	
vine i mue		0700CST							
A I' D I	Severa	al roads were cl	osed due to h	igh water afte	r 3 inches of	rain fell	on saturated grounds.		
Acadia Parish Estherwood	05	0630CST			0	0	10K	Flash Flood	
Estherwood	05	0700CST			U	U	101	Flash Floou	
	The po	ontoon bridge a	t Estherwood	was closed, a	s well as sev	eral other	roads due to floodin	g.	
MAINE, North	<i>a</i> .		~		~				
MEZ017-029>030		ral Washingt	on - Coasta	al Hancock		-	gton	Winton Storm	
	06 07	1800EST 0200EST			0	0		Winter Storm	

St	torr	n Data	and	Unus	ual W	'eat	her Phen	omena	
		Time Local/	Path Longth	Path Width	Numbe Perso		Estimated Damage	November	2002
Location	Date	Standard	Length (Miles)	(Yards)		ins Injured	Property Crops	Character of Storm	
MAINE, North									
MEZ001>006-011- 015>017-031>032	North - Sou		ook - Nort took - Cei	heast Aroos ntral Penob	took - Nort scot - Soutl	hern S	omerset - Norther	n Piscataquis - Northern Penol r Hancock - Central Washing	
	17 18	0200EST 1700EST			0	0		Winter Storm	
	Low p Maine form of freezing through inches.	ressure which to the Maritim of snow across g rain across c h the afternoor although loca	es brought a much of the entral and D n of the 18 llized totals	n extended int e region durin owneast areas th. Total sno up to 14 inc	erval of wintr g the early m during the af w accumulati hes were repo	y precip forning ternoon ons acr	vitation to northern and hours of the 17th. Th and evening of the 1' oss the north and m Snowfall totals of 5	Atlantic coastthen through the G d eastern Maine. Precipitation began he precipitation then changed to slee 7th. Snow continued across northern ountains generally ranged from 7 to 8 inches were common across c nged from 0.5 to 2.0 inches.	in the et and areas to 10
MEZ030	Coast 17	al Washington 1600EST	0 <b>n</b>		0	0		High Wind (G62) <sup>M</sup>	
	18 Intense	0200EST e low pressure	-	ough the Gulf			ritimes produced sust	ained winds of 35 to 45 mphwith	gusts
MEZ011-015>016-029- 031		0 to around 70 al Penobscot		n Penobsco	t - Interior	Hanco	ck - Coastal Hanco	ock - Southern Piscataquis	
	23 24	1900EST 1500EST			0	0		High Wind (G45) <sup>M</sup>	
	mph w	winds develop vere common	with gusts t	o around 50 r	nph. The stro	ng wind		e Provinces. Sustained winds of 25 e trees and tree limbsalong with p	
MAINE, South					*		-		
MEZ007>008-012>013	North 06	ern Oxford 0300EST 1600EST	- Northern	i Franklin -	Southern C 0	0 Oxford	- Southern Frankl	IN Moderate Snowfall	
MEZ023>024	Coast 06	al York - Co 1020EST 1252EST	astal Cum	berland	0	0		Coastal Flood	
	genera the imp floodir	1, about 3 to 6 mediate coast, and ing in York and reached 12.6 f	inches of sr most of the j Cumberland	now fell over a precipitation fo Counties. Th	much of Oxfo ell as rain, but e flooding ten	rd and l t high as nporaril	Franklin Counties before stronomical tide comb y cut off the Camp Ell	that a mixture of weather to the stat ore the precipitation turned to rain. A ined with northeasterly winds caused is area of Saco. In Portland where the ngress Street, and the Portland Pier	Along d tidal ne tide
MEZ007>009-012>013			- Northern	ı Franklin -	Central Son 0	merset 0	- Southern Oxford	d - Southern Franklin Heavy Snow	
MEZ014-018>022			et - Interio	r York - Int	erior Cumb 0	erland 0	l - Androscoggin -	Kennebec - Interior Waldo Moderate Snowfall	
MEZ014-018>026	South	ern Somers					00	in - Kennebec - Interior Wa	ldo -
	Coast 17	al York - Co 0300EST 1500EST	astal Cum	iberland - Sa	agadahoc 0	Lincoli 0	n	Freezing Rain	
	Delma the sta remain sleet an weight custom	dly intensifying rva Peninsula o te. About 5 to ider of the west nd/or freezing r of the freezin ners lost electri	on the mornin 10 inches o tern Maine, o tain in most a g rain cause cal service o	ng of the 17th of snow fell in except along t areas before th ed branches a during the stor	to near Nova the mountain he coast when he precipitation nd trees to farm due to free	Scotia l as and for e accum n ended all onto ezing ra	by the morning of the pothills of western Ma nulations were general. Across coastal section power lines causing	handle on the morning of the 16th 18th, brought a mixture of precipitat aine with 3 to 6 inches across most lly 3 inches or less. The snow chang ons of Cumberland and York Counti- scattered power outages. About 1 ters without power for two days. S d-Owls Head area.	ion to of the ged to es, the 5,000
MARYLAND, Centra							-		
Montgomery County 1 SE Silver Spg	-	0630EST trees were down				-		Thunderstorm Wind	

A thunderstorm with high winds moved through Takoma Park around 6:30 AM on the 11th. The storm downed a large oak tree onto

S	tori	n Dat	a and	Unus	ual W	/eat	her Ph	enomena	
		Time Local/	Path Length	Path Width	Numb Perse	ons	Estimated Damage		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Ci	rops Character of Storm	
MARYLAND, Centra	_	e on Garland A	Avenue. Anot	her large dowr	ned tree sign	ificantly	damaged an ana	rtment building.	
MDZ002	Alleg 30	any 2000EST		ner nige us	0	0	unniget in upu	Winter Weather	
MADVI AND Nowth	Lakes PM or county gusting	was blown in the 30th thro . Reports inc	to the region. ugh 8 AM on cluded 2.5 ind	The winds do the 1st of De ches in higher	eposited the cember. A elevations	moisture total of 1 just west	in the form of to 3 inches of of Frostburg a	ds to the northwest and m snow in the Appalachian snow accumulated in the nd 1.2 inches in downtow wind chills into the single	Mountains between 8 western portion of the wn Frostburg. Winds
MARYLAND, Northe MDZ008-012-015-		- Kent - Ou	een Annes .	- Talbot - Ca	roline				
019>020	cten	- Kent - Qu	cen Annes		ii onne				
	01 25	0000EST 0900EST			0	0	0	Drought	
	Noven of Nov grain o inches across	nber 5th and 6 vember. Ironic cover crops. C in Caroline C	th, November ally the wet on a county wounty. Norma hore. Governo	11th and 12th weather hampe reighted averag l is around 3.4	n, November ered farmers ge Novembe inches. Eve	16th and as it slo r monthl n ground	1 17th dropped wed the harvest y precipitation p water levels, wl	land Eastern Shore. A ser more precipitation than is c of soybean crops and thy ranged from 4.6 inches in hich are normally the last t ney and the watering restr	normal for the month warted the planting of Talbot County to 5.6 to recover, were rising
	less ru downs oyster	noff of nitroge ide for the ba harvests in his	en and phosph y was the inc story is expect	orus and fewe creased salinity ed to occur thi	r algae bloor which also s upcoming	ns. The v increase winter.	vater quality can d the incidence	ity in Chesapeake Bay. The used the greatest sea grass e of diseases that kill oyst was 3.78 inches, 0.66 inche	spurt since 1978. The ers. One of the worst
MDZ019	Talbo		-	•	<u>^</u>	•			
MADVI AND South	wind g knocke	gusts to around	d 35 mph. Th ble of trees in	e combination	of the persi	stence of	the wind and t	Strong Wind are system from the Gulf ( he recent heavy rains (wh Saint Michael's and one in	ich loosened the soil)
MARYLAND, South									
MARYLAND, West	NONE	E REPORTED							
	NONE	E REPORTED							
MASSACHUSETTS,									
MAZ002	West 05 06	ern Franklii 1100EST 0600EST	n		0	0		Heavy Snow	
MAZ002	West 05 06	ern Franklii 1100EST 0600EST	n		0	0	10K	Winter Storm	
Barnstable County									
Eastham to Chatham Essex County	06	1200EST 1400EST			0	0	15K	Storm Surge	
Salisbury to Marblehead Norfolk County	06	1200EST 1400EST			0	0	25K	Storm Surge	
Quincy to Cohasset Plymouth County	06	1200EST 1400EST			0	0	15K	Storm Surge	
Hingham to Duxbury	06	1200EST 1400EST			0	0	10K	Storm Surge	

					_				
		Time Local/	Path Length	Path Width	Numb Perso		Estimated Damage		November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	-	ops Character of Storm	
MASSACHUSETTS,	Centra	al and East							
Suffolk County									
Revere to	06	1200EST			0	0	10K	Storm Surge	
Boston		1400EST						-	
	worst i about 3 Glouce Marshi boat to	flooding along 30 homes were ester to Duxbu field, Quincy,	the eastern surrounded ury. The hi and Revere. sidents after t	Massachusetts by flood water gh tide cause Morrisey Bou their house wat	coast in ov s. Widespre d flooding alevard in B s inundated b	er a deca ad minor n many oston wa by severa	de. Salisbury i to moderate floo basements and s closed around l feet of water.	ing south of New England n coastal Essex County wa oding was reported in coast forced temporary road cl high tide at noon. In Hul At least two cars were stran	as hardest hit, when al communities from losures in Hingham Il, firefighters used
MAZ002>005-008>012	weight Weste	of the snow been from the snow been from the snow been been been been been been been bee	ought down	tree limbs, cau n Franklin	sing scattere • Norther	d power <b>1 Worc</b>	outages.		•
	16	2200EST			0	0	1.4M	Ice Storm	
MAZ004-011	17 North	1500EST tern Worcest	tor Foster	m Homedor					
WIAZ004-011	North 18	0700EST	ler - Easter	rn Hampden	0	0	30K	High Wind	
		1000EST						C	
	There	were numerou	s reports of	downed trees,	limbs, and	power lir	•	Worcester County and the fone-half inch of icing.	•
MAZ011	limbs t Wildlit The da were r branch	that smashed of fe Sanctuary fe mage from the	nto cars and ll victim to th ice storm wa tern Hampdo weighted do	houses, and b he ice storm. as compounded en and norther	locked roads d by high wi	nds one c	storic 220-year- lay later. Gusts	re there were many reports old Crocker maple tree at as high as 50 mph d the cleanup effort, dow	Wachusett Meadow
	23	1455EST			0	0		High Wind (G60)	М
MAZ011>012		rn Hampder 0100EST	-		-	port in V 0	Vestfield. No da	mage was reported. Heavy Snow	
	On ave minim through betwee Some	erage, storm to al since most hout the region on 3 and 6 incher specific snowf	tals ranged fi people trave n, but no in es, with lesse all totals inc	rom 5 to 10 in eled the day b juries were di er amounts from clude 9.5 inche	ches. The spefore, in ar rectly attribution coastal Ply es in Sturbri	ticipation ticipation table to mouth C dge; 8 in	nred on the day n of the storm. To ounty to Cape C ches in Springfi	al Massachusetts. before Thanksgiving, but i Still, several minor acci- tals across the rest of Mas od and the Islands.	dents were reported ssachusetts averaged
		llly, the storm t				-	downtown Word	ester, and Westboro.	
MASSACHUSETTS, V									
MAZ001	Berks								
	17	0000EST 0900EST			0	0	10K	Winter Storm	
	reachin cold er precipi the pre surface	ng nor'easter de ng Cape Cod by nough to produ tation fell prin ecipitation char es. The combin	y late Noven ce a significa harily as sno nged to sleet hation of the	ber 17. At the ant mix of wind w across the c , then freezing snow, sleet at	same time, try precipitat ounty, with g rain. Freez nd ice, wind	a shallow ion durin 1-3 inche ing rain j s gusting	layer of arctic a g a good portion s of accumulatio produced a coat over 30 mph, a	center then slowly moved n ir bled south from eastern a of the storm across the Be on reported. As warmer air ing of ice less than half ar and the fact that some tree as and poor travel condition	Canada. This air wa rkshires. Initially the moved in overhead n inch thick on mos- s still had leaves on

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of rsons Injured	Estima Dama Property		Character of Storm	November 2002
MICHIGAN, East MIZ055-063	Sanil 26 27	ac - St. Clair 1300EST 0400EST			0	0			Heavy Snow	
	a dest		- Al			1	1.1	1.10		
	1		1.1.1	2	- I - THE	=				
	3 11		1					7		
	13		Call					-		
	K	A and	-		C.A.					
			-				100	12		
		No.	A DE	A.				11		
	Durin		of the 26th, a	in upper air di	sturbance	passed acr	oss the southe		Lakes region. A ban relatively warm wat	

snow developed over Lake Huron as cold north-northeasterly winds passed over the relatively warm waters of the lake. The north-northeasterly wind flow allowed the band to extend across a large distance of water, thereby developing very heavy snow. This band moved onshore in eastern St Clair county and far southeastern Sanilac county on the afternoon of the 26th. The band then remained nearly stationary through the rest of the afternoon and into the early morning hours of the 27th. Snowfall was estimated to have fallen at a rate of two to three inches an hour in some locations. The snow was the heaviest and persisted the longest in the city of Port Huron. By the morning of the 27th, 12-hour snowfall totaled 17 inches across the northern half of the city of Port Huron, while the south half reported amounts around 13 inches. Snowfall amounts in other parts of St Clair county included; 15 inches in Fort Gratiot Township, 9 inches in eastern Clyde Township, 7 inches in Lakeport, and 6 inches in the city of St Clair. In Sanilac county, 12-hour snowfall amounts were reported as; 8 inches in Lexington, 8 inches in Crosswell, 8 inches in Applegate, and 6 inches in Port Sanilac.

#### MICHIGAN, Extreme Southwest

NONE REPORTED.

MICHIGAN, North MIZ021>022-026>027- 032>033	Antı	rim - Otsego - Grand	Traverse - K	alkask	ta - We	exford - N	Aissaukee		
00 <b>2</b> 7 000	30	1800EST 2000EST			0	0		Heavy Snow	
	<b>T</b> 1	CC . 1 1 1	1 0			3 61 1 1		1 201 0 1 1 1	C 11

Lake effect snows developed across much of northwest Lower Michigan during the day on the 30th. 2 to 4 inches of snow fell across much of the region, while a heavier band of 6 to 8 inches of snow fell across several locales.

#### MI<u>CHIGAN, Upper</u>

MIZ002	-002-0	05>0(	)0
009			

#### **Ontonagon - Marquette - Alger - Gogebic**

25	0800EST	0	0	Heavy Snow
26	1700EST			

A low pressure system over eastern Canada pushed cold air across Lake Superior, generating lake effect snow showers over the lake shore counties of Michigan's Upper Peninsula. The snow began falling on the 24th and continued into the 27th with bursts of heavy snow (1 to 2 inches an hour) falling on the 25th and 26th. During the heaviest snowfall, Ironwood accumulated 11 inches, Ontonagon reported 15 inches, and Rockland received 17 inches. Further east, The National Weather Service Office recorded 13 inches of new snow, downtown Marquette reported 15 inches, 20 inches accumulated in Harvey and 24 inches covered Skandia. Downtown Munising only received 7 inches, but 10 inches fell at Sand Point and Chatham measured 11 inches of new snow. The

St	torr	n Data	a and	Unus	ual W	eat	her Pher	nomena
		Time Local/	Path Length	Path Width	Number Persor		Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)		njured	Property Crops	Character of Storm
MICHIGAN, Upper								
MIZ001>003-003>005-	numer Upper	ous minor traff Peninsula.	ïc accidents,	a few school	closings and d	ifficult		s of the lakeshore counties, contributing to ng two of the major travel routes across th <b>Gogebic</b>
005>007-009	30	0100EST			0	0		Winter Storm
<u>MICHIGAN, West</u> MIZ064-071>072	shower a 12 h seven caused cancel	rs over Michig our period, Bru inches of snow I periods of blo led or postpone an - Van But	an's Upper Pe ace Crossing fell over mo wing and drift ed due to the l	eninsula with and Newbern st parts of th fting snow th nazardous tra	considerable b ry accumulated e northern lake at reduced visi veling conditio	lowing 8 inch shore bility to ns.	and drifting snow. Nes, and Skandia repo counties, but the 20 t	across Ontario produced lake effect sno Wakefield measured 9 inches of snowfall i orted 12 inches of new snow. Only three to 30 mph winds with gusts to near 40 mp of a mile. Some local weekend events wer
	Michig where of six	gan as northerly 10 inches of si to eight inches	y winds adveo now fell from of snow exte	cted arctic air the early me ended from the	r into the area. orning hours of ne western sect	The he f Nover ions of	aviest snowfall repor nber 30th to the early Kalamazoo (Kalama	Heavy Snow veloped across extreme southwestern low t came from Paw Paw (Van Buren county y morning hours of December first. A bar izoo county) northwest through the town of fell during the daylight hours of the 30th.
MINNESOTA, Centra			•	ier northwest	to near nonan	a. The	majority of the show	ten during me dayngnt nours of me soun.
MINNESOTA, Northe MINNESOTA, Northy MNZ001>004-007- 013>015-029	NONE <u>west</u> West 29	0415CST 1522CST	an - Clay -		0	0	-	<ul> <li>ake - East Polk - Wilkin</li> <li>High Wind (G50) <sup>M</sup></li> <li>vinds. The highest wind gust, 58 mph, was</li> </ul>
MINNESOTA, Southe	reporte	ed at St. Vincer	-		- F, F.		- F	
MINNESOTA, Southy		E REPORTED.						
<u>MINNESOTA, West</u>		E REPORTED.						
<u>MINNESOTA, West (</u> MNZ039-046	Centra Trave 29	erse - Big Sto 1400CST 1600CST	one		0	0	. 17	High Wind (G52) M
MISSISSIPPI, Centra	-	vinds of 30 to 5	ou mph gustir	ig to 60 mph	occurred acros	s Big S	tone and Traverse co	unties during the late afternoon hours.
Yazoo County Vaughan	10	<b>1720CST</b> Il trees were blo	own down aci	ross the area.	0	0	2K	Thunderstorm Wind
Madison County Loring	<b>10</b> Thund	1725CST erstorm winds	blew down se	everal trees a	0 cross the area.	0	2K	Thunderstorm Wind
Attala County Kosciusko	10	1745CST			0	0	2.5K	Thunderstorm Wind

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
MISSISSIPPI, Centra	<u>l</u>							
Attala County								
Kosciusko	10	1758CST			0	0		Hail (0.75)
Attala County								
Kosciusko	10	1800CST			0	0		Hail (1.00)
Attala County Kosciusko	10	1900/007			0	0		There denote the USE d (C(0)
Choctaw County	10	1800CST			0	U		Thunderstorm Wind (G60)
Countywide	10	1800CST			0	0	5K	Thunderstorm Wind
Countywhee			d with thund	lerstorms res	ulted in seve		being blown down ac	
Attala County		,					8	
Kosciusko	10	1820CST			0	0	3K	Thunderstorm Wind
	Thund	lerstorm winds bl	ew down se	veral powerli	nes at the in	tersection	n of Love Road and H	Huntington Street.
Winston County								
5 NW Louisville	10	1820CST			0	0	2K	Thunderstorm Wind
	Severa	al trees were blow	vn down acr	oss the area.				
Attala County	10	1000 000			0	0		
Kosciusko	10	1900CST			0	0		Hail (1.00)
Attala County	10	10000007			0	0		There denote the USE d (C(0)
Kosciusko Lowndes County	10	1900CST			0	0		Thunderstorm Wind (G60)
3 SE Artesia to	10	1908CST	22	440	0	55	60M	Tornado (F3)
2.5 SE Steens	10	1908CS1 1931CST		440	U	55	00101	Tornado (F5)
Lowndes County			o Lamar Co	unty, Alaban	na 2.5 miles		t of Steens, Mississip	-
Countywide		<b>1920CST</b> e thunderstorms p ne Mayhew area.	produced ha	lf dollar-size	0 d hail across	0 the cour	nty. Many of the rep	Hail (1.25) borts were in the western part of the county
Winston County		5						
7.7 NE Louisville to 1.5 SE Winston	10	1920CST 1934CST	12.5	400	0	0	15K	Tornado (F1)
	Northe		unty, resulti	ng in tree da				ter. It moved northeast across rural areas of this tornado moved into Noxubee County
Attala County								
9.5 S Boyette to 9 S Sallis	10	1930CST 1932CST	3	1000	0	0	15K	Tornado (F2)
	Madis		avelling eas	t-northeast, t	he tornado i	resulted i	n tree damage to ru	Boyette (5 miles northeast of Cameron in ral areas of Southeast Attala County. The
Leake County 4.5 NW Thomastown to	10	1932CST	4	1000	0	0	100K	Tornado (F2)
5.1 NNE Thomastown		1934CST						
	Count		ouse and a t	arn, as well	as uprooting	hundred	s of trees. The torn	moved across rural areas of northern Leake ado moved back into Attala County about 5
Attala County								
9.5 SSW Kosciusko to 7 S Kosciusko	10	1934CST 1940CST	3	1000	0	0	20K	Tornado (F2)
	crosse	d into Leake Cou	inty around	7:32 PM, bef	ore crossing	back inte	o Attala County at 7:	outh of Boyette around 7:30 PM. It briefly 34 PM. It moved north-northeast across the out 7 miles south of Kosciusko around 7:40

D			anu	Ullus	ual v	veat	her Phe	enomena
		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crop	ps Character of Storm
AISSISSIPPI, Central	1							
Noxubee County	-							
13.1 WNW Brooksville to	10	1934CST	8	400	0	0	15K	Tornado (F1)
7 NW Brooksville	northy		County befo	ore exiting th	ne county 7	miles nor		sville. It moved about 8 miles across extrem ville around 7:41 PM. As the tornado moved
Yazoo County	-			-	-			
Satartia	10	1935CST			0	0	2K	Thunderstorm Wind
	Severa	al trees were blow	n down acro	oss the area.				
Lowndes County	10	1026000	-	400	0	0	1.517	
2 SW New Hope to 3 ENE New Hope	10	1936CST 1942CST	5	400	0	0	15K	Tornado (F1)
5 ENERGY Hope		nado formed in L						bying many trees as it moved northeast. The vHope (near Forest, Alabama).
Oktibbeha County								
16 SE Starkville to 15.5 SE Starkville	10	1941CST 1945CST	1.5	400	0	0	10K	Tornado (F1)
	northy	ornado originally western parts of N	loxubee Co	unty, it briefl	y moved ac	ross extre	me Southeast Okt	sville around 7:20 PM. After moving throug tibbeha County, resulting in the destruction content of Starkville.
Lowndes County 2 W Crawford to	10	1945CST	27	400	1	0	100K	Tornado (F1)
4.5 SE New Hope	10	2015CST	21	400	1	U	100K	
Looka Countr		also destroyed. 7						he impending storm. Several homes and tree iles southeast of New Hope around 8:15 PM
Leake County Thomastown	10	1951CST			0	0	5K	Thunderstorm Wind
Thomastown		al trees were blow	n down arol	und the city	U	U	31	Thuhdeistorin wind
Leake County	Beven		in do win dros	and the enty.				
Thomastown	10	1958CST			0	0	15K	Thunderstorm Wind
	Severe power		noved acros	s the city, c	ausing mino	r damage	to a home's roof	, as well as knocking down several trees an
Attala County	10					0		
8 S Kosciusko	10 5	2000CST		41	0	0	2K	Thunderstorm Wind
Hinds County	Severa	al trees were blow	'n down acro	oss the area.				
Edwards	10	2003CST			0	0		Hail (0.75)
Noxubee County	10	2003051			U	v		Han (0.73)
Macon	10	2010CST			0	0	<b>4K</b>	Thunderstorm Wind
		al powerlines wer	e blown dov	vn across the		v	111	
Winston County 6 S Louisville to	10	2020CST	15	500	0	0	200K	Tornado (F1)
12 E Louisville	homes		several oth	er homes an	d outbuildin	ngs. Nu	merous trees wer	t-northeast, completely destroying two mobi e also snapped and uprooted. The tornac
Madison County				_				
7 SE Canton to	10	2034CST	2	50	0	0	15K	Tornado (F1)
OCE Conto	Th	2036CST	about 7 mi					ved east, several trees were uprooted near th Reservoir before dissipating around 8:36 PM
9 SE Canton			. The torna	do then brief	Ty passed ov			Reservoir before dissipating around 8.50 I Wi
			. The torna	do then brief	iy passed ov	er part or		Reservoir before dissipating around 8.50 f wi
Kemper County 12 W De Kalb	Natch	ez Trace Parkway 2125CST			0	0	25K	Thunderstorm Wind mage to a few buildings.
Kemper County	Natch	ez Trace Parkway 2125CST			0	0	25K	Thunderstorm Wind

Si	tor	m Data	a and	Unus	ual V	veat	her Phe	enomena
		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Croj	ps Character of Storm
MISSISSIPPI, Centra	1							
Smith County	-							
5 N Raleigh	10	2200CST			0	0	2K	Thunderstorm Wind
<b>N</b> • 0 4	Sever	al trees were blo	own down ac	ross the area.				
Marion County	11	0050CST	4	25	0	0	75K	Tormodo (E1)
3 N Sandy Hook to 5 NE Sandy Hook	11	0050CS1 0100CST	4	25	U	U	/3K	Tornado (F1)
Simpson County	unocc		ome was de	stroyed, with	another mo	bile hom	e receiving major	st before dissipating around 1:00 AM. On damage from a fallen tree. One house ha
Magee	15	1310CST			0	0		Hail (0.75)
Jefferson Davis County		1510651			v	v		Hun (0.73)
Bassfield	15	1446CST			0	0		Hail (0.75)
Jones County								
6 E Laurel	15	1528CST			0	0		Hail (0.75)
MISSISSIPPI, North Marshall County								
Byhalia	10	1730CST			0	0	5K	Thunderstorm Wind
		1735CST						
	A few	v trees were know	cked down.					
Lafayette County								
Countywide	10	1845CST 1900CST			0	0	100K	Thunderstorm Wind
	broke		a downed po	wer line produ				s destroyed by a fire started when a fallen tre cars. Trees and power lines were blown dow
Union County				e county.				
Pinedale	10	1900CST 1905CST			0	0	5K	Thunderstorm Wind
	Sever	al trees were blo	wn down.					
Tippah County	50.01		un do min					
Countywide	10	1910CST			0	0	10K	Thunderstorm Wind
		1915CST						
	Sever	al trees and pow	er lines were	knocked dow	'n.			
Alcorn County	10	10.40.007			0	0		
Corinth	10	1940CST 1945CST			0	0	50K	Thunderstorm Wind
								off its foundation. Some trees and power line
	were	blown down. So	me of the do	wned trees fel	l on cars and	l tempora	rily trapped a few	people in the cars.
Tishomingo County	10				<u>^</u>	0		
Burnsville	10	1942CST 1950CST			0	0	5K	Thunderstorm Wind
	Some	trees were knoc	ked down					
Lee County	bonne	uces were knot	action do with.					
Tupelo	10	1945CST			0	0	5K	Thunderstorm Wind
	Sovor	1950CST al trees were blo	wn down					
MISSISSIPPI, South	Sever	ai tiees were bio	own down.					
Jackson County								
7 N Ocean Spgs	05	1220CST			0	0	1.5K	Thunderstorm Wind
		and power lines	were blown	down.	Ŭ,	2		
MISSISSIPPI, Southe								
Wayne County								
Hiwannee	10	1600CST			0	0	20K	Thunderstorm Wind (G55)
		1602CST						
	0			blew down sev	veral trees n	ear the C	oit community, w	hich is east of Hiwannee. A couple of home
MISSOUDI Fact	also h	nad roof damage.						

**MISSOURI**, East

NONE REPORTED.

S	tori	n Data	and	Unus	ual W	/eat	her Phe	enomena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Perse Killed		Estimated Damage Property Crop	os Character of Storm	November 2002
MISSOURI, Lower									
MISSOURI, Northeas		E REPORTED.							
MISSOURI, Northwe		E REPORTED.							
<u>MISSOURI, Southeas</u> Mississippi County		E REPORTED.							
Dogwood to East Prairie	<b>09</b> A seve	2028CST 2030CST ere thunderstorm	produced la	rge hail, from	<b>0</b> the size of o	0 juarters a	at East Prairie to ne	Hail (1.50) early golf-ball size at Do	ogwood.
Bollinger County 1.5 N Marble Hill Cape Girardeau	09	2050CST	•	-	0	0		Hail (1.00)	-
County 2 SE Fruitland to 2.5 ESE Fruitland	<b>09</b> Near ti	2258CST 2259CST he intersection o	<b>0.8</b> f Highway	50 W and Coun	<b>0</b> tv Road 601	0 . a traile	25K r was demolished	<b>Tornado (F0)</b> and blown into a build	ing. Trees were blown
Cape Girardeau County		a metal barn roo							
Fruitland Stoddard County 1 S Dudley	09 10	2300CST 1417CST			0 0	0 0		Hail (0.75) Hail (1.00)	
MISSOURI, Southwe	<u>st</u>								
MONTANA, Central MTZ009>010-012-014- 044-047>049-051	• North	E REPORTED. 1 Rocky Mou 1 nern Rocky M						Lewis And Clark	- Toole - Blaine -
	16 17	1600MST 1000MST			0	0		High Wind (G63	3) <sup>M</sup>
	A higł Rocky	n wind event occ	late in the	afternoon on				winds began to pick u bugh the night, before d	
	Here is	s a list of some p	eak wind sp	eeds recorded	1:				
	Lewist		*		•		•	mph at 1940 MST; Cl 1 mph at 2330 MST.	ninook 11S wind gusts
	Gold I Pendro 0530 N	by 68 mph at 040 MST.	00 MST; A	ugusta 20S 59	9 mph at 044	0 MST;	Chouteau 2S 71 n	ss sustained winds of 4 nph at 0515 MST; and	Cascade 5S 69 mph at
MTZ009>010-012-046- 048	<ul> <li>North</li> <li>Front</li> </ul>	-	ntain Fro	nt - Easter	n Glacier	- Casc	ade - Eastern 1	Pondera - Southern	n Rocky Mountain
	18	0400MST 1300MST			0	0		High Wind (G74	4) <sup>M</sup>
	•	wind event occ			•		t and much of the decrease in intensit	adjacent Plains on the y around noon.	18th. Winds picked up
	Here is	s a list of some p	eak wind sp	eeds recorded	1:				
		de 5S 70 mph at t 1155 MST; and		-	-	0 MST;	Pendroy sustained	winds of 47 mph at 10	15 MST; Cut Bank 63

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated November 2002 Local/ Width Length Persons Damage Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm **MONTANA**, Central MTZ009>010-046-048 North Rocky Mountain Front - Eastern Glacier - Eastern Pondera - Southern Rocky Mountain Front 19 0000MST 0 High Wind (G57) M Δ 1200MST A high wind event occurred over the northern Rocky Mountain Front and the northern adjacent Plains on the 19th.Winds picked up in intensity during the early morning hours of the 19th, and began to decrease in intensity during the early afternoon hours. Here is a list of some peak wind speeds recorded: Cut Bank 60 mph at 0200 MST; Pendroy 18W 60 mph at 0400 MST; Dupuyer 60 mph at 0400 MST; Choteau 66 mph at 0428 MST; Saint Mary 9N 65 mph at 0500 MST; and Pendroy 18W 58 mph at 1120 MST. MTZ014-052 Southern Lewis And Clark - Jefferson 0000MST 23 0 0 **Heavy Snow** 1200MST Heavy snow began to fall in the Helena Valley and over northern Jefferson County during the early morning hours of the 23rd. The

Heavy snow began to fall in the Helena Valley and over northern Jefferson County during the early morning hours of the 23rd. The snow began to let up by late morning. The heaviest snow fell near Helena, in the mountains west and north of Helena, and over northern Jefferson County.

Here is a list of some of the snow fall reports received:

Helena 6 to 9 inches; Helena 20NW 12 to 18 inches; and Clancy 8 to 10 inches. Judith Basin - Fergus

0 0 High Wind (G58) <sup>M</sup>

A cold front moved through Central Montana during the late morning and early afternoon hours on the 25th. Near and just behind the passage of the cold front, winds gusted to over 60 mph at times.

Here is a list of some peak wind speeds recorded:

1000MST

1400MST

Little Rocky Mountains

25

Judith Gap 67 mph at 1150 MST; Forestgrove 19S 64 mph at 1200 MST; Garneill 6S 67 mph at 1200 MST; and Lewistown 22S 64 mph at 1200 MST.

MONTANA, East	
MTZ060	

MTZ050>051

	LILLIC	e Rocky Mountains			
	26	0744MST	0	0	High Wind (G60) <sup>M</sup>
	<i>c</i> 0	0844MST	N/C		
	69 mp	bh wind gust was recorded at Zortman RA	WS.		
<u>MONTANA, South</u>					
MTZ040	Park				
	16	1838MST	0	0	High Wind (G51) <sup>M</sup>
	51 mp	bh non-thunderstorm sustained wind			
MTZ034	Stilly	vater			
	18	1700MST	0	0	High Wind (G63) <sup>M</sup>
	Sustai	ined winds of 20-40 mph with a gust to 63	3 mph in Nye		
MTZ040	Park	· •	1 5		
	23	1500MST	0	0	Heavy Snow
		thes of new snow in Gardiner	Ū	Ū	1100 ( 9 1010 (
MTZ034	Stilly				
	23	1500MST	0	0	Heavy Snow
		tes of new snow in Nye	Ū	U	ficavy Show
MTZ056		tern Carbon			
W112030	23	1500MST	0	0	<b>H C</b>
			0	0	Heavy Snow
		nes of new snow in Red Lodge			
MTZ056		tern Carbon			
	23	1828MST	0	0	Heavy Snow
		nes of new snow in Belfry			
MTZ040	Park				
	23	1900MST	0	0	Heavy Snow
	10 inc	ches of new snow in Cooke City			
MTZ040	Park				
	24	0956MST	0	0	Heavy Snow
	6 inch	nes of new snow in Wilsall			·

		Time Local/	Path Length	Path Width	Numb Perso		Estimated Damage		November 2002	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	,	
MONTANA, South										
MTZ037	Carte				0	0			м	
	<b>29</b> 40 mph	1049MST non-thunders	torm sustaine	d winds at A	0 Izada	0		High Wind (G40)	191	
MTZ033	Fallon									
	<b>29</b>	1154MST		d and a de la d	0	0		High Wind (G40)	М	
MONTANA, West	40 mpn	non-thunders	torm sustaine	a winds at Da	iker					
MTZ001>002-004-006	Koote	nai/Cabinet	Region - V	Vest Glacie	r Region - I	Lower	Clark Fork Regio	n - Bitterroot / Sap	phire Mountains	
	09 10	0000MST 1200MST			0	0		Winter Storm		
			winter storm	events during	g the month f	or weste	ern Montana and north	a central Idaho occurre	d over this weekend.	
		The first of only two winter storm events during the month for western Montana and north central Idaho occurred over this weekend. Snowfall amounts ranged from 7 to 8 inches in the Bitterroot Mountains, to around one foot in the northwest Montana mountains; Flattop Mountain 10 inches, North Fork Jocko 13 inches, and Cool Creek 9 inches.								
MTZ004-006>007	-						ains - Butte / Pintla	ar Region		
	23	0400MST	8		0	0		Winter Storm		
	An arc	1600MST	noved over t	he continents	l divide and	stalled a	across southwest Mor	itana. Heavy snows we	re reported near the	
								east winds occurred as		
							snow amounts with t relvemile Creek Snote	his storm were 8 inch	es at Anaconda and	
NEBRASKA, Central		) Dasiii, / ilicii	es at Loio H	5. Springs, an	u over 8 men		ervennie Creek Snote	1.		
NEBRASKA, East	NONE	REPORTED.								
MEDIASIA, Last										
		REPORTED.								
NEBRASKA, Extreme	e North	<u>neast</u>								
	NONE	REPORTED.								
NEBRASKA, Extreme	e South	nwest								
	NONE	REPORTED.								
NEBRASKA, South C		KEI OKTED.								
NEBRASKA, West	NONE	REPORTED.								
<u>ILDIABIA, WESt</u>										
	NONE	REPORTED.								
<u>NEVADA, North</u> NVZ030>031-034>035	Աստոհ	oldt NEII-	o Crity D	uby Mount	oinc/F Uur	aboldt	Dongo White Dir			
11 1 2030/031-034/033	08	0100 - IN EIK	o Citty - K	uby Mount	anis/E fiui 0		Kange - winte Fi	Heavy Snow		
	09	0900PST								
			•					east central Nevada. Wild Horse and Wells		
	and Ch	arleston 4 inch	es; Lamoille	Canyon snot	el an estimat	ed 31 in	ches; Hole-In-The-Mo	ountain snotel an estim	ated 37 inches; Bear	
	Creek s inches.	snotel an estin	nated 20 inch	nes; Ward M	ountain Snot	el an es	timated 18 inches; an	d the Granite Peak sn	otel an estimated 14	
NEVADA, South	menes.									
Clark County	•									
Las Vegas	30	1800PST 1900PST			1	1		Flash Flood		
		moving rain s		•			•	. The runoff in the cit	ies drainage system	
	caused M57O	-	which trappe	ed four homel	ess men. One	e man dr	owned and another wa	as injured.		
NEVADA, West	WI5701	L								
NVZ003		er Reno/Car	son City/N	linden Are						
	07	0300PST 0600PST			0	0	0	High Wind (G65)	М	
	Multipl		f 55-65 mph	measured thr	oughout the 1	egion by	y automated sensors.			
	-	-	-			-				

		Time Local/	Path Length	Path Width	Numl		Estimated Damage		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
NEVADA, West									
NVZ003		ter Reno/Ca	rson City/N	/linden Are					м
NVZ004	07 Wost	0345PST ern Nevada 1	Rocin And	Dongo	0	0	0	High Wind (G73)	М
1112004	07	1500PST 1600PST	Dasin Anu	Kange	1	6	250K	High Wind (G61)	
	Silver	g wind gusts es Springs in Ly n was killed in t	on County.	An 11 vehic	le pile-up, in	cluding		on U.S Highway 95 Alt , resulted from the redu	
Douglas County	~-	1 (000000			0	<u>^</u>			
Minden	07 08	1600PST 1600PST			0	0		Heavy Rain	
	24 ho	ur rainfall total	of 1.75 inche	s.					
Washoe County	07	1000000			0	0			
Reno	07 08	1800PST 0830PST	D (	1105: 1	0	0		Heavy Rain	
NVZ002		er in southwest		d 1.25 inches	of rain.				
IN V 2002	6rea 07	ter Lake Tal 1800PST	loe Area		0	0		Heavy Snow	
	07	1200PST			U	U		neavy snow	
			ported an ove	ernight new si	now total of 2	2 feet at t	he 9200 foot elevation	on.	
NVZ003		ter Reno/Ca		•					
	08	0000PST 0100PST			0	0		High Wind (G100)	М
	An au	tomated weather	er station on '	Virginia Peak	near Nixon,	NV mea	sured wind gusts in	excess of 120 mph.	
NVZ003	Grea 08	ter Reno/Ca 0000PST	rson City/N	/linden Are	ea 0	0		High Wind (G50)	М
		0200PST						Ç (	
	Nume	rous wind gust	s in excess of	60 mph repo	rted by autor	nated we	ather stations.		
Washoe County									
Washoe City	08	0000PST 0800PST			0	0		Heavy Rain	
	-	er in east side of		• •		nfall total	of 1.5 inches.		
NVZ003		ter Reno/Ca	rson City/N	/linden Are					
	08	1600PST			0	0	5K	High Wind (G70)	
	Contra	1800PST	1 f . t W		- C	C-11	in Comon Citra		
NIV/7002	•	-			•	College	in Carson City.		
NVZ003		ter Reno/Ca	rson City/N	linden Are		0	50V	High Wind (C70)	
	08	1600PST 1800PST			0	0	50K	High Wind (G70)	
	Strong		large cottonw	ood tree onto	a home in C	lardnervi	lle, causing roof and	porch damage.	
NVZ002	-	ter Lake Tal	•					F	
	08	1800PST			0	0		Heavy Snow	
	09	0600PST						·	
	Mt. R	ose ski area rep	orted 12 inch	nes of new sno	ow in 12 hou	rs.			
NVZ003	Grea	ter Reno/Ca	rson City/N	/linden Are	a				
	08	2210PST			0	0		High Wind (G56)	М
		er report of win							
NVZ003	Grea	ter Reno/Ca	rson City/N	/linden Are	a				
	08	2215PST			0	0		High Wind (G61)	М
		t of 70 mph gu	-			ation.			
NVZ003		ter Reno/Ca	rson City/N	Ainden Are					
	09	2300PST			0	0		High Wind (G52)	М
	W7: 1	2330PST	h maaamd - 11	outomat-1	moor in	thorn W7	when County		
		gusts to 60 mp	•	automated s	ensors in sou	mern Wa	isnoe County.		
NEW HAMPSHIRI						<b>.</b>			
NHZ001>006-008>0				oos - North	iern Graft	on - No	rtnern Carroll - S	Southern Grafton - S	Southern Carrol
		rrimack - Be	ікпар		0	•		Maling	
	06	0000EST 1100EST			0	0		Moderate Snowfal	1
		1100EST							

		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage		November 2002	
Location	Date	Standard	(Miles)	(Yards)		Injured	Property Crop	os Character of Storn	a	
NEW HAMPSHIRE,	North	and Centra	1							
NHZ007	Sulli									
	06	0000EST			0	0		Heavy Snow		
NHZ014	Coas	0720EST tal Rockingh:	m							
	06	1044EST 1304EST			0	0		Coastal Flood		
NHZ001>003-005>010	Low pressure moving northeastward along the coast from the Mid-Atlantic States brought a mixture of weather to the state. About a inches of snow fell over much of Sullivan County before the precipitation changed to rain around daybreak. Across Merrimack Belknap, Grafton, Carroll, and Coos Counties, 2 to 6 inches of snow fell before the precipitation turned to rain. Along the immediate coast, most of the precipitation fell as rain, but high astronomical tide combined with northeasterly winds caused tidal flooding Particularly hard hit was the Hampton Beach area where many of the roads were flooded.									
NII20012003-0052010	Merr	rimack - Belk					Southern Gra			
	16 17	1900EST 1100EST			0	0		Moderate Snow	/1811	
NHZ004		hern Carroll								
	16	2100EST			0	0		Heavy Snow		
NHZ005>010-013>014	17 Sout	0900EST	Southon	n Connoll	Cullivon	Monni	maak Ballman	Strafford Inte	mion Dockinghom	
11120032010-0132014		tal Rockingha			- Sullivali -	Merri	mack - Deiknaj	) - Stranoru - Inte	erior Rockingham -	
	17	0000EST			0	0		Freezing Rain		
		2300EST								
		A rapidly intensifying area of low pressure moving northeastward from the Florida Panhandle on the morning of the 16th to the Delmarva Peninsula on the morning of the 17th to near Nova Scotia by the morning of the 18th brought a mixture of precipitation to								
	the state. About 6 inches of snow fell in northern Carroll County with 2 to 6 inches across most of the remainder of Rockingham and Strafford Counties where accumulations were generally 2 inches or less. The snow changed to sleet									
			-	-			-	-	ed branches and trees to	
NEW HAMPSHIRE,			ausing scatte	ered power o	utages. Coasta	al areas	and higher terrain	were hardest hit.		
NHZ011>012		<u>tin</u> hire - Hillsbo	rough							
	16	2200EST	lougn		0	0	150K	Ice Storm		
	17	1500EST								
	A major ice storm caused significant damage in southwest New Hampshire. There were numerous reports of downed trees, limb and power lines as a result of one-half inch of icing. An estimated 7,000 customers in Cheshire and Hillsborough Counties were le without power because of the storm. In the Monadnock Region, roads were nearly impassable from the wintry combination of snow and ice. A tree crashed through house in Marlborough after being weighted down by ice. Power outages were reported in Jaffrey, Rindge, Fitzwilliam, and Troy, ar									
NEW IEDSEV Namel		east as Manches	ster.							
<u>NEW JERSEY, Northeast</u>										
	NONI	E REPORTED.								
NEW JERSEY, South										
NJZ001-007>010-									astern Monmouth -	
012>027	· · · · · · · · · · · · · · · · · · ·									
	Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean - Southeas Burlington									
	Бигн 01	0000EST			0	0	0	Drought		
	25	0900EST			v	0	0	Diought		
	6th, N prelim averag of the emerg Penns F.E. V	An unseasonably wet November ended the meteorological drought across New Jersey. A series of northeasters on November 5th and 6th, November 11th and 12th, November 16th and 17th dropped more precipitation than is normal for the month of November. The preliminary statewide average monthly precipitation for November was 5.27 inches. Normal is 3.71 inches. On a county weighted average November monthly precipitation ranged from 4.1 inches in Warren County to 6.2 inches in Atlantic County. The wettest part of the state in November was the southeast. On November 25th, the Delaware River Basin Commission dropped their drought emergency for the entire Delaware River Basin. Streamflows have returned to normal. Lower basin reservoirs in Eastern Pennsylvania (Beltzville, Blue Marsh and Nockamixon) returned to normal and there was no longer a need for water storage in the F.E. Walter Dam (in Pennsylvania) to supplement the base flow of the Delaware River south of Trenton. The New York City								
	reserv	reservoirs at the headwaters of the Delaware River increased from 57.6 percent of capacity on November 1st to 71.5 percent of								

capacity on December 1st. Storage on December 1st was 13 percent above normal and 135 billion gallons greater (or 300 percent higher) than levels on December 1, 2001. By the middle of the month, the Monmouth County reservoirs (Manasquan, Swimming River and Glendola) were all between 90 and 100 percent of capacity. Even groundwater levels in the southern part of the state

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated November 2002 Local/ Width Length Damage Persons Property Location Date Standard (Miles) (Yards) Killed Injured Crops Character of Storm NEW JERSEY, South and Northwest (which normally are the last to respond) were rising. One last legacy of the drought was the death of thousands of Christmas tree saplings across the state. Christmas tree farms are not normally irrigated. It was estimated that 50 percent of seedlings and early age trees and 25 to 50 percent of young trees died of thirst. The November monthly precipitation in Trenton was 4.63 inches, at the Atlantic City International Airport was 5.96 inches (6th wettest on record) and 6.57 inches at the Marina within Atlantic City. NJZ012>014-014-Middlesex - Western Monmouth - Eastern Monmouth - Western Cape May - Eastern Cape May - Eastern 023>024-024>026 Atlantic - Eastern Ocean 0700EST 0 **Coastal Flooding** 05 Û 0 06 1100EST Some of the highest spring tides of the year combined with a weak onshore flow produced pockets of minor tidal flooding during the morning of the 5th. The following morning, a northeaster, combined with the spring tides, produced widespread minor tidal flooding as well as some isolated pockets of moderate flooding. The worst coastal flooding occurred in northern New Jersey and in the back bays. In Atlantic City, flooding occurred along the intersection of West End and Albany Avenues. The northeaster also produced some minor beach erosion, but less than what occurred with the mid-October northeaster. Highest tides included 7.60 feet above mean lower low water at Sandy Hook, 7.51 feet above mean lower low water at Cape May, 7.06 feet above mean lower low water in Atlantic City and 5.72 feet above mean lower low water in Sea Bright (Monmouth County). The northeaster responsible for the flooding moved from northeast Louisiana the morning of the 5th to Long Island by 7 a.m. EST on the 6th. The central pressure was about 995 millibars, slightly weaker than the mid-October northeaster. The northeaster's fast movement made this a one high tide cycle event which helped minimize the damage. NJZ013>014-020-026 Western Monmouth - Eastern Monmouth - Western Ocean - Eastern Ocean 1700EST 16 0 0 Strong Wind 17 0500EST NJZ014-020-023>026 Eastern Monmouth - Western Ocean - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean 17 0400EST 0 0 0 **Coastal Flooding** 0800EST A northeaster produced strong winds across Ocean and Monmouth Counties and some minor tidal flooding during the morning high tide on the 17th. The highest measured wind gust was 55 mph at Barnegat Light (Ocean County). Several trees were knocked down in Monmouth County. One downed tree in Middletown Township knocked out power for three blocks. During the morning high tide, minor flooding was reported on roads hugging Barnegat Bay and the Toms River in Ocean County. The tidal flooding was exacerbated by runoff from the heavy rain that fell during the night. Doppler Radar Storm Total Estimates ranged between one and three inches. Highest reported tides included 6.81 feet above mean lower low water at Sandy Hook and 6.80 feet above mean lower low water at Cape May. Minor tidal flooding normally begins with tides above 6.70 feet above mean lower low water. Only minor beach erosion was reported, but sand covered the boardwalk in Lavallette (Ocean County). The northeaster that affected the region moved from the eastern Gulf of Mexico the morning of the 16th, to near Cape May the morning of the 17th (central pressure about 1000 millibars) to Nova Scotia by the morning of the 18th. While the central pressure of this northeaster was not as low as some of the others so far this autumn, a high pressure system over New England and nearby Canada increased the pressure gradient which subsequently increased the wind and the onshore flow. NJZ001 Sussex 1800EST 16 0 0 Ice Storm 17 0800EST An ice storm affected higher elevations (mainly above 1,000 feet) of Sussex County during the night of the 16th. Between one and two inches of ice accrued to exposed surfaces. Numerous trees were knocked down and they toppled onto electrical transmission lines. Hardest hit were Vernon and Wantage Townships. In Vernon Township, the hardest hit areas were Barry Lakes, Hidden Valley, Highland Lakes, Lake Panorama and Lake Wanda. Jersey Central Power and Light and Sussex Rural Electric Cooperative reported about 2,500 of their customers lost power. A shelter was opened at the Highland Lakes Country Club in Vernon. Power restoration was complicated by trees and wires which continued to fall through Monday the 18th. Schools were closed in Vernon on the 18th because of tree debris on the roads. A tree fell on a shed in Vernon and a meter was ripped from another home. Otherwise, very little property damage was reported. Because the ground was still relatively warm, little ice accrued to road surfaces. Precipitation started as rain before dawn on the 16th and fell as rain most of the day. Freezing rain began mixing with the rain around 6 p.m. EST and precipitation changed to freezing rain over the higher terrain between 7 and 10 p.m. EST. In the valleys, precipitation fell as plain rain throughout this event. As another northeaster was heading northeast along the Atlantic Seaboard, a high pressure system built into nearby Canada and New England. The circulation around these two systems brought colder air near the surface into the Poconos and helped change the rain to freezing rain and sleet. Somerset County Countywide Flood

17 0432EST 0 0 19 0715EST 0 0

A northeaster produced steady rain, heavy at times, across Somerset County. This continued a trend of wetter than normal conditions that started in the first half of October and ended the drought. The rain began around sunrise on the 16th and continued steadily through the morning of the 17th. The heaviest rain fell between 1 a.m. and 2 a.m. EST on the 17th when 0.40 fell at the Somerville Airport. Doppler Radar Storm Total Estimates averaged between 1.5 and 2.0 inches. This was enough rain given the already near

		Time Local/	Path Length	Path Width	Numl Pers		Estim Dam			November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
NEW JERSEY, Sout	th and I	Northwest								
									and the Millstone Riv	
							•		ST through 1209 p.m	
									above its 9 foot floor	-
			-						T on the 18th. Storn of Mexico the morni	
					-				ia by the morning o	-
									a high pressure syste	
									unt of moisture that	
		pitated by this sy								
NJZ013>014-020-				rn Monmou	ith - West	ern Oce	an - West	ern Atla	ntic - Western Ca	ape May - Easter
022>023-025>026		ntic - Eastern	Ocean							
	23	0100EST			0	0			Strong Wind	
N17074	E t	1300EST								
NJZ024		ern Cape Mag 0100EST	y		0	0			High Wind (C50	м
	23	1300EST			U	0			High Wind (G50	)
	A rap		low pressur	e system that	went from th	ne eastern	Great Lake	s through	New England and th	e Canadian Maritim
									occurred between mi	
									ounty). Other peak w	
	-			•		•		*	mph in Sandy Hook	(Monmouth Count
NITZOO1 007 000	1	oh at Barnegat L	0		14 mph in Ca	ipe May (	Cape May C	County).		
NJZ001-007-009		ex - Warren -	Hunterdo	n	0	0			<b>6</b>	
	26 27	2200EST 0800EST			0	0			Snow	
									ssee Valley on the 2 t amounts in Sussex	
									ere, precipitation sta	
									the 26th and 1 a.m.	
									k longer in the valley	
									ove freezing for sev	
									nty a White Thanks	
									age (Sussex County)	
		ches in Hacketts			y), 2.8 inche	s in Susse	ex (Sussex C	County), 2	.7 inches in Marcella	a (Morris County) a
EW MEXICO, Cer			stown (wante	in County).						
	liti ai ai									
	NON	E REPORTED.								
NEW MEXICO, Sou	ith Cen	tral and So	uthwest							
NMZ025		hern Sacramo		tains						
	26	0400MST			0	0			Heavy Snow	
		1100MST								
		fall amounts ran	ged from 6 i	nches in Clou	dcroft to 11	inches in	Mayhill, all	within 12	hours.	
<u>IEW MEXICO, Sou</u>	itheast									
	NONI	E REPORTED.								
NEW YORK, Centr		E KEI OKTED.								
NYZ009-036>037-		hern Onedia	- Madison	- Southern	Oneida - (	<sup>¬</sup> henand	n - Atsea	Delav	vare - Sullivan	
045>046-057-062	11011	ner n Oncula		- Soutier ii	Offerua - v	Juchang	go - Otsegu	J - Delav	vare - Sumvan	
0402040 001 002	16	1300EST			0	0	85K		Ice Storm	
	10	0900EST			v					
	Prece	ding this event	a cold front	went through	the night o	f the 15t	h to the 16t	h. This c	dropped up to 4 inch	nes of snow but mo
	-	•					-		from the upper 20s	-
		•		*					pread copious moist	
	Water	equivalents we	ere between h	nair an inch a		nd a half	0	er amount	s were in Sullivan C	ounty. In general t

Water equivalents were between half an inch and an inch and a half. The higher amounts were in Sullivan County. In general the higher elevations had a thicker coat of ice. Above 1800 feet in Sullivan County the ice was one inch thick. Further north in Oneida and Madison Counties a northeast low level flow kept temperatures at or just below freezing for a longer period. The weight of the ice on the trees and wires brought down wires and closed roads. More snow the night of the 16th to the 17th brought more trees and wires down. Five to ten thousand customers lost power across the area. To a few hundred customers power was not restored for four days.

						_		
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Persor Killed I		Estimated Damage Property Crops	November 200 Character of Storm
NEW YORK, Central						-		
NYZ018	Onor 30	ndaga 2100EST			0	0		Heavy Snow
NEW VORK Coortel	Lake was h	effect snow mo	ved into northe	ern Onondag to 10 inche	a County late es across nor	e on the	30th. It continued	)th. This brought another blast of arctic a well into the first of December. The sno ocations which had this snowfall include
NEW YORK, Coastal								
<u>NEW YORK, East</u> NYZ032-039-041>043-		E REPORTED. hern Herkim	er - Fulton -	Northern	Saratoga -	Warre	n - Washington -	Southern Saratoga
050			i i untoni					
	05 06	1900EST 0700EST			0	0	110K	Snow
NYZ032>033-038>043- 047>054-058>061- 063>066	anothe winter into the northe line at the sto <b>North</b> <b>Wash</b> - <b>Eas</b> <b>Colum</b> 17 A stro the co The at Initial southy rain. I accrete freque combi and sp travel the wite	er round of uns er storm threshol he fall season re ern portions of the ad points northy orm. hern Herkim hington - Sch stern Albany mbia - Easter 0000EST 0900EST 0900EST ir was cold enou ly, the precipita ward. A 3-6 incc Freezing rain we ion was betwee ently gusted to 5 ination of snow, botty power loss conditions. As inter precipitated	easonably earl ds anywhere in sulted in many he Mohawk Va vard. However er - Hamilto oharie - Wes - Western I en Columbia eveloped off C: ape Cod by lat gh to produce tion fell as su h swath of sno as more extens n one-half and 30 mph and, v sleet and free ses elsewhere warmer air wo on on Sunday	y snow acro a eastern Nev downed lim lley. Snowfa , power outa on - Southe stern Sche Rensselaer - Western ape Hatteras e November a heavy wint how, or sno w fell north sive south of l one inch. ' vith lingering zing rain still in the Capita rked in, temp morning. Ho	ss the Capita w York, the v bbs trees and j ll amounts w ges were wid ern Herkim nectady - H - Eastern Ulster - Ea 0 on Saturday, 17. At the si of Albany. Af Albany, wh Western Ulsta g leaves on th l caused up t d District. In peratures fina owever, on the	l Distric weight o power life ere gene lepsread <b>eer - Fu</b> <b>Castern Rensse</b> <b>astern U</b> <b>0</b> Noveml ame time recipitati mixed. A swarme ere vount ere up to ere count the trees, o 1,000 additior Ily reach	t and points northw f a very wet snow of nes throughout the I rally in the 2-6 inch with as many as 46 alton - Montgom Schenectady - S laer - Western O Jlster - West	enough cold air in place, this storm spre- ard. While snowfall amounts did not reas on trees retaining their leaves unusually la Lake George Saratoga region, as well as the range from a Gloversville-Saratoga Sprin 5,000 people reported without power due arry - Northern Saratoga - Warren Gouthern Saratoga - Western Albar Greene - Eastern Greene - Wester Dutchess - Eastern Dutchess Winter Storm ssure center then slowly moved north alou f arctic air bled south from eastern Canador trion of the storm across eastern New Yor of snow was observed from about Albas ft, the snow changed to sleet, then freezin lost power in the Mid Hudson Valley. I ard hit where in addition to the ice, win s and power lines down. Further north, the ke George Saratoga region to loose powe of significant limbs on trees and dangero ng mark across the region, putting an end dditional snow fell. While these addition
		ulations were re Iudson Valley w	•		1	cky trav	el again late Sunday	y into early Monday. Some customers in the
NEW YORK, North			C	~				
	Nort	haast Clintan		Clinton -	Western F	cov - H	octorn Fecov	
NYZ028-031-034>035	Nort 06	0100EST	- Southwest	Clinton -	Western Es 0	ssex - E 0	Castern Essex 4K	Light Snow
	06 An are Virgir (Nove North	0100EST 0700EST ea of low pressu ia coast. This n ember 6th). Acro hern St. Law	re over the Oh ew storm syste oss this portion	io Valley we m moved no of northern I	0 eakened Tueso rtheast overn New York, go awrence	0 day even ight, and enerally	<b>4K</b> ing (November 5th) passed across south between 1 and 3 inc	) as a new storm system organized along the coastal New England Wednesday morning thes of snow fell.
NYZ028-031-034>035	06 An are Virgir (Nove	0100EST 0700EST ea of low pressu hia coast. This n ember 6th). Acro	re over the Oh ew storm syste oss this portion	io Valley we m moved no of northern I	0 akened Tueso rtheast overn New York, go	0 day even ight, and	<b>4K</b> ing (November 5th) passed across south	) as a new storm system organized along the coastal New England Wednesday morning
NYZ028-031-034>035	06 An ard Virgir (Nove North 17 18 A com sleet, near C genera	0100EST 0700EST ea of low pressu ia coast. This n mber 6th). Acro hern St. Law 0400EST 0400EST mplex storm sys freezing rain ar Cape Cod Sunda ally 2 to 4 inche	re over the Oh ew storm syste ss this portion rence - Sout tem which extu- d light snow a y night (Nover s.	io Valley we m moved no of northern 1 hern St. La ended along across St La nber 17th) w	0 eakened Tuess rtheast overn New York, ge <b>awrence</b> 0 the east coas wrence count vith snow acc	0 day even ight, and enerally 0 t of the 1 y during umulatio	4K ing (November 5th) passed across south between 1 and 3 inc 2K US from Cape Cod 5 Sunday. Colder ai	) as a new storm system organized along the coastal New England Wednesday morning thes of snow fell.

		Time	Path	Path	Numb	er of	Estimated	November 2002
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso		Damage Property Crop	
NEW YORK, North								
NYZ028-031	storm Sunda Frankl	system reorgan y night into e	ized and inte early Monday A number of	nsified near ( morning (N power outag	Cape Cod Sur lovember 17-	day nigł 18th) w	nt (November 17th ere generally 5 to	, November 17th. Colder air moved in as the a) with periods of heavy snow. Accumulations b 8 inches. Several school districts closed in ue to the heavy wet snow.
	17 18	0400EST 0800EST	- Southwe	St Clinton	0	0	10K	Winter Storm
	A con sleet, storm	nplex storm sys freezing rain ar system reorgan	nd light snow	across much	of northern Cape Cod Su	New Yo inday nig	ork during Sunday ght (November 17	od south to Cape Hatteras spread a mixture of , November 17th. Colder air moved in as the 7th) with heavy snow. Accumulations Sunday greatest amount reported was 12.7 inches in
NYZ026-029-031	Nortl 23	hern St. Law 0000EST 0800EST	rence - Sou	thern St. L	awrence - 8 0	Southw 0	est Clinton 2K	Light Snow
NYZ027>028-030-034	This s well a	verssure over w ystem moved the s in southwest p	hrough Main portions of Cl	e Saturday, N inton county,	lovember 23r with accumu	d. Perioo lations g		
	23	0630EST 0845EST			0	0	20K	Winter Storm
NYZ026>027-029>030-	This s Adiror	ystem moved t ndacks where m	hrough Main	e Saturday, I	November 23 n 6 and 9 inch	rd. Heav	vy snow in northe ow.	d with a storm off the east coast Friday night. ern New York was generally restricted to the outhern Franklin - Western Essex
034								
	29	0400EST 1400EST			0	0	5K	Light Snow
								9th. The associated Warm front moved across Generally around 4 inches of snow fell.
NEW YORK, West	0	<b>.</b> .						
NYZ006-008	Oswe	ego - Lewis 1015EST			0	0	10K	Heavy Snow
	02	2040EST			Ū	v	TOTA	
Cattaraugus County	across reorga	the Tug Hill I nized across p	Plateau remainants of north	ining nearly s east Wayne,	stationary for northern Cay	almost /uga anc	twelve hours. The	e Ontario. The initial band of snow developed e plume became disorganized for awhile, but s. Reported snow totals included: (in Lewis <i>Minetto</i> 7 inches.
Limestone	10	2245EST			0	0	15K	Thunderstorm Wind (G50)
NYZ012>014-020>021		ming - Living	ston - Ont	ario - Catta				
	17	0500EST 0900EST			0	0	210K	Ice Storm
NYZ006>008-019>020	weigh counti	t of the ice and	snow brougl utomobile ac	nt down limb cidents, some	s and power with injuries	lines. Po , were b		ier and the western Finger Lakes region. The reported in Livingston, Allegany and Ontario onditions.
	28 29	1805EST 0700EST		Chautauqu	0	0	25K	Heavy Snow
	approx	westerly winds kimately 24 hou	urs. Reported	snow amour	nts off Lake I	Erie inclu	1	lake effect snow. The lake snows lasted for and Perrysburg 7". Off Lake Ontario, reports Lowville 10".
NORTH CAROLINA,	Cent	ral						
Harnett County Lillington	05	2300EST			0	0		Thunderstorm Wind (G50)
Formath Court	Steel s	studs at a constr	uction site we	ere blown dov	vn; large tree	limbs w	ere also blown dov	wn on Highway 401 north of Lillington.
Forsyth County Winston Salem	11 Trees	0730EST were blown dow	wn on Glenn	High Road ar	0 nd Salem Cha	0 pel Road	1.	Thunderstorm Wind (G50)

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
NORTH CAROLIN	A, Cent	ral						
Moore County Carthage	11 Trees	0855EST and powerlines	s were blown o	down	0	0		Thunderstorm Wind (G50)
Richmond County Ellerbe	11	0900EST			0	0		Thunderstorm Wind (G50)
Hoke County 8 NW Raeford	11	were blown do 0930EST	5		0	0		Thunderstorm Wind (G50)
Lee County Tramway	Trees	were blown do 0930EST	wn along Hig	hway 211.	0	0		Thunderstorm Wind (G50)
Wake County			s were blown o	down near So			Iighway 15-501.	
6 S Rolesville	11 Severa	1000EST al trees were bl	own down.		0	0		Thunderstorm Wind (G50)
Cumberland County 6 SW Godwin	<b>11</b> Trees	1015EST were blown do	wn near Smith	nfield Road a	<b>0</b> nd Highway	<b>0</b> 82.		Thunderstorm Wind (G50)
Johnston County Clayton	<b>11</b> Trees	<b>1015EST</b> were blown do	wn on Winsto	n Road.	0	0		Thunderstorm Wind (G50)
Sampson County Clinton	11 Severa	1025EST al trees were bl	own down on	State Road 1	<b>0</b> 317.	0		Thunderstorm Wind (G50)
Wayne County 7 N Goldsboro	<b>11</b> Trees	<b>1100EST</b> and powerlines	s were blown o	lown, and a t	0 ree fell onto	0 a car.		Thunderstorm Wind (G50) <sup>M</sup>
Sampson County 7 N Clinton	11 Severa	1105EST al trees were bl	own down alc	ng State Roa	<b>0</b> d 1627.	0		Thunderstorm Wind (G50)
Wayne County 5 SE Goldsboro	<b>11</b> Trees	1120EST were blown do	wn.		0	0		Thunderstorm Wind (G50)
Scotland County Wagram	12	0815EST 0930EST			0	0		Flash Flood
NORTH CAROLIN		een Road was ral Coastal		d with a foot	of water.			
Greene County Snow Hill to Lizzie	11	1122EST 1130EST			0	0	20K	Thunderstorm Wind (G52)
Bitt County		e thunderstorm alling tree in Li		1				to Lizzie. One pickup truck was destroyed
Pitt County Farmville	11 Nume	1125EST rous trees and j	power lines w	ere blown do	0 wn across Pi	0 tt county.	. One tree caused mine	<b>Thunderstorm Wind (G52)</b> or roof damage to a home in Greeville.
Pitt County Greenville Duplin County	11	1140EST			0	0	1K	Thunderstorm Wind (G52)
Warsaw Lenoir County	11	1133EST			0	0		Thunderstorm Wind (G52)
Kinston Martin County	11	1147EST			0	0		Thunderstorm Wind (G50)
Williamston to Jamesville	11 Severe	1202EST 1205EST e thunderstorm	winds knocke	ed down num	0 erous trees a	0 nd power	lines from Williamsto	Thunderstorm Wind (G50) on to Jamesville.
Duplin County Beulaville	11	1207EST			0	0		Thunderstorm Wind (G52) <sup>M</sup>

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
NORTH CAROLINA	A, Cen	tral Coasta	<u>l</u>					
Jones County								
Phillips Xrds to Comfort	11	1220EST 1230EST			0	0		Thunderstorm Wind (G52)
	Sever		winds blew d	lown numerou	is trees and p	ower lin	es across western Jon	les county.
Washington County								
Plymouth	11	1225EST			0	0		Thunderstorm Wind (G50)
Croven County	Sever	ral trees and pov	ver lines dow	n in and arour	nd Plymouth			
Craven County New Bern	11	1245EST			0	0		Thunderstorm Wind (G52)
itew bein			s were knock	ed down by h			nd New Bern, reporte	
Onslow County		Ĩ		•	0			-
North Topsail Beach	12	1155EST			0	0		Thunderstorm Wind (G52) <sup>M</sup>
Onslow County								
Swansboro	12	1214EST			0	0		Thunderstorm Wind (G54) <sup>M</sup>
Carteret County Cedar Pt to	12	1223EST			0	0		Thunderstorm Wind (G52) <sup>M</sup>
Salter Path	14	1225EST 1235EST			U	U		Thunderstorm wind (G32)
NORTH CAROLINA	A, Extr	reme Southy	vest					
Cherokee County								
Countywide	11	0137EST			0	0	15K	Thunderstorm Wind
		ral trees were re	ported down	across the cou	nty.			
NORTH CAROLINA	A, Nor	<u>th Coastal</u>						
Bertie County Windsor to	11	1230EST			0	0	2K	Thunderstorm Wind
Colerain	11	1250E51			U	U	28	Thunderstorm wind
	Trees	down at Repub	olican Road ir	n Windsor, and	l Pine Ridge	and Farl	ess Roads in Colerain	1.
Camden County								
Camden	11	1320EST			0	0	2K	Thunderstorm Wind
		s down. threast and i	North Cor	stual				
<u>NORTH CAROLINA</u> NCZ001>002-018		e - Alleghany						
11020012002-010	06	400EST	- watauga		0	0	10K	High Wind
	00	1930EST			Ū	Ū	1011	ingii () inu
						wned tree	es across Ashe, Alleg	hany, and Watauga counties. One tree for
	onto	a house in West	Jefferson dat	maging the ro	of.			
Rockingham County Stoneville	11	0755EST			0	0	0	Thur dougtown Wind
Stonevine	11 Thun	0755EST derstorms wind	s during the n	norning of the		0 d trees in	0 Stoneville	Thunderstorm Wind
NCZ001-018		e - Watauga	s during the h	norming of the	11th downe	a nees n	biolie ville.	
	30	2000EST			0	0	10K	High Wind
		2300EST						
	0	winds during th	ne afternoon o	of the 30th do	wned trees i	n Ashe a	nd Watauga counties	. In Boone a roof was damaged by a fall
NORTH CAROLINA	tree.	th Coastal						
New Hanover County	<b>1</b> , 500	tii Coastai						
Wrightsville Beach	12	1125EST			0	0		Thunderstorm Wind (G50) <sup>M</sup>
0	Wrig	htsville Beach p	olice departn	nent reported a	a measured 5	8 mph w	ind gust.	
Pender County								
2 NW Hampstead	12	1133EST			0	. 0	5K	Thunderstorm Wind (G56)
Pondor County	NWS	employee (off	auty) estimat	ed a 65 mph v	vind gust at l	nis reside	nce. The strong wind	ds blew a tree down onto a car.
Pender County Surf City	12	1145EST			0	0		Thunderstorm Wind (G59) <sup>M</sup>
zuri city		City bridge repo	orted a measu	red 68 mph w		U		-nunderstorm (find (052)
NORTH CAROLINA		• • •		r	5			
NCZ034-050-053-		well - Mitche	ell - Buncor	nbe - Burke	e - Catawb	a - Rutl	herford	
055>056-067	. ·							
	06	1000EST 2000EST			0	0		High Wind (G50)
	High	2000EST winds behind a	cold front ca	used numerou	s trees to fal	l across p	portions of the mount	ains and foothills of North Carolina.

High winds behind a cold front caused numerous trees to fall across portions of the mountains and foothills of North Carolina.

		Time	Path	Path		ber of	Estin		November 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per: Killed	sons Injured	Dan Property	nage Crops	Character of Storm
NORTH CAROLINA	, Sout	hwest							
Swain County	/								
Nantahala	11 Trees	0100EST were blown dow	n in Nantah	ala gorge Otl	0 her scattered	0 tree dam	1K	orted acro	Thunderstorm Wind (G50)
Graham County	11003	were blown dow	in in realitai	ana 50150. Ou	ier seattered	tice dam	uge was tep	oned dero	ss the county.
Countywide	11 Nume	0100EST rous trees were l	nlown down	and power of	0	0 red across	<b>2K</b>		Thunderstorm Wind (G55)
Macon County	i vuine.	ious nees were i	Jown down	and power of	nages occur	ieu uerose	s the county	•	
10 N Franklin	11 A form	0130EST	in down		0	0			Thunderstorm Wind (G50)
Transylvania County	Alew	trees were blow	n down.						
5 S Brevard	11	0415EST			0	0	1K		Thunderstorm Wind (G50)
	A nun	nber of tree and	power lines	were blown d	own.				
Henderson County									
Hendersonville	11 Severa	0430EST al trees were blo	wn down.		0	0			Thunderstorm Wind (G50)
Polk County									
Columbus	11	0500EST	1		0	0			Thunderstorm Wind (G50)
<b>Rutherford County</b>	Severa	al trees were blo	wn down.						
Forest City	11 Norma	0525EST		h1	0	0	3K		Thunderstorm Wind (G55)
Union County	Nume	rous trees and po	ower lines w	ere blown do	wn in and ne	ear Forest	City.		
5 N Marshville	11 N	0820EST	1	. 1	0	0	1K		Thunderstorm Wind (G55)
<b>Cleveland County</b>	Nume	rous trees were l	blown over o	or uprooted.					
Kings Mtn	12	1200EST 1600EST			0	0			Urban/Sml Stream Fld
	Clogg	ed storm drains	contributed 1	to flooding of	several stre	ets.			
NCZ033-048>050-052	Aver	y - Madison -	Yancey -	Mitchell - H	Iaywood				
	17	0300EST 2100EST			0	0			Gusty Winds
NCZ033-048>050-052	Aver	y - Madison -	Yancey -	Mitchell - H	Iaywood				
	17	0300EST 2100EST			0	0			Snow
		rst snow of the s usted to 45 mph			two of accu	mulation	to the highe	r elevation	s of the North Carolina mountains. Wind
NCZ033-048>050-052	Aver	y - Madison -	Yancey -	Mitchell - H	Iaywood				
	22 23	0600EST 0200EST			0	0			Gusty Winds
NCZ033-048>050-052	Aver	y - Madison -	Yancey -	Mitchell - H	Iaywood				
	22	0600EST			0	0			Snow
	23 Snow	0200EST accumulated to	as much as £	5 inches on th	e highest pe	aks along	the Tennes	see border	. Also, wind gusts resulted in scattered tro
		ge across the area			0 1	C			C C
NCZ048-050-052>053		ison - Mitchel	l - Haywo	od - Buncor					
	30	1200EST 1800EST			0	0			High Wind (G50)
		rous trees and la	rge tree lim	bs were blown	n down. Pow	er outage	es were also	reported.	
NORTH DAKOTA, C			•11 1			****		•1 •••	
017>023-025-031>037-	Dunr	n - Mercer -	Oliver - M	Iclean - Sh	eridan - V	Wells - 1	Foster - (	Golden V	rd - Mchenry - Pierce - Mckenzie 7alley - Billings - Stark - Morton
040>048-050>051		-		n - Slope -	Hettinger	- Gran	t - Bowma	an - Ada	ms - Sioux - Emmons - Logan - L
	Moui 29	re - Mcintosh 0800CST	- Dickey		0	0			High Wind (G61) <sup>M</sup>
		1915CST		<b>T</b> I 1 · · ·		a	1.1.0		
	produc	cing strong nort	hwest winds	s of 40 to 70 n	nph over we	stern and	central Nor	th Dakota.	pidly south through the state The winds diminished during the n Friday night and Saturday.

S	tor	m Data	and	Unus	ual W	Veat	ther Phen	omena	
		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	Noven	nber 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
NORTH DAKOTA, H	last								
NDZ008-016-027-030-		bina - Eastern	Walsh - (	Grand Fork	s - Traill -	Cass			
039									
	29	0415CST 1522CST			0	0		High Wind (G50) M	
				h the norther	n plains and	produced	l a period of strong w	inds. The highest gust was rep	ported at St
<u>OHIO, East</u>									
Coshocton County									
Canal Lewisville	10	1840EST			0	0		Hail (2.50)	
Tuscarawas County									
2 S New Philadelphia	10	1900EST			0	0		Hail (0.75)	
Carroll County									
2.5 SW Sherrodsville	10 IN QU	1930EST UEENSBORO			0	0		Hail (0.75)	
Carroll County									
Dellroy	10 TREF	1935EST ES DOWNED BY	WIND		0	0	5K	Thunderstorm Wind	
Coshocton County	11122								
Countywide	10	2045EST			0	0	10K	Thunderstorm Wind	
·	Trees	and power lines of	down.						
Columbiana County		1							
2 N East Palestine	10	2056EST			0	0	10K	Thunderstorm Wind	
	TREE	ES AND UTILITY	Y POLES E	DOWNED BY	WIND				
Guernsey County									
Cambridge	10	2105EST			0	0		Hail (0.75)	
Tuscarawas County									
3 S New Philadelphia	10	2108EST			0	0		Hail (0.75)	
Harrison County									
Countywide	10	2120EST			0	0	5K	Thunderstorm Wind	
	Sever	al trees down.							
Jefferson County									
Adena	10	2143EST			0	0	15K	Thunderstorm Wind	
<b></b>	Parts	of two roofs blow	n off on Ea	ast Main St.					
Belmont County	4.0				0	0			
Colerain	10 T	2150EST		0	0	0	2K	Thunderstorm Wind	
	Tree	blown down, acro	ss route 25	0.					
Jefferson County	10	<b>3150EGT</b>			0	0			N M
Steubenville	10	2150EST	own nowo	· lines outting	0 nower to 80	0 0 austor	2010	Thunderstorm Wind (G52	)
Belmont County	60 mf	oh gust knocked d	lown power	r nnes, cutting	, power to so	0 custon	lers.		
Flushing	10	2200EST			0	0	2K	Thunderstorm Wind	
Flushing		blown down, acro	ss route 14	9	U	U	21	Thunderstorm wind	
Columbiana County	iiee t	Slown down, dero	33 10 <b>u</b> te 14						
East Palestine	10	2204EST			0	0	1K	Thunderstorm Wind	
_ust i mestille		r lines blown dow	'n.		v				
Columbiana County									
Wellsville	10	2228EST			0	0	2K	Thunderstorm Wind	
		blown down.			-	-		1 I I II	
OHIO, North Wood County									
Wood County	10	1445000			•	0	20012		
Countywide	10	1645EST 1725EST			0	0	500K	Thunderstorm Wind (G50	)
	Star :-	1725EST	mm minde	anusad ann-i-	larabla dan	a 0.000-	Wood Country Com	aral homes and a garage were	domocad :

Straight line thunderstorm winds caused considerable damage across Wood County. Several homes and a garage were damaged in Tontogany. The Weston area was also hard hit. Several homes were damaged, a car was destroyed and 26 power poles were toppled on the northwest side of the town. Over a dozen trees were downed in Haskins and a semi truck was blown over on Interstate 75 near State Route 582. Scattered trees were also reported down elsewhere across the county.

		Time Local/	Path Length	Path Width		ber of sons	Estim Dam			November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
OHIO, North										
Wood County										
Jerry City	10	1654EST 1701EST	4.5	50	0	0	850K		Tornado (F1)	
	Seven northe it's fou Road. Route	homes sustained east a few hundre undation. From A home on Bl	d varying deg ed yards, the Jerry City, the loomdale Ro chicles were	grees of roof city mainten ne tornado mo ad was sligh	damage and ance garage oved northe tly damage	l three gan was leve ast across d with the	rages were d eled. As the open farmla e tornado fin	estroyed of tornado e and and de nally liftin	on the southwest side xited Jerry City, it I estroyed a large barn g near Reynolds Ro	iles before dissipating e of Jerry City. To the snocked a house off of as it crossed Huffma bad just north of Sta ath which was no more
Wood County		-								
Stony Ridge	10	1710EST	0.1	25	0	0	0		Tornado (F0)	
									tersection of U.S. H and caused no dam	lighway 20 and Stone
Wood County										
Millbury	10	1719EST 1720EST	0.5	25	0	0	325K		Tornado (F1)	
Ottawa County Port Clinton to Catawba Is	damaş 10	ge path which wa 1730EST 1745EST	as less then 2 10	5 yards in wi 50	dth. 0	4	13.5M		Tornado (F2)	
						E.		7		

#### Port Clinton tornado damage along Lake Erie near Lakeview Park.

A tornado touched down south of Port Clinton and then moved northeast entering the city just west of the intersection of Wilcox Road and Fulton Road. The tornado moved through the heart of the city reaching Lake Erie at Lakeview Park. From there, the tornado moved northeast over Lake Erie to Catawba Island where it finally dissipated after a ten mile long damage path. Four people suffered minor injuries as a result of the tornado. Hardest hit was the Lakeview Park area where two condominiums were blown off their stilts into Lake Erie and many other structures where destroyed. The initial storm damage in Port Clinton occurred along 11th Street where several homes were heavily damaged or destroyed. Significant damage also occurred near 8th and Fulton Streets. As the tornado moved through the city, it damaged the local high school and a hospital. Significant damage also occurred on Catawba Island with several homes damage path with approximately 60 additional homes damaged enough to be deemed uninhabitable. Another 80 structures sustained minor to moderate amounts of damage. The damage path was typically no more than 50 yards in width. Dozens of vehicles were damaged or destroyed by the tornado and hundreds of trees and power poles were toppled.

		Time Local/	Path Length	Path Width		iber of	Estin		November 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dam Property	age Crops	Character of Storm
OHIO, North									
Morrow County									
Denmark	10	1650EST			0	0	10K		Hail (1.75)
	Golf b	oall size hail was	s observed ne	ar Denmark.					
Hancock County									
Findlay	10 Walm	1655EST at size hail was o	observed six	miles southea	0 st of Findla	<b>0</b> y.	15K		Hail (1.50)
Hancock County						•			
Mt Blanchard	10 Thunc	1655EST derstorm winds	downed trees	in Mount Bla	0 anchard.	0	20K		Thunderstorm Wind
Lucas County									
Whitehouse	<b>10</b> Thunc	1655EST derstorm winds of	lowned a fev	v trees a mile	0 south of W	0 hitehouse.	10K		Thunderstorm Wind
Morrow County									
Mt Gilead	10 Thung	1655EST derstorm winds of	lowned sever	ral trees and a	0 few power	0 poles five	30K miles north	ı of Mount	Thunderstorm Wind t Gilead.
Wood County					· · · I · · · ·	1			
<b>Bowling Green</b>	<b>10</b> Thunc	1701EST derstorm winds	estimated to	be in excess o	<b>0</b> of 60 mph 1	0 blew a sem	100K ii truck ove	r on Inters	Thunderstorm Wind (G52) state 75 ten miles north of Bowling Green
	A car	was also damag	ed.		-				-
Hancock County									
Jenera	10 Quart	1705EST er size hail was	observed.		0	0	10K		Hail (1.00)
Hancock County									
Findlay	10 Dime	1707EST size hail was ob	served south	west of Findla	0 ay in Libert	<b>0</b> y Townshi	p.		Hail (0.75)
Seneca County									
New Riegel	10 Quart	1710EST er size hail was	observed nea	r New Riegel	0	0	5K		Hail (1.00)
Marion County									
Morral		1715EST s to golf ball siz chool building th							Hail (2.50) iil caused an estimated \$25,000 in damag lso damaged.
Seneca County									
Tiffin	<b>10</b> Half d	1715EST lollar size hail w	as observed	seven miles e	<b>0</b> ast of Tiffir	<b>0</b> 1.	20K		Hail (1.25)
Richland County									
Ontario	<b>10</b> An of	1716EST f duty National	Weather Serv	vice employee	0 observed a	0 funnel clo	oud over Or	ntario movi	Funnel Cloud ing northeast. No damage occurred.
Marion County									
Marion	<b>10</b> Quart	1717EST er size hail was	observed nor	th of Marion.	0	0	5K		Hail (1.00)
Richland County									
Mansfield	<b>10</b> Quart	1720EST er size hail was	observed two	miles north o	0 of Mansfiel	<b>0</b> d.	5K		Hail (1.00)
Crawford County									
Bucyrus	10	1730EST 1745EST			0	0	5K		Hail (0.75)
	Dime	size hail was ob	served.						
Marion County Countywide	10	1730EST			0	0	100K		Thunderstorm Wind
		1800EST derstorm winds	downed man	y trees in the	western ha	ulf of the c	county. At	least two	homes in Marion were damaged by falle
<b>Richland County</b>	trees.								
Olivesburg	10 Quart	1730EST er size hail was	observed the	e milee weet	0 of Oliveshi	0	5K		Hail (1.00)
Ashland County	Quart	er size nam was	JUSEI VEU UIIT	a mines west	or Onvesol	ug.			

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
OHIO, North								
Morrow County								
Mt Gilead	10 T	1740EST	1 1		. 0	0	30K	Thunderstorm Wind
Ashland County	Inunc	derstorm winds o	iowned seve	ral power pole	es six miles s	south of r	Mount Gilead.	
Nankin to	10	1745EST			0	0	5K	Hail (1.00)
Polk		1750EST						
~ ~ .	Quart	er size hail was	observed at N	Vankin and Po	olk.			
Crawford County	10	1845500			0	0	<b></b>	
Countywide	10 Thung	1745EST derstorm winds of	lowned a fev	v trees and lar	0 ge limbs in t	0 the countr	25K	Thunderstorm Wind
Huron County	Thun	derstorm winds e		v uces and fai	ge milos m e	iie couiit <sub>.</sub>	y.	
Countywide	10	1745EST			0	0	100K	Thunderstorm Wind
		1815EST						
				y trees in Wi	llard, North	Fairfield	and near Norwalk.	Two homes were significantly damaged by
Sandusky County	fallen	trees in Willard	•					
Bellevue	10	1745EST			0	0	15K	Thunderstorm Wind
Denevue		derstorm winds of	lowned man	y trees on the	-			
<b>Richland County</b>				·				
Olivesburg	10	1755EST			0	0		Hail (1.75)
	C-161	1758EST		L		f Ol'1		
Erie County	Golf t	ball to quarter siz	ze hall was o	bserved three	miles west c	of Olivest	burg.	
Milan	10	1757EST			0	0	25K	Thunderstorm Wind
			oppled five j	ower poles a	long U.S. Ro			en Mason Road and State Route 13.
Erie County					÷			
Vermilion	10	1810EST			0	•	(0017	Thundoustown Wind
					U	0	600K	Thunderstorm Wind
	Thunc	derstorm winds				n. Many	trees and limbs were	e downed and a mobile home was knocked
	Thunc off it's	derstorm winds of foundation and	l heavily dan	naged. At a	marina, seve	n. Many ral large	trees and limbs were	e downed and a mobile home was knocked
Ashland County	Thunc off it's	derstorm winds	l heavily dan	naged. At a	marina, seve	n. Many ral large	trees and limbs were	e downed and a mobile home was knocked
Ashland County Ashland	Thunc off it's	derstorm winds of foundation and	l heavily dan	naged. At a	marina, seve	n. Many ral large	trees and limbs were	e downed and a mobile home was knocke lamaged when the racks holding them wer
•	Thund off it's blown 10	derstorm winds s foundation and n over by the hig	l heavily dan h winds spill	naged. At a ming the boats	marina, seve on to the gro 0	n. Many ral large ound. 0	trees and limbs were boats were heavily d 20K	e downed and a mobile home was knocked
Ashland	Thund off it's blown 10	derstorm winds s foundation and n over by the hig 1815EST	l heavily dan h winds spill	naged. At a ming the boats	marina, seve on to the gro 0	n. Many ral large ound. 0	trees and limbs were boats were heavily d 20K	e downed and a mobile home was knocked amaged when the racks holding them were
Ashland	Thund off it's blown 10 Thund 10	derstorm winds of s foundation and n over by the hig <b>1815EST</b> derstorm winds of <b>1815EST</b>	l heavily dan h winds spill lowned seve	naged. At a maged, At a maged ing the boats ral trees on th	marina, seve on to the gro 0 e west side o 0	n. Many ral large und. 0 of Ashlan 0	trees and limbs were boats were heavily d 20K d. 30K	e downed and a mobile home was knocked lamaged when the racks holding them were Thunderstorm Wind Thunderstorm Wind
Ashland Lorain County Amherst	Thund off it's blown 10 Thund 10	derstorm winds of s foundation and n over by the hig <b>1815EST</b> derstorm winds of <b>1815EST</b>	l heavily dan h winds spill lowned seve	naged. At a maged, At a maged ing the boats ral trees on th	marina, seve on to the gro 0 e west side o 0	n. Many ral large und. 0 of Ashlan 0	trees and limbs were boats were heavily d 20K d.	e downed and a mobile home was knocked lamaged when the racks holding them were Thunderstorm Wind Thunderstorm Wind
Ashland Lorain County Amherst Wayne County	Thund off it's blown 10 Thund 10 Thund	derstorm winds of s foundation and n over by the hig <b>1815EST</b> derstorm winds of <b>1815EST</b> derstorm winds of	l heavily dan h winds spill lowned seve	naged. At a maged, At a maged ing the boats ral trees on th	marina, seve on to the gro 0 e west side o 0 east one hon	n. Many ral large und. 0 of Ashlan 0 ne was da	trees and limbs were boats were heavily d 20K d. 30K umaged by fallen tree	e downed and a mobile home was knocked lamaged when the racks holding them were Thunderstorm Wind Thunderstorm Wind S.
Ashland Lorain County Amherst	Thund off it's blown 10 Thund 10	derstorm winds of s foundation and n over by the hig <b>1815EST</b> derstorm winds of <b>1815EST</b> derstorm winds of <b>1815EST</b>	l heavily dan h winds spill lowned seve	naged. At a maged, At a maged ing the boats ral trees on th	marina, seve on to the gro 0 e west side o 0	n. Many ral large und. 0 of Ashlan 0	trees and limbs were boats were heavily d 20K d. 30K	e downed and a mobile home was knocker lamaged when the racks holding them wer Thunderstorm Wind Thunderstorm Wind
Ashland Lorain County Amherst Wayne County	Thunc off it's blown 10 Thunc 10 Thunc 10	derstorm winds of s foundation and n over by the hig <b>1815EST</b> derstorm winds of <b>1815EST</b> derstorm winds of	l heavily dar h winds spill downed seve downed seve	naged. At a ming the boats ral trees on th ral trees. At 1	marina, seve on to the gro 0 e west side o 0 east one hon 0	n. Many ral large und. 0 of Ashlan 0 ne was da	trees and limbs were boats were heavily d 20K d. 30K umaged by fallen tree	e downed and a mobile home was knocker lamaged when the racks holding them wer Thunderstorm Wind Thunderstorm Wind S.
Ashland Lorain County Amherst Wayne County Wooster	Thunc off it's blown 10 Thunc 10 Thunc 10	derstorm winds of s foundation and n over by the hig <b>1815EST</b> derstorm winds of <b>1815EST</b> derstorm winds of <b>1815EST</b> <b>1830EST</b>	l heavily dar h winds spill downed seve downed seve	naged. At a ming the boats ral trees on th ral trees. At 1	marina, seve on to the gro 0 e west side o 0 east one hon 0	n. Many ral large und. 0 of Ashlan 0 ne was da	trees and limbs were boats were heavily d 20K d. 30K umaged by fallen tree	e downed and a mobile home was knocker lamaged when the racks holding them wer Thunderstorm Wind Thunderstorm Wind S.
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		Time Local/	Path Length	Path Width		ber of sons	Estim		November 2002
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Killed	sons Injured	Dam Property	Crops	Character of Storm
OHIO, North									
Stark County									
Canton to Alliance	10	1845EST 1900EST			0	0	50K		Thunderstorm Wind
		derstorm winds ars were damage				nd Plain 7	Fownship ea	stward thr	ough the Louisville and Alliance areas. A
Stark County									
Hartville	10 A 62	1850EST mph thunderstor	rm wind gust	was measure	0 d near Harty	0 ville. Sev	20K eral trees an	d large lin	<b>Thunderstorm Wind (G54)</b> <sup>M</sup> abs were downed in the area.
Cuyahoga County		<u>r</u>	8						
Bedford	10 Thun	1900EST derstorm winds	downed one t	ree and sever	0 al large limi	0	15K		Thunderstorm Wind
Lake County	Thun	derstorm winds	downed one t	ice and sever	ai large iiii	53.			
Mentor	10	1920EST 1930EST			0	0	20K		Thunderstorm Wind
	Thun	derstorm winds	downed sever	ral trees south	of Mentor.				
Geauga County									
Chardon	10	1930EST 1940EST			0	0	35K		Thunderstorm Wind
	Thun	derstorm winds	downed many	y trees and lar	ge limbs no	rtheast of	Chardon in	Hambden	Township.
Mahoning County			-		0				
Berlin Center	10	1930EST			0	0	5K		Hail (1.00)
	Quart	ter size hail was	observed.						
Mahoning County									
Berlin Center to Austintown	10	1930EST 1940EST			0	0	25K		Thunderstorm Wind
	Thun	derstorm winds	downed two t	trees in Berlin	Center and	several n	nore in Aust	intown.	
Portage County									
Edinburg	10	1930EST			0	0	20K		Thunderstorm Wind
	Thun	derstorm winds	downed sever	ral power pole	es in Edinbu	rg Towns	ship.		
Holmes County									
Nashville to Millersburg	10	1940EST			0	0	150K		Thunderstorm Wind
		derstorm winds wo cars were als		ral trees acros	ss the count	y. A bar	n was blowr	n off it's fo	oundation near Nashville. A nearby house
Trumbull County			-						
Niles to Warren	10	2030EST 2040EST			0	0	75K		Thunderstorm Wind (G52)
		derstorm winds one house was d		1	U	rstate 80 i	near Niles.	Many tree	es were downed in Warren and Niles. A

least one house was damaged by fallen trees in Warren.

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated November 2002 Local/ Width Damage Length Persons Character of Storm Location Date Standard (Miles) (Yards) Killed Injured Property Crops **OHIO**, North Hancock County Arcadia 10 1657EST 3.5 50 0 0 11M Tornado (F2) 1702EST

#### Hanock County tornado damage on the southwest side of Fostoria along State Route 12.

An F1 tornado touched down to the northeast of Arcadia in northeastern Hancock County. The initial touchdown occurred just south of State Route 12 and to the east of County Road 330. From this location the tornado moved northeast and strengthened to F2 intensity as it entered the southwest end of Fostoria. Two businesses were heavily damaged on the outskirts of Fostoria along State Route 12. One of the two, a fertilizer business, had two of it's four buildings completely leveled and the remaining two heavily damaged. A nearby gas storage facility had two large storage tanks damaged. Nearby, the tornado derailed two railroad cars near the West Tiffin Street crossing and toppled 19 high voltage transmission poles interrupting power for a large area. Extensive damage was done to neighborhoods on the southwest side of Tiffin with Jeannette Drive, Vickie Lane and West Tiffin Streets hardest hit. As the tornado neared downtown Fostoria it tore the roof off of a high school which allowed rain water to enter the building and damage all three floors. Total damage to the school was estimated to be well over \$500,000. Just east of the school, the community hospital was hit and sustained over \$1 million in damage. The tornado lifted just east of the hospital and touched down a second time on the northeast side of Fostoria (Seneca County). In Fostoria, eight homes were destroyed with nine more homes damaged enough to be declared uninhabitable. An additional 60 to 70 homes sustained minor damage with dozens of cars damaged in varying amounts. Hundreds of trees and power poles were downed along the damage path which was around 50 yards in width.

continu	Dette	Time Local/	Path Length	Path Width (Vorda)	Numl Pers	ons	Estimate Damage		November 200
	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops Character of Storm	
<u>)HIO, North</u> Seneca County									
Fostoria to	10	1702EST	5.5	25	0	0	1.1M	Tornado (F1)	
Amsden		1710EST	-		No. of Street	-2	AND DESCRIPTION OF		
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	200			31	-			and the second second	
		and the second second	1 de la		100	-			
		a County tornad							
								touched down again on the nes before reaching the Fost	
								l northeast across open farm	
	and fir	nally dissipated	northwest of	Amsden nea	r the interse	ection of	County Road	3 and Township Road 172.	Several more hom
								also damaged and hundred	
	in wid		mage path fr	om this torna	do in Senec	a County	was roughly fi	ve and a half miles in length	and around 25 yar
Sandusky County									
Fremont to	10	1720EST	3.5	50	0	0	1.3M	Tornado (F1)	
		1725EST							Pood A house w
Fremont to	A torr	1725EST ado touched do	wn just north	west of Fren	nont near th	e intersec	ction of Shade	Road and Four Mile House	
Fremont to	A torr heavil around	<b>1725EST</b> ado touched do y damaged and d three and a had	wn just north a motor hom If miles and t	nwest of Fren e destroyed r hen dissipate	nont near th lear this loc d east of Sta	e intersec ation. Fr ate Route	ction of Shade om the initial t 19 just to the	Road and Four Mile House ouchdown site, the tornado t south of the Ohio Turnpike.	raveled northeast f A second home w
Fremont to	A torr heavil around heavil	<b>1725EST</b> ado touched do y damaged and d three and a had y damaged near	wn just north a motor hom If miles and t Booktown F	nwest of Frem e destroyed r hen dissipate coad at State	nont near th lear this loc d east of Sta Route 19.	e intersec ation. Fro ate Route Elsewher	ction of Shade om the initial t 19 just to the e along the dat	Road and Four Mile House ouchdown site, the tornado t south of the Ohio Turnpike. nage path, a few homes sust	raveled northeast f A second home w ained minor dama
Fremont to	A torr heavil around heavil and se	<b>1725EST</b> ado touched do y damaged and d three and a hai y damaged near wen barns were	wn just north a motor hom If miles and t Booktown F leveled. One	west of Fren e destroyed r hen dissipate coad at State e of the barns	nont near the lear this loc d east of Sta Route 19. contained a	e intersec ation. Fro ate Route Elsewhero a collectio	ction of Shade om the initial t 19 just to the e along the dat on of antique ca	Road and Four Mile House ouchdown site, the tornado t south of the Ohio Turnpike. nage path, a few homes sust urs which were destroyed. M	raveled northeast f A second home w ained minor dama
Fremont to Kingsway	A torr heavil around heavil and se	<b>1725EST</b> ado touched do y damaged and d three and a hai y damaged near wen barns were	wn just north a motor hom If miles and t Booktown F leveled. One	west of Fren e destroyed r hen dissipate coad at State e of the barns	nont near the lear this loc d east of Sta Route 19. contained a	e intersec ation. Fro ate Route Elsewhero a collectio	ction of Shade om the initial t 19 just to the e along the dat on of antique ca	Road and Four Mile House ouchdown site, the tornado t south of the Ohio Turnpike. nage path, a few homes sust	raveled northeast f A second home w ained minor dama
	A torr heavil around heavil and se	<b>1725EST</b> ado touched do y damaged and d three and a hai y damaged near wen barns were	wn just north a motor hom If miles and t Booktown F leveled. One	west of Fren e destroyed r hen dissipate coad at State e of the barns	nont near the lear this loc d east of Sta Route 19. contained a	e intersec ation. Fro ate Route Elsewhero a collectio	ction of Shade om the initial t 19 just to the e along the dat on of antique ca	Road and Four Mile House ouchdown site, the tornado t south of the Ohio Turnpike. nage path, a few homes sust urs which were destroyed. M	raveled northeast for A second home was ained minor damag
Fremont to Kingsway Marion County	A torr heavil around heavil and se poles <b>10</b> A sma	1725EST nado touched do y damaged and d three and a hai y damaged near ven barns were were also downe 1710EST dl tornado touch	wn just north a motor hom If miles and t Booktown F leveled. Ond ed along the d 0.1 ned down in	nwest of Frer e destroyed r hen dissipate toad at State e of the barns lamage path v 25 rural Marion	nont near th hear this loc d east of Sta Route 19. contained a vhich was g 0 County abo	e intersec ation. Fra ate Route Elsewhere a collection enerally r 0 put five m	ction of Shade om the initial t 19 just to the e along the dat on of antique ca to more than 50 <b>10K</b> hiles north of M	Road and Four Mile House ouchdown site, the tornado t south of the Ohio Turnpike. nage path, a few homes sust urs which were destroyed. M ) yards in width.	raveled northeast f A second home w ained minor dama Iany trees and pow of State Route 4 a

ocation	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estimate Damage Property		November 200
)HIO, North									
Richland County Ontario	10	1745EST 1746EST	1	25	0	0	200K	Tornado (F1)	
	4	<b>A</b> .					1. 3.4	6 de su	
	100	and the				1			
	-	É.		al hat	. All	17	N. 5.85		
	- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14		ETO	-					
			- M	10%					
						-	- is the		
	a set				pit		A THE ST		
					1	X			

#### **C**4 al Weathaw Dh D 4

Richland County tornado damage along Flowers Road west of Ontario.

A tornado touched down three miles west of Ontario just north of Flowers Road and about a mile west of State Route 314. The tornado traveled northeast and leveled a cinder block building and caused extensive structural damage to a house. A car parked near the house was punctured in several spots by debris and hand tools blown from the cinder block building. Many trees were downed along the damage path which was nearly one mile in length and about 25 yards in width. The tornado lifted just before crossing State Route 314.

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated November 2002 Local/ Width Damage Length Persons Standard Location Date (Miles) (Yards) Killed Injured Property Crops Character of Storm **OHIO**, North Ashland County Polk 10 1748EST 5.5 50 0 0 1.6M Tornado (F2) 1758EST

#### Tornado damage along Ashland County Road 620 just west of Albion.

A tornado touched down two miles southwest of Polk near the intersection of County Road 601 and Township Road 902. A new home at this location was destroyed. The tornado then traveled northeast across the western and northern portions of Polk. Two homes on the west side of Polk were heavily damaged and a small barn was leveled just north of town. Another 10 to 12 buildings, including two public buildings sustained minor damage in Polk. From Polk, the tornado traveled northeast across rural areas and passed just to the west of Albion. Two homes along County Road 620 just west of Township Road 521 lost entire roofs and had exterior walls partially or entirely knocked down. A nearby barn was leveled with debris thrown as much as one half mile. A small boat tethered in a pond near the barn was found a quarter mile away and the pond itself was filled with debris. A church in the area had it's steeple toppled. The tornado continued northeast and damage to require significant repairs. Approximately 30 additional homes and buildings suffered minor damage. A few dozen cars sustained varying amounts of damage. The tornado was on the ground in Ashland County for approximately five and a half miles with the damage path no more than 50 yards in width.

#### **Storm Data and Unusual Weather Phenomena** Number of Time Path Path Estimated November 2002 Local/ Length Width Persons Damage (Yards) Location Date Standard (Miles) Killed Injured Property Crops Character of Storm **OHIO**, North **Medina County** Homerville 10 1758EST 4 50 0 0 750K Tornado (F2) 1805EST

#### Tornado damage along Williams Road in southwestern Medina County.

A tornado moved into the county from Ashland County just to the east of Firestone Road. The tornado then traveled northeast through Homerville and finally dissipated about a mile and a half northeast of the town. The first significant damage in the county occurred along Williams Road where a newer two story home lost it's roof and most of the second floor. Several other homes and buildings in this area sustained minor damage. In Homerville, an auto repair shop was destroyed and several homes sustained moderate to minor damage. A barn was destroyed just southwest of town. Many cars were damaged and dozens of trees downed. The tornado was on the ground in Medina County for approximately four miles and had a damage path no more than 50 yards in width.

ocation	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		iber of rsons Injured	Estim Dam Property		Character of Storm	November 200
OHIO, North			()	()						
Wayne County										
West Salem to Burbank	10	1820EST 1827EST	5	100	0	0	1.2K		Tornado (F2)	
									1	
		-1	. 2. 3		-	rr				
	A	1 4 11	11	- 11	in l	F			X	
	1	1.00	- in-	-	and a	6			Y	
	-2017				ALCONT OF	- 11	and the		NACES OF THE OWNER	
		Wa As	Sec. St.	1 arts		Th Maria		and the second	a state of the sta	
	1									
		Second Second								
	P. Far		A CONTRACTOR	日本						
	10.00	10.00		14					and a start of the	

#### Wayne County tornado damage along Easton Road near West Salem.

A tornado touched down about four miles south of West Salem just east of State Route 301 along Pleasant Home Road. The tornado then traveled northeast for approximately five miles before dissipating two and one half miles southwest of Burbank near the intersection of Britton and Franchester Roads. Extensive damage was done along the damage path which was mostly around 50 yards in width but up to several hundred feet wide along Palmer Road. A home on Pleasant Home Road was heavily damaged as were three other homes on Easton Road to the west of Wohlganuth Road. Two more homes were severely damaged on Wohlganuth Road. A home and six outbuildings were destroyed as the tornado crossed Palmer Road about a mile east of State Route 539 (Wohlganuth Road). A second home was leveled on Ruff Road just to the west of Stratton Road. Finally, a home was heavily damaged near where the tornado dissipated. Several other homes and buildings sustained minor damage. Many vehicles were also damaged. At least 20 power poles were snapped and several hundred trees downed along the damage path.



The site of Seneca County tornado fatality. Located northwest of Republic near the intersection of County Roads 38 and 43. An F1 tornado touched down southwest of Tiffin near the Seneca County Airport. The tornado moved east northeast and strengthened to F3 intesity as it crossed U.S. Highway 224 and moved into Tiffin. The Honey Creek subdivision along County Road 19 near US 224 was hard hit. Six homes on Nantucket Drive in the subdivision were destroyed and many other homes damaged. As the tornado continued across the southern part of Tiffin it leveled a business along State Route 231 and destroyed several homes on Siesta Drive just east of State Route 231. A retirement community along St. Francis Avenue and just north of Siesta Drive was also hard hit by the tornado. Eight homes in the community were destroyed with five more damaged enough to be declared uninhabitable. Another 25 homes sustained lesser amounts of damage and several cars were found lying upside down. The tornado weakened to F2 intensity as it crossed State Route 100 and moved over Greenlawn Cemetary. From the cemetary, the tornado began to move in more of a northeasterly direction and briefly weakened to F1 intensity as it passed to the east of Heidelburg College. The tornado reintensified to F2 as it crossed State Route 18 and continued northeast across open country where it damaged many more homes and buildings. The tornado reached strong F3 intensity for several miles to the northwest and north of Republic. A 24 year old male was killed and two other people seriously injured when a home in Scipio Township on County Road 38 near County Road 43 was swept off of it's foundation. Two other homes nearby were also leveled. The tornado remained on the ground for another ten miles and gradually weakened to F2 intensity. It finally lifted south of State Route 18 near Fireside. Later, the same parent thunderstorm spawned another tornado a few miles away in Huron County. Overall, this tornado destroyed 32 homes and businesses, heavily damaged another eight and slightly damaged around 70 homes in Seneca County. Dozens of cars were also damaged and destroyed with downed trees and power poles numbering in the hundreds. The damage path from this tornado was roughly 21 miles in length and over 200 yards in width at times. M24PH

Huron County Hunts Corner to Monroeville

10	1742EST	7.5	50	0	0	800K	Tornado (F1)
	1750EST						

The same thunderstorm that produced the deadly Seneca County tornado spawned another tornado in northwestern Huron County. This tornado touched down near the intersection of Young Road and State Route 4 southeast of Bellevue and northwest of Hunts Corners. The tornado moved northeast for around seven and a half miles before entering Erie County north of Monroeville near the intersection of Section Line Road and State Route 113. The tornado caused some damage in Lyme Township. The township hall and garage located on Young Road near Section Line Road were severely damaged. Trucks and other heavy equipment stored in the garage were destroyed. As the tornado continued northeast it destroyed a few barns and caused minor damage to some homes. Many trees and power poles were downed along the damage path which was mostly 25 to 50 yards in width.

		Time Local/	Path Length	Path Width		ber of sons	Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	-	ops Character of Storm
OHIO, North								
Erie County								
Kimball to Milan	10	1750EST 1756EST	5	50	0	0	500K	Tornado (F1)
	State interse Town	Route 113. The ection of U.S. Hi	tornado co ghway 250 nes sustaine	ntinued east and State Ro ed minor dan	northeast in ute 13. Sevenage and sev	the coun eral high	ty for around fiv voltage transmiss	near the intersection of Section Line Road and e miles and dissipated north of Milan near the sion poles were toppled by the tornado in Mila l. Many trees were downed along the damage
<b>Richland County</b>		C C	•	•				
Mansfield	10	1825EST			0	0	8K	Thunderstorm Wind
	Thunc	derstorm winds de	owned three	e trees.				
Trumbull County								
Warren	10	1930EST	1.0		0	0	15K	Thunderstorm Wind
Warne Correta	Thunc	derstorm winds de	owned five	trees and mar	iy large limb	s in the V	Warren area.	
Wayne County Wooster to	10	1930EST			0	0	30K	Thunderstorm Wind
Smithville	10	1945EST			U	U	301	Thuhuerstorm white
	Thunc	derstorm winds de	owned many	y trees and la	rge limbs in	the Woos	ster and Smithvill	e areas.
Ashtabula County			•		0			
Jefferson	10	1940EST			0	0	5K	Thunderstorm Wind
	Thunc	derstorm winds de	owned a fev	v large tree li	mbs near Jef	ferson.		
Portage County								
Diamond	10	2000EST	_		0	0	10K	Thunderstorm Wind
	Thunc	derstorm winds de	owned sever	ral trees and I	arge limbs.			
Trumbull County Girard	10	2035EST			0	0	15K	Thunderstorm Wind
Giraru	10	2035EST 2040EST			U	U	15K	Thunderstorm wind
	Thunc	derstorm winds de	owned six la	arge trees.				
Mahoning County				C				
Youngstown	10	2045EST			0	0	15K	Thunderstorm Wind
-	Thunc	derstorm winds de	owned sever	ral trees on th	e north side	of Young	gstown.	
Stark County								
Massillon	10	1827EST 1832EST	3.3	25	0	0	850K	Tornado (F1)
	initial Route north and H damag Massi lost e were	touchdown site, 241 after being o of Valerie Street Iarris Avenue. T ged on Tremont . illon. A semi true ntire roofs in the	the tornado on the groun NW. The his segment Avenue and ck and seven area betwe royed by tree	o traveled not nd for about to tornado track t was also ro l several busi ral large sign en Nottingha ges and flying	rtheast along three quarter ed northeast ughly three nesses susta s were also l m and List a	g a track s of a min across Ja quarters of ined wind blown over Streets.	roughly parallel le. The tornado t ackson Street and of a mile in lengt dow and roof dat er in this area. F Many cars, include	ay West just west of State Route 21. From the to Lincoln Way and lifted to the west of State couched down a second time in Perry Township I dissipated near the intersection of Perry Stree th and around 25 yards in width. A home was mage as the tornado moved through downtown urther northeast in Perry Township, four home ding one with a board driven through it's door 23 properties sustained either roof and siding
Summit County								
Macedonia to Twinsburg	10	1900EST 1908EST	3.3	100	0	0	10.2M	Tornado (F2)
	northe	east. The tornad	o gradually	strengthened	l and reache	d F2 inte	ensity as it crosse	ew Drive (SR 631) and Aurora Road and move ed State Route 14 and moved into Twinsburg ed into Cuyahoga County south of Glenwillow

northeast. The tornado gradually strengthened and reached F2 intensity as it crossed State Route 14 and moved into Twinsburg. After a track of just over three miles the tornado weakened to F1 intensity and crossed into Cuyahoga County south of Glenwillow. Extensive damage was done in Macedonia and Twinsburg. In Macedonia, 60 homes were damaged including two that were destroyed and 15 others were damaged enough to be declared uninhabitable. The most severe damage in the county occurred in the Glenwood Preserve neighborhood on the north side of Twinsburg. Extensive damage was done on Andover Drive and Deeplake Circle where several homes were leveled and a total of 45 homes damaged. Damage estimates in Twinsburg alone were well over \$5 million. The damage path was continuous and about 100 yards in width. Dozens of cars were damaged or destroyed and hundreds of trees and power poles downed in Summit County.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estimated Damage Property Cre	November 20 Ops Character of Storm
OHIO, North								
Cuyahoga County Solon	10	1908EST 1915EST	4	100	0	0	6.8M	Tornado (F1)
	about busing on Se dama Solon dama occurr Solon cars v	four miles and c ess. After movin dworthy and Ho ged several more Middle School ges. As the torn ed along Liberty near Bainbridge were damaged or	lissipated to ng across a fa llycock Lan homes in th on SOM Ce ado continue Street near e Road after	the east of Sc ew open field es in the Lib- e Hunt Club nter Road jus d northeast it the railroad the damaging area	blon. The to s the tornade erty Hill su subdivision st north of <i>A</i> caused dam racks and or bund 100 ho	rnado cau o crossed bdivision near the i Arthur Ro age in the o Windy I mes in th	sed some home of into Solon along just north of Per ntersection of SC ad. The school se Ayleshire subdi- Hill Lane. The to e county. Most	Genwillow. The tornado traveled northeast lamage in Glenwillow and tore the roof off of Pettibone Road. Several homes were damage tibone. As the tornado continued northeas DM Center and Arthur Roads. Next hit was sustained over \$2 million in roof and structur vision along Aurora Road. More home dama prnado finally dissipated on the eastern edge of the home damage was minor, but dozens e damage path was generally 50 to 100 yards
OHZ014	width Asht	abula						
	27 28	2000EST 1100EST			0	0	40K	Heavy Snow
OHZ013>014	Lake the 28		ches of snow				unty from late in 150K	the evening on the 27th through the morning Heavy Snow
OHIO, Northwest	cause evenii	d lake effect sno ng of the 30th ar	w showers and continued	nd squalls to through the a	develop dur afternoon of	ing the af Decembe	ternoon of the 30	Cold west to northwest winds behind this from the theorem of the terms of
Van Wert County 3.6 NE Willshire to 6.6 E Scott	10	1515EST 1543EST	21.6	880	2	17	<b>30M</b>	Tornado (F4)
	A A	1	ju j			-	L. L.	1 AND AN

This picture is from the back seats of the Twin Cinemas. Cars from the parking lot are shown in the front rows of the cinema and where the projection screen had been. Photo courtesy of Paul Van Dyke.

This tornado touched down in the southwest corner of Van Wert County about 4 miles northeast of Willshire and moved northeast across the western portion of the city of Van Wert, and then crossed U.S. 30 and continued northeast before exiting the county about 7 miles east of Scott. NWS ground and aerial surveys showed the tornado quickly intensified to F4 about 5 miles southwest of the city of Van Wert near Zook road, where a 75 year old male was killed in his home. The tornado continued moving northeast as an F4 into the city of Van Wert, were it hit the Twin Cinemas and the Vision Industrial Park. At this point the tornado was about one half mile wide. 60 persons watching a movie in the cinemas, mostly children, took shelter before the tornado hit, with only minor injuries. Vehicles from the parking lot were thrown into the seats where the children had been sitting. An 18 year old male driving past the cinemas was thrown from his vehicle and killed. The tornado then destroyed five industries in the Vision Industrial Park, before northeast and crossed into Paulding county. 164 homes were damaged in Van Wert county, and 43 were totally destroyed. 27 businesses sustained damage, with 5 totally destroyed in Vision Park. Three county engineer buildings were destroyed, with one house used by a township. Total damage in Van Wert county was near 30 million dollars. M18VE, M75PH

St	tori	m Data	and	Unus	ual W	'eat	her Phe	enomena
		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage	November 20
Location	Date	Standard	(Miles)	(Yards)		Injured	Property Crop	os Character of Storm
OHIO, Northwest								
Paulding County								
3 SW Roselms to 2.4 SE Oakwood	10	1543EST 1558EST	9	440	0	0	0	Tornado (F3)
	county	ornado originate about 2.5 miles , with only one	s southeast	of Oakwood.	NWS ground	d and ae	rial survey found	es southwest of Roselms and exited Pauldi F3 damage along the entire path in Pauldi ch the town residents had taken cover in t
Putnam County 4.2 WSW Continental to 4.7 N Continental	10	1558EST 1603EST	7.2	440	2	0	0	Tornado (F3)
	Contir killing	ornado originateo nental. NWS gro	ound and ae wife. The to	rial survey fo rnado moved	und F3 dama northeast acr	ige as th oss the i	ne tornado entered northwest corner of	tham county about 4 miles west southwest Putnam county, striking a mobile home a f Putnam county, quickly weakening to an
Defiance County								
5.3 SE Ayersville to 4.1 SE Ayersville	10	1603EST 1609EST	3	50	0	0	0	Tornado (F0)
	corner produc	ornado originate of Defiance cou	inty about 5 o five home	miles southe	ast of Ayersv	ille. NW	S ground and aeria	ounties before entering the extreme southwe al survey found the tornado was skipping, a tornado then exited Defiance county about
Henry County		-						
6.2 SE Holgate to 2.1 SE Malinta	10	1609EST 1625EST	12	50	0	0	0	Tornado (F0)
	On Su Ahead Availa CAPE Indian over E (see S touche northe	l of the cold from able Potential En bad increased of apolis to Fort W Blackford county tormData, Indian ed down in Van	r 10th, 2002 nt the KILM ergy) of 114 on a modifie fayne Indian Indiana and na, Northea Wert Cour	V (Wilmington 48 J/kg and a ed sounding to a and Defianc 4 was moving st for more in thy Ohio, read	n, OH) 1200 Storm Relati to 1313 J/kg, y ee Ohio with northeast at formation) b ching F4 in	UTC so ve Helic with SRI the cold 50 MPH efore cr strength	unding showed ar ity (SRH) of 408 r H increasing to 58 front. A small low . This parent super ossing into Ohio. ' as it reached the	orthern Lake Michigan into central Missou n unstable airmass with CAPE (Convective m/s2. Another sounding at 1800 UTC show 7 m/s2. A broken squall line developed fro topped supercell developed ahead of the li rcell produced 3 seperate tornadoes in India There the supercell intensified and a torna city of Van Wert. The tornado then mov Putnam counties, and F0 damage in Defian
Henry County	anu n	enry counties.						
2 SE Hamler								<b>Thunderstorm Wind (G70)</b> hear 80 mph. This wind was likely downbu enry minutes earlier.
Allen County Cairo	10	1634EST			0	0	0	Thunderstorm Wind
Cally		f reported trees a	nd power li	nes down in C		U	U	
Allen County		•	-					
Lima	10 Sherif	1640EST f reported trees a	nd power li	nes down in a	0 nd around Li	0 ma.	0	Thunderstorm Wind
DHIO, Southeast								
Lawrence County Ironton	10 Nume	2033EST rous trees were b	lown down		0	0	1K	Thunderstorm Wind
Perry County	1 vanie							
Crooksville	10 Severa	2040EST al trees and large	branches w	ere knocked t	0 o the ground.	0	1K	Thunderstorm Wind
Gallia County	10	3100D0T			0	0	<b>A</b> 17	
Gallipolis	10 Large	2100EST tree branches we	ere snanned	off	0	0	2K	Thunderstorm Wind
Jackson County	Luige	are oranenes we	no snapped					
Cove	10	2125EST			0	0		Hail (0.75)

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	-	rops Character of Storm
OHIO, Southeast								
Athens County								
Athens	10 Sover	2150EST al trees were blov	un doun		0	0	1K	Thunderstorm Wind
Lawrence County	Seven	ai trees were bio	wii dowii.					
Coal Grove	10	2150EST			0	0		Hail (0.75)
Lawrence County								
Willow Wood	10	2200EST			0	0		Hail (0.75)
Lawrence County								
Ironton Callia Country	10	2205EST			0	0		Hail (0.75)
Gallia County Gallipolis	10	2214EST			0	0		Hail (1.00)
Meigs County	10	2214ES1			U	U		Hall (1.00)
2.5 SE Rolandus	10	2240EST			0	0	1K	Thunderstorm Wind
	Severa	al large branches	and a few t	rees were kno	cked down i	n the Gre	eat Bend vicinity.	
								e River Valleys. Temperatures across southeast
								degree range. A squall line developed along a e storms did not reach southeast Ohio until after
		Strong low level					e man me. The	e storms did not reach southeast Onio until arter
<b>OHIO</b> , Southwest		6		1				
Mercer County								
3 N Celina	10	1555EST			0	0		Hail (1.00)
T G (		1558EST						
Logan County 2 SE De Graff	10	1612587			0	0		$H_{2}$ : (1.00)
2 SE De Gran	10	1612EST 1616EST			U	U		Hail (1.00)
Montgomery County		1010251						
Riverside	10	1614EST			0	0		Hail (1.75)
		1618EST						
Darke County	10	1(22597			0	0	217	
Greenville	10	1622EST 1626EST			0	0	2K	Thunderstorm Wind (G50)
	Nume	erous trees were of	downed betw	veen Greenvil	le and Anso	nia.		
Greene County								
Fairborn	10	1622EST			0	0		Hail (1.00)
		1626EST						
Clark County 7 N Springfield	10	1630EST			0	0		Hail (0.75)
/ N Springheid	10	1634EST			U	U		Hall (0.75)
Logan County								
2 NE East Liberty to	10	1638EST	2	300	0	0	30K	Tornado (F3)
3 S West Mansfield	The te	1645EST	1	41		- f d		northeast continuing into Union Country Tran
		trailers and a she			eastern part	of the co	builty and moved	northeast, continuing into Union County. Two
Union County				0				
5 NW Raymond to	10	1645EST	7	300	0	2	500K	Tornado (F3)
2 N York Center	-	1649EST						
								g northeast across rural areas. Nine homes were s were destroyed. A 400-foot metal hi-tension
								brst damage occurred to a modular home along
		on-Perkins Road						
	Newto							
Union County	Newto							
Union County 4 NE York Center	Newto	1651EST	0.5	200	0	0	50K	Tornado (F1)
-	10	1653EST						
-	10 A torr	1653EST nado briefly touc						<b>Tornado (F1)</b> ds, causing damage to a barn and the roof of a
-	10 A torr	1653EST						
4 NE York Center	10 A torr	1653EST nado briefly touc						

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
OHIO, Southwest								
Champaign County	10	1/50500			0	٥		H 1 (1 00)
Mechanicsburg	10	1658EST 1702EST			0	0		Hail (1.00)
Auglaize County		1.02101						
Wapakoneta	10	1700EST 1705EST			0	0	2K	Thunderstorm Wind (G50)
	Two t	rees were knoc	ked down.					
Miami County								
West Milton	10	1709EST 1713EST			0	0	2K	Thunderstorm Wind (G50)
	Trees	limbs were dov	vned.					
Hardin County								
Ada	10	1720EST			0	0	50K	Thunderstorm Wind (G55)
	Four o	1723EST outbuildings we	re damaged a	nd a barn wa	s destroved.			
Logan County		0	0		j			
West Mansfield	10	1730EST			0	0		Hail (1.00)
Montgomery County		1734EST						
Oakwood	10	1730EST			0	0		Hail (0.75)
		1733EST						
Franklin County Port Columbus Arpt	10	1732EST			0	0		Hail (1.00)
i ore columbus riept	10	1735EST			Ū	Ū		
Champaign County								
Urbana	10	1745EST 1748EST			0	0	3K	Thunderstorm Wind (G50)
	Nume	rous trees were	knocked dov	vn.				
Hardin County	10				0	0	1077	
Countywide	10	1745EST 1805EST			0	0	10K	Thunderstorm Wind (G50)
	Nume	rous trees and j	power poles w	vere downed.				
Licking County	10	1550500			٥	٥		H 1 (1 00)
1 W Johnstown	10	1750EST 1754EST			0	0		Hail (1.00)
Miami County								
5 SE Tipp City	10	1753EST 1756EST			0	0	2K	Thunderstorm Wind (G50)
	Severa		e barriers wer	e blown over	at a construe	ction site	on State Route 202.	
<b>Butler County</b>		0						
Fairfield	10	1800EST			0	0	1K	Thunderstorm Wind (G50)
	Two t	1805EST rees were blow	n down.					
OHZ051>053-055-				- Franklin	- Preble - I	Montgo	mery - Greene - B	utler - Warren - Clinton - Hamilton
060>062-070>072-	- Clei	rmont						
077>078	10	1800EST			0	0		Flood
	10	2045EST			Ū	U		11000
								tral Ohio during the early evening hours.
		all amounts with on many roadw				u a nair	to four incres in only	three hours. The heavy rain caused high
Licking County		<b>,</b>		, ,				
St Louisville	10	1803EST 1807EST			0	0		Hail (0.88)
Clark County		1807EST						
New Carlisle	10	1820EST			0	0		Hail (1.00)
Delement Content		1824EST						
Delaware County Delaware	10	1840EST			0	0	2K	Thunderstorm Wind (G50)
•		1844EST			Ť	~		
	Power	lines were kno	cked down.					

		Time Local/	Path Length	Path Width		ber of sons	Estimate Damag	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops Character of Storm
OHIO, Southwest								
Greene County								
Xenia	10	1905EST			0	0	3K	Thunderstorm Wind (G50)
	_	1908EST						
Devery Country	Two ti	rees were knock	ed down on a	a house.				
Brown County Russellville	10	2004EST			0	0		Hail (0.75)
Kussenvine	10	2004EST 2008EST			U	U		Han (0.75)
Adams County								
4 W West Union to 3 W West Union	10	2015EST 2020EST	1.3	50	0	0	100K	Tornado (F1)
								amaged occurred at a farm where four barns wer urch sustained minor structural damage. At leas
		dozen trees were						
Fairfield County								
Millersport	10	2018EST 2022EST			0	0	5K	Thunderstorm Wind (G55)
	High v	winds caused mi	nor structura	I damage to s	everal home	es.		
Licking County	10	2025550			0	0		H 1 (0.77)
5 E Newark	10	2025EST 2028EST			0	0		Hail (0.75)
Adams County								
West Union	10	2030EST 2034EST			0	0		Hail (1.75)
Pike County								
Jasper	10	2030EST 2034EST			0	0	2K	Thunderstorm Wind (G50)
	A few	trees were knoc	ked down.					
Scioto County								
Portsmouth	10	2030EST 2035EST			0	0		Hail (1.75)
Pike County								
Piketon	10	2045EST 2049EST			0	0	5K	Hail (1.00)
Dear Courter	Large	hail caused dam	age to sever	al cars.				
Ross County	10	2100EST			0	0	2K	Thursdorgtorm Wind (C50)
Kingston	10	2100ES1 2105EST			U	U	21	Thunderstorm Wind (G50)
	Trees	and large limbs	were downed	d across the n	ortheast part	t of the co	ounty.	
Scioto County								
Lucasville	10	2100EST			0	0		Hail (1.00)
Hocking County		2105EST						
Logan	10	2130EST			0	0	1K	Thunderstorm Wind (G50)
	Two t	2134EST rees were downe	bd					
OHZ026-034>035-		lin - Mercer -		Darke - Sł	elby - Log	gan - Ur	ion - Madis	son
042>045-054	22	0800EST 1630EST			0	0		Winter Storm

Lake effect snow bands developed in northwest flow and moved across west central Ohio during the morning, continuing into the afternoon across central Ohio. Most areas received two to four inches, with higher amounts of 6 to 7 inches from Bellefontaine north to Kenton.

#### OKLAHOMA, Eastern

NONE REPORTED.

### **OKLAHOMA**, Extreme Southeast

NONE REPORTED.

Location OKLAHOMA, Panh	NONE tern, Ce	Time Local/ Standard E REPORTED. <b>ntral and So</b>	Path Length (Miles)	Path Width (Yards)	Numbe Perso Killed		Estimated Damage		November 2002
	none NONE	E REPORTED.	-	(Yards)	Killed	niured			
<u>OKLAHOMA, Panh</u>	NONE tern, Ce					injarea	Property Crops	Character of Storm	
	tern, Ce								
OKLAHOMA, West	NONE		outheast						
		E REPORTED.							
<u>OREGON, Central a</u> ORZ041>050			Divor Co	rgo North	Control O		Control Orogon	Lowor Columbia	Basin Footbills
UKZ0412030				-		-	-	- Lower Columbia hn Day Highlands	
		y - Wallowa (							
	01	0000PST			0	0	60K	Extreme Cold	
	04 An arc	2359PST	through the	a state on Oct	ober 20th bri	naina n	uch colder temperatu	res which lasted into	the first four days in
	Noven -6 at S	nber. Some of th	ne colder re aulina, 0 at	adings for the Madras, 6 at	first four day	s of the	month in degrees Fah	in Wasco county lost	Seneca, -7 at Austin,
ORZ043		al Oregon	the cold ter	iiperatures.					
	07	0300PST 0600PST			0	0	1K	High Wind	
								ly 9,000 residents in th	ne city of Bend were
ORZ047		Day Basin							
	07	0530PST			0	0	4K	High Wind	
							way 395 south of Joh fell on the roof of a F	nn Day. Spotter report Ford Taurus.	s indicated sustained
ORZ042		n Central Ore	gon						
	07 Strong	0700PST wind gusts part	ally blew a	roof off a bar	0 n 18 miles eas	0 at of Asl	2K	High Wind	
ORZ049		d Ronde Valle		1001 011 0 000	ii io iiiios cu	. 01 7 101	iwood.		
	12	0500PST 1300PST			0	0	5K	High Wind (G43)	М
	-		-	ed a tree, which	ch fell onto a i	nearby h	nouse, creating cracks	in the kitchen walls.	
ORZ049		d Ronde Vall	ey						
	16	0300PST 1000PST			0	0	1K	High Wind (G40)	М
				s tree branche	es in the Unior	n area. 1	In addition, a 14 inch	diameter tree broke in	half five miles north
ORZ042>043		n Central Ore	gon - Cen	tral Oregon					
	16	1100PST 1600PST			0	0	2K	High Wind (G37)	м
	-	winds blew do						isibilities due to blow highway. A portion	•
007044			-	k wind gust to	o 43 MPH was	s reporte	ed at the Redmond Air	rport at 1:57 PM PST.	
ORZ044	27	r Columbia B 0800PST	asin		0	2		Fog	
			y road cond	litions on Inter			d, which led to a roll-	0	
<b>OREGON</b> , Northwes		0 0	•						
ORZ001>002	North	nern Oregon (	Coast - Ce	entral Orego	on Coast				
	06	1200PST			0	0		High Wind (G58)	М
	08 A Deci	1500PST	t high win	to and coastal	flooding to th	o North	and Control Oragon	Coasta Nowport latty	reported quete to 62
	mph, H reporte Canno	Florence gusts to ed gusts to 50 m n Beach. 20 to	o 61 mph a nph. Coas 30 foot wa	nd Garibaldi g tal water floo ves swept one	gusts to 67 m ded 5 homes e family off a	ph. The in the rock at	Hatfield Science Cen Depoe Bay area. Win Oceanside, swept a v	Coasts. Newport Jetty nter in Newport and C nd whipped waves hit woman under a truck	Gleneden Beach both t Mo's Restaurant in at Barview Jetty and
	Course		nches of wa	ter and backe	d water towar	d nearb	y homes in Neskowin	looded the road aroun , though none were re	
ORZ011		iern Oregon (			J	1			
	08	1200PST			0	0		Heavy Snow	
	10	1200PST							

		Time Local/	Path Length	Path Width	Number Persor		Estimated Damage		November 200
Location	Date	Standard	(Miles)	(Yards)	Killed I	njured	Property Crops	Character of Storm	
OREGON, Northwes	st								
						-	ascades. Timberline tte Pass 12 inches.	e received 22 inches, Mt	. Hood Meadows 1
ORZ001>002		hern Oregon				manic	tte i ass 12 menes.		
	12	0500PST			0	0		High Wind (G58)	М
	W. a	0800PST	1	11 6		4 1	11	200	Decels Comm
			-		-		-	300 customers in Can Newport Jetty gusts to 4	
ORZ001>002		hern Oregon				- 70	r	1 , 3	I
	15	0600PST			0	0		High Wind (G70)	М
	16 A Pac	1300PST	tht strong wi	nds to the Ore	egon Coast as	it move	ed north along the c	oast to Vancouver Island	d. Garibaldi reporte
								mph, Lincoln County (	
	Newp	ort Airport gust	s to 58 mph	and Newport	Jetty 48 gusts	to 63 n	nph. Astoria Airpor	rt reported winds to 40 r	nph with gusts to f
	*						* *	ges in the Newport and	•
DREGON, Southeas	-	y companies rep	oneu outages	5 to 290 custo	illers ill Otter I	NOCK, O	00 III Souui beacii, a	nd 2000 in Lincoln City	•
	<u> </u>								
		E REPORTED.							
DREGON, Southwes	<u>st</u>								
Coos County Countywide	01	0001PST			0	0		Wild/Forest Fire	
Countywide	01	1200PST			U	U		whu/rorest rife	
	See b	elow.							
Curry County	01	0001007			0	0			
Countywide	01	0001PST 1200PST			0	0		Wild/Forest Fire	
	See b								
Douglas County									
Countywide	01	0001PST 1200PST			0	0		Wild/Forest Fire	
Jackson County		12001 51							
Countywide	01	0001PST			0	0		Wild/Forest Fire	
	G 1	1200PST							
Josephine County	See b	elow.							
Countywide	01	0001PST			0	0		Wild/Forest Fire	
·		1200PST							
	See b		was issued	at 1530 PDT	on $10/31/02$	and can	celled at 1200 PDT	f on 11/01/02. The way	rning was for strop
								0/621 and southern zon	
	incluc	le all or part of t	he above cou	nties.					
	This	warning verified	well as RH	and wind cr	iteria were me	at at Re	d Mound RAWS (	618), Onion Mountain I	PAWS (620) Eve
		tain RAWS (62						oro), Onion Wountain I	(120), Eva
ORZ021>022	Sout	h Central Or	egon Coast	- Curry Co	ounty Coast				
	<b>07</b>	0300PST		1 (0 )	0	0		High Wind (G89)	М
		Blanco observat				zones	ORZ021/022 at 045	0 PST on 11/06. The w	arning was extend
	-	-	-					PST on 11/07. The wa	-
		-			-	or 11 co	ontinuous hours exc	ept for one observation a	t Cape Blanco.
Curry County	The h	ighest wind spee	eds and gusts	are listed abo	ove.				
Brookings	09	0605PST	0.5	.1	0	0	500K	Tornado (F0)	
0		0610PST							
	-				-		hado that occurred 9		man and to- 1
				-				ore east of Harbor, C iches long pelted Brook	•
	river	valley as far as	3 miles inlar	nd from Broo	kings. This w	as follo	owed by a period o	f silence, after which th	e waterspout mov
				-				sheds, damaged fences, a mage was reported west	-
	were	reported for a d	INTALCE OF SE	VEDAL DIOCKS 2		VIEW R	uad – Addinonal da	made was reported west	LUL ELGENWAY 101

St	torr	n Data	and	Unus	ual W	eat	her Phen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Person Killed Iı		Estimated Damage Property Crops	Character of Storm	November 2002
OREGON, Southwest									
	indicat	was seen on ra					se. No injuries or fata at until 9 hours after i		
ORZ021>022	16	Central Ore 0500PST 0724PST			0	0		High Wind (G69	М
	A Hig statem	ent was issued,	g was issued an error, but	d for the coast t the warning	tal headlands of specified that w	vinds w	on zones ORZ021/02 yould diminish the after and gust at that location	ernoon of 11/16. Caj	
PACIFIC	warmin	ig for 9 hours, r	10111 0400-11	500151. The	strongest wind	ispecu	and gust at that localle	in is listed above.	
<u>PENNSYLVANIA, Ce</u>		E REPORTED.							
PAZ004>005	Warr 30	en - Mckean 1200EST			0	0		Heavy Snow	
		2359EST						-	
	intense combin snowfa	e snow squalls ned with gusty	across Warr west winds erally ranged	en and McKe of 25 to 30 m d from 6 to 13	an Counties o ph, created ne inches across	f north ar blizz Warre	<ul> <li>spilled over the relativest Pennsylvania. S and conditions at time n County, and 6 to 9 i r 1st.</li> </ul>	nowfall rates of up s within the heavies	to 2 inches per hour t snow squalls. Tota
PENNSYLVANIA, Ea	<u>ist</u>		-	-	-				
PAZ060>062-067>071	Berks 01	s - Lehigh - N 0000EST	orthampto	on - Chester	r - Montgom 0	ery - ] 0	Bucks - Delaware - 0	Philadelphia Drought	
	Noven of Nov Northa lifted t The di droppe in Easi storage York ( percen	her 5th and 6th wember. On a umpton Countie he drought emerger ad their drought tern Pennsylvar e in the F.E. W City reservoirs	n, November county weig s to 4.8 inch- orgency in ev- icy was lifte emergency nia (Beltzvil alter Dam ( at the heady December	r 11th and 12t ghted average es in Delawar very eastern P ed in those cc for the entire le, Blue Mars in Pennsylvar waters of the 1st. Storage o	h, November 1 November n e County. Norre ennsylvania cc ounties in Dec Delaware Rive sh and Nockar ia) to supplen Delaware Riv n December 1	16th and nonthly mal is a punty ex- cember. er Basin nixon) nent the er incre	ht across Eastern Pe d 17th dropped more precipitation ranged round 3.9 inches. On ccept Delaware and C On November 25th, h. Streamflows have r returned to normal ar e base flow of the De eased from 57.6 perce 13 percent above norm	precipitation than is from 3.9 inches in November 7th, Gove hester because of low the Delaware Rive eturned to normal. L and there was no low laware River south ent of capacity on N	normal for the month Monroe, Berks and rnor Mark Schweiker v groundwater levels. r Basin Commission ower basin reservoirs ger a need for water of Trenton. The New lovember 1st to 71.5
PAZ055		ational Airport v	• • •				inches, in Reading onal Airport was 4.61		t the Lehigh Valley
THEOUC	16	1700EST			0	0		Winter Storm	
	inch of custom ground fell as higher a.m. E Atlanti	f ice accrued to hers lost power l was still relati rain most of th terrain between ST. In the valle ic Seaboard, a	exposed sum in Monroe, vely warm, 1 e day. Sleet n 7 and 8 p.: ys, precipita high pressur	rfaces. Trees a Pike and Way little ice accru began mixing m. EST. A m tion fell as pla e system buil	and limbs were yne Counties. J led to road sur with the rain ixture of sleet ain rain throug t into nearby	e knock Most of faces. F around and fre hout thi Canada	of Monroe County dur- ted down. Pennsylvan f the power was resto Precipitation started as 6 p.m. EST and preci- pezing rain fell overni as event. As another no- e and New England. T	ia Power and Light red by midnight on rain during the pre- pitation changed to ght before it ended ortheaster was heading The circulation around	reported 23,000 of its the 17th. Because the dawn on the 16th and freezing rain over the between 7 a.m. and 8 ng northeast along the
Chester County Southeast Portion	17	0100EST	i the surface	linto the 1 oco	0	0	e the rain to freezing r	Flood	
Bucks County Dublin	17	0700EST 0211EST 0301EST			0	0		Flood	

S	tori	m Data	and	Unus	ual W	/eat	her Pher	nomena					
		Time	Path	Path	Numb		Estimated	Novemb	er 200				
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Damage Property Crops	Character of Storm					
PENNSYLVANIA, Ea	ast												
Delaware County													
Newton Square	17	0415EST 0659EST			0	0		Flood					
Montgomery County													
Schwenksville	17	0441EST 1105EST			0	0		Flood					
PAZ054>055-060>062- 067>069	steadil totals along couple a.m. E Count a.m. E above Cheste 17th. totals Count Intern eastern Nova autum the an	A northeaster produced steady rain, heavy at times, across southeast Pennsylvania. This continued a trend of wetter than normal conditions that started in the first half of October and ended the drought. The rain began before dawn on the 16th and continue steadily through the morning of the 17th. The heaviest rain fell between 10 p.m. EST on the 16th and 2 a.m. EST on the 17th. Storn totals averaged around 2 inches. This was enough rain given the already near saturated soil conditions to produce minor floodin along some of the smaller streams in suburban Philadelphia, particularly the East Branch of the Perkiomen Creek that flooded in couple of locations. In Bucks County, the East Branch of the Perkiomen Creek at Dublin was above its 5 foot flood stage from 21 a.m. EST through 301 a.m. EST on the 17th. It crested at 5.12 feet at 230 a.m. EST on the 17th. Farther downstream in Montgomer County, the East Branch of the Perkiomen Creek at Schwenksville was above its 7 foot flood stage from 441 a.m. EST through 110 a.m. EST on the 17th. It crested at 8.08 feet at 830 a.m. EST on the 17th. It crested at 6.58 feet at 6 a.m. EST on the 17th. It crested at 5.19 forge was above its 7 foot flood stage from 441 a.m. EST on the 17th. It crested at 7.73 feet at 300 a.m. EST on the 17th. Small stream flooding was also reported in Thornbury Township. Storn totals included 2.29 inches in Perkasie (Bucks County), 2.11 inches in Fricks (Bucks County), 1.90 inches at the Philadelphi International Airport and 1.63 inches in Pottstown (Montgomery County). The northeaster that affected the region moved from the eastern Gulf of Mexico the morning of the 16th, to near Cape May the morning of the 17th (central pressure about 1000 millibars) that subtrom in of Mexico the morning of the 16th, to near Cape May the morning of the 17th central pressure about 1000 millibars) that attered in the pressure system over New England and nearby Canada increased the pressure gradient which subsequently increase the amount of moisture that was ingeste											
0072007	26	2000EST			0	0		Snow					
PAZ068	Pocon with t Pocon 10 p.r. depen- were a Thank includ inches Count (Berks Interna	os, Lehigh Valle he highest amou os. Elsewhere, p n. EST on the 2: dent and took lo above freezing fo sigving (on the 2: ed 5.3 Blakeslee in Springtown ( y) and East Stro y), 2.6 inches in	ey, Berks C nts in Monu recipitation 6th and 1 a. orger in the or several da 28th). Schoo (Monroe C Bucks Coun budsburg (M Glenmoord	ounty and the oe County. F started as rai m. EST on the valleys. Exce ys prior to the ols were cance ounty), 5.0 in ty), 3.4 inch ionroe County c (Chester Co	e northwester recipitation l n during the te 27th. The 27th. The e 27th. The e snow's arriv eled on the 2 ches in Saylo 28 in William y), 3.0 inche unty), 2.5 in	n Philaco began an evening cold air bconos, t al. Cold 7th in Ji rsburg ( s Towns s in Hor ches in	lelphia suburbs. Acc d fell as snow throu of the 26th and mix near the surface wa the snow had a hard air arrived after the m Thorpe and Pleasa Monroe County), 4.4 ship (Northampton T ney Brook (Chester of Salisbury Township	see Valley on the 26th brought sno umulations ranged between 1 and ghout the event in the higher terra ed with and changed over to snow s limited and the changeover was time sticking to roadways as tem ow's passage and gave the Pocono nt Valley (Carbon County). Accur inches in Tobyhanna (Monroe Co ownship), 3.3 inches in Fogelsville County), and Mahoning Township (Lehigh County), 2.3 inches in Bu unty) and 1.2 inches at the Lehig	5 inche ain of th betwee elevation perature s a Whit mulation unty), 4. e (Lehig o (Carbo oyertow				
1112000	28	1900EST			1	0	0 0	Extreme Cold/Wind Chill					
		Montgomery C						vn. He was found dead in a stairwe es on the 28th and 24 degrees on					
PENNSYLVANIA, N													
PENNSYLVANIA, No Crawford County		E REPORTED. <b>est</b>											
Cochranton	10	2030EST	1	40	0	0	325K	Tornado (F1)					
	quarte	ers of a mile before	ore dissipati	ng. A barn	and small co	tage we	re completely destro	oads and then traveled northeast ab yed. Three homes and another si as approximately 40 yards in widt	mall bar				
Erie County Waterford	<b>10</b> Dime	2040EST size hail was obs	served.		0	0		Hail (0.75)					

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
PENNSYLVANIA, N	orthw	est						
PAZ001>002		hern Erie - S	outhern Ei	rie				
	22	1100EST 2300EST			0	0	100K	Heavy Snow
	An ar		ure moved e	ast across No	rthern Penns	ylvania di	uring the afternoon h	ours causing light to moderate snow to fall
					cumulations of	of up to 8	3 inches were reporte	d near North East with around 6 inches of
PAZ001>002		further inland in hern Erie - S	-	·				
1111001/002	27	2000EST			0	0	100K	Heavy Snow
	28 Laka	1100EST	ware offected	d Eria Countu	from lato in	the even	ing of the 27th throw	the morning of the 29th Up to 0 inches
							now falling at Erie In	gh the morning of the 28th. Up to 9 inches ternational Airport.
PAZ002>003	Sout	hern Erie - C	rawford		-		-	-
	30	1200EST 2359EST			0	0	250K	Heavy Snow
	An ar		lropped sout	heast across th	he region on	the morn	ing of the 30th. Cold	d west to northwest winds behind this front
	cause	d lake effect sno	ow showers a	and squalls to	develop dur	ing the af	ternoon of the 30th.	These snow showers intensified during the
								owfall amounts were across inland sections all totals ranged from over 12 inches in the
								accompanying the snow caused whiteout
DENINGVE VANILA V		tions at times al	ong with sig	nificant driftir	ıg.			
PENNSYLVANIA, V Mercer County	vest							
Sharpsville to	10	1954EST	7	500	1	19	1 <b>M</b>	Tornado (F2)
New Hamburg		2002EST			1 7	wout Islam	d Dood oost of Sham	osville. The tornado traveled northeast at 50
	Ctonti	na aharst 7.54 D	M on E2 tom					
		-						
	mph, 8:02 I	crossed Route PM. The tornado	18, then ripp o path was 7	ed into Clark miles long, al	t. It crossed bout 500 yard	Shenango ds wide a	River Lake and trac t its maximum, in the	ked to New Hamburg, where it dissipated town of Clark. Maximum winds estimated
	mph, 8:02 I 155 r	crossed Route PM. The tornade nph. Majority o	18, then ripp p path was 7 of damage ar	ed into Clark miles long, al nd all injuries	the crossed of the cr	Shenango ds wide a Clark. F	River Lake and trac t its maximum, in the Fifteen homes comple	cked to New Hamburg, where it dissipated town of Clark. Maximum winds estimated etely destroyed, 13 major damage, 29 had
	mph, 8:02 I 155 r minor	crossed Route PM. The tornade nph. Majority of damage. One b	18, then ripp p path was 7 of damage ar pusiness destri	ed into Clark miles long, al nd all injuries royed; 1 suffe	t. It crossed s bout 500 yard s occurred in ered major da	Shenango ds wide a Clark. F mage. A	River Lake and trac t its maximum, in the Fifteen homes comple large number of trees	cked to New Hamburg, where it dissipated town of Clark. Maximum winds estimated etely destroyed, 13 major damage, 29 had s were snapped or toppled. Large truck was
	mph, 8:02 I 155 r minor overtu dama	crossed Route PM. The tornado nph. Majority of damage. One b urned. One van ge. Strongest tor	18, then ripp p path was 7 of damage ar pusiness destr was thrown	ed into Clark miles long, al nd all injuries royed; 1 suffe a across Rout	t. It crossed a bout 500 yards occurred in bred major da the 258. Sever	Shenango ds wide a Clark. F mage. A ral other	River Lake and trac t its maximum, in the Fifteen homes comple large number of trees	cked to New Hamburg, where it dissipated town of Clark. Maximum winds estimated etely destroyed, 13 major damage, 29 had
Marcar County	mph, 8:02 I 155 r minor overtu	crossed Route PM. The tornado nph. Majority of damage. One b urned. One van ge. Strongest tor	18, then ripp p path was 7 of damage ar pusiness destr was thrown	ed into Clark miles long, al nd all injuries royed; 1 suffe a across Rout	t. It crossed a bout 500 yards occurred in bred major da the 258. Sever	Shenango ds wide a Clark. F mage. A ral other	River Lake and trac t its maximum, in the Fifteen homes comple large number of trees	cked to New Hamburg, where it dissipated town of Clark. Maximum winds estimated etely destroyed, 13 major damage, 29 had s were snapped or toppled. Large truck was
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Greenville Lawrence County Wilmington Jct Venango County 2 S Oil City Venango County Fertigs Allegheny County 2 W Imperial Beaver County Koppel Butler County 2 N Harmony Washington County	<ul> <li>mph, 8:02 I</li> <li>155 r</li> <li>minor</li> <li>overtu</li> <li>dama,</li> <li>M81F</li> <li>10</li> <li>Two I</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Wind</li> <li>10</li> <li>Two I</li> <li>10</li> </ul>	crossed Route PM. The tornado nph. Majority of r damage. One b urned. One van ge. Strongest tor PH <b>2020EST</b> houses damaged <b>2045EST</b> downed by win <b>2056EST</b> downed by win <b>2204EST</b> downed by win <b>2216EST</b> blew down tree <b>2220EST</b> trees downed by <b>2230EST</b>	<ul> <li>18, then ripp p path was 7</li> <li>of damage ar pusiness destrives the second secon</li></ul>	ed into Clark miles long, al ad all injuries royed; 1 suffe a across Rout cer county sir	c. It crossed : bout 500 yards coccurred in red major da e 258. Seven ice May 31,1 0 0 0 0 0 0 0 0 0 0	Shenango ds wide a Clark. F mage. A ral other 985. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<ul> <li>River Lake and traction of the second seco</li></ul>	<ul> <li>ked to New Hamburg, where it dissipated to wn of Clark. Maximum winds estimated etely destroyed, 13 major damage, 29 had s were snapped or toppled. Large truck was d by the tornado or suffered considerable</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Hail (0.75)</li> </ul>
Greenville Lawrence County Wilmington Jct Venango County 2 S Oil City Venango County Fertigs Allegheny County 2 W Imperial Beaver County Koppel Butler County 2 N Harmony Washington County Burgettstown	<ul> <li>mph, 8:02 I</li> <li>155 r</li> <li>minor overtu dama, M81F</li> <li>10</li> <li>Two I</li> <li>10</li> <li>A few</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Wind</li> <li>10</li> <li>Two I</li> <li>10</li> <li>Sever</li> <li>10</li> </ul>	crossed Route PM. The tornado nph. Majority of r damage. One b urned. One van ge. Strongest tor PH <b>2020EST</b> houses damaged <b>2045EST</b> downed by win <b>2056EST</b> downed by win <b>2204EST</b> downed by win <b>2216EST</b> blew down tree <b>2220EST</b> trees downed by <b>2230EST</b> al trees downed <b>2233EST</b>	<ul> <li>18, then ripp p path was 7</li> <li>of damage ar pusiness destrives the second secon</li></ul>	ed into Clark miles long, al ad all injuries royed; 1 suffe a across Rout cer county sir	c. It crossed : bout 500 yards coccurred in red major da e 258. Seven ice May 31,1 0 0 0 0 0 0 0 0 0 0	Shenango ds wide a Clark. F mage. A ral other 985. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<ul> <li>River Lake and traction of the second seco</li></ul>	<ul> <li>ked to New Hamburg, where it dissipated to wn of Clark. Maximum winds estimated etely destroyed, 13 major damage, 29 had s were snapped or toppled. Large truck was d by the tornado or suffered considerable</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Hail (0.75)</li> </ul>
Greenville Lawrence County Wilmington Jct Venango County 2 S Oil City Venango County Fertigs Allegheny County 2 W Imperial Beaver County Koppel Butler County 2 N Harmony Washington County Burgettstown Butler County 2 NW Evans City	<ul> <li>mph, 8:02 I</li> <li>155 r</li> <li>minor overtu dama, M81F</li> <li>10</li> <li>Two I</li> <li>10</li> <li>A few</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Wind</li> <li>10</li> <li>Two I</li> <li>10</li> <li>Sever</li> <li>10</li> </ul>	crossed Route PM. The tornado nph. Majority of r damage. One b urned. One van ge. Strongest tor PH <b>2020EST</b> houses damaged <b>2045EST</b> downed by win <b>2056EST</b> downed by win <b>2204EST</b> downed by win <b>2216EST</b> blew down tree <b>2220EST</b> trees downed by <b>2230EST</b> <b>2230EST</b> al trees downed	<ul> <li>18, then ripp p path was 7</li> <li>of damage ar pusiness destrives the second secon</li></ul>	ed into Clark miles long, al ad all injuries royed; 1 suffe a across Rout cer county sir	c. It crossed : bout 500 yards coccurred in reed major da e 258. Seven nce May 31,1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Shenango ds wide a Clark. F mage. A ral other 985. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<ul> <li>River Lake and traction of the second seco</li></ul>	<ul> <li>Exceed to New Hamburg, where it dissipated to won of Clark. Maximum winds estimated etely destroyed, 13 major damage, 29 had is were snapped or toppled. Large truck was d by the tornado or suffered considerable</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Hail (0.75)</li> <li>Thunderstorm Wind</li> </ul>
Greenville Lawrence County Wilmington Jct Venango County 2 S Oil City Venango County Fertigs Allegheny County 2 W Imperial Beaver County Koppel Butler County 2 N Harmony Washington County Burgettstown	<ul> <li>mph, 8:02 I</li> <li>155 r</li> <li>minor overtu dama, M81F</li> <li>10</li> <li>Two I</li> <li>10</li> <li>A few</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Trees</li> <li>10</li> <li>Wind</li> <li>10</li> <li>Two I</li> <li>10</li> <li>Sever</li> <li>10</li> </ul>	crossed Route PM. The tornado nph. Majority of r damage. One b urned. One van ge. Strongest tor PH <b>2020EST</b> houses damaged <b>2045EST</b> downed by win <b>2056EST</b> downed by win <b>2204EST</b> downed by win <b>2216EST</b> blew down tree <b>2220EST</b> trees downed by <b>2230EST</b> al trees downed <b>2233EST</b>	<ul> <li>18, then ripp p path was 7</li> <li>of damage ar pusiness destrives the second secon</li></ul>	ed into Clark miles long, al ad all injuries royed; 1 suffe a across Rout cer county sir	c. It crossed : bout 500 yards coccurred in reed major da e 258. Seven nce May 31,1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Shenango ds wide a Clark. F mage. A ral other 985. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<ul> <li>River Lake and traction of the second seco</li></ul>	<ul> <li>Exceed to New Hamburg, where it dissipated to won of Clark. Maximum winds estimated etely destroyed, 13 major damage, 29 had is were snapped or toppled. Large truck was d by the tornado or suffered considerable</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Thunderstorm Wind</li> <li>Hail (0.75)</li> <li>Thunderstorm Wind</li> </ul>

Cocation PENNSYLVANIA, We Westmoreland County	Date		Length	Width	Per	sons	Damage		ber 200
	Bute	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
	est								
4 E Monessen	10	2300EST			0	0	2K	Thunderstorm Wind	
	Trees	downed by wind	1.						
PAZ030	West	moreland							
	27	0500EST			0	0		Heavy Snow	
	Graan	0900EST	ad 6 inchas	of anow from	the offerno	n of the '	Of the the morning of	f the 27th	
<u>PUERTO RICO</u>	Green	sourg accumula	led 6 menes	of show from	the atternoo	on or the .	26th to the morning of	i the 27th.	
Mayaguez And Vicinity									
Countywide	03	1600AST			0	0		Urban/Sml Stream Fld	
county white	00	1800AST			Ū	Ū			
Ponce And Vicinity									
Countywide	03	1600AST			0	0		Urban/Sml Stream Fld	
		1800AST							
								nost affected were Penuelas and M	
		is occupant. He				small su	ream in Mayaguez w	ent out of its banks and carried a	way a ca
Ponce And Vicinity	within in	is occupant. The	was later re.	seded unitariti	cu.				
•	03	1900AST			0	0	5K	Lightning	
		1920AST							
	Lightr	ning struck a hou	ise in Penuel	las causing so	me structura	l damage	and injuring a child v	when a light bulb exploded.	
North Central									
Vega Alta	09	1800AST			1	1		High Seas	
	High (	1900AST	a fisherman'	's boat at the '	Vera Alta (	loast Or	e of the occupants d	owned while the other received i	iniuries a
	-	the reef. M33IV		s boat at the	vega mia c	oust. Of	le of the occupants di	owned while the other received r	injuries e
Northwest									
Countywide	13	1700AST			0	0		Urban/Sml Stream Fld	
		1830AST							
Western Interior									
Countywide	13	1700AST			0	0		Urban/Sml Stream Fld	
	Heavy	1830AST	over the nor	thwest section	s of Puerto	Rico cau	ising urban and small	stream flooding. Small streams	in Camu
							0	a small stream in Camuy but he	
		d unharmed.				1	5.5	,	
PRZ008>010	Nortl	hwest - Weste	rn Interio	r - Mayagu	ez And Vi	cinity			
	13	2300AST			0	0	125K	Flood	
	14 T	1600AST							<b>a</b> .
			-					used The Culebrinas River to ov where several roads, low lying	
		100 residences				ioca, Agi	uaua anu Aguauma,	where several loads, low lying	areas an
RHODE ISLAND									
RIZ001>004	Nortl	hwest Provide	ence - Sout	theast Provi	dence - W	'estern l	Kent - Eastern Ke	nt	
	27	0300EST			0	0		Heavy Snow	
		1400EST						-	
		-	-	-	-	•		Island. The highest totals were of	
								8 inches of snow fell. On avera	-
		-				•		it impact on travel was minimal s were reported throughout the region	
	· · ·	es were directly	· · · ·		ule storifi.	Sun, sev	erar minor accidents	were reported unoughout the regio	on, out I
	injune		and for a design of the second	o are storm.					

Officially, the storm total at T.F. Green State Airport in West Warwick was 5.8 inches.

		Time Local/	Path Length	Path Width	Numb Perse		Estimat Damas		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
SOUTH CAROLINA	, Cent	ral							
Mccormick County	11	0 <i>545</i> 5675	0	100	0	•		0	T
1 E Mt Carmel to 10 E Mt Carmel	11	0545EST 0555EST	9	100	0	2		0	Tornado (F0)
	skipp	0 tornado travele	was on the g						owerlines. The tornado traveled 4 miles, ies when a tree fell in front of their vehicle
Mccormick County	und n								
3.7 W Bordeaux to 1.7 NE Bordeaux	11	0620EST 0625EST	5	100	0	0		0	Tornado (F0)
	An F	) tornado took d	own trees an	d powerlines	in rural McC	ormick (	County.		
Newberry County 4.4 NW Silverstreet to	11	0642EST	1.5	100	0	0		0	Tornado (F1)
3.7 NNW Silverstreet		0644EST							
		l tornado took de s that are out the	•	ees and powe	erlines in rura	al Newbe	erry county ne	era SC h	wy 48. No damage was done to what few
Edgefield County									
Countywide	11 Sherit	0715EST ff reported scatte	red trees dov	vn around the	0 county.	0		0	Thunderstorm Wind (G50)
Lancaster County									
Van Wyck	11 Sherit	0722EST ff reported some	trees down a	round the Va	0 n Wyck area	0		0	Thunderstorm Wind (G50)
Fairfield County	biittii	ii iepoinea some			in vi jen urea	•			
10 W Winnsboro	11 Sharit	0730EST ff reported many	trees down	on the west or	0 of the cour	0 atv		0	Thunderstorm Wind (G60)
Saluda County	Shern	Il reported many	uces down o	Jii the west ei		ity.			
12 NE Saluda to 18 E Saluda	11	0730EST 0745EST			0	0	6K	0	Thunderstorm Wind (G50)
	SKY	WARN spotter re	eported trees	down, one or	n a home that	went the	rough the roof	near SC	C hwys 391 and 378.
Newberry County									
2.7 S Pomaria to 2.5 SSE Pomaria	11	0735EST 0737EST	1.2	100	0	0	16K	0	Tornado (F1)
		l tornado blew d Central School r						minor d	amage to a couple of homes. The path ran
Saluda County									
Countywide	11	0747EST			0	0		0	Thunderstorm Wind (G50)
Lancaster County	Sheri	ff reported scatte	red trees dov	vn around the	county.				
Lancaster to Kershaw	11	0830EST			0	0			Thunderstorm Wind (G60)
IXCI SHU W	Sherit	ff reported trees	down on the	southeast side	e of the city of	of Lancas	ster on SC hw	y 522 an	nd in the city of Kershaw.
Lexington County								•	
5 W Irmo	11 NUVC	0745EST	1. T.1		0	0	0	0	Thunderstorm Wind (G50) <sup>M</sup>
Lexington County	INWS	obs site at Flotil	la Island reco	orded a Sokt g	gust.				
8.3 NW Lexington	11 SKV	0812EST	monted tupos	down on Chu	0 U Island	0		0	Thunderstorm Wind (G50)
<b>Richland County</b>	SKI	WARN spotter re	eponed trees	down on Shu	ili Island.				
Columbia	11	0812EST			0	0	3K	0	Thunderstorm Wind (G50)
	SKYV	WARN spotter re	eported sidin	g ripped from	n part of a hor	me in the	e Summit subo	livision	
Lexington County	11	001 <b>F</b> ECT			0	0		•	
Countywide	11 Sherit	0815EST ff reported scatte	red trees dov	vn around the	0 county	0		0	Thunderstorm Wind (G50)
<b>Richland County</b>		-r seatte			·				
Blythewood	11 TV-+	0820EST			0	0	4		Thunderstorm Wind (G70)
Fairfield County	TV st	ations reported a	mobile hom	e severely da	maged from	a downb	urst.		
Winnsboro	11	0830EST			0	0	0	0	Thunderstorm Wind (G50)
	CIZ V	WARN spotter re	. 1.	1 0	1° D	1 5			

S	Storm Data and Unusual Weather Phenomena											
		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage		November 2002			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Cro	ops Character of St	orm			
SOUTH CAROLINA	, Cent	ral										
Kershaw County												
Lugoff	11 Sherit	0830EST ff reported trees	down in Luc	roff	0	0		0 Thunderstor	m Wind (G50)			
Chesterfield County	Shern	ii reported trees	down in Eus	3011								
Mt Croghan	11 Sherif	0845EST ff reported trees	down in Mt	Croghan.	0	0		0 Thunderstor	m Wind (G50)			
Kershaw County		00 <b>50</b> 505			0	0	1017	o <b>m</b>				
11 NNW Bethune	11 Storm	0852EST	a microburst	tore the roof	0 off a garage	0 and hom			<b>m Wind (G80)</b> e home. At least 3 dozen			
		were also taken		tore the roor	on a galage	und non	le una compseu	the none poten of the	nome. The least 5 dozen			
SOUTH CAROLINA	., Nort	<u>h Coastal</u>										
SOUTH CAROLINA		E REPORTED. <b>hwest</b>										
SCZ002-005		ens Mountair	ns - Greate	r Pickens								
	06	1000EST			0	0		High Wind (	G <b>50</b> )			
	High	2000EST winds behind a	cold front ca	used numerou	s trees to fal	l across n	ortions of the mo	untains and foothills	of South Carolina			
Anderson County	8					F						
Anderson	11	0300EST 0600EST			0	0		Urban/Sml S	tream Fld			
Oconce County	A par	t of Lakewood l	Road near Hi	ghway 24 cav	ed in due to	excessviv	e rainfall.					
Oconee County Mountain Rest	11	0345EST			0	0		Hail (0.88)				
		0353EST										
Oconee County	11	024 <b>5</b> 5075			0	0			W: 1 (C.50)			
Mountain Rest	11	0345EST 0353EST			0	0		Inunderstor	m Wind (G50)			
	Some	trees were blow	vn down.									
Pickens County	11	041 <i>5</i> ECT			0	0	117	Th				
8 N Pickens	11 A mur	0415EST ober of trees and	d power lines	s were blown d	0 Iown along l	0 Highway	<b>1K</b> 11 in the Laurel V	alley community.	m Wind (G50)			
<b>Greenville County</b>			- F			89						
Marietta	11	0430EST		0.11	0	0	10K	Thunderstor	m Wind (G50)			
Spartanburg County	A few	v trees were blov	wn down. Or	ie fell on a truc	ck.							
Landrum	11	0445EST			0	0		Thunderstor	m Wind (G50)			
	Nume	erous trees were	blown down	1.								
Anderson County 15 W Anderson	11	0450EST			0	0	100K	Thunderstor	m Wind (G65)			
									chored mobile home was			
Oconee County	destro	byed by the wind	u. Another in	oblie nome wa	as shifted of		undation. Also, se	ome trees fell on hom	es and venicies.			
Westminster to	11	0450EST			0	0		Thunderstor	m Wind (G55)			
Fair Play	N	0455EST	1.1									
Oconee County	Nume	erous trees were	blown down	1.								
Salem to	11	0505EST			0	0		Thunderstor	m Wind (G55)			
Seneca				0								
Anderson County	Nume	erous trees were	blown down	. One tree fell	on a trailer.							
Pendleton	11	0505EST			0	0		Thunderstor	m Wind (G55)			
	Some	trees were blow	vn down.						·			
Anderson County 5 NW Piedmont	11	0510EST			0	0		Hoil (A 75)				
5 IN WY F REURIORIU		was reported alo	ng Highwav	86.	U	U		Hail (0.75)				
	1	r sited alo	3 01 uj									

		Time	Path	Path	Num	per of	Estimated	November 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property Crops	
SOUTH CAROLINA	Nort	hwest						
Anderson County	, 1 101 0	nwest						
2 SW Piedmont to	11	0522EST	3	50	0	0		Tornado (F0)
Piedmont		0525EST ak tornado touch he city. The torna					is large trees were b	lown over or uprooted as the tornado move
Greenville County	into u	he city. The torna	ado moved n		county at 5	.25 ANI.		
Piedmont to 1 E Piedmont	11	0525EST 0527EST	3	50	0	0	2K	Tornado (F0)
		e tornado contin n a truck.	ued into the	Greenville Co	unty portion	n of Piedn	nont, numerous trees	s and power lines continued to fall. One tre
Greenville County								
2 SW Simpsonville to 1 N Fountain Inn	11	0530EST 0534EST	4	100	0	0	250K	Tornado (F1) amage and some minor structural damag
Anderson County	subdi The t	vision. In the I-3	885/Fairview or destroye	Road area, the doubt of the dou	ne roof of a s, fences, an	hotel reco	eived extensive dam	ornado passed through the Hunters Woo hage, and 2 tractor trailers were blown ove ddle School, then produced more extensiv
Belton	11 A hor	0530EST ne was reportedl	y knocked o	ff its foundation	0 on along Hig	<b>0</b> ghway 24'	<b>10K</b> 7. Also, a tree was b	Thunderstorm Wind (G60) lown down, and fell through a home.
Greenville County								
5 W Simpsonville to 5 ENE Simpsonville	11 Nume	0530EST 0545EST	blown down	An outbuildi	0 ng was blow	0 m into a r	5K oad west of Simpson	Thunderstorm Wind (G55)
Laurens County	ivuin	lious nees were	biowii dowii	. 7 m outbuildi	ing was blov	in nito u i	oud west of Shipson	ivine.
4 NE Fountain Inn	11 Sever	0540EST al trees were blo	wn down.		0	0	1K	Thunderstorm Wind (G55)
Laurens County								
Gray Court	11 Some	0540EST trees were blow	n down.		0	0		Thunderstorm Wind (G50)
Spartanburg County Spartanburg	11	0600EST			0	0	2K	Thunderstorm Wind (G55)
Spartanourg		erous trees and p	ower lines w	ere blown dov		0	21	Thunderstorm (Vind (033)
Laurens County		-						
Clinton	11 Some	0600EST trees were blow	n down.		0	0		Thunderstorm Wind (G55)
Spartanburg County	11	0610EST			0	0	117	There denote my Wind (C50)
Enoree	11 Nume	erous trees were	blown down		0	0	1K	Thunderstorm Wind (G50)
Union County			cio nii do nii	•				
Union	11	0625EST			0	0	15K	Thunderstorm Wind (G50)
Character Character	Nume	erous trees were	blown down	. One fell on a	house.			
Cherokee County Gaffney	11	0630EST			0	0		Thunderstorm Wind (G50)
Ganney		v trees were blow	n down.		U	Ū		munderstorm (vind (650)
Greenwood County								
Verdery to	11	0635EST			0	0	10K	Thunderstorm Wind (G60)
9 SSW Verdery	concl	1	of a tornado	did not exist,	there were		1	as of southern Greenwood County. Althoug o, and it is possible that a weak tornado wa
York County	cinte		source regit		st willus.			
Clover	11	0635EST 0645EST			0	0	3К	Thunderstorm Wind (G55)
	Nume	erous trees and p	ower lines w	ere blown dov	wn.			
York County Sharon	11	0635EST 0645EST			0	0	3К	Thunderstorm Wind (G55)
		erous trees and p						

Numerous trees and power lines were blown down.

		Time Local/	Path Longth	Path Width	Numb		Estimated	November 2002		
Location	Date	Standard	Length (Miles)	(Yards)	Pers Killed	Injured	Damage Property Crop	os Character of Storm		
SOUTH CAROLINA.	Nort	hwest								
York County	11011	nwest								
York	11	0635EST			0	0	3K	Thunderstorm Wind (G55)		
		0645EST								
	Nume	erous trees and po	ower lines w	vere blown do	wn.					
Abbeville County Abbeville	11	0645EST			0	0	10K	Thundorstorm Wind (C55)		
Abbeville		erous trees were b	olown down	Power and t				Thunderstorm Wind (G55)		
Greenwood County	1 (01110			in i o nor and i	enephone por		,			
10 S Greenwood	11	0645EST			0	0	1K	Thunderstorm Wind (G55)		
	Some	trees were blown	n down.							
York County	11				0	0	117			
Rock Hill	11 Some	0650EST	lines were k	alown down	0	0	1K	Thunderstorm Wind (G50)		
Greenwood County	Some	trees and power	inies were t	Jown down.						
Dyson	11	0700EST			0	0	2K	Thunderstorm Wind (G55)		
_ ,~		al large trees and	some powe	er lines were b	olown down.					
SOUTH CAROLINA.	Sout	<u>h Coastal</u>								
Jasper County										
5 S Ridgeland	11	2140EST			0	0		Thunderstorm Wind (G50)		
Description of Commuter	Sever	al trees and large	limbs were	down.						
Beaufort County 5 E Dale	11	2233EST			0	0		Hail (0.75)		
Colleton County	11	2255E51			U	U		Han (0.75)		
8 E Wiggins	11	2305EST			0	0		Thunderstorm Wind (G50)		
		al trees and large	limbs were	down.						
Charleston County										
Hollywood	11	2310EST			0	0		Hail (1.00)		
SOUTH DAVOTA C	antua	2315EST								
SOUTH DAKOTA, C SDZ003>004-009-			Wolwo	wth Dowo	Dotton	Stanlar	Sully Unaba	a Ionag Iyman		
015>016-033>035-045-	COIS	on - Campben	I - Walwo	rui - Dewey	- rouer -	Stamey	- Suny - Hughe	es - Jones - Lyman		
048										
	29	1200CST			0	0		High Wind (G59) <sup>M</sup>		
		1600CST						-		
	High winds of 30 to 50 mph gusting to nearly 70 mph occurred through much of the afternoon across central and north central South Dakota. A tractor-trailer, carrying a load of livestock, was overturned on Highway 12 about three miles east of Mobridge. The tractor									
		otaled, four cattle						bout three miles east of Mobridge. The tractor		
SDZ008-021		erts - Grant	were kined	i, und the driv	er surfered fr	intor nije				
	29	1400CST			0	0		High Wind (G50)		
		1600CST						-		
	-		) mph with	gusts to near	60 mph occu	red acro	ss Roberts and Gra	int counties in the late afternoon hours.		
SOUTH DAKOTA, S	outhea	ast								
	NON	E REPORTED.								
SOUTH DAKOTA, W		E KEI OKTED.								
		ling - Perkins	- Butte - 1	Northern N	/leade Co F	Plains -	Ziebach - Penn	ington Co Plains - Haakon - Southern		
031>032-073		de Co Plains	Dutte							
	29	1045MST			0	0	0	High Wind (G69)		
		1538MST						-		
								d this front a tight surface pressure gradient		
		oped along with ours during the ear			ubsidence. W	inds we	re sustained around	d 35 to 45 mph with gusts near 60 mph for a		
<b>TENNESSEE</b> , Centra		ours during the ea	ary arterilo							
Montgomery County	<b>-</b>									
8.8 E Clarksville to	10	0050CST	0.1	20	0	0		Tornado (F0)		
8.9 E Clarksville		0051CST								
				· ·	d briefly tou	ched do	wn about 1.2 miles	east of the I-24 interchange on Highway 76.		
	rees	were trees twiste	and snapp	pea.						

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 2			
ocation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crop	ps Character of Storm			
ENNESSEE, Central	<u>1</u>										
Montgomery County											
.7 SSE Port Royal to .7 SE Port Royal	10	0100CST 0101CST	0.3	400	2	0	100K	Tornado (F1)			
·	3400 Eleme	usband, Dennis T block of Port Ro	yal Rd. M Clarksville.	r. Tooby was Two mobile	a Australi e homes we	an nation are lifted	al and a welder. off their foundat	bile home was blown off its foundation at Mrs. Tooby taught first grade at Hazelw ion and hurled across the road. The torr IH, F49MH			
Robertson County	10	0105CST	0.1	20	0	0					
3 SW Adams to 2.9 SW Adams	10	0105CST 0106CST	0.1	20	0	0		Tornado (F0)			
	Trees		und insulatio	n debris from	the mobile	homes ir	Port Royal were	found in this location.			
Sumner County											
4.1 W Portland to 1.4 WNW Portland	10	0200CST 0206CST	2.6	900	0	6	500K	Tornado (F2)			
	were destroyed, 15 homes had major damage and 14 had minor damage. 5 mobile homes were destroyed, 3 with major damage and with minor damage. One business was destroyed and 3 other businesses were damaged. Several goats and cattle were killed. Th heaviest damage was at 404 Glen Have Rd. 2 mobile homes were destroyed and blown off their foundation. 18 outbuildings, 1 barns and 2 churches were damaged. A Chrysler Cirrus LX sedan was flipped and pushed 20 feet. A Ford Ranger truck flipped and rolled 90 feet. A 6 inch by 6 inch boar was hurled through the roof of a modular home.										
	was m	uned unough the		dulai nome.							
	Kirby Fire D	-	s located at	124 Kirby Ro	ad in the in	lustrial p	ark area, sustained	d 50 percent damage according to the Port			
Coffee County											
4.4 NNW Fredonia to 5 NNE Fredonia	10	1742CST 1747CST	4.1	50	0	0		Tornado (F1)			
adfand Country	Trees	were blown down	and uproot	ed.							
edford County 1.4 SE Bugscuffle to 4 E Bugscuffle	10	1745CST 1750CST	3	500	0	3	100K	Tornado (F2)			
-	Severa	2 tornado struck	fs stripped a	and a couple of	of barns we	e demoli	shed. This tornad	oor was torn off 2 late model frame hou lo went into Coffee county. TEMA report as destroyed.			
Coffee County	10	1750.000	•	500	0	0	5017				
8.1 SW Fredonia to 1.4 E Fredonia	10	1750CST 1810CST	2	500	0	0	50K	Tornado (F2)			
	fully l	2 tornado blew de	ler trucks w	ere blown arc	und on I-24	near Bu		e marker 9 on Woodbury Highway. Also, e marker 105. One truck was in the east be			
Coffee County	10	1952.097	10.0	450	•	24	25017				
6.5 WSW Fredonia to 5.7 ENE Fredonia	10	1852CST	12.3	450	2	24	250K	Tornado (F2)			
	An F2 tornado killed 2 people and injured 24 others. The 2 people were inside their mobile home when the tornado struck. The mobile home was in the New Union Heights subdivision, off state Highway 53 north of Manchester. The boy was moved from h mobile home to the Hillcrest Baptist Church. He died in the church at 705 PM CST. A relative of the boy, a 43-year-old male, we also killed. He was impaled on the upright lid of a washing machine.										
	aiso k							1 15 1 114 4 11			
	24 hor	mes were destroye damaged. M10M			lamaged. 9	mobile n	omes were destro	yed and 5 were damaged. 14 outbuildings			
.8 W Crab Orchard to	24 hor	damaged. M10M <b>1908CST</b>			lamaged. 9 0	0	iomes were destro	Tornado (F1)			
•	24 hor were c 10 A torr	damaged. M10M 1908CST 1913CST	H, M43MH <b>3.4</b> er trailer tru	400	0	0					
	24 hor were c 10 A torr	damaged. M10M 1908CST 1913CST nado blew a track	H, M43MH <b>3.4</b> er trailer tru	400	0	0		Tornado (F1)			

		Time	Path	Path	Numb	or of	Estimated		NT 1 000			
	_	Local/	Length	Width	Perso	ons	Damage		November 200			
location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm				
ENNESSEE, Central	<u>l</u>											
Cumberland County Big Lick to	10	2046CST	0.1	20	0	0		Tornado (F0)				
.1 E Big Lick		2047CST				Ū		101111110 (10)				
Cumberland County	Law e	enforcement repo	rted a tornac	lo. No damage	e reported.							
4.8 SW Crossville to 8.2 ESE Crossville	10	2143CST 2158CST	12.2	900	4	18	500K	Tornado (F3)				
	homes heavie and ju guest,	s and mobile wer est damage was ist south of Thre huddled under a	re destroyed along Lanta ee Creek Ro mattress in	and 128 hom ana Drive, Du ad. One well the hallway.	es and mobi nbar Road, a built home l	e homes and Pige ost an ei	of Crossville Sunday were damaged. Ther on Ridge Road. 5 he ntire roof and several	re was damage to one omes were damaged walls. The couple, t	public building. Th on U.S. Highway 12			
	50 acres of hardwoods were twisted and tangled. 100-year-old oak trees were snapped like wheat straws. Mobile homes on the Ballyhoo Campground and modular homes in Lake Tansi were destroyed. The four fatalities occurred in mobil homes. A couple was killed at 298 Lantana Drive when their mobile home was lifted off its foundation and placed on another traile Edward, 80 and Mary Laffer 75 were killed. Another couple died at 4040 Lone Wolf Circle. Robert, 55 and Sandy Scarbrough , 52 were killed and their bodies were found across Lake Mohawk. F75MH, M80MH, M55MH, F52MH 11 tornadoes were reported in Middle Tennessee in one of the worst tornadic outbreaks ever in November. 8 peopleand possibly ninth victimwere killed in Middle Tennessee alone. Damage estimate for the tornadoes in Tennessee was placed at \$160 million Primary losses were due to houses and cars.											
	The toll on government owned infrastructure is about \$6 million. The federal government is expected to reimburse the state at affected counties for 75% of the costs of responding to the disaster. The FEMA Public Assistance Program has obligated more the \$3.6 million to assist local governments. These funds will be used to reimburse local governments for debris removal, the repair public buildings and utilities, and overtime paid to police officers, firefighters and other emergency personnel. More than 900 families across the state applied for storm aid. This was the worst tornado disaster since the April3-4 outbreak 1974. The United States Small Business Administration has approved more than 9.7 million dollars in disaster loans to assist disast victims with repairing their property or replacing lost personal items.											
	The 20 counties that are eligible for disaster assistance to individuals, households, and businesses were: Anderson, Bedford, Bledsor Carroll, Coffee, Crockett, Cumberland, Fentress, Gibson, Henderson, Madison, Marshall, Montgomery, Morgan, Roane, Rutherford Scott, Sumner and Tipton and Van Buren.											
Maury County Spring Hill	10 Spotte	1503CST er reported quarte	er size hail.		0	0		Hail (1.00)				
Williamson County 3 E Thompsons Station		1505CST er reported golfba	all size hail a	t the intersect	0 ion of Inters	0 tate 65 at	nd U.S. Highway 431	Hail (1.75)				
Rutherford County 4 S Smyrna	10 Spotte	1519CST er reported quarte	er size hail a	t intersection of	0 of Interstate 2	<b>0</b> 24 and A	lmaville Road.	Hail (1.00)				
Rutherford County Smyrna	10	1526CST er reported half d			0	0		Hail (1.25)				
Rutherford County Smyrna	10 Spotte	<b>1528CST</b> er reported golf b	all size hail	in Smyrna.	0	0		Hail (1.75)				
Rutherford County Smyrna	10 Off dı	1529CST aty NWS employ	vee reported	nickel size hai	<b>0</b> il.	0		Hail (0.88)				
Rutherford County Murfreesboro	10	1530CST			0	<b>0</b> he 1300	block of Lebanon Pik	Thunderstorm V	Vind (G50)			
Rutherford County Smyrna	10	1531CST er reported hen e		-	0	0		Hail (2.00)				

S	Storm Data and Unusual Weather Phenomena											
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estimated Damage Property Crops	Character of Storn	November 2002			
TENNESSEE, Centr	۰al											
Rutherford County 5 N Walterhill	10	1533CST	size beil et f	ha Uighway (	0 21 South a	0 d Highwa	w 452 Intercaption	Hail (0.75) near the Rutherford-	Wilson county line			
Wilson County 3.6 NE Mt Juliet	-	1534CST	Size han at t	ne mgnway 2		0	ty 452 intersection,		winson county line.			
5.0 NE MI Juliet	10 Volunt	teer fire departr	nent reported	l dime size ha	il on Holly [		1.	Hail (0.75)				
Wilson County Gladeville	10	1535CST r reported golfb	•		0	0		Hail (1.75)				
Macon County Lafayette	10	1545CST		l size bail on	0 Scottville P	<b>0</b>		Hail (1.75)				
Macon County Lafayette	10	1545CST	C		0	0		Thunderstorm	Wind (G50)			
Wilson County Norene	Law ei 10	nforcement rep 1553CST	orted tree dov	wn across Cai	ter Branch	Road. 0		Hail (0.75)				
Lawrence County		ency managem	ent reported	dime size hai	•		Highway 266.	Hall (0.75)				
Revilo	<b>10</b> Law ei	1600CST	orted trees do	own across roa	<b>0</b> ad.	0		Thunderstorm	Wind (G50)			
Wayne County Waynesboro	<b>10</b> Law ei	1600CST	orted trees do	own across Ro	0 oss Creek R	0 oad.		Thunderstorm	Wind (G50)			
Putnam County Cookeville	10	1623CST r reported dime			0	0		Hail (0.75)				
Maury County 1 N Stiversville	10	1628CST r reported quart		long Highway	0	0		Hail (1.00)				
Giles County 2.5 NW Lynnville	10	1629CST			0	0		Hail (1.00)				
Dekalb County	Spotter	r reported quart	er size hail.									
Alexandria		<b>1630CST</b> aper story abo down and mine						Thunderstorm inds in Alexandria. T	Wind (G70) There were several trees			
Dekalb County 8 NE Smithville	<b>10</b> Law er	1630CST	orted trees do	own.	0	0		Thunderstorm	Wind (G50)			
Overton County Alpine	<b>10</b> Law er	1630CST	orted golf bal	l size hail.	0	0		Hail (1.75)				
Overton County Countywide	10	1630CST	-		0 ollow Road	0 Upper H	lilham Road Powe	<b>Thunderstorm</b> r pole down on High				
Lewis County 5 E Gordonsburg	10	1633CST r reported quart		-	0	0		Hail (1.00)				
Putnam County Cookeville	10	1635CST			0	0		Hail (0.88)				
Putnam County Double Spgs	10	r reported nicke			0	0		Hail (1.75)				
Marshall County Lewisburg	10	r reported golf <b>1637CST</b> r reported dime			0	0		Hail (0.75)				

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
<b>FENNESSEE, Centra</b>	<u>ıl</u>							
Marshall County								
Lewisburg	10 Spotte	1642CST er reported golfb	all size hail.		0	0		Hail (1.75)
Putnam County	-							
Cookeville	10 Spott	1650CST er reported nume	erous trees do	own.	0	0		Thunderstorm Wind (G50)
Marshall County								
Lewisburg	10	1654CST			0	0		Hail (1.75)
-	Apart		esville High	way sustain	ed damage			or hail damage by 10 AM. The Ridgetop hail damaged cars, broke lamps and the
Marshall County								
Chapel Hill	10 Amat	1700CST eur radio operate	or reported d	amage to a ca	0 ar, tree and a	0 barn.		Thunderstorm Wind (G50)
Fentress County		-	-	-				
Banner Spgs	10	1715CST			0	0		Thunderstorm Wind (G50)
For the second second	house sustai	es were destroye ned damage to t	ed on the Ch he roof and s	ella LaRue f siding. Acros	arm. 2 busin s the street, t	esses wo	ere damaged on U.S. I	is trees and power lines down. 2 chicken Highway 127 South. Susan's Quilt Shop actically destroyed when the back portion
Fentress County	10	1500000			0	0		II 'I (1 75)
7 SE Jamestown	10 Succes	1720CST	-11 -: 1:1		0	0		Hail (1.75)
Lawronce County	Spon	er reported golfb	all size nall.					
Lawrence County	10	1726087			0	0		$\mathbf{H}_{\mathbf{a}}$ : $(1,00)$
10 SW Lawrenceburg	10 Spott	1726CST	or size bail		0	0		Hail (1.00)
Coffee County	Spon	er reported quart	er size nam.					
4 N Beech Grove	10 Snott	1729CST	an aina hail		0	0		Hail (1.00)
Cannon County	Spon	er reported quart	el size nan.					
9 SSW Woodbury	10	1737CST			0	0		Hail (0.75)
9 55 W Woodbury			ent reported	dime size hai			ollow Springs Road and	
Benton County	Liner	geney managem	entreported	diffie size flat	i at interseeti		now opings Road and	Durgan Road.
Countywide	10	1740CST			0	0		Thunderstorm Wind (G50)
county white		enforcement repo	orted trees do	wn	Ŭ	v		
Stewart County	Lun							
Indian Mound	10	1745CST			0	0		Thunderstorm Wind (G50)
		enforcement repo	orted trees do	own.				
Houston County		1						
Countywide	10	1755CST			0	0		Hail (0.75)
	Law e	enforcement repo	orted dime si	ze hail.				
Houston County								
Countywide	10	1755CST			0	0		Thunderstorm Wind (G50)
	Law e	enforcement repo	orted trees do	own.				
Humphreys County								
Countywide	10	1800CST			0	0		Thunderstorm Wind (G50)
	Law e	enforcement repo	orted trees do	own.				
Montgomery County								
Countywide	10	1800CST			0	0		Thunderstorm Wind (G60)
	Law e	enforcement repo	orted numero	ous trees, pow	er lines down	n and str	eet signs knocked over.	
Coffee County	10	1001007			0	0		
Manchester	10 Emor	1801CST	ant ran auto 1	traas darum	0	0		Thunderstorm Wind (G50)
I awronge County	Emer	gency managem	ent reported	trees down.				
Lawrence County	10	1901.057			0	0		Hoil (0.75)
6 W Lawrenceburg	10 Emer	1801CST	ent reported	dime size hoi			f Shotwell Road and Hi	Hail (0.75)
Cumberland County	Liner	gency managem	ent reported	unite size fial	i at the filters			gnway 04.
Crossville	10	1845CST			0	0		Hail (0.75)
C1 055 VIIIC		er reported dime	size hail		v	U		Hun (0.75)
	spott	er reported dime	SIZE Hall.					

		Time	Path	Path	Numb		Estimated	November 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property Crops	Character of Storm
TENNESSEE, Centra	l							
Perry County	_							
Lobelville	10	1845CST			0	0		Thunderstorm Wind (G60)
Coffee County	Law e	enforcement repor	rted trees ar	nd power lines	down and t	wo cars c	rushed.	
12 N Manchester	10	1856CST			0	0		Hail (1.00)
12 IV Manchester			nt reported	quarter size h	ail near the C		nnon county line on I	
Hickman County			1	1			2	
Countywide	10	1905CST			0	0		Thunderstorm Wind (G50)
	Law e	enforcement repor	rted trees do	own.				
Bedford County	10	1004057			0	0		Hail (1 00)
4 N Shelbyville	10 Emer	1906CST gency manageme	nt reported	quarter size h	u ail along U.S	0 Highw:	av 41 A	Hail (1.00)
Robertson County	Liner	geney manageme	ni reported	quarter size in	in along O.c	. mgnwe	<i>iy</i> +171.	
1 E Springfield	10	1915CST			0	0		Thunderstorm Wind (G50)
	Law e	enforcement repor	rted tree do	wn on Highwa	y 49 at Caa	rs Creek l	Bridge.	
Lewis County								
Countywide	10 1	1920CST			0	0		Thunderstorm Wind (G50)
Warren County	Law e	enforcement repor	rted trees do	own.				
Countywide	10	1920CST			0	0		Hail (1.00)
couldy whe		enforcement report	rted quarter	size hail.	Ū	Ū		
Warren County			1					
Countywide	10	1920CST			0	0		Thunderstorm Wind (G50)
	Law e	enforcement repor	rted trees do	own.				
Williamson County Countywide	10	1930CST			0	0		Thunderstorm Wind (G50)
Countywhee		enforcement report	rted trees do	wn	U	U		Thunderstorm wind (G50)
Sumner County	Law	entoreement repor		, , , , , , , , , , , , , , , , , , ,				
Westmoreland	10	1936CST			0	0		Thunderstorm Wind (G50)
	Law e	enforcement repor	rted large tr	ee limbs down	1.			
Williamson County								
5 SE Franklin	10 E	1945CST			0	0	-+ E:+ C1	Hail (0.88)
Warren County	Emerg	gency manageme	nt reported	nickel size na	along Inter	state 65 a	at Exit 61.	
Countywide	10	2000CST			0	0		Thunderstorm Wind (G60)
		enforcement report	rted numero	ous trees dowr				(000)
Lawrence County								
Lawrenceburg	10	2020CST			0	0		Thunderstorm Wind (G50)
Course hand and Course for	Law e	enforcement repor	rted trees do	own.				
Cumberland County 6 S Crossville	10	2046CST			0	0		Hail (2.75)
0 5 CI OSSVIIIC		enforcement report	rted basebal	l size hail on	U Highway 12			Han (2.73)
Cumberland County	Eur c	intercontent repo				, south		
Crossville	10	2054CST			0	0		Hail (0.75)
	Emerg	gency manageme	nt reported	dime size hai	1.			
Lawrence County	4.0				0	0		
Loretto	10 Light	1530CST	ma at 2860	Lichwor 42	0 South in Lo	0 Tratta D	1.9K	Lightning na Fire Dept. discovered that their was
							equipment was damage	
<b>TENNESSEE, East</b>	Janita			inet the			1-F	
Morgan County								
Countywide	10	1830EST			0	0	15K	Thunderstorm Wind
	Trees	were reported do	wn across t	he county.				
Morgan County								
2.5 S Rugby to	10	1835EST	1.5	25	0	0	20K	Tornado (F0)
2.7 SSE Rugby		1837EST ) tornado touched						

An F0 tornado touched down 2.5 miles south of Rugby producing a damage path 25 yards wide for a distance of one and a half miles The tornado downed a number of trees along its path and ended 2.7 miles south southeast of Rugby.

Location         TENNESSEE, East         Scott County       1.8 W Elgin to         1.8 W Elgin to       2.4 ENE Elgin         Scott County       1.5 WSW Winona to         2.6 ENE Winona       2.6 ENE Winona         Morgan County       Petros         Bledsoe County       Countywide         Claiborne County       Clairfield	damage 10 An F1 tornade entire thomes, destroy 10 Severa 10	ed several home 1850EST 1854EST tornado touche o produced a 50 time the tornado o one modular h ved. 1850EST l trees were repo 1915CST	4.2 ed down 1.5 ) yard wide o was on the ome and on	50 50 50 50 50 50 50 50 50 50 50 50 50 5	Killed 0 Elgin produ t northeast o 0 southwest o that contin cott county	of Elgin. 0 of Winona ued for 4. v, losses v	<b>130K</b> a damaging s 2 miles endin vere estimated ng one home l	Crops /ards wide everal hon g 2.6 mile at about peyond rep	Character of Storm <b>Tornado (F1)</b> for a distance of 4.1 miles <b>Tornado (F1)</b> nes and injuring several r se east northeast of Winon \$240,000. In all, 24 home wair and three mobile home	residents. Th a. During th es, six mobil
Scott County 1.8 W Elgin to 2.4 ENE Elgin Scott County 1.5 WSW Winona to 2.6 ENE Winona Morgan County Petros Bledsoe County Countywide Claiborne County	An F1 damage 10 An F1 tornade entire t homes, destroy 10 Severa 10 Trees v	1845EST tornado touched ed several home 1850EST 1854EST tornado touche o produced a 50 time the tornado o one modular h red. 1850EST I trees were repo 1915CST	d down 1.8 m es and ended 4.2 ed down 1.5 ) yard wide o was on the ome and on	niles west of I 2.4 miles eas 50 5 miles west damage path e ground in S te business we	Elgin produ t northeast o 0 southwest o that contin cott county re damaged	of Winona of Winona ued for 4. y, losses v d, includir	nage path 50 g 130K a damaging s 2 miles endin vere estimated ng one home b	vards wide everal hon g 2.6 mile at about peyond rep	for a distance of 4.1 miles <b>Tornado (F1)</b> nes and injuring several r se east northeast of Winon \$240,000. In all, 24 home vair and three mobile home	residents. Th a. During th es, six mobil
Scott County 1.8 W Elgin to 2.4 ENE Elgin Scott County 1.5 WSW Winona to 2.6 ENE Winona Morgan County Petros Bledsoe County Countywide Claiborne County	An F1 damage 10 An F1 tornade entire t homes, destroy 10 Severa 10 Trees v	1845EST tornado touched ed several home 1850EST 1854EST tornado touche o produced a 50 time the tornado o one modular h red. 1850EST I trees were repo 1915CST	d down 1.8 m es and ended 4.2 ed down 1.5 ) yard wide o was on the ome and on	niles west of I 2.4 miles eas 50 5 miles west damage path e ground in S te business we	Elgin produ t northeast o 0 southwest o that contin cott county re damaged	of Winona of Winona ued for 4. y, losses v d, includir	nage path 50 g 130K a damaging s 2 miles endin vere estimated ng one home b	vards wide everal hon g 2.6 mile at about peyond rep	for a distance of 4.1 miles <b>Tornado (F1)</b> nes and injuring several r se east northeast of Winon \$240,000. In all, 24 home vair and three mobile home	residents. Th a. During th es, six mobil
1.8 W Elgin to 2.4 ENE Elgin Scott County 1.5 WSW Winona to 2.6 ENE Winona Morgan County Petros Bledsoe County Countywide Claiborne County	An F1 damage 10 An F1 tornade entire t homes, destroy 10 Severa 10 Trees v	1845EST tornado touched ed several home 1850EST 1854EST tornado touche o produced a 50 time the tornado o one modular h red. 1850EST I trees were repo 1915CST	d down 1.8 m es and ended 4.2 ed down 1.5 ) yard wide o was on the ome and on	niles west of I 2.4 miles eas 50 5 miles west damage path e ground in S te business we	Elgin produ t northeast o 0 southwest o that contin cott county re damaged	of Winona of Winona ued for 4. y, losses v d, includir	nage path 50 g 130K a damaging s 2 miles endin vere estimated ng one home b	vards wide everal hon g 2.6 mile at about peyond rep	for a distance of 4.1 miles <b>Tornado (F1)</b> nes and injuring several r se east northeast of Winon \$240,000. In all, 24 home vair and three mobile home	residents. Th a. During th es, six mobil
Scott County 1.5 WSW Winona to 2.6 ENE Winona Morgan County Petros Bledsoe County Countywide Claiborne County	damage 10 An F1 tornade entire thomes, destroy 10 Severa 10 Trees v	tornado touched ed several home 1850EST 1854EST tornado touche o produced a 50 time the tornado o one modular h ved. 1850EST I trees were repo 1915CST	4.2 ed down 1.5 ) yard wide o was on the ome and on	50 50 50 50 50 50 50 50 50 50 50 50 50 5	t northeast o 0 southwest o that contin cott county re damaged	of Elgin. 0 of Winona ued for 4. v, losses v d, includir	<b>130K</b> a damaging s 2 miles endin vere estimated ng one home l	everal hon g 2.6 mile at about peyond rep	Tornado (F1) nes and injuring several r se east northeast of Winon \$240,000. In all, 24 home pair and three mobile home	residents. Th a. During th es, six mobil
1.5 WSW Winona to 2.6 ENE Winona Morgan County Petros Bledsoe County Countywide Claiborne County	damage 10 An F1 tornade entire thomes, destroy 10 Severa 10 Trees v	ed several home 1850EST 1854EST tornado touche o produced a 50 time the tornado o one modular h ved. 1850EST l trees were repo 1915CST	4.2 ed down 1.5 ) yard wide o was on the ome and on	50 50 50 50 50 50 50 50 50 50 50 50 50 5	t northeast o 0 southwest o that contin cott county re damaged	of Elgin. 0 of Winona ued for 4. v, losses v d, includir	<b>130K</b> a damaging s 2 miles endin vere estimated ng one home l	everal hon g 2.6 mile at about peyond rep	Tornado (F1) nes and injuring several r se east northeast of Winon \$240,000. In all, 24 home pair and three mobile home	residents. Th a. During th es, six mobil
1.5 WSW Winona to 2.6 ENE Winona Morgan County Petros Bledsoe County Countywide Claiborne County	An F1 tornado entire t homes, destroy 10 Severa 10 Trees v	1854EST tornado touche o produced a 50 time the tornado o one modular h ved. 1850EST I trees were repo 1915CST	ed down 1.5 ) yard wide o was on the ome and on	5 miles west a damage path e ground in S the business we	southwest of that continu- cott county are damaged	of Winon; ued for 4. , losses v l, includir	a damaging s 2 miles endin vere estimated ng one home l	everal hon g 2.6 mile at about beyond rep	nes and injuring several r is east northeast of Winon \$240,000. In all, 24 home pair and three mobile home	a. During thes, six mobil
2.6 ENE Winona Morgan County Petros Bledsoe County Countywide Claiborne County	An F1 tornado entire t homes, destroy 10 Severa 10 Trees v	1854EST tornado touche o produced a 50 time the tornado o one modular h ved. 1850EST I trees were repo 1915CST	ed down 1.5 ) yard wide o was on the ome and on	5 miles west a damage path e ground in S the business we	southwest of that continu- cott county are damaged	of Winon; ued for 4. , losses v l, includir	a damaging s 2 miles endin vere estimated ng one home l	everal hon g 2.6 mile at about beyond rep	nes and injuring several r is east northeast of Winon \$240,000. In all, 24 home pair and three mobile home	a. During thes, six mobil
Petros Bledsoe County Countywide Claiborne County	tornado entire t homes, destroy 10 Severa 10 Trees v	o produced a 50 time the tornado o one modular h ved. 1850EST I trees were repo 1915CST	) yard wide o was on the ome and on	damage path e ground in S e business we	that contin cott county re damaged	ued for 4. v, losses v d, includir	2 miles endin vere estimated ng one home l	g 2.6 mile at about beyond rep	es east northeast of Winon \$240,000. In all, 24 home pair and three mobile home	a. During thes, six mobil
Petros Bledsoe County Countywide Claiborne County	entire t homes, destroy 10 Severa 10 Trees v	time the tornado , one modular h /ed. 1850EST I trees were repo 1915CST	o was on the	e ground in S e business we	cott county ere damaged	v, losses v 1, includir	vere estimated	at about beyond rep	\$240,000. In all, 24 home aair and three mobile home	es, six mobil
Petros Bledsoe County Countywide Claiborne County	homes, destroy 10 Severa 10 Trees v	, one modular h ved. 1850EST l trees were repo 1915CST	ome and on	e business we	ere damageo	l, includir	ng one home l	beyond rep	pair and three mobile home	
Petros Bledsoe County Countywide Claiborne County	10 Severa 10 Trees v	1850EST l trees were repo 1915CST	orted down i	n Petros.	0	Δ			There is a state of the state o	
Petros Bledsoe County Countywide Claiborne County	Severa 10 Trees v	l trees were repo 1915CST	orted down i	n Petros.	0	Α			There does 4 1177 1	
Bledsoe County Countywide Claiborne County	Severa 10 Trees v	l trees were repo 1915CST	orted down i	n Petros.	•		15K		Thunderstorm Wind	
Countywide Claiborne County	Trees v					Ū	1011			
Claiborne County	Trees v									
•					0	0	20K		Thunderstorm Wind	
•	10	were reported do	own across th	he county.						
	10	1920EST			0	0			Hail (0.75)	
		size hail was rep	orted at Clai	irfield.					()	
Mcminn County										
Niota	10 S	1920EST			0	0	15K		Thunderstorm Wind	
Monroe County	Severa	l trees were repo	orted down 1	n Niota.						
Sweetwater	10	1925EST			0	0			Hail (1.75)	
	Golfba	ll size hail was i	reported at S	weetwater.					· · ·	
Monroe County										
Sweetwater	10 A train	1925EST ed spotter record	ded a 91 mm	h wind oust a	0 t Sweetwat	0	<b>2K</b>		Thunderstorm Wind (G7	79) <sup>M</sup>
Monroe County	Auam	icu sponer recor	ucu a 91 mp	ni wina gust a	i Sweetwall					
Sweetwater	10	1930EST			0	0	15K		Thunderstorm Wind	
	Severa	l trees were repo	orted down i	n Sweetwater.						
Meigs County	10	1930EST			0	0	30K		Thunderstorm Wind	
Countywide	10 Approx	kimately 40 tree	s were dowr	ned on numero		0 roads.	JUK		Thunderstorm wind	
Loudon County	1 ppros		5		us county I	oudor				
Philadelphia	10	1930EST			0	0	2K		Thunderstorm Wind	
	A tree	was reported do	wn on Sprin	ng Street in Ph	iladelphia.					
Mcminn County Athens	10	1935EST			0	0	15K		Thunderstorm Wind	
Autens		l trees were repo	orted down i	n Athens.	U	U	13K		Thuhueistorin vvinu	
Loudon County		· · · · · · · · · · · · · · · · · · ·								
Lenoir City	10	1952EST			0	0	20K		Thunderstorm Wind	
Blannt Carrit	Severa	l trees were repo	orted down i	n Lenoir City	including o	ne that fel	ll on a home p	roducing s	ome damage.	
Blount County Miser Station	10	2000EST			0	0	10K		Thunderstorm Wind	
wiser station		vere reported do	own on Wrig	ts Ferry Roa	-				Thuhacistorin wina	
<b>Blount County</b>		_		•						
Louisville	10	2012EST			0	0			Hail (1.75)	
Knox County	Golfba	ll size hail was r	reported at L	ouisville.						
Knox County Knoxville	10	2014EST			0	0			Hail (1.75)	
		ll size hail was r	reported at K	Knoxville.	v	v			()	
Blount County										
Louisville	10	2015EST		1	0	0	30K		Thunderstorm Wind	
Knox County	A tree	fell onto a carpo	ort, a van and	a part of a hou	se producir	ng damage	e to each.			
Countywide	10	2020EST			0	0	25K		Thunderstorm Wind	

TENNESSEE, East         Trees and power lines were downed in thunderstorm gusts across the county, including the Island Homes and Chapman I areas of South Kooxville, East Knocville, and Knoville, and Knocville, and Knocville, and Knocville, and	Bledsoe County 9.4 NNW Pikeville to 10.8 N Pikeville	areas o 10 An F1 285 ir numer	of South Knoxvill 2030CST 2038CST I tornado (with with with with with with with with	le, East Kno	xville and pa				
Trees and power lines were downed in thunderstorm guess across the county, including the Island Homes and Chapman I are of South Knoxville, East Knoxville and pures of were K Knox county.    Bledese County 10 2030CST 6.2 100 0 0 100K Tornado (F1)   2.45 NV Pikeville 10 2030CST 6.2 100 0 0 100K Tornado (F1)   2.45 NV Pikeville 10 2030CST 6.2 100 0 0 100K Tornado (F1)   An F1 tornado (with wind speeds estimated between S5 and 90 mph) touched down just west of the intersection of highway 20 the Three-Way Market to the Tennessee Regional State Correctional Facility. For tornado (F3)   4.4 S Warthurg to S6 EE Warthurg to County Wille 0 2031EST 8.3 300 7 2.8 965K Tornado (F3)   4.4 S Warthurg to County Wille 2034EST 8.3 300 7 2.8 965K Tornado (F3)   4.4 S Warthurg to County Wille 2034EST 8.3 300 7 2.8 965K 7 7 7   7 2.0 0 2.0K Tornado (F3) 4.0K 10 2.04EST 10 2.0K 10 2.0K   7 2.8 9.0 0 5.K Tonadorstorm Wind 7 7 7 8 7 </td <td>Bledsoe County 9.4 NNW Pikeville to 10.8 N Pikeville</td> <td>areas o 10 An F1 285 ir numer</td> <td>of South Knoxvill 2030CST 2038CST I tornado (with with with with with with with with</td> <td>le, East Kno</td> <td>xville and pa</td> <td></td> <td></td> <td></td> <td></td>	Bledsoe County 9.4 NNW Pikeville to 10.8 N Pikeville	areas o 10 An F1 285 ir numer	of South Knoxvill 2030CST 2038CST I tornado (with with with with with with with with	le, East Kno	xville and pa				
Blebos County J4.NW Pikeville 0 0 2030CST 6.2 10 0 0 0 000K Tornado (F1) J4.SN Pikeville 0 10 2030CST 7 7 28 965K Tornado just west of the intersection of highways 255 in northwest Blebos county. This tomado pased just north of the Bellvew community. Five homes were dama numerous trees were downed along the tornado spith, which crossel Highway 101 and continued just north of Highway 2 the Three-Way Market to the Temessee Regional State Correctional Facility. Tornado (F3) A strong F3 tornado (with wind speeds estimated around 175 mph) touched down 4.4 miles south of Warburg in the Moss community killing 7 spoel and lipting 28. This tomado has mack Joyner at 80 PM. killing two more people for a to desatory of 2035EST 0 0 20K Tounderstorm Wind County Wind 10 2031EST 0 0 SK Tounderstorm Wind County Wind 10 2031EST 0 0 SK Tounderstorm Wind A few trees were reported down across the county. 10 2035EST 0 0 SK Tounderstorm Wind A few trees were reported down across a road one mile south of White Pine. Sevier County 3.2 WSW Lake City to 3.2 WSW Lake City to 1.2 2045EST 0 0 213K Tounderstorm Wind Several trees were reported down on power lines in Kodak. 3.2 WSW Lake City to 3.2 WSW Lake City to 3.2 USEST 0 0 213K Tounderstorm Wind Several trees were reported down across the county. 3.2 WSW Lake City to 3.2 USEST 5. 75 0 0 213K Tounderstorm Wind Several trees were reported down across the county. 3.2 WSW Lake City to 3.2 USEST 0 0 213K Tounderstorm Wind Several trees were reported down across the county. 3.2 USEST 0 0 3K Thunderstorm Wind Several trees were reported down across the county. 3.2 USEST 0 0 15K Thunderstorm Wind Several trees were reported down across the county. Chaiborne County Frees were reported down across the county. Chaib	9.4 NNW Pikeville to 10.8 N Pikeville	<b>10</b> An F1 285 ir numer	2030CST 2038CST tornado (with with with with with with with with			rts of west Kr	across tl	he county, including	the Island Homes and Chapman Highw
9.4 NW Plevelle on loss Nikerile       10       2.030 CT       6.2       100       0       0       100K       Tornado (F1)         10.8.N Pleventle       An P1 cornado (with wind speeds estimated between 85 and 90 mpb) touched down just west of the intersection of highways 22 the Three-Way Market to the Tanessee Regional State Correctional Facility.       An P1 cornado (k1)       Normal control of Bellowise consumity. Five house weed dama and manapara set of the tanessee Regional State Correctional Facility.         4.5 Wardbrog to SEE Wardbarg to SEE Wardbarg to See County. This touthed down 4.4 miles south of Wardbarg in the Moss community kills 5 people and inpring 28. This tornado then struck Loyner at 8.40 P.M. killing two more people for a t deat. The tornado State Correction 18 activity.         4.5 Wardbarg to SEE Wardbarg to Market to the tornado the struck Loyner at 8.40 P.M. killing two more people for a t deat. The tornado fama set is south of Wardbarg in the Moss community. Killing 5 people and inpring 28. This tornado then struck Loyner at 8.40 P.M. killing two more people for a t deat. The tornado fama set is south of Wardbarg in the Moss community. Killing two mare people for a t deat. The tornado fama set is south of Wardbarg in the Moss community. Killing two mare people for a t deat. The tornado fama set is south of Wardbarg in the Moss community. Killing two mare people for a t deat. The tornado fama set is south of Wardbarg in the Moss community. Killing two mare people for at the destruct to the damage of the set with the Pine.         Connet Community       10       2042EET       5       7       0       0       15K       Thandersform Wind Set is the community is the fama set is south of t	9.4 NNW Pikeville to 10.8 N Pikeville	An F1 285 ir numer	2038CST tornado (with with	6.2	400		nox cour	nty.	
An F1 tornado (with wind speeds estimated between 85 and 90 mph) touched down jets were of the intersection of highways 28 is in northwest Bledives community. They homes were dama numerous trees were downed along the tornado's path, which crossed Highway 101 and continued just north of Highways 28 fields and the tornado's path, which crossed Highway 101 and continued just north of Highways 20 here. Way Market to the Tennessee Regional State Correctional Facility. As the tornado facility of 2042EST 8.3 30 7 28 968K Tornado (F3) 2042EST 102042 (F1) 101 (F1)		285 ir numer	tornado (with w		100	0	0	100K	Tornado (F1)
4.5 Warthurg to S.6 ES Warthurg to Consumity Killing S people and injuring 28. This tormado then struck Joyner at 8.40 P.M. Killing two more people for a to dead. The tormado damaged 63 homes while destroying 24 others. In addition, 18 mobile homes were damaged and 12 other destroymed.         Reame County       10       2042EST       0       0       20K       Thunderstorm Wind         Jefferson County       10       2040EST       0       0       5K       Thunderstorm Wind         Sevier County       10       2040EST       5.5       7.5       0       0       15K       Thunderstorm Wind         Sevier County       10       2040EST       5.5       7.5       0       0       13K       Thunderstorm Wind         Sevier County       10       2040EST       5.5       7.5       0       0       13K       Thunderstorm Wind         3.2 WSW Lake City to Countywide       10       2043EST       5.5       7.5       0       0       213K       Tornado (F2)         3.2 WSW Lake City to Countywide       10       2110EST       0       0       13K       Thunderstorm Wind         3.2 WSW Lake City to Countywide       10       2110EST       0       0       13K       Thunderstorm Wind </td <td>Morgan County</td> <td>the Th</td> <td>rous trees were de</td> <td>soe county. owned along</td> <td>This torna g the tornado</td> <td>do passed jus</td> <td>st north h crosse</td> <td>of the Bellview com d Highway 101 and c</td> <td>munity. Five homes were damaged a</td>	Morgan County	the Th	rous trees were de	soe county. owned along	This torna g the tornado	do passed jus	st north h crosse	of the Bellview com d Highway 101 and c	munity. Five homes were damaged a
8.6 ESE Wartburg       A storong F3 tornado (with wind speeck estimated around 175 mph) touched down 4.4 miles south of Wartburg in the Mossy community killing 5 people and injuring 28. This tornado then struck. Joyner at 8.40 PM. killing two more people for a to dead. The tornado damaged 63 homes while destroying 24 others. In addition, 18 mobile homes were damaged and 12 other destroyed.         Roame County       10       2035EST       0       0       20K       Thunderstorm Wind         Jefferson County       10       2046EST       0       0       5K       Thunderstorm Wind         After rese were reported down across the county.       10       2040EST       0       0       15K       Thunderstorm Wind         Several trees were reported down across a road one mile south of White Pine.       0       0       15K       Thunderstorm Wind         Anderson County       10       2040EST       5       7       0       0       213K       Tornado (F2)         Addreson County       2040EST       5       7       0       0       213K       Tornado (F2)         Addreson County       2040EST       5       7       0       0       213K       Tornado (F2)         Addreson County       2040EST       5       7       0       0       213K       Tornado (F2)         Addreson County       2040EST			-		·			·	
community killing 5 people and injuring 28. This tormado then struck Joyner at 8-40 P.M. killing it wo more people for a te destroyed. M47PH, F36PH, F73PH, M55VE, F1VE, M45PH, P39H Toe sorted down across the county. Jefferson County 1 S White Pine 10 2040EST 0 0 0 SK Thunderstorm Wind A few trees were reported down across a road one mile south of White Pine. Sevier County 4 2 EVENT 0 0 15K Thunderstorm Wind A few trees were reported down on power lines in Kodak. Anderson County 3 2 WSW Lake City to 10 2045EST 5. 75 0 0 1213K Tornado (F2) 4 2 EVENT 10 2045EST 5. 75 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 5. 75 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 5. 75 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 0 0 0 213K Tornado (F2) 4 2 EVENT 10 2045EST 0 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 0 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 0 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 0 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 0 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 0 0 0 2015K Tornado (F2) 4 2 EVENT 10 2045EST 0 0 0 2015K Tornado (F2) 4 2 EVENT 10 2 105EST 0 0 0 15K Tornado (F2) 4 2 EVENT 10 2 105EST 0 0 0 15K Thunderstorm Wind 4 arrayed Countywide Toe strees were reported down across the county. Claiborne County Claiborne County 4 Toe 2105EST 0 0 0 30K Thunderstorm Wind 4 arrayed Trees were reported down on Arthur Road near Gap Creek Baptist Church. Claiborne County Forge Ridge 10 2135EST 0 0 0 30K Thunderstorm Wind Arthur 10 2135EST 0 0 0 40 30K Thunderstorm Wind Arthur 10 2135EST 0 0 0 40 30K Thunderstorm Wind Arthur 10 2135EST 0 0 0 30K Thunderstorm Wind Arthur 10 2135EST 0 0 0 30K Thunderstorm Wind Arthur 10 2135EST 0 0 0 40 30K Thunderstorm Wind Arthur 10 2135EST 0 0 0 40 30K Thunderstorm Wind Arthur 10 2105EST 0 0 0 40 30K Thunderstorm Wind Aspotter reported as may indiguts in a thunderstorm wind gusts. The banes housed ten thousand pounds of tobacco and seve			2042EST						
Reame County Trees were reported down across the county.00000Number Start Total StartNumber Start Total S		comm dead. destro	The tornado dan oyed.	eople and in haged 63 ho	juring 28. T mes while de	This tornado t estroying 24 c	hen stru	ck Joyner at 8:40 P.N	1. killing two more people for a total of
Trees were reported down across the county.         Jefferson County         10 2040EST 0 0 5K Thunderstorm Wind         A few trees were reported down across a road one mile south of White Pine.         Sevier County         Kodak       10 2045EST       0 0       15K       Thunderstorm Wind         Anderson County       3.2 WSW Lake City to       10 2054EST       5.5       75       0       0       213K       Tornado (F2)         Aderson County       3.2 WSW Lake City to       10 2054EST       5.5       75       0       0       213K       Tornado (F2)         An F2 tornado produced a damage puth 75 yards wide for a distance of 5.5 miles from near Brieville to Mediford. The b community received the brunt of the damage, which was concentrated along Highway 25W, Leinart Road, Bryant Circle and New Clear Branch roads. In all, 32 homes were damaged while 3 were totally destroyed. In addition, 9 mobile hom damaged.         Campbell County       0       1210EST       0       0       20K       Thunderstorm Wind         Claiborne County       10       2130EST       0       0       3K       Thunderstorm Wind         Arthur       10       2135EST       0       0       3K       Thunderstorm Wind         Torge Ridge       10       2145EST       0       0 <td>Roane County</td> <td></td> <td></td> <td>.,</td> <td></td> <td>,</td> <td></td> <td></td> <td></td>	Roane County			.,		,			
1 S White Pine       10       2040EST       0       0       5K       Thunderstorm Wind         A few trees were reported down across a road one mile south of With Pine.       A few trees were reported down across a road one mile south of With Pine.         Kodak       10       2045EST       0       0       15K       Thunderstorm Wind         Aderson County       32 WSW Lake City       10       2054EST       5.5       75       0       0       213K       Tornado (F2)         4.2 ESE Lake City       10       2054EST       5.5       75       0       0       213K       Tornado (F2)         4.2 ESE Lake City       10       2054EST       5.5       75       0       0       213K       Tornado (F2)         Addrson County       10       210EST       5.5       75       0       0       213K       Tornado (F2)         Campbell County       10       2110EST       75       0       0       20K       Thunderstorm Wind         Trees were reported down across the county.       10       2130EST       0       0       3K       Thunderstorm Wind         Campbell County       10       2135EST       0       0       3K       Thunderstorm Wind         Trees were reported down on	Countywide			wn across th	e county.	0	0	20K	Thunderstorm Wind
A few trees were reported down across a road one mile south of White Pine. Sevier County Kodak  10 2045EST  Anderson County  3.2 WSW Lake City to 4.2 ESE Lake City A F2 tormado produced a damage path 75 yards wide for a distance of 5.5 miles from near Briceville to Medford. The M community received the brunt of the damage, which was concentrated along Highway 25W, Leinart Road, Bryant Circle and N we Clear Branch roads. In all, 32 homes were damaged while 3 were totally destroyed. In addition, 9 mobile hom damaged. Campbell County Countywide  10 2130EST  0 0 0 2135EST  0 0 0 3K  Thunderstorm Wind Trees were reported down on Arthur Road near Gap Creek Baptist Church. Claiborne County Forge Ridge  10 2145EST  0 0 0 3K  Thunderstorm Wind Two barrs in the Forge Ridge area were destroyed in thunderstorm wind gusts. The barrs housed ten thousand pounds of tobacco and several rolls of hay. Hancock County Treadway  10 2200EST 0 0 0 3K  Thunderstorm Wind (G74) A spotter reported as Smph wind gust in a thunderstorm. Sequatchie County Treadway  10 2203EST 0 0 0 10 210EST 0 10 210EST 0 10 203EST 0 10 203E  Community County Claiborne Co									
Several recounty       Numerous recepted down on power lines in Kodak.       Numerous recepted down on power lines in Kodak.         Anderson County       Numerous received down on power lines in Kodak.       Numerous received down on power lines in Kodak.         Anderson County       Numerous received down on power lines in Kodak.       Numerous received down on power lines in Kodak.       Numerous received down and produced a damage path 75 yards wide for a distance of 5.5 miles from near Briceville to Medford. The Model anaged.         Campbell County       Numerous received do brun of the damage, which was concentrated along Highway 25W. Leinart Road, Bryant Circle and New Clear Branch roads. In all, 32 homes were damaged while 3 were totally destroyed. In addition, 9 mobile hom damaged.         Campbell County       10       2110EST       0       0       20K       Thunderstorm Wind         Claiborne County       10       2130EST       0       0       3K       Thunderstorm Wind         Arter       Vare was reported down across the county.       0       0       3K       Thunderstorm Wind         Claiborne County       10       2135EST       0       0       3K       Thunderstorm Wind         Arter       Vare was reported down on Arthur Road near Gap Creek Baptist Church.       10       2135EST       0       3K       Thunderstorm Wind         Tradway       10       2200EST       0	1 S White Pine			ed down ac	ross a road o	v			Thunderstorm Wind
Several trees were reported down on power lines in Kodak.         Anderson County         3.2 WSW Lake City to       10       2054EST       5.5       75       0       0       213K       Tornado (F2)         A.1 E2 SE Lake City       An F2 tornado produced a damage path 75 yards wide for a distance of 5.5 miles from near Briceville to Medford. The M community received the brunt of the damage, which was concentrated along Highway 25W, Leinart Road, Bryant Circle and New Clear Branch roads. In all, 32 homes were damaged while 3 were totally destroyed. In addition, 9 mobile hom damaged.         Campbell County       0       210EST       0       0       20K       Thunderstorm Wind         Claiborne County       10       2130EST       0       0       15K       Thunderstorm Wind         Claiborne County       10       2135EST       0       0       3K       Thunderstorm Wind         Claiborne County       10       2135EST       0       0       3K       Thunderstorm Wind         Claiborne County       10       2135EST       0       0       3K       Thunderstorm Wind         Claiborne County       10       2135EST       0       0       3K       Thunderstorm Wind         Artew       210       2145EST       0       0       3K       Thunderstorm Wind         Clai	Sevier County	11100	uees were report	ed down de	1055 4 1044 01	lie lille souur	01 // 111	e i me.	
3.2 WSW Lake Čity to 4.2 ESE Lake Či	Kodak			rted down o	n power lines	÷	0	15K	Thunderstorm Wind
An F2 tornado produced a damage path 75 yards wide for a distance of 5.5 miles from near Briceville to Medford. The M community received the brunt of the damage, which was concentrated along Highway 25W, Leinart Road, Bryant Circle and I New Clear Branch roads. In all, 32 homes were damaged while 3 were totally destroyed. In addition, 9 mobile home damaged.Campbell County Countywide102110EST0020KThunderstorm Wind Trees were reported down across the county.Claiborne County Countywide102130EST0015KThunderstorm Wind Numerous trees were reported down across the county.Claiborne County Arthur102135EST003KThunderstorm Wind Thunderstorm WindClaiborne County 	3.2 WSW Lake City to	10		5.5	75	0	0	213K	Tornado (F2)
Countywide102110EST0020KThunderstorm Wind Trees were reported down across the county.Claiborne County102130EST0015KThunderstorm WindNumerous trees were reported down across the county.003KThunderstorm WindClaiborne County102135EST003KThunderstorm WindArtnur102135EST003KThunderstorm WindClaiborne County102145EST003KThunderstorm WindClaiborne County102145EST003KThunderstorm WindHancock County102100EST003KThunderstorm WindTreadway102200EST003KThunderstorm Wind (G74)MPine Grove102205EST003KThunderstorm Wind (G74)MSequatchie County102205EST0010KThunderstorm Wind (G74)Dunlap102205EST0010KThunderstorm Wind (G74)Dunlap102205EST0010KThunderstorm WindDunlap102205EST0010KThunderstorm WindDunlap102205EST0010KThunderstorm WindDunlap102205EST0010KThunderstorm WindDunlap102205EST0010KThunderstorm WindDunla	·	comm New (	unity received the Clear Branch roa	e brunt of th	e damage, w	hich was con	centrated	l along Highway 25W	, Leinart Road, Bryant Circle and Old a
Trees were reported down across the county.         Claiborne County       10       2130EST       0       0       15K       Thunderstorm Wind         Numerous trees were reported down across the county.       Numerous trees were reported down across the county.       Numerous trees were reported down across the county.         Claiborne County       10       2135EST       0       0       3K       Thunderstorm Wind         Arthur       10       2135EST       0       0       3K       Thunderstorm Wind         Claiborne County       10       2145EST       0       0       30K       Thunderstorm Wind         Forge Ridge       10       2145EST       0       0       30K       Thunderstorm Wind         Treo barns in the Forge Ridge area were destroyed in thunderstorm wind gusts. The barns housed ten thousand pounds of tobacco and several rolls of hay.       10       2200EST       0       0       Hail (0.75)         Bine Grove       10       2203EST       0       0       3K       Thunderstorm Wind (G74)       M         Sequatchie County       Pine Grove       10       2205CST       0       0       10K       Thunderstorm Wind (G74)       M         Dunlap       10       2205CST       0       0       10K       Thunderstorm Wi		10	<b>2110</b> 267			0	0	2017	
Claiborne County       Image: Claiborne County	Countywide			wn across th	e county	0	0	20K	Thunderstorm Wind
Numerous trees were reported down across the county.         Claiborne County       10       2135EST       0       0       3K       Thunderstorm Wind         Arthur       10       2135EST       0       0       3K       Thunderstorm Wind         Claiborne County       10       2145EST       0       0       30K       Thunderstorm Wind         Forge Ridge       10       2145EST       0       0       30K       Thunderstorm Wind         Kome County       10       2145EST       0       0       30K       Thunderstorm Wind         Hancock County       10       2200EST       0       0       Hail (0.75)         Dime size hail was reported at Treadway.       0       0       3K       Thunderstorm Wind (G74)       M         Roane County       10       2203EST       0       0       3K       Thunderstorm Wind (G74)       M         Pine Grove       10       2203EST       0       0       3K       Thunderstorm Wind (G74)       M         Sequatchie County       10       2203EST       0       0       10K       Thunderstorm Wind (G74)       M         Dunlap       10       2205CST       0       0       10K       Thunderstorm Wind<	Claiborne County	11003	were reported do	wil deloss il	le county.				
Claiborne County       10       2135EST       0       0       3K       Thunderstorm Wind         A tree was reported down on Arthur Road near Gap Creek Baptist Church.       Claiborne County       Image: Claiborne C	Countywide					÷	0	15K	Thunderstorm Wind
Arthur102135EST003KThunderstorm WindA tree was reported down on Arthur Road near Gap Creek Baptist Church.Claiborne CountyForge Ridge102145EST0030KThunderstorm WindTwo barns in the Forge Ridge area were destroyed in thunderstorm wind gusts.The barns housed ten thousand pounds of tobacco and several rolls of hay.Hancock CountyTreadway102200EST00Hail (0.75)Treadway102203EST003KThunderstorm Wind (G74)MPine Grove102203EST003KThunderstorm Wind (G74)MSequatchie County102205CST0010KThunderstorm Wind (G74)MDunlap102205CST0010KThunderstorm WindMCampbell CountyI2210EST0010KThunderstorm WindJacksboro102210EST0010KThunderstorm Wind	Claiborne County	Nume	rous trees were re	eported dow	n across the c	county.			
Claiborne County       I0       2145EST       0       0       30K       Thunderstorm Wind         Two barns in the Forge Ridge area were destroyed in thunderstorm wind gusts. The barns housed ten thousand pounds of a tobacco and several rolls of hay.       The barns housed ten thousand pounds of a tobacco and several rolls of hay.         Hancock County       Intreadway       Intreadway       Intreadway.       Intreadway.         Roane County       Intreadway.       Intreadway.       Intreadway.       Intreadway.         Pine Grove       Intreadway.       Intreadway.       Intreadway.       Intreadway.         Sequatchie County       Intrease were reported a 85 mph wind gust in a thunderstorm.       Intrease were reported down in Dunlap.       Intrease were reported down in Dunlap.         Campbell County       Intrease were reported down in Dunlap.       Intrease were reported down in Dunlap.       Intrease were reported down in Dunlap.       Interstore Wind (0.75)         Jacksboro       Interstore Wind (0.75)       Interstore Wind (0.75)       Interstore Wind (0.75)	-								Thunderstorm Wind
Forge Ridge102145EST0030KThunderstorm WindTwo barns in the Forge Ridge area were destroyed in thunderstorm wind gusts.The barns housed ten thousand pounds of a tobacco and several rolls of hay.Hancock County102200EST00Hail (0.75)Dime size hail was reported at Treadway.D3KThunderstorm Wind (G74)MRoane County102203EST003KThunderstorm Wind (G74)MPine Grove102205CST0010KThunderstorm Wind (G74)MSequatchie County102205CST0010KThunderstorm WindDunlap102205CST0010KThunderstorm WindCampbell County102210EST000Hail (0.75)	Clathanna Canata	A tree	e was reported dov	wn on Arthu	r Road near	Gap Creek Ba	aptist Ch	urch.	
tobacco and several rolls of hay. Hancock County Treadway 10 2200EST 0 0 Hail (0.75) Dime size hail was reported at Treadway. Roane County Pine Grove 10 2203EST 0 0 3K Thunderstorm Wind (G74) A spotter reported a 85 mph wind gust in a thunderstorm. Sequatchie County Dunlap 10 2205CST 0 0 0 10 2205CST 0 10 2210EST 0 0 0 Hail (0.75)		10	2145EST			0	0	30K	Thunderstorm Wind
Hancock CountyTreadway102200EST00Hail (0.75)Dime size hail was reported at Treadway.Dime size hail was reported at Treadway.NoNoNoRoane County102203EST003KThunderstorm Wind (G74)NoPine Grove102203EST0010KThunderstorm Wind (G74)NoSequatchie County102205CST0010KThunderstorm WindDunlap102205CST0010KThunderstorm WindCampbell CountyJacksboro102210EST00Hail (0.75)			•	-	a were destro	yed in thund	erstorm	wind gusts. The barr	is housed ten thousand pounds of hangi
Treadway102200EST00Hail (0.75)Dime size hail was reported at Treadway.Roane CountyPine Grove102203EST003KThunderstorm Wind (G74)MA spotter reported a 85 mph wind gust in a thunderstorm.Sequatchie CountyDunlap102205CST0010KThunderstorm WindCampbell CountyJacksboro102210EST00Hail (0.75)	Hancock County	tobacc	co and several roll	s of nay.					
Roane County       Image: Processing of the system of the sy						0	0		Hail (0.75)
Pine Grove     10     2203EST     0     0     3K     Thunderstorm Wind (G74)       A spotter reported a 85 mph wind gust in a thunderstorm.       Sequatchie County       Dunlap     10     2205CST     0     0     10K     Thunderstorm Wind       Trees were reported down in Dunlap.       Campbell County       Jacksboro     10     2210EST     0     0	Roane County	Dime	size hail was repo	orted at Trea	idway.				
Sequatchie County       10       2205CST       0       0       10K       Thunderstorm Wind         Dunlap       10       2205CST       0       0       10K       Thunderstorm Wind         Campbell County       Jacksboro       10       2210EST       0       0       Hail (0.75)							0	3K	Thunderstorm Wind (G74) <sup>M</sup>
Dunlap102205CST0010KThunderstorm WindTrees were reported down in Dunlap.Campbell CountyJacksboro102210EST00Hail (0.75)	Saguatahia County	A spot	tter reported a 85	mph wind g	gust in a thun	derstorm.			
Campbell County Jacksboro 10 2210EST 0 0 Hail (0.75)						0	0	10K	Thunderstorm Wind
Jacksboro         10         2210EST         0         0         Hail (0.75)	Campbell County	Trees	were reported do	wn 1n Dunla	ıp.				
Dime size hail was reported at Jacksboro.		10	2210EST			0	0		Hail (0.75)
		Dime	size hail was repo	orted at Jack	sboro.				
Union County1 N New Loyston102213EST003KThunderstorm Wind		10	2213FST			A	0	3K	Thunderstorm Wind

Location		Local/	Length	Width	Per	sons	Dan	age	November 2002
	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TENNESSEE, East									
Anderson County									
Countywide	10	2215EST			0	0	15K		Thunderstorm Wind
Claiborne County	Trees	and power lines	were reporte	ed down acros	ss the count	у.			
Speedwell	10	2220EST			0	0	15K		Thunderstorm Wind
Specawen		al trees were rep	orted down i	n and around			101		
Marion County					1				
Jasper	10	2225CST			0	0	15K		Thunderstorm Wind
-	Trees	were reported d	own near Jas	per and acros	s the northe	ern half of	the county.		
Hancock County	10	2229EGT			0	0	2017		
Countywide	10 Trees	2228EST and power lines	were report	ad down acros	0 s the count	0	20K		Thunderstorm Wind
Roane County	Tiees	and power lines	were report		s the count	у.			
Countywide	10	2229EST			0	0	30K		Thunderstorm Wind
		erous trees were	reported dov	n across the o	county. So			homes.	
Anderson County					•				
Countywide	10	2238EST			0	0	25K		Thunderstorm Wind
	Nume	erous trees and p	ower lines w	ere reported d	lown across	the count	y.		
Hawkins County	10				0				
Church Hill	10 Nume	2240EST	una limba fa	Il onto Couth	0 Control Arv	0 hotru	25K	maat and C	Thunderstorm Wind
Hawkins County	Inume	erous trees and h	arge minds ie	n onto South	Central Ave	enue betwo	een main St		arters Valley Road.
Countywide	10	2300EST			0	0	15K		Thunderstorm Wind
county white		erous trees were	reported dow	n across the o		Ū	1011		
Sullivan County			1		,				
Kingsport	10	2300EST			0	0	25K		Thunderstorm Wind
	Nume	erous trees and p	ower lines w	ere downed in	n and aroun	d Kingspo	ort.		
Hancock County									
Countywide	10 S	2300EST			0	0	15K		Thunderstorm Wind
Union County	Sever	al trees were rep	oned down a	across the cou	nty.				
Maynardville	10	2305EST			0	0	15K		Thunderstorm Wind
in a final a fine		erous trees were	reported dow	n at Mavnard		Ū	1011		
Hamilton County			1						
Red Bank	10	2315EST			0	0			Hail (0.75)
	Dime	size hail was re	ported at Rec	l Bank.					
Hamilton County	10				0		4077		
Signal Mtn	10 Troos	2325EST were reported d	own noor Si	mal Mountain	0	0	10K		Thunderstorm Wind
Roane County	Tiees	were reported u	own near Sig	gilar iviountain	1.				
Kingston	10	2327EST			0	0	6K		Thunderstorm Wind
8		v trees fell on a h	ouse at 1104	Pineywood I					
Claiborne County									
New Tazewell	10	2330EST			0	0			Hail (1.75)
II L. C	Golf l	ball size hail fell	at New Taze	well.					
Hancock County Countywide	10	2340EST			0	0	15K		Thunderstorm Wind
Countywide		erous trees and p	ower lines w	ere reported d					Thunderstorm wind
Bradley County	i vuine	prous nees and p		ere reported e	io wii derost	, the count	<i>.</i>		
Countywide	10	2350EST			0	0	20K		Thunderstorm Wind
	Nume	erous trees were	reported dow	n across the c	county.				
Grainger County									
Rutledge	11	0001EST			0	0	10K		Thunderstorm Wind
T. C.	A few	v trees were repo	orted down be	etween Blaine	and Rutled	lge.			
Jefferson County White Pine	11	0001EST			0	0	20K		Thunderstorm Wind
** IIIC I IIC			ower lines w	vere downed i				Pine and D	Dandridge (around Goose Creek Road) east
		Leadville comm		as miled i				ine and D	
Monroe County			2						
Sweetwater	11	0001EST			0	0	10K		Thunderstorm Wind

		Time Local/	Path Length	Path Width	Numb Perso		Estim Dam		Novem	ber 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
TENNESSEE, East										
	Sever	al trees were rep	ported down	in and around	Sweetwater.					
Polk County										
Countywide	11 Sever	0005EST al trees were rep	orted down	perces the we	0 stern half of t	0 he count	15K		Thunderstorm Wind	
Hancock County	Sever	ai tiees were rep		actoss the we			.y.			
Countywide	11	0005EST			0	0	20K		Thunderstorm Wind	
		and power lines	s were report	ed down acros	ss the county.					
Roane County		1	1							
Kingston	11	0007EST			0	0	15K		Thunderstorm Wind	
0	A tree	e was reported d	own on a hoi	ne at 127 Sur	nset View Dri	ve in Ki	ngston.			
Union County							•			
Sharps Chapel	11	0012EST			0	0	15K		Thunderstorm Wind	
	Nume	erous trees were	reported dov	vn in the Shar	ps Chapel are	ea.				
Claiborne County										
New Tazewell	11	0015EST			0	0	20K		Thunderstorm Wind	
	Nume	erous trees were	reported dov	n across the	southern half	of the co	ounty.			
Anderson County										
Countywide	11	0015EST			0	0	20K		Thunderstorm Wind	
·	Nume	erous trees and p	ower lines w	ere reported a	down through	out the c	county.			
Roane County		1		I	e		2			
Oliver Spgs	11	0019EST			0	0	15K		Thunderstorm Wind	
18		e was reported d	own on a hoi	ne at 467 Joe	l Road in Oli	ver Sprii	igs.			
Blount County						~ ~ F	-8			
Countywide	11	0020EST			0	0	15K		Thunderstorm Wind	
coully white		erous trees were	reported dov	vn across the				s the south		
Knox County	1,0111		reponde do r	in deross the	county white	concen		o une soud	ern Fordom	
North Knoxville	11	0020EST			0	0	15K		Thunderstorm Wind	
		erous trees and p	ower lines w	ere downed a	cross norther					
Loudon County	1,0111	i ous aces and p		ere do mied d			county.			
Loudon	11	0020EST			0	0	20K		Thunderstorm Wind	
Loudon		erous trees and p	ower lines w	ere downed h	etween Loud				Thuhucistorin vinu	
Union County	1,0111	prous areas and p		ere do inica o	erneen Boud		ionon ony.			
8 S Maynardville	11	0024EST			0	0	3K		Thunderstorm Wind	
o o maynaruvine		ge tree was repoi	rted down in	the 3800 bloc	k of Hickory			south of		
Polk County	11 141 2	ge tree was repor			sk of flickory	vaney i	toud o mile.	south of 1	ing hard vine.	
Countywide	11	0030EST			0	0	15K		Thunderstorm Wind	
County white		al trees were rep	orted down	across the cou		v	1.51		Thuhucistorin vinu	
Monroe County	Sever	ai tices were rep	Jone down	across the cou	inty.					
Countywide	11	0035EST			0	0	15K		Thunderstorm Wind	
County white		al trees were rep	ported down	across the cou		U	151		Thuhuerstorm while	
<b>ENNESSEE, West</b>	Sever	ai trees were rep		across the cou	inty.					
Tipton County	00	2205057	17	440	0	1	a		T	
.5 N Randolph to 3 NE Covington	09	2205CST 2230CST	17	440	0	1	6M		Tornado (F2)	
3 NE Covington	The t		nto Tinton or	matri facan M	ingingingi ooy		ulrongog og d	morrodm	outboast. The towneds musdueed	significan
			-	•	**	•			ortheast. The tornado produced	•
		-	•	•		•			m the facade of a building in vere destroyed. Approximately	
		usiness were dat	•					ousiness v	where desuroyed. Approximately	215 nome
Crockett County	and D	usiness were ual	mageu. Nulli	crous nees all	a power miles	were D	own down.			
STOCKER COunty	~~	221 <i>5</i> .09T								

Bells

09	2215CST	0	0	1.5M	Thunderstorm Wind
	2220CST				

Strong straight line winds damaged a nursing home in the town of Bells. The damage forced 120 residents in the home to be evacuated. Some trees and power lines were also knocked down.

		Time Local/	Path Length	Path Width	Per	ber of sons	Estim Dam	age		November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
<u>TENNESSEE, West</u>										
Crockett County 2 NE Bells to .5 W Fruitvale	09	2215CST	4	220	0	0	750K		Tornado (F2)	
				22		-				
		/		2				1	_	
		P				×		-		
		H			A.A.			-		
		R		Care and	1 TH	-	31-	-		
		111		1. 10				-		
		E		K	IN SM	21				
				Del		$H_{1}$			1.1	
	2449	and the seal of the		- Barris					1	
		4					- ALE-		No. of Concession, Name	
		V-II-		- 61		A	SIL-			
	11 10	Court of the	100				AND -	+ -		
		10		-		the second second	1000			

A tornado touched down just northeast of Bells and tracked northeast. Six mobile homes and four houses were destroyed. Another 62 homes and several businesses were damaged. Many trees and power poles were blown down.

location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Pers Killed		Estimated Damage Property Crops	Character of Storm	November 2002
<b>ENNESSEE, West</b> Carroll County 2 S Terry to 2 NW Leach	09	2226CST 2244CST	10	220	2	6	500K	Tornado (F2)	
	1 Alexandre								
Gibson County Medina	The to Two p	ornado touched d	lown near the led in one c	e town of Ter f mobile hor	ry and track tes in the pa	ed northe ark. Thre		<i>• 9th.</i> mobile home park ne esses and a farm bui <b>Thunderstorm V</b>	lding were destroye
	gymna	g straight-line w asium was blown	n down. The	scoreboard at	the Medina	football	field was blown down	th wall of the Medin n. Two homes and one o other homes were da	e public building wer
Haywood County 7 E Belle Eagle	<b>09</b> A cou	2300CST 2305CST ple of trees were	knocked do	wn.	0	0	5K	Thunderstorm V	Vind
Dbion County 2 W Rives	09	2325CST 2330CST			0	0	0.10K	Hail (1.00)	
Fipton County	09	2325CST			0	0	1K	Flash Flood	

S	tor	m Data	a and	Unus	ual W	Veat	ther Ph	enomena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Perse Killed		Estimated Damage Property Cr	rops Character of Storm	November 200
	Dute	Standard	(inites)	(Turus)	Trineu	injured	Troperty en	tops Character of Storin	
CENNESSEE, West Madison County 5 NW Jackson to 1 NW Jackson	10	0010CST 0020CST	4	220	0	0	3М	Tornado (F1)	
			NA			影響			
	<i>morni</i> The to Unive	ing of November ornado touched	<i>r 10th.</i> down north eral building	west of Jacks s on campus	son and move was badly da	ed north maged. A	east. The tornad	county just north of Jack o hit a subdivision and als at the school were damage	so hit parts of Unio
Carroll County	was u	estroyed and ov	er 150 nonne	s and busines	ses were dan	lageu.			
Lavinia	10	0045CST 0050CST			0	0	5K	Thunderstorm W	ind
	Sever	al trees were kn	ocked down.						
Henderson County									
Mt Gilead	10	0100CST 0105CST			0	0	25K	Thunderstorm W	ind
	A cou		ad their roofs	blown off. S	ome trees and	l power l	ines were knock	ed down.	
<b>Fipton County</b>		-				-			
5 S Covington	10	1550CST 1555CST			0	0	0.10K	Hail (1.00)	
Lauderdale County		1000001							
Curve	10	1605CST			0	0	0.01K	Hail (0.75)	
Fipton County		1610CST							
Covington	10	1620CST			0	0	0.20K	Hail (1.00)	
		1630CST							
Finton County					0	0	1K	Flash Flood	
Fipton County Covington	10	1635CST 1800CST			U	v			
		1800CST	ches were flo	ooded.	U	Ū			
Tipton County Covington Shelby County			ches were flo	ooded.	U	Ū			

		Time Local/	Path Longth	Path Width		ber of sons	Estimated	November 2002
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Killed	Injured	Damage Property Crops	Character of Storm
TENNESSEE, West								
Haywood County								
Belle Eagle	10	1640CST 1645CST			0	0	5K	Thunderstorm Wind
Shelby County	A few	v trees were blow	/n down.					
Memphis	10	1641CST			0	0	0.01K	Hail (0.75)
_	10	1650CST			v	Ū	0.011	Han (0.75)
Shelby County Memphis	10	1643CST			0	0	10K	Thunderstorm Wind (G55)
Memphis		1655CST	1	1	U	U	IUK	Thunderstorm Wind (033)
Weakley County	Some	trees and power	lines were b	iown down.				
Dresden	10	1650CST			0	0	0.01K	Hail (0.75)
Diesden	10	1655CST			Ū	Ū	0.0111	
Shelby County								
Memphis	10	1701CST 1830CST			0	0	1K	Flash Flood
<b>an a i</b>	Sever	al intersection w	ere flooded.					
Gibson County 2 SW Milan	10	1705CST			0	0	0.01K	$H_{2}(0.75)$
2 Svv Ivinan	10	1705CS1 1710CST			U	0	0.01K	Hail (0.75)
Madison County								
Jackson	10	1707CST 1715CST			0	0	0.01K	Hail (0.75)
Fayette County								
Rossville	10	1715CST 1720CST			0	0	5K	Thunderstorm Wind
	Sever	al trees were kno	ocked down.					
Shelby County								
Arlington	10	1725CST 1730CST			0	0	5K	Thunderstorm Wind
<b>GT G A</b>	Some	trees were blow	n down.					
Gibson County	10	1500000			0	0		
1 N Milan	10	1730CST 1735CST			0	0	5K	Thunderstorm Wind
	A cou	uple of trees were	e blown down	1.				
Carroll County Lavinia	10	1740CST	0.3	33	0	0	10K	Tornado (F0)
Lavina		1742CST						
	A tori a hou	•	thed down ne	ear the town of	of Lavinia in	southwe	est Carroll county. So	me trees were blown down. One tree fell on
Madison County	a nou	50.						
Medon	10	1755CST 1757CST	0.3	66	0	0	50K	Tornado (F0)
				in the town	of Medon. A	A barn wa	as demolished. A mo	bile home and tavern were damaged. Some
Chester County	uces	were biowir dow						
Henderson	10	1800CST 1805CST			0	0	15K	Thunderstorm Wind
	A hor	se barn had its ro	oof blown of	f. A few trees	s were knock	ed down.		
Hardeman County								
Whiteville to Bolivar	10	1805CST 1815CST			0	0	0.20K	Hail (1.00)
Hardeman County								
Whiteville to Bolivar	10	1805CST 1815CST			0	0	0.10K	Hail (1.00)
Henderson County								
Lexington	10	1815CST 1820CST			0	0	5K	Thunderstorm Wind
	Savor	al trees were kno	akad down					

Several trees were knocked down.

		Time	Path	Path	Num	ber of	Estimated	November 2002
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Damage Property Crops	Character of Storm
TENNESSEE, West								
Hardeman County								
2 S Bolivar	10	1816CST			0	0	10K	Thunderstorm Wind
	C	1820CST	1'					
Henderson County	Sever	al trees and pov	ver lines were	e knocked dov	wn.			
Lexington	10	1820CST			0	0	0.05K	Hail (0.88)
Desnigton	10	1825CST			Ū	Ū	0.0011	
Decatur County								
Parsons	10	1830CST			0	0	1K	Thunderstorm Wind
	A size	1835CST	f a huilding a	ad fall on a ac				
TEXAS, Central	A sigi	n was blown of	i a building a		ur.			
TEMAS, Central								
	NON	E REPORTED.						
<b>TEXAS, Central Sou</b>	<u>theast</u>							
Washington County								
Countywide	04	1625CST			0	0	20K	Flash Flood
	05 Numo	0410CST erous roads clos	ad due to hig	h water on ev	tromoly coty	rated area	unda	
Madison County	INUITIE	cious roads cios	ed due to hig	ii water on ex	tremery satu	rated gro	unus.	
Countywide	04	1630CST			0	0	20K	Flash Flood
•	05	0415CST						
	Nume	erous roads clos	ed due to hig	h water on ex	tremely satu	rated gro	unds.	
Brazos County		144000			0	0	0.57	
Countywide	04 05	1640CST 0430CST			0	0	95K	Flash Flood
		erous roads clos	ed due to hig	h water on ex	tremely satu	rated gro	unds.	
<b>Burleson County</b>			0			U		
Countywide	04	1640CST			0	0	30K	Flash Flood
	05	0430CST	11 / 11		. 1 .	. 1	1	
Grimes County	Nume	erous roads clos	ed due to hig	n water on ex	tremely satu	rated gro	unds.	
Countywide	04	1640CST			0	0	20K	Flash Flood
county whee	05	0430CST			Ū	Ŭ		
	Nume	erous roads clos	ed due to hig	h water on ex	tremely satu	rated gro	unds.	
Walker County		4 < 40 000			0	0		
Countywide	04 05	1640CST 0415CST			0	0	20K	Flash Flood
		erous roads clos	ed due to hig	h water on ex	tremelv satu	rated gro	unds.	
Houston County			0			0		
Countywide	04	1645CST			0	0	20K	Flash Flood
	05	0430CST		L	······			
Trinity County	Nume	erous roads clos	ed due to mg	if water on ex	tremery satu	rated gro	unds.	
Countywide	04	1645CST			0	0	20K	Flash Flood
	05	0410CST						
	Nume	erous roads clos	ed due to hig	h water on ex	tremely satu	rated grow	unds.	
Polk County					0	0		
Countywide	04 05	1730CST 0405CST			0	0	20K	Flash Flood
		erous roads clos	ed due to hig	h water on ex	tremely satu	rated grow	unds.	
San Jacinto County					<u>j</u>	6		
Countywide	04	1745CST			0	0	20K	Flash Flood
	05	0410CST	11 . 11				,	
Montgomery County	Nume	erous roads clos	ed due to hig	h water on ex	tremely satu	rated gro	unds.	
Countywide	04	2035CST			0	0	25K	Flash Flood
county mut	05	0415CST			5			<b></b>
	Nume	erous roads clos	ed due to hig	h water on ex	tremely satu	rated grow	unds.	

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
TEXAS, Central Sout	heast								
Waller County									
Countywide	04	2042CST			0	0	20K	Flash Flood	
	05 Nume	0420CST erous roads close	ad due to hig	h water on ex	tramely entur	ated grou	unde		
Colorado County	INUIIIC	rous roads cross	eu uue to ingi	ii water on ex	tremery satur	aleu gio	unus.		
Countywide	04	2045CST			0	0	20K	Flash Flood	
	05	0420CST							
	Nume	erous roads close	ed due to higl	h water on ex	tremely satur	ated gro	unds.		
Austin County Countywide	04	2100CST			0	0	20K	Flash Flood	
Countywhee	04	0420CST			U	U	20K	Flash Flood	
		erous roads close	ed due to higl	h water on ex	tremely satur	ated gro	unds.		
Matagorda County									
Countywide	05	0120CST			0	0	20K	Flash Flood	
	Num	0415CST erous roads close	ad dua ta hial	n water on av	tromoly cotur	atad area	unda		
Brazoria County	INUITIE	crous roads cros	ed due to higi	i water on ex	tremery satur	ated gro	unas.		
Countywide	05	0125CST			0	0	35K	Flash Flood	
		0420CST							
	Nume	erous roads close	ed due to higl	h water on ex	tremely satur	ated gro	unds.		
Chambers County	07	0120.CCT			0	0	A.517		
Countywide	05	0130CST 0420CST			0	0	25K	Flash Flood	
	Nume	erous roads close	ed due to higl	h water on ex	tremely satur	ated gro	unds.		
Galveston County			U		,	U			
Countywide	05	0130CST			0	0	55K	Flash Flood	
		0420CST erous roads close							
TEXAS, Mid - South	NON	E REPORTED.							
Calhoun County									
Central Portion	04	0223CST 0323CST			0	0		Flash Flood	
Calhoun County		0525051							
North Portion	04	1119CST			0	0		Flash Flood	
		1219CST							
<u>TEXAS, North</u>									
Leon County		1055000			0	0		и р.	
Leona	04	1055CST 1155CST			0	0		Heavy Rain	
	The e	ast bound feede	r road on Inte	erstate 45 was	s flooded at th	ie 154 m	ile marker.		
<b>Robertson County</b>									
Countywide	04	1620CST			0	0	5K	Flash Flood	
		1720CST							
Milom County	Nume	erous county roa	ds flooded.	FM 50 from V	Watts Lane in	to Brazo	s county was flooded.		
Milam County Thorndale	04	1625CST			0	0		Heavy Rain	
Infinanc	01	1725CST			Ū	Ū		ficuty fulli	
	FM 4	86 5 miles south	n of Thorndal	e was flooded	d, and FM 90	8 was flo	ooded near Thorndale.		
Leon County									
Centerville	04	2030CST			0	0		Flash Flood	
	Inters	2130CST tate 45 southbo	und between	Centerville	and Old San	Antonio	Road was closed in ty	wo places due to hig	h water Roads near
		y Creek and Spr					risus mus crosed in t	praces due to mg	
<b>Robertson County</b>	00.		U		<b>U</b>				
Countywide	04	2042CST			0	0		Flash Flood	
	Wate	2142CST	d Uighman 2	21					
	w ater	r over FM 50 an	u rignway 2	51.					

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		November 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	0	ops Character of S	torm
<b>FEXAS, North Pan</b> ł	nandle								
Potter County									
Amarillo Pandall County	11	1455CST			0	0		Hail (0.88)	
Randall County Umbarger	11	1515CST			0	0		Hail (0.75)	
Chibarger			developed o	ver the south	-central section		Texas panhandl	. ,	n hours producing hail.
<u>FEXAS, Northeast</u> Angelina County									
2 SE Lufkin	04 05	2245CST 0250CST			0	0		Flash Flood	
		flooding closed	FM 841 to 1	raffic in both	directions.				
Angelina County	1 1001	nooung erosed	1.1.1 0 11 10	iunie m com	anoononon				
5 S Lufkin	04	2245CST			0	0		Flash Flood	
	05 Electr	0300CST	EM 226 +- +-		1				
Angelina County	Flash	flooding closed	FM 326 to ti	raffic in both	directions.				
5 W Lufkin	04	2245CST			0	0		Flash Flood	
	05	0145CST							
	Flash	flooding occurr	ed across FM	2497 which	closed the ro	adway to	all travel.		
Angelina County 2 S Lufkin	05	0005CST			0	0		Flash Flasd	
2 S Luikin	05	0005CST 0650CST			0	0		Flash Flood	
	Flash		FM 324 to the	affic in both	directions. N	fany othe	r roads were also	closed throughout t	he area.
EXAS, South									
Willacy County									
San Perlita	02 09	0700CST 0700CST			0	0		Flood	
			off produced	flash floodin	g and pondir	ng of wate	er in San Perlita	. The flooding affe	cted farmlands, homes a
	roads.		1			0		U	,
Cameron County					0	0			
Brownsville	02	0800CST 1600CST			0	0		Urban/Sml :	Stream Fld
	Heavy		all caused sor	ne small strea	ums or resaca	s in Brow	nsville to overflo	ow their banks.	
Cameron County									
Southeast Portion	02	1015CST			0	0		Flash Flood	
	Torre	1800CST ntial rains and s	aturated soil	conditions n	roduced flast	flooding	over much of s	outheast Cameron co	ounty. The rains produce
									and roads was reported
	Lagur	na Vista and Lag	guna Heights.				-		
Cameron County									
San Benito	04 09	0945CST 0945CST			0	0		Flood	
			rated soil cor	nditions led to	severe floo	ding of th	e Green Valley	Acres housing area i	n San Benito. Homes a
									persisted over the area f
		al days after the	initial flash f	looding.					
<u>FEXAS, South Cent</u> TXZ225									
1 AL12	Lava 04	0457CST			0	0		Flood	
	06	1600CST			Ū	Ū		11004	
	The N	Vavidad River at	Sublime cre	sted at 31.27	feet at 16000	CST on No	ovember 5, wher	e flood stage is 24.0	feet.
Hays County		1045000			0	0	0		
Countywide	04	1245CST 2000CST			0	0	0	0 Flash Flood	
	Gener		ll with isola	ted totals to 2	2.5 inches pr	oduced fl	ash flooding fro	m early afternoon in	to the evening hours. I
		ge was indicated			1		e	-	U U
Lee County	~ *	10000-			^	~	0	• • • • • · •	
Countywide	04	1300CST 2100CST			0	0	0	0 Flash Flood	
		2100031							
	Gener	ral 1 to 2 inch r	ainfall with	isolated total	to 3.5 inche	s near Di	ime Box produce	ed flash flooding fro	m early afternoon into t

		Time	Path	Path		ber of	Estim		November 20
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dam Property	age Crops	Character of Storm
<b>TEXAS, South Cent</b>	ral								
Guadalupe County	ai								
Countywide	04	1315CST			0	0	10K	0	Flash Flood
		2200CST ral 1 inch rainfal rening hours. Or						ry produc	ced flash flooding from early afternoon in
Travis County		C		C	-	1			
Countywide	04	1315CST 2000CST			0	0	10K	0	Flash Flood
						stin-Berg	strom Airpor	rt produce	ed flash flooding through the mid afterno
Bastrop County	into e	arry evening. Co	Junty Toaus I	liau minor uan	lage.				
Countywide	04	1400CST 2230CST			0	0	0	0	Flash Flood
							gin and Smi	thville pro	oduced flash flooding from early afterno
Caldwell County									
Countywide	04	1400CST 2100CST			0	0	10K	0	Flash Flood
		al 1 inch rainfal					Box produc	ed flash	flooding from early afternoon into the l
Fayette County	evenin	ng nours. winter	damage wa	s reported to e	ounty roud.				
Countywide	04	1430CST 2330CST			0	0	15K	0	Flash Flood
		al 1 to 2 inch rai							es at Flatonia produced flash flooding fro
Comal County	early	afternoon throug	n the late ev	ening nours.	sporty dam	age was re	eported to ar	ea roads a	and bridges.
Countywide	04	1530CST			0	0	0	0	Flash Flood
		2000CST al 1 inch rainfa icant damage wa		ated totals to	3 inches p	roduced f	lash floodin	g from n	nid afternoon into the evening hours.
Gonzales County	8								
Countywide	04	1530CST 2330CST			0	0	15K	0	Flash Flood
		al 1 to 2 inch ra					ween Gonza	ales and I	Flatonia produced flash flooding from n
Wilson County	artern	oon through late	evening. N	inor damage	occurred to	roads.			
Countywide	04	1530CST			0	0	0	0	Flash Flood
						s north of	Stockdale p	roduced f	flash flooding from early afternoon into
	evenii	ng hours. No sig	gnificant dan	nage was indic	cated.				
Williamson County Countywide	04	1600CST			0	0	0	0	Flash Flood
	Gener	<b>1900CST</b> al 1 inch rainfal	l with isolate	ed totals to ne	ar 3 inches	between T	aylor and E	lgin produ	uced flash flooding from late afternoon in
	the ea	rly evening hour	s. No signi	ficant damage	was indicat	ed.			
De Witt County	0.4	1020/057			0	0	1072	0	
Countywide	04	1930CST 2330CST			0	0	10K	0	Flash Flood
		al 1 inch rainfal damage to area			inches we	st of Yoal	kum produce	ed flash f	flooding from evening until near midnig
Lavaca County		-		-					
Countywide	04	1930CST 2330CST			0	0	10K	0	Flash Flood
	Gener		l with isolat	ed totals to 3	inches betw	veen Halle	ettsville and	Flatonia j	produced flash flooding from evening u
		nidnight. Only 1							-
									a area of widespread cold rain and show
									24 hours were not excessive, the maximu produced far more severe than usual fla
									n to fill creeks and streams and begin fla

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flooding over low water crossings. The rain area was concentrated from Georgetown to Lexington to LaGrange and Hallettsville to Floresville, New Braunfels, San Marcos, Austin and back to Georgetown. General rain amounts were near 1 inch with widespread 2 inch totals and isolated maxima near 4 inches. Flash flooding developed in the afternoon and had generally ended by evening.

		Time	Path Longth	Path Width	Numb		Estima		Nove	ember 2002			
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	ge Crops	Character of Storm				
TEXAS, South Cent	ral												
TXZ208		lwell											
	04	1801CST			0	0			Flood				
	06	0025CST											
TV7777			er at Luling c	rested at 31.1	0 feet at 0445	SCST on	November 5,	where fl	ood stage is 20.0 feet.				
TXZ223	Gon 04	zales 1940CST			0	0			Flood				
	04	1711CST			U	U			Flood				
			at Gonzales	crested at 41.	93 feet at 00.	30CST of	n November	5, where	flood stage is 31.0 feet.				
TXZ222	Kar	nes											
	04	2148CST			0	0			Flood				
	06 Cibal	1701CST lo Creek at Falls	City graded	at 24.00 faat	of 0220CST	on Nover	nhar 6 whar	flood at	ago is 17 foot				
TXZ225	Lava		City crested	at 24.00 feet	at 0250CS1	JII NOVEI	nder 0, where	: noou si	age 18 17 leet.				
1 201225	04	2157CST			0	0			Flood				
	09	0545CST			-	-							
	The I	Navidad River at	t Strane Park	crested at 28.	14 feet at 07	OCST of	n November	7, where	flood stage is 24.0 feet.				
Bastrop County													
5 SW Bastrop	05	0515CST 0600CST			1	0	0	0	Flash Flood				
	A Ba		as swent awa	v in her car a	is she attemn	ted to dri	ive through th	ne Cedar	Creek crossing at Lower Re	d Rock Road			
									d driven into deep water and				
	begin	nning to flood. S	he was rescu	ed by emerge	ency personne	el but die	d shortly after	rward at	the Smithville hospital.				
	F52V												
TXZ209	Faye				0								
	05 06	0602CST 1815CST			0	0			Flood				
		06 1815CST The Colorado River at LaGrange crested at 31.02 feet at 1800CST on November 5, where flood stage is 26.0 feet.											
TXZ225	Lava		U						U				
	05	0636CST			0	0			Flood				
	07	0600CST						~ .					
TXZ223		Navidad River at	Speaks crest	ted at 30 feet	at 0600CST	on Nover	nber 6, where	e flood st	age is 24 feet.				
1 AL225	Gon 05	zales 0705CST			0	0			Flood				
	10	0609CST			U	U			Floou				
	The C	Guadalupe River	at Cuero cre	sted at 36.85	feet at 12000	CST on N	lovember 7, v	where flo	od stage is 20.0 feet.				
TXZ224	De V	Witt											
	05	1110CST			0	0			Flood				
	07 Sand	2224CST		-+ 25 64 6+	-+ 0/20/08/7	N			tage is 21.0 feet.				
TXZ225	Lava		smon crested	at 23.04 feet	at 0050CS1	on nove	inder 6, when	e nood s	lage is 21.0 leet.				
1 AL1223	05	1200CST			0	0			Flood				
	07	1200CST			Ū	Ū			11000				
	The I	Navidad River at	Morales cre	sted at 34 fee	t at 1230CST	on Nove	ember 6, whe	re flood s	tage is 29 feet.				
Comal County													
Bulverde to	26	0235CST			0	0	0	0	Hail (1.75)				
3 NE Bulverde Travis County		0250CST											
Lake Travis	26	0345CST			0	0	0	0	Hail (1.00)				
Lunc IIuvis	-0	0350CST			Ū	Ū	Ū	Ū	11un (1100)				
Williamson County													
Leander	26	0445CST			0	0	0	0	Hail (1.00)				
TEVAC Candle Dame	andla	0455CST											
TEXAS, South Panl	<u>nandle</u>												
	NON	E REPORTED.											
TEXAS, Southeast													
Jefferson County													
Beaumont	03	1110CST			0	0	1M		Flash Flood				
		1300CST											
	Orren	400 homeo	flooded een	oog Iofforgon	Country At 1	1 200	- £ 41 1	1	least 6 inches of water. This	.1 7			

Over 400 homes were flooded across Jefferson County. At least 200 of these homes had at least 6 inches of water. This was the result

<b>3</b> Nearly 2		Path Length (Miles)	Path Width (Yards) Dur hours on t			Estima Dama Property		Character of Storm	November 2002
<b>3</b> Nearly 2	<b>1200CST</b> <b>1300CST</b> 200 homes in V	ı less than f	our hours on t	on of already s				character of biofili	
<b>3</b> Nearly 2	<b>1200CST</b> <b>1300CST</b> 200 homes in V	1 less than f	our hours on t	on of already s					
esulted	in widoonrood	/idor and O	range had floo	0	0	500K	ounds and	Flash Flood	in less than five hours
	iii widespiead	flooding.	-			Ĩ			
NONE I	REPORTED.								
Southe La Sa	east Utah - E al & Abajo N			nds / Natura	al Brid		avaput		d Flat And Arches
0 An activ nowpac 2002 Ste	2359MST we weather reg ck remained in form Data publi	sufficient for a	or improveme	naintained nea ent, and extrem of this drought	r norma le droug chronic	ht condition le for easter	s persiste n Utah.	ation across the are	
8 0 A moist	0500MST 1600MST t westerly flow	v brought o	ne disturbanc	0 ee after anothe	0 r across	eastern Ut	ah resulti		
ccumul E <b>aster</b> 4 5	lating snow gen n Uinta Mou 1200MST 1200MST	nerally abov Intains - I	e 8000 feet. M a Sal & Ab	Most snowfall a pajo Mountai 0	amounts ins 0	were estima	ited using	SNOTEL data. Heavy Snow	
Snowfal vere 22 Easter 4 5 A Pacifi	Il amounts rang inches at the C n Uinta Mou 1800MST 0600MST ic storm system	ged from 10 Camp Jackso Intains	) to 22 inches on SNOTEL a with cold air	s in the La Sal and 12 inches a 0 from the north	, Abajo t the Ki <b>0</b> 1 to proc	, and eastern ngs Cabin Si luce heavy s	n Uinta N NOTEL. now acro	Iountains. The heav Heavy Snow	iest reported amounts
lata ind <b>al</b>	icated amounts	ranged from	n 6 inches at	Trout Creek to	12 inch	ies at Kings	Cabin.		
South	Of 180	1 Valleys/l	Huntsville/F	-					asatch Mountains
1 A juicy nountai	<b>1200MST</b> winter-like stor ns. Some of th	e storm tota	als included 3	Utah, bringing 5 inches on Be	mainly en Lome	wind and rai ond Peak, 30	n to the v ) inches a	alleys, with heavy, with heavy, with Alta, 28 inches at	Tony Grove Lake, 25
				<b>0</b> 65 mph (56 kts	0 s) at the	0 Saint Georg	0 e Airport		Wind (G56) <sup>M</sup>
5	1930MST 2230MST			0	0 est Utab	10K	0 nor dam:		
ts) dan Cent	naged shingles	on some ho	mes in Pintur	a.		-	Liet dunie		
6	0300EST 0900EST			0	0	6K		Light Snow	
	ONE I outhe La Sa I ) n activitowypac 002 Sto aster 3 ) mowfal countai eccumui aster 4 5 n n uppy nowfal ere 22 aster 4 5 Pacifi ata ind <u>1</u> Vasato 001 i juicy i ountai cces in juicy i sever (tah'S 5 trong 1 Store (tah'S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	La Sal & Abajo M 1 0000MST 2 359MST n active weather reg nowpack remained in 2 2 50rm Data publi astern Uinta Mou 3 0500MST 0 1600MST moist westerly flow nowfall amounts ram- for astern Uinta Mou 4 1200MST n upper level disturt nowfall amounts ram- ere 22 inches at the C astern Uinta Mou 4 1200MST n upper level disturt nowfall amounts ram- ere 22 inches at the C astern Uinta Mou 4 1800MST 5 0600MST Pacific storm system ata indicated amounts 1 Vasatch Mountair outh Of I80 9 1200MST 1 1200MST 1 1200MST 1 1200MST 1 2200MST 1 2200MST 1 2200MST 1 2200MST 5 0600MST 5 0600MST 1 2200MST 1 1200MST 1 2200MST 1 2200MST 1 2200MST 1 2200MST 1 2200MST 1 2200MST 1 2200MST 1 2200MST 1 2230MST trong northeast gap v (s) damaged shingles Central 0 300EST 0 300EST	ONE REPORTED. outheast Utah - Eastern Uit La Sal & Abajo Mountains 1 0000MST 2 3359MST n active weather regime early in nowpack remained insufficient fo 2 2 storm Data publication for a astern Uinta Mountains - T 8 0500MST 1 1600MST moist westerly flow brought o nowfall amounts ranged from 7 fountains, and 8 to 10 inches a ccumulating snow generally abov astern Uinta Mountains - L 4 1200MST n upper level disturbance moved nowfall amounts ranged from 10 ere 22 inches at the Camp Jackso astern Uinta Mountains 4 1800MST 5 0600MST Pacific storm system combined ta indicated amounts ranged from 1 Wasatch Mountain Valleys/I outh Of I80 9 1200MST 1 juicy winter-like storm moved in iountains. Some of the storm tota ches in Farmington Canyon, 24 i 9 1435MST severe thunderstorm produced a itah'S Dixie And Zion Natio 5 1930MST 2230MST trong northeast gap winds blew for s) damaged shingles on some ho <u>Central</u> Pricans - Essex - Lamoille - 4 6 0300EST	ONE REPORTED. outheast Utah - Eastern Uinta Mounta La Sal & Abajo Mountains - Canyonla 1 0000MST 2 2359MST n active weather regime early in November r nowpack remained insufficient for improveme 202 Storm Data publication for a continuation astern Uinta Mountains - Tavaputs Pla 8 0500MST 2 1600MST moist westerly flow brought one disturband nowfall amounts ranged from 7 to 20 inche fountains, and 8 to 10 inches across the Ta- accumulating snow generally above 8000 feet. N astern Uinta Mountains - La Sal & Ab 4 1200MST 5 1200MST n upper level disturbance moved across the a nowfall amounts ranged from 10 to 22 inches ere 22 inches at the Camp Jackson SNOTEL a astern Uinta Mountains 4 1800MST 5 0600MST Pacific storm system combined with cold air ta indicated amounts ranged from 6 inches at 1 Wasatch Mountain Valleys/Huntsville/H outh Of I80 9 1200MST 1 juicy winter-like storm moved into Northern I iountains. Some of the storm totals included 3 ches in Farmington Canyon, 24 inches at Brig 9 1435MST severe thunderstorm produced a wind gust of 1 tabi SDixie And Zion National Park 5 1930MST 2230MST trong northeast gap winds blew through portices 1 damaged shingles on some homes in Pintur. Central Pricans - Essex - Lamoille - Caledonia - 6 0300EST	ONE REPORTED.         outheast Utah - Eastern Uinta Mountains - Canyonlands / Natur:         1       0000MST       0         2359MST       nactive weather regime early in November maintained neatowpack remained insufficient for improvement, and extrem 002 Storm Data publication for a continuation of this drought astern Uinta Mountains - Tavaputs Plateau - La Si 8       6 0500MST         3       0       1600MST       0         moist westerly flow brought one disturbance after anothe nowfall amounts ranged from 7 to 20 inches in the Abaj fountains, and 8 to 10 inches across the Tavaputs Plateau cumulating snow generally above 8000 feet. Most snowfall a astern Uinta Mountains - La Sal & Abajo Mounta 4       1200MST       0         1       1200MST       0       0       5       1200MST       0         1       1200MST       0       0       5       1200MST       0         1       1200MST       0       0       0       0       0         2       inches at the Camp Jackson SNOTEL and 12 inches a astern Uinta Mountains       0       0       0       0         4       1800MST       0       0       0       0       0       0         2       inches at Trout Creek to 12       12 inches at Trout Creek to 12       0       12 inches on Baches at Brighton, 21 inches on Baches in Farmington Canyon, 24 inches at Brighton	ONE REPORTED.         outheast Utah - Eastern Uinta Mountains - Eastern Uinta La Sal & Abajo Mountains - Canyonlands / Natural Brid 1 0000MST 0 0         1 2359MST         n active weather regime early in November maintained near norma iowpack remained insufficient for improvement, and extreme droug 02 Storm Data publication for a continuation of this drought chronic astern Uinta Mountains - Tavaputs Plateau - La Sal & A 5 0500MST 0 0         moist westerly flow brought one disturbance after another across nowfall amounts ranged from 7 to 20 inches in the Abajo and 1 lountains, and 8 to 10 inches across the Tavaputs Plateau. The ccumulating snow generally above 8000 feet. Most snowfall amounts astern Uinta Mountains - La Sal & Abajo Mountains 4 1200MST 0 0 5 1200MST         n upper level disturbance moved across the area in northwest flow nowfall amounts ranged from 10 to 22 inches in the La Sal, Abajo ere 22 inches at the Camp Jackson SNOTEL and 12 inches at the Kit astern Uinta Mountains 4 1800MST 0 0 5 0600MST         Pacific storm system combined with cold air from the north to proct ta indicated amounts ranged from 6 inches at Trout Creek to 12 inches 4 1200MST 0 0 5 0600MST         Pacific storm system combined with cold air from the north to proct ta indicated amounts ranged from 6 inches at Trout Creek to 12 inches 5 0400MST         0 1200MST       0 0         0 1	ONE REPORTED.         outheast Utah - Eastern Uinta Mountains - Eastern Uinta Basin - T         La Sal & Abajo Mountains - Canyonlands / Natural Bridges         0       0	ONE REPORTED.         outheast Utah - Eastern Uinta Mountains - Eastern Uinta Basin - Tavaput La Sal & Abajo Mountains - Canyonlands / Natural Bridges <ul> <li>0000MST</li> <li>0</li> <li>2359MST</li> <li>na ctive weather regime early in November maintained near normal river basin precipit towpack remained insufficient for improvement, and extreme drought conditions persists 02 Storn Data publication for a continuation of this drought chronicle for eastern Utah.</li> <li>astern Uinta Mountains - Tavaputs Plateau - La Sal &amp; Abajo Mountains</li> <li>30500MST</li> <li>0</li> <li>0</li> <li>0000MST</li> </ul> <li>moist westerly flow brought one disturbance after another across eastern Utah result inowfall amounts ranged from 7 to 20 inches in the Abajo and La Sal Mountains, I fountains, and 8 to 10 inches across the Tavaputs Plateau. The westerly flow kept i ccumulating snow generally above 8000 feet. Most snowfall amounts were estimated using astern Uinta Mountains - La Sal &amp; Abajo Mountains 4 L200MST</li> <li>0</li> <li>0</li> <li>100MST</li> <li>0</li> <li>1200MST</li> <li>0</li> <li>0</li> <li>Partific storm system combined with cold air from the north to produce heavy snow acro ta indicated amounts ranged from 6 inches at Trout Creek to 12 inches at Kings Cabin</li>	ONE REPORTED.         outheast Utah - Eastern Uinta Mountains - Canyonlands / Natural Bridges         1       0000MST       0       Drought         2       2359MST       0       0       Heavy Snow         colors termained insufficient for improvement, and extreme drought conditions persisted across eastern Uta       Descent of this drought chronicle for eastern Utah.         2       Storn Data publication for a continuation of this drought chronicle for eastern Utah.       Descent Utah Sountains.         3       0       0       Heavy Snow         1000MST       0       Heavy Snow         mostil westerly flow brought one disturbance after another across eastern Utah resulting in heavy snow anowfall amounts ranged from 7 to 20 inches in the Abajo Mountains. Ho to 16 inches acros fountains, and 8 to 10 inches across the Tavaputs Plateau. The westerly flow kept relatively warm air cumulating snow generally above 8000 feet. Most snowfall amounts were estimated using SNOTEL data.         astern Uinta Mountains - La Sal & Abajo Mountains       Heavy Snow         4       1200MST       0       Heavy Snow         5       1200MST       0       0       Heavy Snow

		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage	Novem	nber 200
Location	Date	Standard	(Miles)	(Yards)		ins Injured	Property Croj	os Character of Storm	
/ERMONT, North ar	ıd Cer	<u>ntral</u>							
								uth coastal New England Wednesd s of snow fell. In Orange county,	
						•	•	now took down a tree in Randolph.	
VTZ011	Rutla				0	0	4.87		
	06	0300EST 0800EST			0	0	1K	Light Snow	
		-		•		•		th) as a new storm system organize	-
	-		•			-	*	uth coastal New England Wednesd the mountainous southeast portion	•
	and 9	inches locally a			•		9 inches in East	-	
VTZ012	Wind 06	lsor 0500EST			0	0	1K	Winter Storm	
		0800EST							
		-		•		•		th) as a new storm system organize uth coastal New England Wednesd	-
	(Nove	mber 6th). Acro						atest amount reported was 7 1/2 ir	
VTZ002>003-006>012		of Tyson. Izlin Orloon	e Lomoill	o Colodon	ia Washir	aton	Addison Ora	nge - Rutland - Windsor	
120022003-0002012	17	0400EST	s - Lamon		0	0	45K	Winter Storm	
	18	1000EST	tom which o	vtandad alana	the east east	t of the l	US from Cono C	od south to Cape Hatteras spread a	mistura
								17th. Colder air moved in as the st	
								now fell Sunday night into Monda	
				-	•			rous power outages were reported to few power outages. The power out	
		the weight of the	•	snow on tree	limbs and po	wer lines			-
VTZ001-005	Gran 17	d Isle - Chitt 0400EST	enden		0	0	10K	Winter Storm	
	18	1000EST				•	1011	i meer storm	
	A com	plex storm sys						od south to Cape Hatteras spread a 17th. Colder air moved in as the st	
	A com sleet, f reorga	pplex storm sys freezing rain an nized and inter	d light snow nsified near	across much o Cape Cod Su	of Vermont d unday night	uring Su (Novemb	nday, November per 17th). Heavy	17th. Colder air moved in as the stu- snow snow fell Sunday night in	orm systei to Monda
	A com sleet, f reorga mornin	pplex storm sys freezing rain an nized and inter ng (November	d light snow nsified near	across much o Cape Cod Su	of Vermont d unday night	uring Su (Novemb	nday, November per 17th). Heavy	17th. Colder air moved in as the st	orm systei to Monda
VTZ004	A com sleet, f reorga	nplex storm sys freezing rain an nized and inter ng (November 7.	d light snow nsified near	across much o Cape Cod Su	of Vermont d unday night	uring Su (Novemb	nday, November per 17th). Heavy	17th. Colder air moved in as the stu- snow snow fell Sunday night in	orm systei to Monda
VTZ004	A com sleet, f reorga mornin county Essex 17	nplex storm sys freezing rain an nized and inter ng (November 7. <b>0400EST</b>	d light snow nsified near	across much o Cape Cod Su	of Vermont d unday night	uring Su (Novemb	nday, November per 17th). Heavy	17th. Colder air moved in as the stu- snow snow fell Sunday night in	orm systei to Monda
VTZ004	A com sleet, f reorga mornin county Essex 17 18	nplex storm sys freezing rain an nized and inter ng (November 7. 4 0400EST 1000EST	d light snow nsified near 17-18th), wi	across much of Cape Cod Su th accumulation	of Vermont d anday night ons generally 0	uring Sur (Novemb 8 to 12 0	nday, November per 17th). Heavy inches. Numerou 5K	17th. Colder air moved in as the st snow snow fell Sunday night in s power outages were reported in	orm syster to Monda Chittende
VTZ004	A com sleet, f reorga mornin county Essex 17 18 A com sleet, f	nplex storm sys freezing rain an nized and inter ng (November 7. <b>4000EST</b> nplex storm sys freezing rain an	d light snow nsified near 17-18th), wir tem which e: d light snow	across much o Cape Cod Su th accumulation xtended along across much o	of Vermont d anday night ons generally 0 the east coas of Vermont d	uring Sur (Novemb 8 to 12 0 t of the 1 uring Sur	nday, November ber 17th). Heavy inches. Numerou 5K US from Cape Co nday, November	17th. Colder air moved in as the st snow snow fell Sunday night in s power outages were reported in <b>Winter Storm</b> od south to Cape Hatteras spread a 17th. Colder air moved in as the st	orm syster to Monda Chittende mixture o orm syster
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	A corr sleet, f reorga mornin county Essex 17 18 A corr sleet, f reorga 17th) i Franl 23 Low p This sy two th Orlea 23 Low p This s accum 29	applex storm sys freezing rain an nized and inter ng (November 7. 0400EST 1000EST 1000EST applex storm sys freezing rain an nized and inter of and inter of and inter of a0EST 0845EST oressure over we ystem moved the inds of these Ve ans - Lamoille 0630EST 0845EST oressure over we system moved ulations genera oille - Caledo 0800EST 1400EST	d light snow nsified near 17-18th), win tem which e: d light snow nsified near ( orning (Nove nden - Addi estern New Y through Maine ermont count e estern New Y through Ma lly between S nia - Wash	across much o Cape Cod Su th accumulation xtended along across much o Cape Cod Sur ember 18th), w ison York Friday an e Saturday, Not ies between 6 York Friday a uine Saturday. 5 and 9 inches ington	of Vermont d anday night of ons generally 0 the east coase of Vermont d nday night (N ith accumula 0 fternoon (Nov wember 23rd and 8 inches 0 fternoon (Nov , November 0	uring Sur (Novemb 8 to 12 0 t of the 1 uring Sur Jovember Survember 0 vember 2 . Heavy s fell, with 0 vember 2 23rd. H	nday, November ber 17th). Heavy inches. Numerou 5K US from Cape Conday, November r 17th) with peri erally 5 to 7 inch 15K 2nd) consolidates snow fell along an 3 to 5 inches els 10K 2nd) consolidate eavy snow fell 3K	<ul> <li>17th. Colder air moved in as the stands snow snow fell Sunday night in s power outages were reported in</li> <li>Winter Storm</li> <li>bd south to Cape Hatteras spread a 17th. Colder air moved in as the stands of heavy snow Sunday night es.</li> <li>Winter Storm</li> <li>d with a storm off the east coast F ad west of the Green Mountains. In where in these counties.</li> <li>Winter Storm</li> <li>d with a storm off the east coast F across Lamoille and Orleans commands.</li> </ul>	orm syster to Monda Chittende mixture o orm syster (Novembo riday nigh the easter riday nigh unties wit

S	Stor	m Data	a and	Unus	ual W	eat	her Phe	enomena
		Time	Path	Path	Numb		Estimated	November 2002
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Damage Property Croj	ps Character of Storm
VERMONT, South								
VTZ013>014	Benn	ington - Win	dham					
	17	0000EST			0	0	30K	Winter Storm
	A stro	0900EST	eveloped off	Cane Hatteras	s on Novemb	er 16 T	ne low pressure ce	enter then slowly moved north along the coast
VIRGIN ISLANDS	reachi cold e Initial overho surfac them, York end to	ng Cape Cod by enough to produ ly the precipitat ead, the precipi res. The combin resulted in man State line. Trav	y late Novem ice a heavy within the formation of the nation of the ny downed the conditions	ber 17. At the wintery mix o arily as snow ed to sleet, th snow, sleet a rees and powers were poor as	e same time, f precipitatio across the cc en freezing r nd ice, wind erlines. There s well. Temp	a shallov n during unty, wi ain. Free s gusting e were n eratures	v layer of arctic air a good portion of th 2-4 inches of ac ezing rain produce g over 30 mph, ar umerous power o finally rose above	the first stowy hoved hour along the coast r bled south from eastern Canada. This air was f the storm across extreme southern Vermont ccumulation reported. As warmer air moved ir ed up to half an inch of ice accretion on mos ad the fact that some trees still had leaves or utages, especially from Arlington to the New freezing later on Sunday morning, putting ar the back side of the storm late on Sunday into
VIRGINISLANDS								
	NON	E REPORTED.						
VIRGINIA, East								
Fluvanna County Troy	11	0555EST			0	0	2K	Thunderstorm Wind
1109		and power lines	s down.		Ū	Ū		
Louisa County		0.000			0			
Countywide	11 Trees	0600EST down.			0	0	2K	Thunderstorm Wind
Hanover County	11005	down.						
Beaver Dam	11	0700EST			0	0	2K	Thunderstorm Wind
Caroline County	Trees	down.						
Countywide	11	0705EST			0	0	2K	Thunderstorm Wind (G50)
-	Trees	down.						
Chesapeake (C) Chesapeake	11	1323EST			0	0	2K	Thunderstorm Wind
Chesapeake			end of city. L	arge tree (100	0			it and Lake Drummond Causeway.
VIRGINIA, Extreme				U V				, i i i i i i i i i i i i i i i i i i i
Lee County	10				0	0		
Pennington Gap	10 Golf F	2205EST ball size hail was	s reported at	Pennington G	0 an	0		Hail (1.75)
Scott County	Gon t		s reported at	r chinington G	up.			
Duffield	10	2245EST			0	0	10K	Thunderstorm Wind
Norton (C)	Trees	were reported d	lown around	Duffield.				
Norton	10	2248EST			0	0	15K	Thunderstorm Wind
	Severa	al trees were do	wned in and	around the Ci	ty of Norton.			
Lee County Robbins Chapel	10	2255EST			0	0		Hail (0.75)
Kobbins Chaper		size hail was re	ported at Rol	bbins Chapel.	U	U		Han (0.75)
Wise County			1	1				
Banner	10 Dima	2255EST	nonted at Da		0	0		Hail (0.75)
Lee County	Dime	size hail was re	ропеа аг Ба	inner.				
Robbins Chapel	10	2305EST			0	0		Hail (1.75)
Las Countri	Golf b	oall size hail was	s reported at	Robbins Chap	oel.			
Lee County Dryden	10	2310EST			0	0	15K	Thunderstorm Wind
		fell on a truck	in Dryden.		v	5		
Washington County					~	~		
Oak Grove	10 A tree	2321EST was reported d	own on Reed	lv Creek Road	0 I north of Bri	0 stol	2K	Thunderstorm Wind
Russell County	A ucc	mas reported u	own on Reel	., CICK KUdu	norm of DII			
Countywide	10	2330EST			0	0	15K	Thunderstorm Wind
	Sever	al trees were rer	ported down	across the cou	ntv			

Several trees were reported down across the county.

		Time Local/	Path Length	Path Width		ber of sons	Estima Dama		November 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
VIRGINIA, Extreme S	South	west							
Wise County									
Wise	10	2332EST			0	0	10K		Thunderstorm Wind
	A few	v trees were repo	orted down in	n southern Wi	se County.				
Scott County									
Ft Blackmore	10	2335EST			0	0			Hail (1.75)
	Golfb	all size hail fell	at Fort Black	more.					
Norton (C)									
Norton	10	2335EST			0	0	10K		Thunderstorm Wind
L Cometer	A few	v trees were repo	orted down in	n Norton.					
Lee County	10	2245EGE			0	0	1 717		
Countywide	10 Savar	2345EST	outed down	anneas tha ann	0	0	15K		Thunderstorm Wind
<b>Russell County</b>	Sever	al trees were rep	borted down	across the cou	inty.				
2.5 NW Banners Corner	10	2353EST			0	0			Hail (0.75)
2.5 IVV Danners Corner		size hail was re	norted 2.5 m	iles northwest					Hall (0.75)
Wise County	Dime	Size half was re	ported 2.5 m	nes northwes	t of Dufficis	comer.			
Countywide	11	0015EST			0	0	15K		Thunderstorm Wind
County white		al trees were rep	orted down	across the cou		Ū			
Scott County									
Countywide	11	0030EST			0	0	20K		Thunderstorm Wind
-	Nume	erous trees and p	ower lines w	vere reported of	lown across	the count	y.		
Washington County							-		
Countywide	11	0030EST			0	0	15K		Thunderstorm Wind
	A few	v trees were repo	orted down ad	cross the coun	ty.				
Lee County									
Dryden	11	0030EST			0	0	5K		Thunderstorm Wind
	A few	v trees and limbs	s were report	ed down in th	e Dryden ar	ea.			
VIRGINIA, North									
Culpeper County									
4 SW Culpeper	11	0515EST			0	0	0.50K		Thunderstorm Wind
	A tree	e was downed or	nto Route 29	near the Mad	ison County	border.			
Alexandria (C)		0400507			0	0	0 5017		
Alexandria	11	0600EST		D 1	0	0	0.50K		Thunderstorm Wind
Anlington County	A tree	e was downed or	nto Seminary	Road.					
Arlington County Arlington	11	0600EST			0	0	3K		Thunderstorm Wind
Armigion		r lines were dow	med		U	U	л		Thuhueistorini winu
King George County	TOWC	i intes were dow	incu.						
King George	11	0900EST			0	0	2K		Thunderstorm Wind
ing course		were downed or	nto power lir	nes.	Ŭ	Ū			
	Thund onto I interse Georg	derstorms with h Route 29 about 4	nigh wind mo 4 miles south d and Nottin	oved through west of Culpe gham in the	eper. In Arl	ington Co igton. In	unty, power l Alexandria,	lines wer	n. In Culpeper County, a tree was downed e downed onto Dinwiddie Street and at the as downed onto Seminary Road. In King
VIRGINIA, Northwest	<u>t</u>								
	NON	E REPORTED.							
VIRGINIA, Southwest	<u>t</u>								
VAZ015	Gray	yson							
					-				

VAL015	Gray	son					
	06	1400EST		0	0	0	High Wind
		1930EST					
	High	winds downed trees du	uring the afternoon and ea	rly eve	ning of the	e 6th across G	rayson County.
Tazewell County							
Springville	11	0047EST		0	0		Hail (1.75)
<b>Tazewell County</b>							
Tazewell	11	0100EST		0	0		Hail (0.75)
Bedford County							
Major	11	0135EST		0	0		Hail (0.75)
				-	-		(*****)

### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated November 2002 Local/ Width Length Damage Persons Crops Location Date Standard (Miles) (Yards) Killed Injured Property Character of Storm VIRGINIA, Southwest Wythe County Speedwell 11 0245EST 0 0 0 **Thunderstorm Wind** Roanoke (C) 0345EST Hail (0.88) Roanoke 11 0 0 Bedford (C) Bedford 0405EST **Thunderstorm Wind** 11 0 5K **Bedford County** Stewartsville 11 0410EST 0 0 **Thunderstorm Wind** Bedford (C) 1 E Bedford 0412EST 10K Thunderstorm Wind 11 0 0 **Campbell County** 2 NE Rustburg 0712EST 0 0 **Thunderstorm Wind** 11 0 Thunderstorms during the morning of the 11th produced damaging winds and hail up to golf ball size. Thunderstorm winds downed trees in Speedwell, Stewartsville, and 2 miles northeast of Rustburg, downed large trees and blew over a mobile home in Bedford, and downed trees damaging a home 1 mile east of Bedford. VAZ015-034>035-Grayson - Bedford - Amherst - Campbell - Appomattox 045>046 30 2000EST 0 0 0 **High Wind** 2300EST High winds during the evening of the 30th downed trees and some power lines across Grayson, Bedford, Amherst, and Appomattox counties. WASHINGTON, Northeast WAZ037>038 Northeast Mountains - Okanogan Highlands 0000PST 08 Heavy Snow 0 0 2359PST The first heavy snow of the winter finally fell on the mountains of northeast Washington on November 8. Snows were generally confined to elevations above 4000 feet. Snowfall totals include: Bunchgrass Meadows SNOTEL...20", Quartz Peak SNOTEL...14", and the Moses Mountain SNOTEL ... 5". **WAZ038 Okanogan Highlands** 0000PST 0 18 0 Heavy Snow 2359PST Heavy snow fell on the mountains of northeast Washington, generally above 4000 feet, on November 18. The Bunchgrass Meadows SNOTEL received 12" of new snow. WASHINGTON, Northwest **Grays Harbor County** Westport 08 0300PST 5K Storm Surge A 0 0800PST Coastal flooding damaged a restaurant and spilled debris over a few roads. WASHINGTON, Southeast WAZ024>030 East Columbia River Gorge - East Slopes Southern Cascades - Kittitas Valley - Yakima Valley - Lower Columbia Basin - Blue Mountain Foothills - Northwest Blue Mountains 0000PST 65.0M Extreme Cold 01 0 04 2359PST An arctic front moved through the state on October 29th, bringing much colder temperatures into the first four days of November. Some of the colder readings in degrees Fahrenheit included 4 at Yakima, 6 at Goldendale and Selah, 8 at Whitman Mission, 9 at Easton, and 13 at Wapato. The Yakima Valley was hit hard by the freeze with an estimated 3.9 million boxes of apples lost. Some of the harder hit varieties included Pink Ladies, Fujis, Braeburn, and Granny Smith. Around \$50,000 damage was also done to apples in Klickitat county. **WAZ028** Lower Columbia Basin 16 1645PST 0 0 Dust Storm Strong winds created areas of blowing dust along highway 224, reducing visibilities to one quarter mile. WASHINGTON, Southwest **WAZ021** South Coast 0500PST 0 0 High Wind (G52) M 12 0800PST Cape Disappointment reported gusts to 60 mph as a strong Pacific cold front moved across the area. **WAZ021** South Coast 0900PST 0 High Wind (G46) M 15 0 16 2100PST

	Stor	m Data	a and	Unus	ual V	Veat	her Phe	nomena
		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	November 20
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
WASHINGTON, So	outhwest	t						
··· ·· · · · · · · · · · · · · · · · ·	Cape	Disappointmen		stained wind	s of 52 mph	and Ilwa	co gusts to 53 mpl	h as a Pacific storm moved north along
WEST VIRGINIA,		Washington Co	oast.					
WVZ048>049		nt - Mineral						
	30	2000EST 2359EST			0	0		Winter Weather
	Lakes PM of occurr and 1	was blown int n the 30th thro ring in higher e	o the region. ugh 8 AM o elevations in y. Winds gu	The winds on the 1st of I the western p	deposited the December. A portion of the	e moisture A total of counties.	in the form of sno 1 to 6 inches of sn Reports included	to the northwest and moisture from the Grow in the Appalachian Mountains betwee now accumulated, with the highest amou 6.0 inches in Bayard, 2.3 inches in Keys to blow around and dropped wind chills i
WEST VIRGINIA,	North							
Ohio County								
Wheeling Arpt	<b>10</b> 59 mp	2152EST oh wind gust.			0	0		Thunderstorm Wind (G51) <sup>M</sup>
Brooke County	10	2200EGT			0	0	<b>-1</b> 7	
Countywide	10 Trees	2200EST downed by win	d		0	0	5K	Thunderstorm Wind
Hancock County	fices	downed by win	iu.					
New Cumberland	10	2200EST			0	0	2K	Thunderstorm Wind
	A few	trees blown do	wn by wind.					
WVZ023-041	Prest 23	ton - Tucker 0300EST			0	0		Heavy Snow
WVZ041	Snow 23rd. <b>Tuck</b>		ernoon of the	22nd, accum	nulating 8 ind	ches in Te	erra Alta and 6 incl	hes in Canaan Valley by the morning of
	27	0300EST 0900EST			0	0		Heavy Snow
WVZ023-041		ches of snow fe	ll in Tucker	county, espec	ially on ridge	tops.		
VV V ZUZ3-U41	30	ton - Tucker 1600EST 2359EST			0	0		Heavy Snow
	12; Te	erra Alta 8; Kin				to flurries	s before dawn Dec	1. Canaan Valley reported 14 inches; Aur
WEST VIRGINIA,								
WVZ043-045	Sumi 19	mers - Green 0600EST 0900EST	brier		0	0	0	Freezing Rain
	A thin		zing rain cov	vered many ro	ads across G	reenbrier	and Summers coun	ties with numerous accidents reported.
WEST VIRGINIA,		6	0					, i i i i i i i i i i i i i i i i i i i
Wayne County								
East Lynn	10	2015EST			0	0	1K	Thunderstorm Wind
Linesh Countr	Severa	al trees were blo	own down.					
Lincoln County Branchland	10 Trees	2044EST and power line	s were knock	red down	0	0	3К	Thunderstorm Wind
Kanawha County	11003	and power mie	s were knock	eu uown.				
Dunbar	10 Power	2106EST r lines were sna	pped by falle	en trees.	0	0	2K	Thunderstorm Wind
Mason County			-					
Point Pleasant	<b>10</b>	2118EST			0	0	1K	Thunderstorm Wind
Mason County	Severa	al trees were blo	own down.					
Gallipolis Ferry	10 Severa	2220EST al trees were blo	own down.		0	0	1K	Thunderstorm Wind

		Time Local/	Path Length	Path Width	Numb Perso		Estim		November	200
Location	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Dam Property	Crops	Character of Storm	
VEST VIRGINIA,	West									
Jackson County										
Ravenswood	Route a mobile about a listed a	2 and one single home. Luckily 10 minutes prio	e family dwo y, there were r to the inci the state.	elling on Route no casualties dent. Several The American	e 56 were als or serious in other mobil Red Cross	so damag ijuries. 7 e homes provided	ged. One mo The woman were shove	obile home and her ch d off their	Thunderstorm Wind ome parks on Route 2. One apartme was completely flipped over onto a ildren had evacuated the overturned foundations. Eleven mobile homes bout 16 families were relocated to a	nothe traile s wer
Putnam County										
Winfield	10	2300EST			0	0	1K		Thunderstorm Wind	
	Large t	tree branches we	ere snapped	off.						
Wood County										
Rockport	10	2300EST			0	0	1K		Thunderstorm Wind	
	Numer	ous trees or larg	ge branches	were blown do	own.					
Wayne County	10	2210505			0	0	<b>A</b> 17			
Dunlow	10 Doutor	2310EST lines were knoc	kad down b	v fallon traas	0	0	2K		Thunderstorm Wind	
Wayne County	Fower	lilles were knoc	keu uowii u	y fallell trees.						
Lavalette	10	2310EST			0	0	2K		Thunderstorm Wind	
Luvulette		building was bl	own into a r	nobile home, o						
Roane County		e		,	00		0			
5 W Spencer	10	2320EST			0	0	1K		Thunderstorm Wind	
	Trees v	were knocked de	own along R	Route 33.						
Wirt County										
Creston	10	2320EST			0	0	1K		Thunderstorm Wind	
a 11 - a - i	Severa	l trees were blo	wn down.							
Calhoun County	10	2225EGT			0	0	<b>A</b> 17			
Grantsville	10 Trees (	2335EST and one power l	ina wara kn	ookod down	0	0	2K		Thunderstorm Wind	
Lewis County	11005 2	and one power i	ine were kin	Jekeu uowii.						
Weston	11	0015EST			0	0	1K		Thunderstorm Wind	
	This ep strong squall accomp	cold front. Ter line formed ner panied the front	of a large	outbreak of se reached into th al boundary, y	vere weather he 75 to 80 with a few s	r in the ( degree ra torms de	Dhio and Te ange during eveloping ou	the aftern ut ahead o	tiver Valleys. Record warmth prece oon with dew points in the upper 50 f the main line. Strong low level ate until the late evening.	0s. A
WVZ047	Rand	- I.								
	30	1700EST			0	0			Heavy Snow	
	<b>C</b> now	2345EST	f 1 to 6 incl		non with or	much oo	10 in choo in	the vicini	ty of Kumhashovy State Forest The	
		the wake of a st			non, with as	much as	10 menes n	i the vicin	ity of Kumbrabow State Forest. The	SHOV
VISCONSIN, Nort		the wake of a st	iong cold in	ontai passage.						
WIZ050	Mani	towoc								
	26 27	1600CST 0000CST			0	0			Heavy Snow	
	A narr persiste	ow band of lake	nt. Eight in	ches of snow i			-	-	nitowoc county late in the afternoo r snowfall reports in northeast Mani	
WIZ005	Vilas									
	30	0200CST 1200CST			0	0			Winter Storm	
WI7033 030- 040	р	1200CST								
WIZ022-039>040		- Brown - Ke	waunee		Δ	Δ			Strong Wi- J	
	30	0800CST 1400CST			0	0			Strong Wind	
	Snowfa were s	old air, behind all totals in nort	hern Vilas o e morning a	county were as and early after	high as 8 in noon hours.	ches at I The hig	Presque Isle hest recorde	and 7 incl	or caused heavy lake effect snow sho nes at Winchester. Winds behind the ere, 58 mph at Gills Rock (Door co	e fror

	Time Local/	Path Length	Path Width	Numb Perse		Estimated Damage	November 200
Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
est							
Iron							
24	1200CST			0	0		Heavy Snow
		fect snow fel	l at Hurley T	he heaviest s	now fell	early in the evening	
-		icci show ici	i at Huncy. I	ne neaviest s	now ien	carry in the evening.	
29	1700CST			0	0		Heavy Snow
30	1100CST	1.0.10			~		
					County.	Mercer and Hurley re	ceived 10 inches while Upson reported
	The neuviest s	now ren dun	ing the evenin	5.			
	REPORTED.						
est							
NONE							
NONE	KEI OKTED.						
					e - Wir	nd River Mountain	ns West - Salt River & Wyomin
		reen River	Basin Foot		0		Heavy Snow
10	2359MST			Ū	U		incavy bilow
							nounts ranged from 13 to 24 inches in th
				**			
						-	_
	-			-			-
23	0200MST		v	0	2		Heavy Snow
24	1000MST						
		to 18 menes	III the moun	tanis. Aiso, t	vo peopi	le were injured when i	cy conditions caused a vali to side of 1-2
	*	s Southeas	t - Northea	st Johnson	Count	y - Southeast John	son County
25	1100MST			0	0	•	Blizzard
<b>T</b> 1				£		14d (	tions and the first second of T
		-					tions across much of Johnson county. Th
		neur zero m		A section of I		closed for a few hours	dew to drifting snow The Buffalo Airpo
ASOS r	reported a wind	d gust of arou					dew to drifting snow. The Buffalo Airpo ported in the Big Horn mountains.
ASOS r <b>South</b> y		l gust of arou					dew to drifting snow. The Buffalo Airpo ported in the Big Horn mountains.
South	west	l gust of arou					
South NONE		l gust of arou					
South NONE	west REPORTED.	-					
Southy NONE <u>ntral</u> Sherid	west REPORTED. lan Foothills	-		t 131 pm and	a wind §		ported in the Big Horn mountains.
Southy NONE I ntral Sherid 23	<u>west</u> REPORTED. lan Foothills 1500MST						
South NONE I ntral Sherid 23 7 inches	west REPORTED. lan Foothills	in Sheridan		t 131 pm and	a wind §		ported in the Big Horn mountains.
South NONE I ntral Sherid 23 7 inches	west REPORTED. lan Foothills 1500MST s of new snow	in Sheridan		t 131 pm and	a wind §		ported in the Big Horn mountains.
South NONE I ntral Sherid 23 7 inches Sherid 23 5 inches	west REPORTED. lan Foothills 1500MST s of new snow lan Foothills 1540MST s of new snow	in Sheridan 10 miles sou	ind 60 mph a	t 131 pm and 0 0	a wind §		ported in the Big Horn mountains.
Southy NONE : ntral Sherid 23 7 inches Sherid 23 5 inches Northe	west REPORTED. lan Foothills 1500MST s of new snow lan Foothills 1540MST s of new snow east Bighorr	in Sheridan 10 miles sou	ind 60 mph a	t 131 pm and 0 n	a wind § 0 0		ported in the Big Horn mountains. Heavy Snow Heavy Snow
Southy NONE : ntral Sherid 23 7 inches Sherid 23 5 inches Northe 24	west REPORTED. lan Foothills 1500MST s of new snow lan Foothills 1540MST s of new snow east Bighorr 0956MST	in Sheridan 10 miles sou <b>Mountain</b>	ind 60 mph a th of Sherida <b>is</b>	t 131 pm and 0 0	a wind §		ported in the Big Horn mountains.
South NONE 1 ntral Sherid 23 7 inches Sherid 23 5 inches Northe 24 15 inches	west REPORTED. lan Foothills 1500MST s of new snow lan Foothills 1540MST s of new snow east Bighorr	in Sheridan 10 miles sou <b>1 Mountain</b> v in Burgess	ind 60 mph a th of Sherida <b>is</b>	t 131 pm and 0 n	a wind § 0 0		ported in the Big Horn mountains. Heavy Snow Heavy Snow
South NONE 1 ntral Sherid 23 7 inches Sherid 23 5 inches Northe 24 15 inches	west REPORTED. lan Foothills 1500MST s of new snow lan Foothills 1540MST s of new snow east Bighorr 0956MST es of new snow	in Sheridan 10 miles sou <b>1 Mountain</b> v in Burgess	ind 60 mph a th of Sherida <b>is</b>	t 131 pm and 0 n	a wind § 0 0		ported in the Big Horn mountains. Heavy Snow Heavy Snow
Southy NONE : ntral Sherid 23 7 inches Sherid 23 5 inches Northe 24 15 inche Sherid 24	west REPORTED. lan Foothills 1500MST s of new snow lan Foothills 1540MST s of new snow east Bighorr 0956MST es of new snow lan Foothills	in Sheridan 10 miles sou <b>1 Mountain</b> v in Burgess	ind 60 mph a th of Sherida <b>is</b>	0 0 n 0	a wind § 0 0		ported in the Big Horn mountains. Heavy Snow Heavy Snow Heavy Snow
Southy NONE : ntral Sherid 23 7 inches Sherid 23 5 inches Northe 24 15 inche Sherid 24 11 inche	west REPORTED. lan Foothills 1500MST s of new snow lan Foothills 1540MST s of new snow east Bighorr 0956MST es of new snow lan Foothills 0956MST	in Sheridan 10 miles sou <b>1 Mountain</b> v in Burgess v in Dayton	ind 60 mph a th of Sherida <b>is</b>	0 0 n 0	a wind § 0 0		ported in the Big Horn mountains. Heavy Snow Heavy Snow Heavy Snow
	Iron 24 25 Nine in Iron 29 30 Lake ef inches. St NONE St NONE NONE NONE NONE MONE NONE MONE Cast NONE NONE NONE NONE NONE NONE St NONE NONE St NONE NONE NONE St NONE St NONE NONE NONE St NONE NONE St NONE NONE St St NONE St St NONE St NONE St St NONE St St NONE St St NONE St St NONE St St NONE St St NONE St St St St St St St St St St St St St	Iron241200CST251500CSTNine inches of lake eff100291700CST301100CSTLake effect snow broinches. The heaviest sstNONE REPORTED.estNONE REPORTED.nd WestTeton & Gros VeRanges - Upper G080000MST102359MSTA series of Pacific stormountains to 6 to 14 iYellowstone NatidGros Ventre MouLander Foothills -230200MST241000MSTA storm system brouglower elevations to 10north of Casper.Bighorn Mountain251100MST2145MST	Iron241200CST251500CSTNine inches of lake effect snow fellIron29291700CST301100CSTLake effect snow brought 8 to 10inches. The heaviest snow fell durieststNONE REPORTED.SetNONE REPORTED.md WestTeton & Gros Ventre MourRanges - Upper Green River080000MST102359MSTA series of Pacific storms broughtmountains to 6 to 14 inches for JacYellowstone National ParkMountains - Bighorn MountainsGros Ventre Mountains - WLander Foothills - Natrona C230200MST241000MSTA storm system brought heavy snolower elevations to 10 to 18 inchesnorth of Casper.Bighorn Mountains Southeas251100MST2145MST	Iron         24       1200CST         25       1500CST         Nine inches of lake effect snow fell at Hurley. T         Iron       29         29       1700CST         30       1100CST         Lake effect snow brought 8 to 10 inches of sn         inches. The heaviest snow fell during the evenin         st         NONE REPORTED.         est         NONE REPORTED.         nd West         Teton & Gros Ventre Mountains - Jac         Ranges - Upper Green River Basin Foot         08       0000MST         10       2359MST         A series of Pacific storms brought heavy snow         mountains to 6 to 14 inches for Jackson Hole an         Yellowstone National Park - Absarok         Mountains - Bighorn Mountains West -         Gros Ventre Mountains - Wind River         Lander Foothills - Natrona County Low         23       0200MST         24       1000MST         A storm system brought heavy snow to much clower elevations to 10 to 18 inches in the mount         north of Casper.         Bighorn Mountains Southeast - Northea         25       1100MST         2145MST	Iron241200CST0251500CSTNine inches of lake effect snow fell at Hurley. The heaviest stIron29291700CST0301100CSTLake effect snow brought 8 to 10 inches of snow to Iron 0inches. The heaviest snow fell during the evening.StNONE REPORTED.StNONE REPORTED.StNONE REPORTED.Ind WestTeton & Gros Ventre Mountains - Jackson HoleRanges - Upper Green River Basin Foothills080000MST012359MSTA series of Pacific storms brought heavy snow to parts of wmountains to 6 to 14 inches for Jackson Hole and Upper GreeYellowstone National Park - Absaroka MountainsMountains - Bighorn Mountains West - Bighorn NGros Ventre Mountains - Wind River MountainsLander Foothills - Natrona County Lower Elevation230200MST0241000MSTA storm system brought heavy snow to much of central andlower elevations to 10 to 18 inches in the mountains. Also, tonorth of Casper.Bighorn Mountains Southeast - Northeast Johnson251100MST024100MST251100MST024100MST251100MST251100MST240251100MST251100MST251100MST251100MST251100MST <t< td=""><td>Iron         24       1200CST       0       0         25       1500CST       0       0         Iron       29       1700CST       0       0         29       1700CST       0       0       0         30       1100CST       0       0       0         Lake effect snow brought 8 to 10 inches of snow to Iron County. 1       inches. The heaviest snow fell during the evening.       st         St       NONE REPORTED.       .       .       .         NONE REPORTED.       .       .       .       .         nd West       .       .       .       .       .         Teton &amp; Gros Ventre Mountains - Jackson Hole - Win Ranges - Upper Green River Basin Foothills       .       .       .         08       0000MST       0       0       .       .       .       .         10       2359MST       .       &lt;</td><td>Iron         24       1200CST       0         25       1500CST         Nine inches of lake effect snow fell at Hurley. The heaviest snow fell early in the evening.         Iron         29       1700CST       0         30       1100CST         Lake effect snow brought 8 to 10 inches of snow to Iron County. Mercer and Hurley reinches. The heaviest snow fell during the evening.         51         NONE REPORTED.         est         NONE REPORTED.         nd West         Teton &amp; Gros Ventre Mountains - Jackson Hole - Wind River Mountain Ranges - Upper Green River Basin Foothills         08       0000MST       0         10       2359MST         A series of Pacific storms brough theavy snow to parts of western Wyoming. Snowfall an mountains to 6 to 14 inches for Jackson Hole and Upper Green River Basin Foothills.         Yellowstone National Park - Absaroka Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains Southeast - No Gros Ventre Mountains - Wind River Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains - Wind River Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains - Southwest Pig         23       0200MST       0       2         24       <td< td=""></td<></td></t<>	Iron         24       1200CST       0       0         25       1500CST       0       0         Iron       29       1700CST       0       0         29       1700CST       0       0       0         30       1100CST       0       0       0         Lake effect snow brought 8 to 10 inches of snow to Iron County. 1       inches. The heaviest snow fell during the evening.       st         St       NONE REPORTED.       .       .       .         NONE REPORTED.       .       .       .       .         nd West       .       .       .       .       .         Teton & Gros Ventre Mountains - Jackson Hole - Win Ranges - Upper Green River Basin Foothills       .       .       .         08       0000MST       0       0       .       .       .       .         10       2359MST       .       <	Iron         24       1200CST       0         25       1500CST         Nine inches of lake effect snow fell at Hurley. The heaviest snow fell early in the evening.         Iron         29       1700CST       0         30       1100CST         Lake effect snow brought 8 to 10 inches of snow to Iron County. Mercer and Hurley reinches. The heaviest snow fell during the evening.         51         NONE REPORTED.         est         NONE REPORTED.         nd West         Teton & Gros Ventre Mountains - Jackson Hole - Wind River Mountain Ranges - Upper Green River Basin Foothills         08       0000MST       0         10       2359MST         A series of Pacific storms brough theavy snow to parts of western Wyoming. Snowfall an mountains to 6 to 14 inches for Jackson Hole and Upper Green River Basin Foothills.         Yellowstone National Park - Absaroka Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains Southeast - No Gros Ventre Mountains - Wind River Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains - Wind River Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains - Southwest Big Hor Mountains - Bighorn Mountains West - Bighorn Mountains - Southwest Pig         23       0200MST       0       2         24 <td< td=""></td<>

	Time Local/	Path Length	Path Width		Number of Persons		ated age		November 2002
Location Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

### WYOMING, Northeast

NONE REPORTED.

### WYOMING, Southeast

NONE REPORTED.

		Time Local/	Path Length	Path Width		ber of sons	Estim Dam			March 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

### **Additions/Corrections**

### PENNSYLVANIA, Central

PAZ012-041-045>046 Northern Clinton - Northern Lycoming - Southern Clinton - Southern Lycoming

1752EST 0 0 Flood

26 27 0045EST

A low pressure system over the Ohio Valley spread a large area of moderate to heavy rain across central Pennsylvania during Tuesday, March 26th. Total rainfall amounts averaged slightly in excess of 2 inches from this system. In Clinton and Lycoming counties, many roads were flooded as several small creeks exceeded bankful.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Perse Killed		Estimated Damage Property Crops	Character of Storm	May 2002
			Add	litions	c/Corr	ectio	ons		
KANSAS, Southeast			<u>1100</u>						
Russell County Paradise	05	1600CST			0	0		Hail (1.00)	
Russell County Waldo	05	1604CST			0	0		Hail (1.00)	
Russell County 2 SE Paradise to 3 E Paradise	05	1608CST 1612CST	3	250	0	0	170K	Tornado (F1)	
Russell County	Dama	ged outbuilding	s and power	lines.					
3 W Waldo	05	1617CST	0.5	110	0	0		Tornado (F0)	
Russell County Gorham	Brief	touchdown. 1714CST			0	0		Hail (1.75)	
Russell County 7 SE Russell	05	1727CST			0	0		Hail (1.25)	
	KSNV	W Channel 3.							
Russell County Russell	05	1733CST			0	0		Hail (1.75)	
Russell County 4 S Russell	05	1742CST			0	0		Hail (0.88)	
Russell County 4 S Russell	05	1742CST	0.5	110	0	0		Tornado (F0)	
Russell County	Brief	touchdown.							
2 E Russell	05	1744CST			0	0		Hail (1.00)	
Lincoln County Lincoln	05	1750CST			0	0		Hail (1.00)	
Russell County 4 S Russell	05	1752CST	0.5	110	0	0		Tornado (F0)	
Lincoln County	Brief	touchdown.							
4 N Lincoln	05	1800CST			0	0		Hail (0.75)	
Lincoln County Vesper	05	1800CST			0	0		Hail (0.75)	
Russell County Dorrance	05	1810CST			0	0		Hail (1.00)	
Lincoln County									

Storm Data and Unusual Weather Phenomena												
Location	Date	Local/ Length V	Path I Vidth Yards) Kille	Number of Persons d Injured	Estima Dama Property		Character of Storm	May 2002				
		Addit	tions/Co	rrecti	0 <u>ns</u>							
KANSAS, Southeas	t											
Saline County 2 N Hedville	05	1940CST	0	0			Hail (0.88)					
PENNSYLVANIA,	Central											
PAZ012-045	North	ern Clinton - Southern Cli	inton									
	13	2100EST 2200EST	0	0			Flood					
	Rising	waters in Bald Eagle Creek at 1	Beech Creek Stat	on caused th	ne river gauge	to reach	its flood stage of 11.0 fee	et briefly betweet				

Rising waters in Bald Eagle Creek at Beech Creek Station caused the river gauge to reach its flood stage of 11.0 feet briefly between 9 and 10 pm.

S	Stori	m Data	and	Unus	ual W	/eat	her Pher	nomena
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Perso Killed		Estimated Damage Property Crops	June 2002 Character of Storm
			Add	litions	s/Corr	ectio	ons	
KANSAS, Southeast Russell County 1 N Bunker Hill	11	1455CST			0	0		Hail (1.00)
Russell County 3 E Bunker Hill	11	1502CST			0	0		Hail (1.00)
Russell County Wilson Lake	11	1515CST			0	0		Hail (1.75)
Ellsworth County Wilson	11	1517CST			0	0		Hail (1.00)
Lincoln County 8 SW Lincoln to 4 SW Lincoln	11	erative observer. 1525CST 1527CST ined in the count	4	110	0	0		Tornado (F0)
Ellsworth County Wilson	11	1527CST			0	0		Hail (1.75)
Ellsworth County Wilson	11	1530CST			0	0		Hail (2.75)
Ellsworth County Wilson	No re	ports of damage, 1530CST	but one has	to wonder.	0	0		Hail (1.75)
Lincoln County 10 SW Lincoln	Coope	erative observer. 1533CST	1	55	0	0		Tornado (F0)
Ellsworth County		event that occurre			Ū	Ū		
3 E Wilson	11	1540CST	114	61 1	0	0	500K	Hail (2.75)
Ellsworth County 3 E Wilson		papers contributed			o o	onicles.	500K	ally to corn and wheat, was extensive. Area Thunderstorm Wind (G70)
	Major	r roof damage, w			ly blown off I	homes. V	Vindows blown out o	ff both homes and vehicles. In cases where rea newspapers contributed greatly to this
Russell County 4 S Dorrance	11	1542CST			0	0		Hail (1.00)
Ellsworth County 9 NE Black Wolf	11	1558CST			0	0		Thunderstorm Wind (G61)
Lincoln County 4 S Sylvan Grove	11	1605CST			0	0		Hail (0.75)
Lincoln County 10 S Sylvan Grove	11	1618CST			0	0		Hail (1.25)
Lincoln County 10 S Sylvan Grove	11	1618CST			0	0		Hail (1.75)

		Time	Path	Path	Number		Estimated		June 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed Ir	s njured	Damage Property Crops	Character of Storm	
			Ad	ditions	c/Corre	ctic	<u>ons</u>		
KANSAS, Southeast									
Ellsworth County									
4 E Ellsworth	11	1702CST 1945CST			0	0		Flash Flood	
	Sectio	ons of Highway	111 flooded.						
Ellsworth County Ellsworth	11	1715CST			0	0		Thunderstorm Wind (	G78)
Ensworth	11	1/15051			U	U		Thunderstorm wind (	(170)
	Occu	rred at Rush Fie	ld. No dama	ge was report	ed.				
Ellsworth County 2 S Kanapolis Res	11	1715CST			0	0	100K	Thunderstorm Wind (	<b>(78</b> )
2 5 Kanapons Kes	11	1730CST			U	U	1001	Thuhacistorin Wina (	(170)
	Camp	per overturned w	ith many tre	es uprooted.					
Ellsworth County Kanapolis Res	11	1720CST			0	0	250K	Thunderstorm Wind (	G74)
Kanapons Kes	11	1/20001			U	U	2001	Thunderstorm wind (	0/4)
				ipped over, a	t least two boat	ts brok	e loose from their mo	orings and an specified nu	mber of priva
Ellsworth County	docks	s were damaged							
1 S Kanapolis Res	11	1721CST			0	0	125K	Thunderstorm Wind (	G83)
•		1730CST							
Mcpherson County	W1de	spread damage	to campers, t	rees, power li	nes and power	poles.			
2 S Marquette	11	1722CST			0	0	100K	Thunderstorm Wind (	G78)
· · ·		1737CST						·	,
Mcpherson County	Wide	spread roof dam	age as well a	as downed po	wer lines and p	ower p	oles.		
5 S Marquette	11	1723CST			0	0	100K	Thunderstorm Wind (	G74)
<b>1</b>		1738CST						,	,
Monhanzan Country	Wide	spread roof dam	age as well a	as downed po	wer lines and p	ower p	oles.		
Mcpherson County 8 S Marquette	11	1730CST			0	0	250K	Thunderstorm Wind (	<b>G87</b> )
o o mai quette		1745CST							
								by-50 foot metal pole barr	
		* *						s businesses and residence herous power lines and po	
		ed. Area newsp			•			x x	1
Rice County		1720.007			٥	0			(152)
3 N Little River	11	1730CST 1740CST			0	0		Thunderstorm Wind (	G52)
Mcpherson County 3 SW Mc Pherson	11	1735CST			0	0	125K	Thunderstorm Wind (	<b>G7</b> 4)
5 Svv Mic Flierson	11	1745CST			U	U	125K	Thuhueistorin winu (	G/4)
	Wide	spread damage	to roofs, trees	s, power lines	and power pol	es.			
Rice County	11	1725CGT			0	0	100K	Thurdonstown Wind (	C70)
Galt	11	1735CST 1745CST			0	0	100K	Thunderstorm Wind (	G70)
	Wide	spread damage	to roofs, pow	er lines and p	ower poles, and	d trees.			
Mcpherson County		1744000			e	0		H-1 (0 75)	
Lindsborg	11	1744CST			0	0		Hail (0.75)	
Mcpherson County									
Lindsborg	11	1744CST			0	0	125K	Thunderstorm Wind (	G78)
		1755CST							

S	Storm Data and Unusual Weather Phenomena												
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Persor Killed 1		Estimated Damage Property Crops	Character of Storm	June 2002				
			Ad	ditions	s/Corre	ectio	<u>ons</u>						
KANSAS, Southeast Mcpherson County 1 S Galva	11	1804CST			0	0		Thunderstorm Wind (	G52)				
Mcpherson County 1 W Galva	11	1813CST			0	0		Thunderstorm Wind (	G56)				
Mcpherson County		ches 3-5 inches i <b>1819CST</b>	in diameter c	lowned.	0	0		Thunderstorm Wind (	C 61)				
4 N Canton Mcpherson County 9 E Roxbury	11	1819C31			0	0		Thunderstorm Wind (	,				
Rice County		ned limbs.			Ū	Ū		Thunderstorm wind (	(150)				
5 SW Bushton Rice County	11	1830CST			0	0		Hail (1.00)					
Bushton Marion County	11	1833CST			0	0		Hail (0.75)					
Durham Marion County	11	1838CST			0	0		Hail (1.00)					
Hillsboro Marion County	11	1838CST			0	0		Hail (0.75)					
Tampa Saline County	11	1838CST			0	0		Thunderstorm Wind (	G61)				
2 W Bridgeport Marion County	11	1838CST			0	0		Hail (0.75)					
Hillsboro Marion County	11	1840CST			0	0		Hail (0.88)					
4 N Hillsboro Mcpherson County	11	1840CST			0	0		Hail (1.50)					
Mc Pherson Ellsworth County	11	1840CST			0	0		Thunderstorm Wind (	G52)				
Ellsworth	<b>11</b> Highv	<b>1845CST</b> <b>1945CST</b> way 14 flooded.			0	0		Flash Flood					
Marion County 5 NW Hillsboro	11	1854CST			0	0		Thunderstorm Wind (	G65)				
Reno County Hutchinson	No re 11	ports of damage 1854CST	b.		0	0		Hail (0.75)					
Mcpherson County Mc Pherson	11 12 Wide	1902CST 0117CST spread street flo	oding.		0	0		Flash Flood					

		Time	Path	Path	Number	of	Estimated		June 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed Ir		Damage Property Crops	Character of Storm	June 200
			Add	ditions	/Corre	ction	<u>15</u>		
KANSAS, Southeast									
Marion County Goessel	11	1924CST			0	0		Thunderstorm Wind (	G56)
Rice County Silica	11	1925CST			0	0		Hail (1.00)	
Rice County 2 N Little River	11	1930CST			0	0		Thunderstorm Wind (	G52)
Rice County 2 N Little River	11	1930CST			0	0		Thunderstorm Wind (	G52)
Rice County 4 NW Alden	11	1949CST			0	0		Thunderstorm Wind (	G56)
	Tree of	lamage. Area ne	wspapers co	ntributed to t	his report.				
Butler County 4 E Potwin	11	1950CST			0	0		Thunderstorm Wind (	G52)
Chase County 1 NW Elmdale	11	1950CST			0	0		Thunderstorm Wind (	G52)
Chase County 2 SE Cottonwood Falls	11	2015CST			0	0		Thunderstorm Wind (	G52)
Reno County Plevna	11	2028CST			0	0		Thunderstorm Wind (	G52)
Reno County 12 W Nickerson	11	2043CST			0	0		Thunderstorm Wind (	G <b>52</b> )
Mcpherson County									
Mc Pherson	11 12 Many	2048CST 0117CST roads flooded ad	pross the cou	intv	0	0		Flash Flood	
Reno County	ivitality	Todds Hooded at	1033 the eot	inty.					
2 N Buhler	11 Publa	2059CST 2200CST or Road flooded.			0	0		Flash Flood	
Reno County	Duine	a Road Hooded.							
2 E Haven	11	2132CST			0	0		Thunderstorm Wind (	G52)
Sedgwick County									
Mt Hope	11	2135CST			0	0		Thunderstorm Wind (	G61)
	Sever	al limbs downed							
Sedgwick County Mt Hope	11	2138CST			0	0		Hail (0.75)	
Harvey County									
Newton	11	2150CST			0	0		Flash Flood	
	12 U.S. I	0330CST Highway 50 floor	ded to 12 in	ch depth. By	2245, several r	oads acros	ss the county were	barricaded.	
Sedgwick County									
Wichita	11 12	2258CST 0400CST			0	0		Flash Flood	

Storm Data and Unusual Weather Phenomena												
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crops	June 2002 Character of Storm				
			<u>Ado</u>	ditions	/Corr	ectio	ons					
<u>KANSAS, Southeast</u> Reno County												
1 NW Hutchinson	12	0400CST			0	0		Thunderstorm Wind (G52)				
Reno County Hutchinson	Severa	al limbs downed. 0410CST			0	0		Thunderstorm Wind (G52)				
		ch diameter limbs	downed									
Sedgwick County Derby	12	0445CST	do whee.		0	0		Thunderstorm Wind (G52)				
Cowley County Winfield	12	0547CST			0	0		Thunderstorm Wind (G52) M				
Cowley County Arkansas City	12	0550CST			0	0		Hail (1.00)				
Cowley County Arkansas City	12	0557CST			0	0		Hail (0.75)				
<u>NEW YORK, East</u> Montgomery County Amsterdam	16	1150EST 1200EST	3.2	75	0	0	75K	Tornado (F0)				
Rensselaer County East Greenbush	16	1230EST			0	75		Hail (0.75)				
Albany County Coeymans	16	1235EST			0	0	2K	Thunderstorm Wind (G60)				
Greene County Coxsackie	16	1245EST			0	0		Hail (0.75)				
Columbia County Chatham	16	1300EST			0	0		Hail (1.50)				
Dutchess County Wappingers Falls	16	1310EST			0	0		Hail (1.75)				
Columbia County Canaan	16	1323EST			0	0		Hail (0.75)				
Dutchess County Hopewell Jct	16	1323EST			0	0		Hail (0.75)				
Columbia County Austerlitz	16	1325EST			0	0		Hail (0.75)				
Dutchess County Pawling	16	1400EST 1410EST	1	125	0	0	20K	Tornado (F1)				

Thunderstorms developed along an occluded frontal bounday by midday June 16. Their intensity was aided by a large cold pocket of air aloft combined with the strong June midday sunshine. As the storms approached the Hudson Valley of eastern New York, some of them became severe. Most of the reports were of hail damage. However, there two confirmed tornado touchdowns as well as one non-tornadic destructive wind report. The first of two tornados in eastern New York touched intermittenly down in the town of Florida, Montgomery County between Klapmeyer and Hartley Roads, to the southwest of Amsterdam. The path of this tornado

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		iber of sons Injured	Estimated Damage Property Cro	ps Character of Storm	June 2002
				litions	/Cori	5		•	
PACIFIC GUZ002	Micro 29 30	onesia 0000SST 2300SST			1	0	60K	Tropical Storm	
	Depres tropica weathe Munic	ssion 08W on al depression ver observing st ipal Office on	the morning vere occurrin tation on Nu the island. T	of the 29th. 8 g. Weather of kuro ceased 3 The strong we	Strong wes bservers of functioning st winds a	terly wind the islar after the so raised	s south of the mo ad of Nukuro repo e building it was the seas in the re	tem continued to develop and onsoon trough associated with orted winds of up to 45 mph housed at blew down. The gion resulting in Hazardous s he high swells and seas.	the intensifyin The automate building was th
GUZ001	On the <b>Belau</b> 29 30	U	e 30th the Tr	opical Depres	sion 08W i 0	ntensified 0	to become Tropic. 100K	al Storm Chataan. M?IW Tropical Storm	
	Babelc high w and ba	laob in Palau o vinds and heavy rge to run agr	luring the even y waves bega ound on the	ening. Early c n to develop. reef.The tugb	winds gus winds gus	vening the ting to 40 ge were f	e tugboat, with bar knots and waves rom Indonesia and	outside the Ngeremlengui Pas rge in tow, was outside the pa measuring 8 to 12 feet forced 1 the aggregate was from the f Tropical Storm Rammasun	ssage when ver both the tugboa Philippines. Th

The monsoon trough had been active for a few days in the region. A circulation on the trough gained enough strength to become TD 09W late in the afternoon of the 28th. The tropical depression was located near 9.8N 135.0E at that time. The system further intensified and by the late afternoon of the 29th was classified by the Joint Typhoon Warning Center as Tropical Storm Ramassun.

		Time	Path	Path	Numb	er of	Estim	ated		July 2002
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perse Killed		Dam Property		Character of Storm	July 200.
			٨d	ditions	c/Corr	ectic	ns			
	trol and	Northoast	<u>110</u>				<u>/115</u>			
COLORADO, Cen Adams County 13 NNW Bennett	<u>23</u>	1440MST 1447MST	0.1	50	0	0	0	0	Tornado (F0)	
		all tornado touc	hed down bri	efly but did n	o damage.					
<u>XENTUCKY, East</u> Pulaski County Squib	<u>ern</u> 02	1310EST			0	0	0	0	Hail (1.75)	
Jackson County Clover Bottom	02	1510EST			0	0	0	0	Hail (0.75)	
Breathitt County 5 NW Jackson	02	1515EST			0	0	0	0	Hail (1.00)	
	02	1313251			v	U	U	Ū	Han (1.00)	
Pike County Marrowbone	02	1800EST 1805EST			0	0	0	0	Thunderstorm Wind	
Letcher County Mc Roberts	One t 02	tree was down ir 1800EST	1 the town of	Marrowbone	and another	tree was	down in the 0	Blackberr 0	y area, also near Marrowbor Hail (1.75)	ne.
Floyd County										
Weeksbury	02	1900EST 2200EST			0	0	0	0	Lightning	
Pike County	Wate	r was across roa	ds along Cal	eb Road and	Skull Fork Ro	oad. Hig	h water was	reported t	o be in people's yards.	
Dorton	02 Deceni	1920EST 2120EST		n from Doofb	0	0	0	0	Flash Flood	
Pike County	Peop	le were cut off b	y rising wate	r from beem	ide Creek.					
Dorton	02	1935EST 2115EST			0	0	0	0	Flash Flood	
Johnson County	Flow	ing water covere	ed Blaze Brai	nch road.						
Sitka	02	2000EST			0	0	0	0	Thunderstorm Wind	
	One t	tree was down of	n Kentucky I	Highway 201.						
Letcher County Jenkins	02	2000EST 2130EST			0	0	0	0	Flash Flood	
Johnson County	Sever	ral county and ci	ty roads wer	e closed due t	o flash floodi	ng.				
Oil Spgs	02	2015EST			0	0	0	0	Thunderstorm Wind	
	One t	tree was down a	cross Kentuc	ky Highway S	825.					
Floyd County Ivel	02	2130EST			0	0	0	0	Hail (0.75)	
	Aside	e from 0.75 inch	hail, 1 inch	of rain fell wi	thin 20 minu	tes.				
Rockcastle County Brodhead	02	2230EST			0	0	0	0	Thunderstorm Wind	

Si	tori	orm Data and Unusual Weather Phenomena								
		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage			July 200
ocation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			Add	litions	/Corr	<u>ectic</u>	<u>ons</u>			
<u>KENTUCKY, Eastern</u> Elliott County	<u>l</u>									
Lytten	09	1635EST			0	0	0	0	Thunderstorm Wind	
	Trees	and tree limbs w	vere down.	Also small ha	il reported a	nd 2.5 in	ches of rain i	n one hou	r.	
Laurel County London	20	1614EST			0	0	0	0	Hail (0.88)	
Laurel County London	20	1621EST			0	0	0	0	Thunderstorm Wind	
	One large tree was down on Pearl Street.									
Laurel County London	20	1625EST			0	0	0	0	Hail (0.75)	
Laurel County London	20	1628EST			0	0	0	0	Thunderstorm Wind	
	Several trees were down. One large Pine tree was uprooted and a couple of trees fell onto cars.									
Laurel County 4 SW London	22	1530EST			0	0	0	0	Thunderstorm Wind	
	Severa	al trees were dow	vn.							
Laurel County 6 SE London	22	1532EST			0	0	0	0	Thunderstorm Wind	
	One large tree was down and blocking Kentucky Highway 229.									
Laurel County 5 S London	22	1539EST			0	1	0	0	Lightning	
Mccreary County Countywide	One woman was struck by lightning.									
	23	1825EST			0	0	0	0	Thunderstorm Wind	
IINNESOTA, Southy		ple trees were rep	ported down	countywide a	along with se	everal po	wer outages.			
Jackson County 10 NE Jackson	10	1907CST 1910CST	0.5	50	0	0			Tornado (F0)	
	A tornado developed over open country and caused no reported damage before crossing into Martin County.									
<u>EBRASKA, Central</u> Keya Paha County										
11 SE Springview	02	1800CST			0	0			Hail (0.75)	
Rock County 4 N Bassett	02	1800CST			0	0			Hail (1.00)	
Brown County 2 NE Long Pine	02	1835CST	0.1	5	0	0			Tornado (F0)	
	1836CST The tornadooriginally touching down in Rock Countymoved into rural Brown County and lifted quickly causing no damage.									
Rock County		<i>U</i>			2					J

The tornado touched down briefly in a rural area approximately 8 miles west of Bassett in Rock County...near the Rock and Brown County line...and then entered Brown County. There was no damage.

		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage			July 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

## **Additions/Corrections**

#### PACIFIC GUZ002

Micro	nesia					
02	0000SST	47	0	100M	3M	<b>Tropical Storm</b>
04	0000SST					-

On June 27, a disturbance embedded in an active monsoon trough began to organize about 350 miles southwest of Pohnpei and 275 miles southeast of Chuuk Lagoon. This disturbance was upgraded by the Joint Typhoon Warning Center (JTWC) to Tropical Depression (TD) 08W at 0000 UTC on 28 June and to Tropical Storm (TS) 08W, 24 hours later. TS 08W was named Tropical Storm Chataan (pronounced tsa-Ta-an)by RSMC-Tokyo at 0600 UTC on 29 June. The monsoon trough in which Chataan was embedded brought heavy rains and strong winds to a large portion of the tropical western North Pacific, including Pohnpei State and Chuuk State. From 27 June to 1 July, the system drifted slowly and erratically north, then east toward Pohnpei, then northwest toward Chuuk. On 1 July, Chataan, located near 6N156E, was forecast to maintain a northwest to west-northwest track and pass northeast of Chuuk Lagoon. However, the tropical storm, still poorly organized, began to take a more westward track, passing very close to, or just south of, the weather station at Weno Island (WMO 91334) in Chuuk Lagoon on the afternoon and evening of 3 July. On 1 and 2 July, the rain field associated with Chataan was very asymmetric, with an area of extremely heavy rainfall and deep convection on the west side of the circulation. This area of convection moved slowly over the Lagoon on 2 and 3 July, dropping nearly 20 inches of rain.

#### Chuuk

Eye Passage: An eye had not yet developed as Chataan approached and crossed Chuuk Lagoon.

The cyclone center passed very close to Weno Island, Chuuk Lagoon, Chuuk State at around 0500 UTC on 3 July. This path is based on a combination of surface wind and pressure observations from the Weather Service Office (WSO) at Chuuk, which suggest that the circulation center was just south of Weno Island. This path differs slightly from the JTWC track, which has the track slightly north of Weno Island.

Wind: Peak winds observed at WSO Chuuk were from 240 degrees at 29 knots(33 mph) with gusts to 44 knots (51 mph) at 0550 UTC on 3 July. This occurred just after the center passed the island. However, Chataan could have been somewhat more intense as the maximum winds may not have passed over the island. The JTWC intensity derived from satellite data was 40-45 knots (45-50 mph).

Pressure: The minimum pressure at WSO Chuuk was 999.5 hPa at 0555 UTC on 3 July. This corresponds to a tropical depression with about 30-kt intensity using the Atkinson-Holliday wind-pressure relationship. This pressure could support slightly stronger winds using other wind-pressure relationships. While this intensity is consistent with the maximum observed winds recorded at the Chuuk WSO, the maximum wind may not have been observed at the weather station.

Rainfall: Rainfall at Chuuk was extremely heavy, especially in the 24-hour period prior to the tropical storm passage. A large, persistent mesoscale convective area on the west side of Chataan produced very heavy rain, which persisted for a long period over the Lagoon due to its large size and the slow movement of the storm. From 1 July 1200 UTC until 2 July 1200 UTC, the speed of motion was around 7 knots (8 mph). Over the same period, 19.92 inches of rain were recorded at the weather station at Weno Island, Chuuk. In the 12 hours from 01 July 1800 UTC to 02 July 0600 UTC, the weather station recorded 14.21 inches.

Storm Surge: Storm surge and inundation associated directly with the tropical storm were not directly assessed, but were likely less than those produced on southern and western exposures by the monsoon surge to the south. This persistent surge produced a strong southwest swell several days earlier, creating hazardous surf on the southern and western reefs of the Lagoon. The persistent winds could have also generated some waves within the Lagoon. Inundation could have been up to 1 foot at high tide in some locations. Waves, surf, and inundation was likely more serious on the Southern and Northern Mortlock Islands.

Flooding and Mudslides: Due to the very heavy rainfall on 1 and 2 July and the saturated soil, there was extensive flooding of low-lying areas and at least 30 devastating mudslides. These mudslides on several Chuuk Lagoon high islands killed 47 people, creating the greatest natural loss of life on Chuuk in recorded history. The landslides buried people in their homes and carried some bodies to the shore. Most of those that died are in the homes, and dirt, rocks and trees just buried the home. About 1000 homes were destroyed and 1300 are homeless and are in great need of food, clothing, and medicine.

Winds snapped power lines and the floods caused drainage systems to overflow. Most of the villages on Weno have reported fatalities and injuries form the mudslides. The islands of Weno, Fefan, Tonoas, Udot, Fanapanges, and Uman and the municipalities of Dublon, Fefan, Udot and Tonoas as well as the villages of Mwan and Nupukos also have confirmed deaths and injuries. Tonoas reported the majority of the deaths, 21, with about half of these being children. Damage to both public and private property is estimated at more than \$10 million.

		Time Local/	Path Length	Path Width		Number of Persons		ated age		July 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

## **Additions/Corrections**

#### PACIFIC

Many of the Chuuk residents now must survive on the few breadfruit and other staple crops that were not destroyed by the mud and rain. By the end of July infections from wounds and contagious diseases became a major concern. Mud and debris from the landslides contaminated the groundwater. Taro patches are flooded, most of the breadfruit has been stripped from the trees and the fruit that survived is being spoiled by parasites.

In Nechap, Tonoas the landslide lifted old WWII Japanese bunkers and placed them to the shore, a distance of 100 feet. The landslide also displaced two old Japanese water tanks. In other villages, streams and rivers overflow their banks. Tin-roof and concrete houses were completely buried under mud of at least 15 feet deep. ??PH, ??PH,

#### **GUZ006**

Guam 2100SST 0 23 60M 500K Hurricane/Typhoon 04 05 2100SST

After passing Chuuk, Chataan resumed a northwest track and began to intensify. Chataan was upgraded to a typhoon at 1800 UTC on 3 July, while moving toward the Mariana Islands on a track predicted to pass between Guam and Saipan. On the afternoon of 4 July, the typhoon came into the range of the Andersen Air Force Base (AFB) WSR-88D NEXRAD radar. Shortly thereafter, Chataan took a more westward track toward the Rota Channel and northern Guam. The center of the eye moved just slightly north of Guam, with the southern half of the eye and eyewall cloud traversing the island. The eye entered the northeast side of the island at about 2130 UTC on 4 July and exited the northwest side of the island about 0000 UTC on 5 July. The eye lasted from 2 hours over northern Guam to just minutes over central parts of the island. Most of the southern half of the island remained in the eyewall cloud, being pummeled continuously by strong winds and heavy rains.

#### Guam

Eve passage: Over Guam, the eve extended from Andersen AFB southward to the center of the island. It lasted about 2 hours at Andersen and only a few minutes at Piti. The center of the eye was a few miles north of the island in the Rota Channel. The north eyewall likely did not reach Rota Island, but remained in the Channel. Below is the estimated time of eye duration at various locations on Guam.

Wind: The maximum 2-minute sustained surface wind on the island was 200° at 65 knots (75 mph) with a peak gust of 90 knots (105 mph) reported at Andersen AFB at 2339 UTC and at 2355 UTC on 4 July. Because of the type of instrument used (hot wire anemometer), the winds were logged as estimated. The maximum sustained wind at WFO Tiyan Guam was 220° at 65 knots (74 mph) at 2326 UTC on 4 July and the peak gust was 78 knots (90 mph) at 2338 UTC. On the west side of the island, the tidal station at Apra Harbor recorded a peak gust of 92 knots (106 mph). The HANDAR at Apra Harbor (different location from the tidal station) recorded a peak wind of 86 knots (99 mph) at 0000 UTC on 5 July. At Merizo on the south end of the island, the peak gust recorded was 82 knots (94 mph) at 2050 UTC on 4 July. Unfortunately, the data from the Mangilao (east-central side) and Inarajan-Dan Dan (southeast side)

HANDARS were not recoverable. A private weather station in Sinajana recorded a gust to 97 mph there. The wind measurements support a typhoon of 75-80 knots (85-90 mph) with gusts to 90-100 knots (105-115 mph).

Pressure: Minimum sea-level pressure within the eye of Chataan was extremely uniform, with 961.1 hPa being recorded at WFO Tiyan and at Andersen AFB. This corresponds to 82 knots (94 mph) sustained winds based on the Atkinson-Holliday wind pressure relationship.

Rainfall: Rainfall from Typhoon Chataan was very uniform across the island where local rainfall measurements were taken. However, extremely high rates of river flow and the resulting road damage, erosion, and silting in Fena Lake suggest that the rain rates and amounts were significantly higher across the mountainous areas of southern Guam. This has been confirmed by preliminary measurements from USGS measuring sites on Guam. Preliminary data from these stations indicated hourly rainfall rates as high as 5.9 inches in one hour, 12.2 inches in 3 hours, 15.5 inches in 6 hours, 17.9 inches in 12 hours, and 20.4 inches in 24 hours. These are extreme rainfall rates that may exceed a 100-year rainfall event.

Storm Surge: The maximum storm surge and inundation (height of run-up) appears to be about 12 feet, focused in the bay at the village of Umatac and 10 feet at the causeway to Commercial Port. Over all, the height of the inundation on windward coastlines ranged from 5 to 8 feet. These heights are consistent with a Category 2 typhoon on Guam.

Damage Assessment: A damage assessment of structures, infrastructure, and vegetation was conducted over most areas of the island. Several observations stand out.

		Time Local/	Path Length	Path Width		Number of Persons		ated age		July 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

## Additions/Corrections

#### **PACIFIC**

Damage to structures: Structural damage was constrained to poorly built structures or wooden structures weakened by wood rot or termite infestation. Even with these structures, most damage was to roofs. Concrete, sheet metal, and well-built wooden structures stood up well to the winds. Window damage was minimal, suggesting that the winds were insufficient to carry large debris or to dislodge

window frames.

Damage to infrastructure: Most of the infrastructure weathered the storm well. Several un-guyed or rotten wooden poles were downed. A few un-guyed hollow-spun concrete poles were blown down or dragged down. A few of these poles that were un-guyed and set in concrete broke at the base due to strong vibrations created by the oscillating power lines. A few secondary power transmission and distribution

lines were blown down, but the majority of these lines were dragged down as poles fell. Primary power transmission and distribution lines held up well. Even tertiary distribution lines to residences held up relatively well.

During Chataan's passage, many rivers flooded to levels not seen by long-time residents before. These swollen rivers scoured gorges and over-ran bridges, eroding areas of pavement on some of the roads. The heavy rains caused tremendous erosion, dislodging many old trees, and caused numerous landslides. The heavy runoff in the Fena Watershed caused severe silting in the Fena Reservoir, making lake waters

unsuitable for drinking water production for several days.

Damage to vegetation: Palm trees weathered the winds relatively well. There were no indications of palms loosing their crowns. Some palms were blown down, but primarily because the heavy rains softened the ground sufficiently. In coastal areas, a few palm trees were felled due to undermining by ocean waters. Some palms had twisted crowns, but these were near tall building or risen elevations,

where the winds accelerated and formed strong eddies. Brittle trees, such as mango, African tulip, and shower trees lost many branches. There were some areas where vegetation was badly scoured, but these were generally in hilly/mountainous areas where funneling or up- and down-slope wind accelerations occurred. The island had a general green appearance rather than a brown appearance-Category 2 rather than Category 3. Damage to vegetation was consistent with that of a Category 2 typhoon, but some low-end Category 3 damage occurred in hilly/mountainous areas.

Other aspects of damage: There was little damage to the paint on automobiles, again suggesting that the winds were insufficient to carry debris capable of pitting the paint. Automobile damage was largely due to fallen trees and branches, but there were no reports of flipped automobiles. This suggests weaker than Category 3 winds. One small aircraft at the airport was flipped over.

Damage to power lines and utility poles, flooded roads, damaged buildings and left debris strewn across the island. Island wide power outage. 23 people injured during the peak of the storm. None of the injuries were considered serious.

Damage to the Agat and Barrigada fire stations. Severe damage to the GPD tactical operations command in Tiyan. The Antonio B. Won Pat International Airport incurred multi-million dollar damage to its jetways and administrative offices. The airport's ticketing area was flooded and it's administrative office was completely destroyed. \$3 to \$4 million was the estimate for repairs.

A number of generators at water wells and sewage pumps were damaged by the storm and needed to be repaired. 34 of the islands 110 water wells and several of the sewage pump stations were not working just after the storm.

Power plants suffered only minor water damage, except for the Tenjo plant, which lost its doors during the storm and was swamped.

The Coast Guard reports that several navigational aids were damaged during the storm. The damage aids were located at Apra Harbor, Orote Point, the Glass Breakwater and the entrance to Agat Marina. The Coast Guard received reports of five vessels running aground or sunk in the harbor. Three sailboats broke free of their moorings at the Marianas Yacht Club.

A Navy barge was reported run aground behind Reserve Craft Beach, and a Navy barge containing waste oil and water was reported partially submerged in Apra Harbor. The damage resulted in an undetermined amount of oil spilling into inner Apra Harbor. Several ships waiting to pull into Guam's port were forced to wait outside. Thick puddles of oil could be seen on shores and vegetation surrounding Apra Harbor,

including Ski Beach, Family Beach and Sasa Bay. The barge spilled 105,000 gallons of fuel into Apra Harbor.

Hotels reported rain damage to rooms and carpets.

More than 1600 people sought safety in 15 emergency school shelters. The government serves three meals per day at each shelter. The number of people in the shelters increased to 1718 people by the 8th. The additional people were probably from those who were

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated July 2002 Local/ Length Width Persons Damage Standard Crops Character of Storm Location Date (Miles) (Yards) Killed Injured Property Additions/Corrections PACIFIC The number of people in the shences increased to 1710 people by the oth. The authorital people were probably from those who were sheltering with someone else more secure and came home to find their homes damaged, or people who tried to make do and found out that they couldn't. This figure rose to 3947 people on the 10th. The Agfayan Bridge across from Bear Rock in Inarajan was damaged at its southbound abutments. The abutments were undermined. The effects of the typhoon on Fena reservoir have caused increased sediment levels, which impede producing water to meet regulatory standards. The typhoon caused massive amounts of rainfall to deluge the Fena watershed, eroding the shoreline and stirring up the silt on the bottom of the reservoir. This created extremely high sediment levels in the reservoir, which exceeded the capability for removal by the Public Works Center Guam water treatment plant. The Public Works Center tried to process and remove the sediment from the reservoir water but was not successful. The water treatment plant became overloaded with solids and the filters clogged. July 19th-Fena Reservoir started to supply water to the island again. The John F. Kennedy High School football field and gym suffered major damage. The gym was flooded and outside lighting was damaged on the football field. The chain-link fence, several light poles and the bleachers were also severally damaged at the Hagatna Tennis Center. The Guerrero Stadium had its bleachers destroyed. The Oceanview Middle School's library and gym was heavily flooded. 3000 square feet of the Guam Adventist Academy in Talafofo was damaged As of July 11 2000 people, mainly in southern sections of Guam, were without telephone service. Water from heavy rain damaged underground lines. As of the 13th 1,910 phone lines were damaged. Some residents in Merizo had their houses flooded from a village river and became homeless for a while. Crop damage: banana trees, sweetsop, peppers and cucumbers crops were severely damaged. One farmer lost \$70 to \$80 thousand worth of produce. 1,996 houses were severely damaged or destroyed according to the American Red Cross. **GUZ008** Rota 2100SST 2.1M 600K Hurricane/Typhoon 04 05 2100SST ROTA Damage occurred to crops, livestock and fisheries. This damage is estimated to total \$600,000. 60 percent of the farmers totally lost their crops. Fishermen had damage to boats, boat shelters and other equipment. \$600,000 estimated for rehabilitation of infrastructure, particularly primary and secondary roads. Major cleanup was required for the road between San Francisco Songsong Village to the airport due to fallen trees. Also the roadway from Pona to Gagani to Sagua, which is considered to be the most heavily damaged road. \$575,000 damage to parks and recreational facilities. Typhoon Chataan permanently destroyed four thatched-roof huts at the Chamorro Village. At Talu' Park five hut and 24 trees and plants were damaged. \$275,000 damage to seaports and the airport. \$275,000 for debris cleaning and clearing \$300,000 private sector damage \$73,000 public utilities **GUZ006** Guam 10 0600SST 0 0 40K Hurricane/Typhoon 0600SST 11

A circulation was noted on Quick Scat scatterometer imagery near Bikini Atoll on the morning of the 5th. The circulation became TD 10W on the morning of the 7th as it was north of Pohnpei. The tropical depression intensified to Tropical Storm Halong on 8th. At this time it was about 220 miles north-northeast of Chuuk The tropical storm gradually gained strength to become Typhoon Halong

Storm Data and Unusual Weather Phenomena											
Location	Time     Path     Path     Number of     Estimated     July 2002       Local/     Length     Width     Persons     Damage       Date     Standard     (Miles)     (Yards)     Killed     Injured     Property     Crops     Character of Storm										
	Additions/Corrections										
PACIFIC	on the evening of the 9th. Halong#s closest point of approach of 95 miles south of the island occurred near 1600 on the 10th.										
	The maximum inundation observed on the south and southeast coasts occurred with Typhoon Halong on 10 July. The typhoon caused considerable beach erosion at Talofofo and Inarajan Bays. Surf exceeded 15 feet from Pago Bay to Talofofo Bay and 20 feet at the Inarajan Salt Water Pools. There was considerable erosion at Talofofo Bay, as the water rose 10 feet above normal heights. The sea wall at Inarajan held up very well. These waves are consistent with a medium-sized Category 2 typhoon passing to the south of Guam.										
GUZ006	At the National Weather Service Office on Guam the maximum sustained wind was 43 mph from the east at 1436. The highest gust observed was 56 mph from the east-northeast at 1137. Guam 23 1800SST 0 0 50K Flood										
	Heavy rains and gusty winds moved across the island during the evening. Five residents in the village of Piti reported minor flooding. Debris from the hills dropped into the water channels that spill into the ocean. The heavy rains forced 20 families moved from temporary homes to Astumbo gymnasium in Dedeo. The families have been living in temporary housing since Typhoon Chataan damaged their homes.										
Micronesia Pohnpei	28 1330SST 3 3 Flash Flood 1430SST										
GUZ006	Claudia Ngirasob 41, Dawn Bachungar Rechemang 17, and Rita Gracia Sungino 32, all members of the Palau women's softball team died in a flash flood at Litedunyap Waterfall on the island of Pohnpei. The victims were among 20 Palauan athletes and trainers who went on an afternoon excursion to the waterfall to continue their celebrations as the winners of the most medals at the Micronesian Games. The three women were swimming at the falls around 1430 L when the flash flood hit. Six swimmers were caught by the surging waters. The other athletes pulled three of them to safety, but could not rescue the three ladies. Heavy rains had occurred across Pohnpei during the afternoon. A sudden downpour was followed almost simultaneously by a flashflood of a type known to the locals as Luwair, which means sneaky one. F41IW, F17IW, F32IW <b>Guam 28 1400SST 0 0 50K Flood</b>										
	Flooding occurred along Marine Drive in Piti. Debris from Typhoon Chataan clogged the Masso and Taguag rivers. Heavy rain from showers moving along the monsoon trough flowed down the debris clogged river and this flooded the village. Both northbound lanes on Marine Drive near Polaris Point had to be closed for more than an hour due to the flood. One house in Piti had six inches of water inside it.										

St	tori	n Data	and	Unus	ual W	eat	ther Phen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Persons Killed In		Estimated Damage Property Crops	Character of Storm	August 200
			Add	litions	Corre	ctio	<u>ons</u>		
COLORADO, Central	and	Northeast							
Jefferson County 1 S Evergreen	29	1350MST			0	0		Hail (1.00)	
Douglas County 2 NE Parker	29	1405MST 1419MST	0.1	50	0	0	100K	Tornado (F0)	
							n briefly near E-470 a sustained minor roof	and South Jordan Road.	Some fences wer
Arapahoe County 3 E (Apa)Englwood Ara		1411MST 1430MST	0.1	50	0	1	6M	Tornado (F1)	
	Road. been s	econd tornado, a Four large cor sheet rocked.	ndominiums Adjacent sect	under constru ions, where	uction were des the walls were	stroyed in pla	d. The most heavily of ace, were not destroy	nder construction at Gar lamaged portions of the ed. A man suffered fo orn apart by the tornado.	structures had no ur broken ribs an
Weld County 5 SW Prospect	29	1426MST			0	0		Hail (0.88)	
MICHIGAN, Upper Gogebic County 10 NE Marenisco	01	0445EST			0	0		Hail (0.75)	
	Three	quarter inch hai	il was reporte	ed.					
Houghton County Donken	01	0453EST			0	0		Thunderstorm Win	d (G61)
	A win	d gust to 70 mp	h brought do	wn trees acro	oss Highway 26	and k	nocked down electric	power and telephone lin	es.
Ontonagon County Ewen	01	0455EST			0	0		Thunderstorm Win	d (G60)
Gogebic County 3 E Wakefield	Winds 01	s to 65 mph blev 0500EST	w the roof of	a house.	0	0		Thunderstorm Win	d (G61)
		rous 6 inch diar	neter hardwo	od trees were	·	Ū			u (001)
Houghton County Dollar Bay	01	0500EST	neter hardwo	ou nees were	0	0		Thunderstorm Win	d (G52)
	Six in	ch diameter tree	s were blown	n down.					
Ontonagon County Bruce Crossing	01	0500EST			0	0		Thunderstorm Win	d (G52)
	Winds	s to 60 mph blev	v down nume	erous trees an	nd power lines.				
Houghton County Houghton	01	0503EST			0	0		Thunderstorm Win	d (G80)
W O I		rous trees and p camper trailer w			own, a metal ro	of wa	s peeled off a warehou	use, an empty semi-trail	er was overturned
Keweenaw County Eagle Harbor to Gay	01	0508EST 0519EST			0	0		Thunderstorm Win	d (G70)
	Trees	were downed at	Eagle Harbo	or, Lac La Be	elle, Copper Ha	rbor, C	Bay and Eagle River.		
Baraga County Covington	01	0518EST			0	0		Hail (1.00)	
	One in	nch hail was rep	orted.						

		Time Local/	Path Length	Path Width	Number Persons		Estimated Damage		August 200
Location	Date	Standard	(Miles)	(Yards)		, jured	Property Crops	Character of Storm	
			Add	ditions	/Corre	ctio	<u>ons</u>		
MICHIGAN, Upper Gogebic County 4 E Watersmeet	01	0527EST			0	0		Thunderstorm Wi	nd (G61)
Marquette County 7 W Marquette	A two 01	o foot diameter j 0555EST	pine tree was	blown down	across power li 0	nes. 0		Thunderstorm Wi	nd (G54) M
Marquette County Harvey	A 62 01	mph wind gust 0606EST	was recorded		0	0		Hail (0.75)	
Marquette County	Three	e quarter inch ha	ail was report	ed.	0	0			ad (C52)
Harvey Dickinson County	<b>01</b> A one	e foot diameter	tree was blow	n down acros	ss power lines.			Thunderstorm Wi	id (G52)
Granite Bluff Marquette County	01 Three	0635EST	ail was report	ed.	0	0		Hail (0.75)	
Watson	<b>01</b> Four :	0655EST	ranches were	broken off.	0	0		Thunderstorm Wi	nd (G60)
Luce County 20 N Newberry	<b>01</b> A 60	0700EST mph wind gust	broke off a 1	6 inch diame	0 ter tree branch	0 that fel	ll on a motor home.	Thunderstorm Wi	nd (G52)
Menominee County Hermansville	01 N	0710EST			0	0		Thunderstorm Wi	nd (G65)
Delta County Escanaba	Nume 01	orous trees were	e blown down		0	0		Hail (1.75)	
Delta County 4 E Bark River	Golf   <b>01</b>	ball sized hail w 0800EST	vas reported.		0	0		Hail (0.88)	
Delta County Escanaba	Nicke	el sized hail was 0839EST	s reported.		0	0		Flash Flood	
Marquette County	Heavy	1045EST y rain flooded th 0850EST	he intersection	n of US-2, M			foot of water.	Hail (0.75)	
Republic Gogebic County		e quarter inch ha	ail was report	ed.					
Watersmeet	<b>01</b> One i	1015EST nch hail was rej	ported.		0	0		Hail (1.00)	
Iron County 16 N Iron River	01	1130EST			0	0		Hail (1.50)	

	Stor	m Data	a and	Unus	ual W	eat	her Phen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Persor Killed I		Estimated Damage Property Crops	Character of Storm	August 2002
			Ad	ditions	s/Corre	ctio	<u>ons</u>		
<u>MICHIGAN, Upper</u> Iron County	:								
12 NE Amasa	01	1209EST			0	0		Hail (1.00)	
Gogebic County	-	er sized hail wa	as reported.		0	0		These Jacob XX/2	
7 SE Watersmeet	01	1254EST			0	0		Thunderstorm Wi	na (G05)
Iron County Amasa	Nume 01	erous trees were 1255EST	e blown dowr	1.	0	0		Thunderstorm Wi	nd (G70)
	Sever	al small trees w	vere snapped	off and 8 incl	n diameter brar	iches w	ere broken off.		
Iron County 18 NE Iron River	01	1256EST			0	0		Thunderstorm Wi	nd (G65)
Marquette County	A 1 fo	oot diameter tre	e was blown	down.					
Skandia	01	1300EST			0	0		Hail (1.00)	
	Quart	er sized hail wa	as reported.						
Alger County 3 E Wetmore	01	1437EST			0	0		Thunderstorm Wi	nd (G60)
Delta County	A 6 ir	nch diameter tre	ee was snappo	ed off.					
17 N Isabella	01	1450EST			0	0		Thunderstorm Wi	nd (G65)
	Nine	inch diameter ti	rees were blo	wn down.					
Delta County 18 NW Nahma	01	1450EST			0	0		Thunderstorm Wi	nd (G65)
Schoolcraft County	Nume	erous trees were	e blown dowr	1.					
Steuben	01	1452EST			0	0		Thunderstorm Wi	nd (G65)
	A one	e foor diameter	tree was blov	vn down.					
Luce County 15 N Newberry	01	1525EST			0	0		Thunderstorm Wi	nd (G60)
	Wides Ontar Thund day be torren and d rain t	io and its attenderstorms first derstorms first efore exiting Lutial flooding ra owned numeror	nunderstorms dant warm au developed in ace and Schoo ins. Wind gu us trees and j intersection	struck Upper ad cold fronts Upper Michi olcraft Counti asts estimated power lines. C of US-2, M	s interacted with igan during the ies late in the a as high as 80 Dne thundersto -35, and US-4	h a wa pre-da fternoo mph ne orm bon 1 with	Ist as a strong surface rm, moist and unstable awn hours over the we n. There were numero ear Houghton peeled a mbarded Escanaba with a foot of water. Ne ne.	e airmass over the nor est, then continued off pus reports of wind dar roof off a warehouse, h golf ball-sized hail a	thwest Great Lakes. and on through the nage, large hail, and overturned a truck, and dropped enough
PACIFIC Guam									
Guam Tamuning	22	1142SST 1338SST			0	0		Lightning	

Lightning reportedly struck the roof of the Oward Beach Resort in Tamuning. Smoke was seen rising from the roof. The Guam Fire Department responded, but there were no reports of injury or property damage.

		Time Local/	Path Length	Path Width		nber of rsons	Estim Dam			August 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

## **Additions/Corrections**

### **PACIFIC**

On the 30th a handful of Piti residents reported minor flooding in homes and backed-up sewage. Minor street flooding was also experienced across parts of Guam.

TEXAS, Mid - South	-				
San Patricio County					
Sinton to	14	1451CST	0	0	Flash Flood
St Paul		1615CST			
Nueces County					
Robstown to	14	1527CST	0	0	Flash Flood
Petronila		1700CST			
Nueces County					
Robstown to	14	1658CST	0	0	Flash Flood
Driscoll		1900CST			

		Time Local/	Path Length	Path	Numbe Perso		Estimated Damage	September 200
Location	Date	Standard	Length (Miles)	Width (Yards)		ns Injured	Property Crops	Character of Storm
			Add	litions	/Corre	ectio	ons	
AICHIGAN, Upper								
Dickinson County Iron Mtn	30	1500CST			0	0		Flash Flood
	A foo	1700CST of water was rep	ported over	highway US-2	2 from torren	tial rain		
Iron County 8 S Crystal Falls	30	1816EST			0	0		Hail (0.75)
	Three	e quarter inch dian	neter hail w	as reported.				
Dickinson County Kingsford to Iron Mtn	30	1911EST 1917EST	4.5	200	0	0	<b>7M</b>	Tornado (F1)
	the be storm east a trees	eginning portion moved east-north and the damage pa and power lines y	of this torn heast into K ath became were knock	ado) and cro ingsford and more sporadi ed down, bloo	ossed the Me Iron Mountai c before the t cking highwa	nominee n. As the ornado y US-2	e River just south of e storm moved into In lifted completely on t	sin, Northeastern, for more information of the Iron Mountain-Kingsford airport. The ron Mountain, the track shifted more to the the east side of Iron Mountain. Numero c power and telephone service. Gas lin sford.
Dickinson County Kingsford	30	1913EST		-	0	0		Thunderstorm Wind (G60)
	Powe	r lines were knocl	ked down.					
Dickinson County Iron Mtn	30	1918EST			0	0		Hail (0.75)
	Three	e quarter inch diar	neter hail w	as reported.				
Dickinson County Iron Mtn	30	1919EST			0	0		Thunderstorm Wind (G70)
Dickinson County	Nume	erous trees were k	nocked dow	/n.				
Quinnesec to 2 NW Norway	30	1919EST 1923EST	3	100	0	0		Tornado (F0)
	highv		orthwest of					east-southeast along the north side of the ifted shingles) in Quinnesec, trees downed
Dickinson County Quinnesec	30	1922EST			0	0		Thunderstorm Wind (G70)
	Nume	erous trees were k	nocked dow	'n.				
		1925EST	0.8	100	0	0		Tornado (F0)
Dickinson County 5 NE Norway to	30	1027707				of Nory		rway Truck Trail Road before dissipatin
	This						es and broken branch	es
5 NE Norway to 6 NE Norway	This	tornado touched o					es and broken branch	es. Thunderstorm Wind (G70)
5 NE Norway to 6 NE Norway Menominee County	This 1/4 m <b>30</b>	tornado touched c ile east of the roa	d crossing.	Damage was	limited to dov	wned tre	es and broken branch	
5 NE Norway to 6 NE Norway Menominee County 2.5 E La Branch	This 1/4 m <b>30</b>	tornado touched o iile east of the roa 1958EST	d crossing.	Damage was	limited to dov	wned tre	es and broken branch	
5 NE Norway to 6 NE Norway Menominee County 2.5 E La Branch Ontonagon County	This 1/4 m 30 A 10 30	tornado touched d iile east of the roa <b>1958EST</b> inch diameter tree	d crossing.	Damage was down.	limited to dov 0	wned tre 0	es and broken branch	Thunderstorm Wind (G70)

5	Stor	m Data	and	Unus	ual W	/eat	her Phen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Perse Killed		Estimated Damage Property Crops	Character of Storn	September 2002
			Add	litions	s/Corr	ectio	ons		
MICHIGAN, Upper PACIFIC		ron Mountain.							
Saipan Saipan Intl Airport	10	0929SST 0941SST			0	0		Funnel Cloud	
Guam	On th	e 10th a Funnel o	cloud was ob	oserved west	of the Saipan	Internat	ional Airport between	0929 and 0941	
Central Portion	11	1240SST 1244SST			0	0		Funnel Cloud	
Saipan	On th	e 11th a Funnel o	cloud was ob	served west	of the Guam	Internatio	onal Airport between	1240 and 1244	
Saipan Intl Airport	14	1513SST 1532SST			0	0		Funnel Cloud	
a <b>.</b>	On th	e 14th a Funnel o	cloud was ob	oserved west	of the Saipan	Internat	ional Airport between	1513 and 1532	
Saipan Countywide	15	1200SST 1400SST			0	0	12K	Flash Flood	
		nd noon time hea s Mahetog hill fi	•		<b>^</b>	ıks, vege	etation, rocks and all s	sorts of debris wash	ed down by water from
Guam Andersen Afb	18	1120SST 1140SST			0	0		Funnel Cloud	
GUZ007	On th <b>Saipa</b>		cloud was ob	oserved north	n of the Ander	sen Air l	Force Base around 11	20	
	20	0400SST 1600SST			0	0	40K	Flood	
	As L tempo	ito, Chalan Kiy	a, Chinatow	n, Garapan in Chinatov	, Tanapag, S	an Roqu	ie, Achugao, Capital	Hill and Kagmar	earby roads in Dandan, A few people were a big volume of water,
			fell at the N	WS office in	Guam with 2	2.43 inch	es falling between 04	00 to 1000.	
GUZ006	Guar 26	n 1000SST 1600SST			0	0	40K	Flood	
TEXAS, Mid - South	over t	nches fellon the he Maraiana Isla				0		0. Enhanced monso	on flow caused the rain
Jim Wells County	_								
Ben Bolt to Premont	<b>08</b> 17 mi	0854CST	0.5 urrias Torna	500 ado was asso	0 ociated with T	0 ropical F	Depression Fay. No d	Tornado (F0)	
Jim Wells County Ben Bolt	08	0946CST	0.6	600	0	0		Tornado (F0)	
	Torna	ido was associate	ed with Trop	ical Depress	ion Fay. No d	lamage r	eported.		
Bee County Beeville	<b>08</b> Multi	1406CST 1506CST ple funnels repor	0.5 ted nw of Be	500 eeville	0	0		Tornado (F0)	

	UII	n Data	and	Unus	ual W	eatl	her F	Phen	omena	
Location I	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Persons Killed In		Estima Dama Property		Character of Storm	September 2002

Multiple short lived tornadoes were spawned across the Coastal Bend from Tropical Depression Fay. In addition several reports of funnel clouds were received from law enforcement and the public.

## **Reference Notes:**

### **Storm Data Disclosure**

**Storm Data** is an official publication of the National Oceanic and Atmospheric Administration (NOAA) which documents the occurrence of storms and other significant weather phenomena having sufficient intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce. In addition, it is a partial record of other significant meteorological events, such as record maximum or minimum temperatures or precipitation that occurs in connection with another event.

Some of the information appearing in <u>Storm Data</u> may have been provided by or gathered from sources outside the National Weather Service (NWS), such as the media, law enforcement and/or other government agencies, private companies, individuals, etc. An effort is made to use the best available information, but because of time and resource constraints, information from these sources may be unverified by the NWS. Therefore, when using information from <u>Storm Data</u>, customers should be cautious as the NWS does not guarantee the accuracy or validity of the information. Further, when it is apparent information appearing in <u>Storm Data</u> originated from a source outside the National Weather Service (frequently credit is provided), <u>Storm Data</u> customers requiring additional information should contact that source directly. In most cases, NWS employees will not have the knowledge to respond to such requests. In cases of legal proceedings, under Department of Commerce regulations and/or rules of the court, NWS employees are not legally obligated to provide written or verbal testimony.

**Fatality Codes:** For events that include a fatality, there is a code containing the gender, age and fatality location at the end of the event narrative.

1<sup>st</sup> letter: Gender  $(M/F) - 2^{nd}$  numbers: Age  $- 3^{rd}$  letters Fatality location (see table below) Example: M51IW – Male, 51 years of age, fatality occurred In Water.

### **Fatality Location Abbreviations:**

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	ΤE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

#### **List of Acronyms:**

NWS	- National Weather Service					
NOAA	- National Oceanic and Atmospheric Administration					
WCM	- Warning Coordination Meteorologist – The meteorologist at each NWS Office					
	responsible for reporting s	severe weather events				
LST	- Local Standard Time	Storm Data attempts to always use "Standard Time"				
EST	- Eastern Standard Time					
EDT	- Eastern Daylight Time					

CST	- Central Standard Time
CDT	- Central Daylight Time
PST	- Pacific Standard Time
PDT	- Pacific Daylight Time

### **Other Notes:**

An "Episode" is an entire storm system and can contain many different types of events.

An "Event" is an individual type of storm event.

When listing wind speed values under "Character of Storm", ex. High Wind (G81), the G indicates a "Gust" which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph. This number can be either E (estimated) by damage caused, or M (measured) by known calibrated anemometers. Ex. (M61) = measured 61 knots or E(75) = estimated at 75 knots.

All wind speeds listed are estimated by NWS personnel by the amount and type of damage unless otherwise noted with an "M" which represents an actual wind speed as measured by official NWS approved anemometer.

When listing hail size under "Character of Storm", ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The fatalities, injuries, and damage amounts appearing in tropical cyclone events are attributed only to wind damage experienced in the coastal counties/parishes listed. Other tropical cyclone related events such as tornadoes and flooding are listed within their separate event types.

## The Saffir-Simpson Scale

### **Category One Hurricane:**

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

### **Category Two Hurricane:**

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

## **Category Three Hurricane:**

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large tress blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

## **Category Four Hurricane:**

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

### **Category Five Hurricane:**

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

## The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage (Suggested)
F0	Gale Tornado	40 - 72	Tree branches broken, chimneys damaged, shallow-rooted trees pushed over; sign boards damaged or destroyed, outbuildings and sheds destroyed
F1	Moderate	73 - 112	Roof surfaces peeled off, mobile homes pushed off foundations or overturned, moving autos pushed off the roads, garages may be destroyed.
			Category 1-2 hurricane wind speed
F2	Significant	113 - 157	Roofs blown off frame houses; mobile homes rolled and/or destroyed, train boxcars pushed over; large trees snapped or uprooted; airborn debris can cause damage.
			Category 3-4 hurricane wind speed
F3	Severe	158 - 206	Roofs and walls torn off well constructed houses; trains overturned; large trees uprooted, can knock down entire forest of trees.
			Category 5 hurricane wind speed
F4	Devastating	207 - 260	Well-constructed frame houses leveled; structures with weak foundations blown off some distance; automobiles thrown, large airborn objects can cause significant damage.
F5	Incredible	261 - 318	Brick, stone and cinderblock buildings destroyed, most debris is carried away by tornadic winds, large and heavy objects can be hurled in excess of 100 meters, trees debarked, asphalt peeled off of roads, steel reinforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the damage produced by F4 and F5 wind speeds that would surround the F6 winds.



**Typical F0 Tornado Damage** Note the trees are stripped of leaves, but the trees remain standing. Only light roof damage and a few missing shingles.



**Typical F1 Tornado Damage** Note the uprooted trees and missing shingles from the roof. There is significant roof damage.



**Typical F2 Tornado Damage** 

This home is missing it's entire roof but the exterior walls remain intact. Some of the stronger hardwood trees remain standing.



**Typical F4 Tornado Damage** This home is almost completely obliterated, with no walls standing. The debris from the home is where the house once stood.



**Typical F5 Tornado Damage** The asphalt surface has been peeled off of this road.

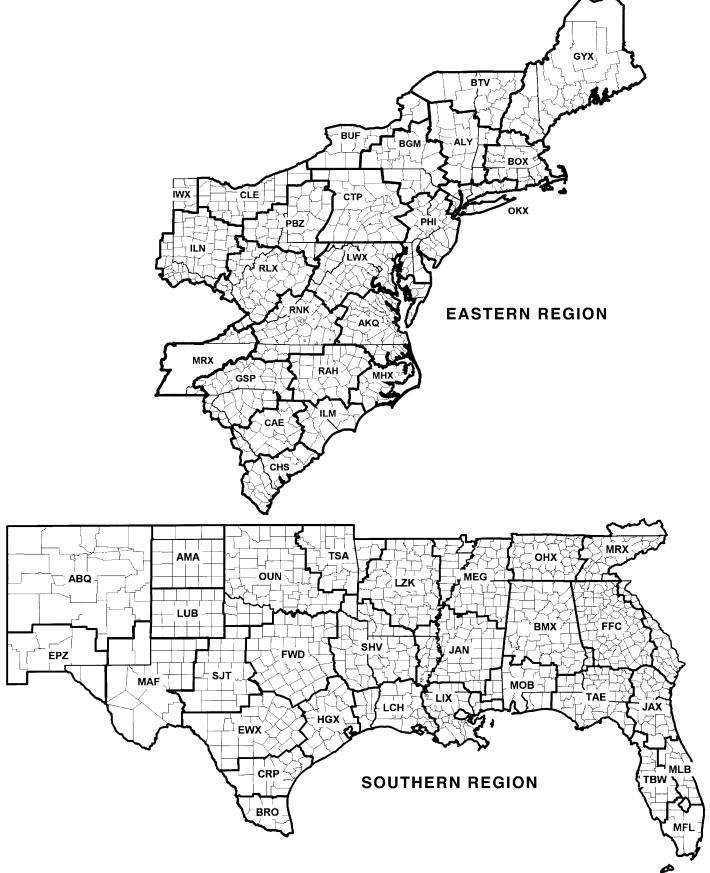


**Typical F3 Tornado Damage** This home is missing the entire roof as well as some of the exterior walls. Trees are blown over or snapped near the base and outbuildings are destroyed.

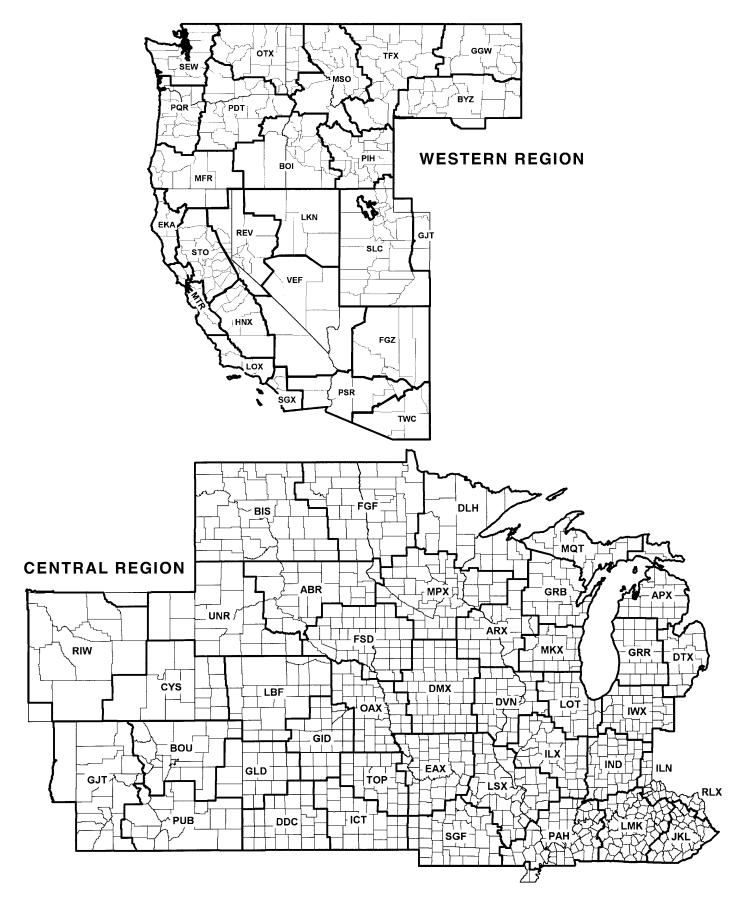


**Typical F5 Tornado Damage** These homes have been completely removed from their original locations. The debris field has been scattered some distance from their foundation.

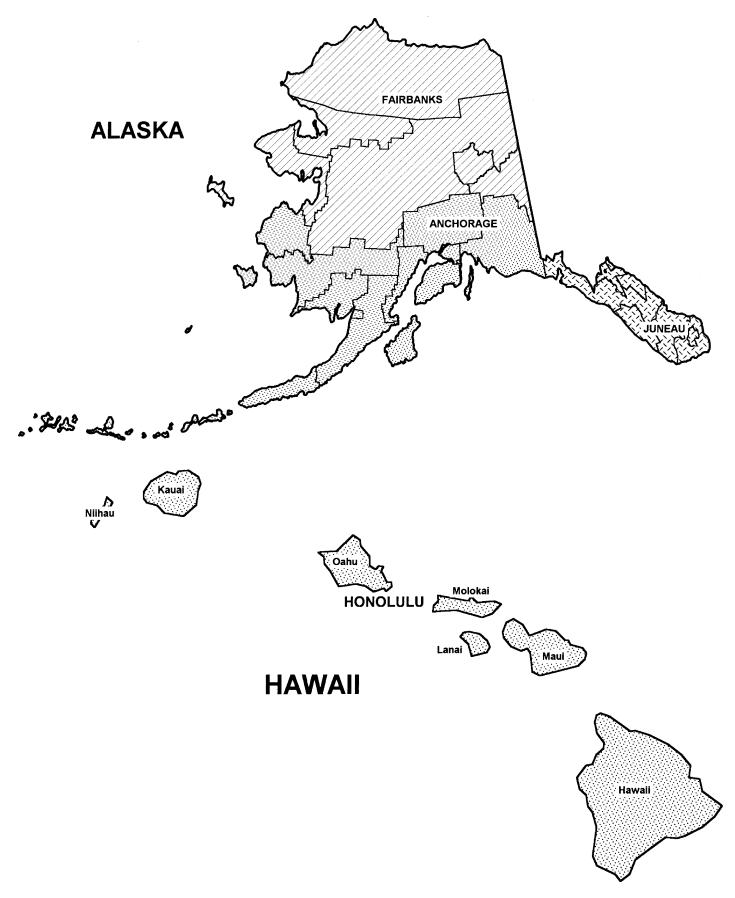
(All photographs courtesy of Brian Smith, Meteorologist, National Weather Service, Valley NE.) **COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS** 



## **COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS**



# **MODERNIZED COUNTY WARNING AREAS**



#### 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 hundredths 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** publications summarize temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for severalhundred cities in the U.S. and its territories. Each monthly publication also containes 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.

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