## **DECEMBER 2001 VOLUME 43** NUMBER 12



## AND UNUSUAL WEATHER PHENOMENA WITH LATE REPORTS AND CORRECTIONS





**NATIONAL OCEANIC AND** ATMOSPHERIC ADMINISTRATION NATIONAL ENVIRONMENTAL SATELL DATA AND INFORMATION SERVICE NATIONAL ENVIRONMENTAL SATELLITE,

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NC

**Cover:** Arkansas Highway 7 was under water at a railroad underpass in Arkadelphia (Clark County) on Dec 17, 2001. Flooding resulted from widespread heavy rains (three to five inches) over a 36-hour period across northern and western Arkansas. Numerous county roads were flooded or washed out. Homes and businesses also sustained damage from the floodwaters. (*Photo courtesy: John Robinson, WCM, Little Rock, AR.*)

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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.

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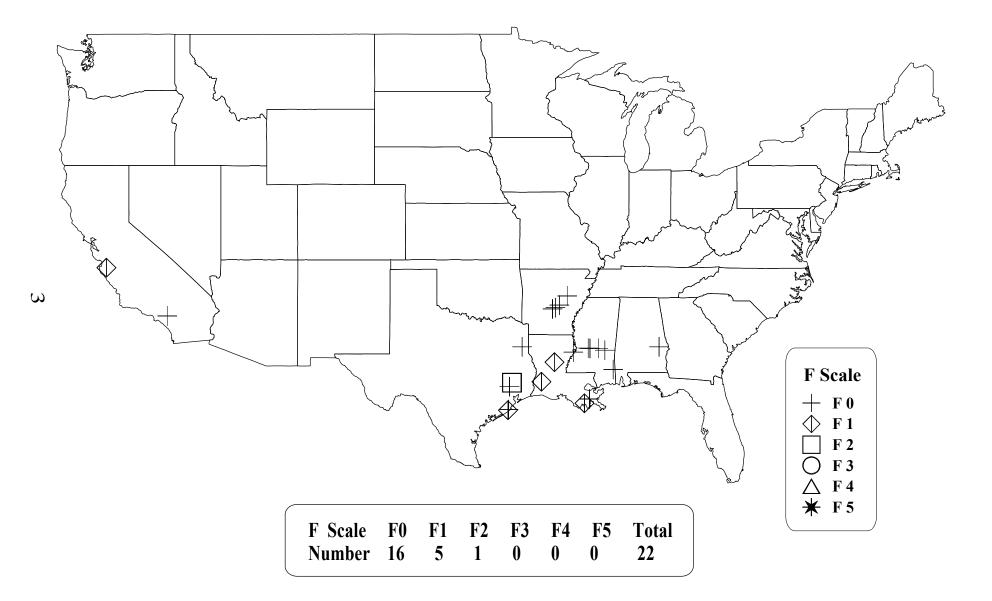
This is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center Asheville, North Carolina 28801-2733.

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Thomas R. Karl Director, National Climatic Data Center

# **December 2001 Confirmed Tornadoes**



**OUTSTANDING STORMS OF THE MONTH** 

## THERE IS NO

## **"OUTSTANDING STORM OF THE MONTH"**

## FOR THE MONTH OF DECEMBER 2001.

									omena	
		Time Local/	Path Length	Path Width	Numl Pers		Estimate Damag		]	December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	-	Crops	Character of Storm	
LABAMA, North	Central									
Elmore County										
.3 E Kent	home	was blown over	er and dama	ged. The torr	nado path wa	as very sl	nort, only abo	out one	<b>Tornado (F0)</b> ined moderate roof dam tenth of a mile. The g:32 37.285/85 56.566	
Tuscaloosa County										
3 N Northport									Thunderstorm Win wn off its foundation, a located just off SR 69.	
LABAMA, Southe	ast									
	NONI	E REPORTED.								
LABAMA, Southv										
Mobile County	vest									
Bucks	14	0045CST 0050CST			0	0	25K		Thunderstorm Win	d (G60)
									43 near Bucks. Slightl occurred.	y more significa
LASKA, Northern	<u> </u>									
AKZ223	Delta 20 21	na And Tana 0853AST 0853AST	ana		0	0			High Wind (G48)	М
AKZ214		on Delta								
	20 21	1255AST 2355AST			0	0			Blizzard	
	interio Basin	or of Alaska on and Canada, cr Blizzard condit	the morning eating a stron	of the 21st, a ng pressure g	nd weakened radient acros	l. A ridge s the Tana	e of High pres ana Valley, pr	sure ren oducing	prining of the 20th move nained fairly strong over strong winds in the De mph were reported at	er the Copper Riveltana-Tanana Fla
AKZ223-225	Delta	ina And Tana	ana - Dena	li						
	21 22	1545AST 0953AST			0	0			High Wind (G48)	М
	A 971 weake respor	mb Low in the ened to 982 mb.	. Strong sout iated occlude	heast winds of front moving	leveloped in ng north tow	the passe	s of the Alas	ka Rang	t to near Galena by Noo e as the pressure gradi usts to 55 mph were rep	ent strengthened
AKZ214	Yuko	on Delta								
	23	1455AST 1555AST			0	0			Blizzard	
					erior Alaska	, a large	storm over th	he centr	ral Aleutian chain drif	ted north, bringi
AKZ223	Delta 25	na And Tana 0953AST 1553AST	ana		0	0			High Wind (G48)	М
AKZ213	St La	wrence Is. B	ering Strai	it						
	25	1655AST	0		0	0			Blizzard	
	the 20 Deltar	6th, then to so na-Tanana Flats	outhwest Ala zone, and 1	aska on the noderate nor	afternoon o herly winds	f the 26t with blo	h. This cau wing snow to	ised stro develo	orthwest to Bristol Bay ong easterly winds to p through the Bering S ar the Bering Strait.	develop over t
AKZ214	Yuko	on Delta								
	29	2355AST			0	0			Blizzard	
	30	0755AST								

		Time	Path	Path	Number	of	Estim	ated		December 200
Location	Date	Local/ Standard	Length	Width	Person	ıs	Dam	age	Character of Storm	December 200
	Date	Standard	(Miles)	(Yards)	Killed I	njured	Property	Crops	Character of Storin	
ALASKA, Northern	over th	ne Chukotsk Pe	ninsula of Ri	ussia held it's n	lace This pro	duced bli	izzard con	ditions at	Cape Romanzof.	
ALASKA, Southeast	over u	ie enukolsk i e		issia nela it's p	lace. This pro	duced on		attions at	cupe Romanzon.	
AKZ025	Junea	au Borough-	Eastern Ch	nichagof-Adı	niralty Isla	nd				
	02 03	2100AST 0900AST		-	0	0	0	0	Heavy Snow	
			g forced over	colder air in I	Lynn Canal ca	aused ove	errunning s	snow to fa	ll over the northern p	portions of the Junea
	Borou	gh. A snowfall	report from a	a spotter at Pete	erson Creek r	eported 9	.4 inches i	n a 12 ho	ır period.	
AKZ027			ist Alaska l	Ernest Sound	d To Dixon 0	Entran 0	ce 0	0	High Wind (C50	М
	03	0700AST 1130AST			Ū	Ŭ	÷	0	High Wind (G56)	
		-	-	rough the area mph) were repo	-		outheast v	vinds to K	Eetchikan. Wind gusts	s from wind sensors
AKZ027-029			ist Alaska l	Ernest Sound						
	03 04	0715AST 0600AST			0	0	0	0	Heavy Snow	
								0	ow fall coupled with nnette (11"), also rep	001
		all was Hyder (		aring the day.	Storm shown	in totals t	nat were i	eponed A	iniette (11 <i>)</i> , also rep	orting significant nev
AKZ022	Cape	Fairweathe	r To Cape	Suckling-Co	astal Area					
	05	0915AST 1500AST			0	0	0	0	Heavy Snow	
									orthern Gulf of Alas snow had fallen by at	
AKZ024>025-029	North		anal - June	au Borough		hichago	f-Admir	alty Isla	nd - Misty Fjords	
	06 08	2130AST 0100AST			0	0	0	0	Heavy Snow	
	signifi reporte	cant snow falls	The heavie for their clir	r snows were l	imited to the o	colder int	erior valle	y location	er channels of South s where the cold air v er had 17" and the Cu	vas not eroded. Hyde
AKZ024	North	iern Lynn C	anal							
	07 08	0800AST 1600AST			0	0	4K	0	Avalanche	
	A min	or avalanche r	-	the release of uppendix and the training the second s			-		blocked the Haines H	Highway for about 2
AKZ024>025				au Borough					nd	
	09	0800AST		an Dorouga	0	0	0	0	Heavy Snow	
				in Lynn Canal and a report o			valleys re	sulted in s	snow over the area.	Canyon Island on th
AKZ022	Саре	Fairweathe	r To Cape S	Suckling-Co	astal Area					
	10	2340AST 0525AST	•	8	0	0	0	0	Ice Storm	
			•	near the surface	e in Yakutat v	vas freezi	ng upon t	he surface	s. Minor accumulatio	ns estimated at a thi
AKZ027	South	ern Southea	ıst Alaska l	Ernest Sound	d To Dixon	Entran	ce			
	18	0300AST 0900AST			0	0	0	0	Heavy Snow	
		d of moist air a		ow across much d at least 6" of		Southeas	t Alaska. A	Annette Is	land reported 14", Ho	ollis reported 10", and
AKZ022			-	Suckling-Co						
	20	0515AST 1540AST	•	3	0	0	0	0	Heavy Snow	

		Time Local/	Path Length	Path Width	Numl Pers		Estim Dam			December 20		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm			
LASKA, Southeas	<u>t</u>											
AKZ022	Саре	e Fairweather	r To Cape	Suckling-C	oastal Area							
	20	0900AST 1700AST			0	0	0	0	High Wind (G63	) <sup>M</sup>		
		orous pacific sto							inds to the northeast vind gust of 73 mph.	gulf coast of the sta		
AKZ024	Nort	hern Lynn C	anal									
	22 23	0000AST 1600AST			0	0	4K	0	Avalanche			
	A rele						eached and c	overed th	e road to a between	19 and 20 mile on		
AKZ027>028	Sout	hern Southea	st Alaska l	Ernest Sour	nd To Dixo	n Entra	ance - Dixo	n Entra	nce To Cape Deci	ision-Coastal Aı		
	23 24	1715AST 1030AST			0	0	15K	0	High Wind (G81	) <sup>M</sup>		
	hours. mph v mph.	A second porti was recorded in	on of the from Craig near r	nt came close nidnight, Cap	e enough to in the Decision h	crease th ad 65 m	he winds aga ph, Hydabur	in along t g had 64	usty winds to that ar he outer coast overni- mph, and Ketchikar hed, crushed some sta	ght. A peak gust of terminal roof had		
AKZ024	Nort 23	hern Lynn C 2300AST	anal		0	0	0	0	Heavy Snow			
	moder		now. Snowfa	ll amounts at	the Haines (			0	trapped in northern I rnight and Skagway	· 1		
AKZ025	June 24	au Borough-] 0630AST 0940AST	Eastern Cl	nichagof-Ad	lmiralty Is 0	land 0	0	0	High Wind (G60	) м		
	report	g gusty winds a	nd event wa	is 69 mph a	t the Juneau	Ranger			portion of the panha th of Juneau reported			
LASKA, Southern	<u>l</u>											
AKZ135		P.W. Snd			0					,		
	01 02	0000AST 0500AST			0	0			High Wind (G80	)		
	Strong winds	g and cold high into the Gulf	of Alaska.	A compute	rized wind	study, d	eveloped ye	ars ago,	roduced very strong, satellite imagery, M ould be ripe for the str	iddleton Island rad		
AKZ191		tern Aleutian	s		0	0				× M		
	02	0356AST 1600AST			0	0			High Wind (G61	) <sup>M</sup>		
						Friday a	nd Saturday.	The from	nt elongated north an	d eastcrossing A		
		north of Saint F	0.	0			U		Chignik, along the A o about 250 miles no			
		By Monday morning, the original low had split into two centersone near the Bering Sea buoy (46035) and the other 250 miles not of Attu. Both lows had weakened considerably by this time and were no longer producing warning level wind conditions.										
		At Shemya - "back side of low" winds were west southwest peaking at 70 mph between 8:30 am and 9:00 am and also between 9: am and 9:56 am Saturday, 12/01/01.										
	At Ad	lak pre-frontal	easterly win	ds Tuesdav r	eached 62 m	nh hetw	een 2:00 am	and 3.00	am AST. Warning	level wind conditi		

At Adak, pre-frontal easterly winds Tuesday reached 62 mph between 2:00 am and 3:00 am AST. Warning level wind conditions there lasted from 2:00 am AST through 4:00 am AST. Heavy rains were also reported at the site. Adak remained just under area high wind levels (59 mph) on the back side of the low Saturday.

		Time Local/	Path Length	Path Width	Number Persons	8	Estimated Damage		ecember 200
Location	Date	Standard	(Miles)	(Yards)	Killed In	jured	Property Crops	Character of Storm	
LASKA, Southern									
AKZ125	Wrn 03	P.W. Snd & 1000AST 1700AST	Kenai Mtr	18	0	0		High Wind (G54) <sup>M</sup>	
	reachi contra	ow" westerly w ng 52 mph, we ct observer whe	re reported and the rep	also on the 'o vinds, remote	fficial' Whittien d from the Wh	r observ ittier Ha	ation during this tim arbor building, for b	Monday midday. Gusty e. Whittier observations rief periods during the hoses not record peak condi-	are taken by our. There is not
	In this	case, cold "out	flow" winds	were likely st	ronger at the he	ead of th	e bayrather than at	the boat harbor.	
AKZ185-191-195	Easte 04	ern Aleutians 0200AST 2100AST	- Western	Aleutians -	Pribilof Isla 0	nds 0		High Wind (G54) <sup>M</sup>	
	morni		y afternoon,	the low began	to curve west	and slov	wly weaken. By Wee	20 miles south of Amch Inesday morning, the cen	
	Dutch observ	Harbor and so vations at Adak	outheast late and also at	Tuesday. P Dutch Harbor	refrontal east a (the airport).	und sout Initially	theast winds just rea	ing in a large arc from ju uched warning levels acc afternoon and Monday ni 8 to 69 mph.	ording to spars
	Dutch At Sh contin	emya, westerly uing modem pr	recorded an winds were oblems).	easterly gust ( e estimated a	50 mph between t 60+ mph We	n 5:00 p ednesda	m and 5:30 pm Tues y on the south side	day (just prior to frontal p of low (missing observ :00 pm - 9:00 pm AST To	ations again du
AKZ125	Wrn 06	P.W. Snd & 0200AST	Kenai Mtr	18	0	0		Blizzard	
	contra	ct observer reco	orded visibil	ities as low as	1/4 mile on no	early ev	ery observation durir	he Whittier area. Obser ag the 12 hour period. R ent on the Whittier obser	eported winds o
	-	ed were less that		*			•	ifting and blowing snow ea on the west side. He r	
	The ha	arbormaster rep	orted visibili	ties so low sh	e could not see	the hart	oor office from her bo	oat in the small boat harbo	or.
AKZ171	Kodi 08	ak Peninsula 0000AST 2359AST			1	1		Blizzard	
	was m	Coast Guard cre hade from the A teout conditions	laska State T	Troopers just a	fter midnight S	aturday		v strong winds". A reque ed a night search, but had th crewmen.	
AKZ135	Sern 12	P.W. Snd 0000AST 2359AST			1	1		Avalanche	
	Cordo buried	snowfall and ap va area. One s l. One person v day morning. T	nowmachine as dug out a	e became stuc	k, two individu The body of th	als atterne other,	mpted to dig it out. Donovan J. Lee, 37,	people were out on snov An avalanche quickly en was recovered from und	sued. Two wer
AKZ125		P.W. Snd & 1032AST	Kenai Mtr	18	0	0		Blizzard	
AKZ171	Kodi	2300AST ak Peninsula							

Location	Data	Time Local/ Standard	Path Length (Miles)	Path Width (Vards)	Numb Perse Killed	ons	Estin Dam Property	nage	Character of Storm	December 2001	
Location	Date	Stanuaru	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
<u>ALASKA, Southern</u>		pening low in the cold arctic air s			-	-		inds to par	rts of Kodiak Island.	This same low also	
	mile w Worst	vere reported by	the Seward orted at the S	ASOShowe	ever lower v	isibilities	and whited	out conditi	l area Saturday. Visi ons were phoned in b due to heavy snowa	by the Seward police.	
	was a		Seward poli	ce reported 6	"-12" of nev				orded snowfall from t ass accumulations rea		
	Northy		reached 81	mph at Sitkin		•			(sland) that reached dications are that crit	-	
AKZ181-185-191-195	Alask 19 20	xa Peninsula 0200AST 0400AST	- Eastern A	Aleutians - V	Vestern Al 0	leutians 0	- Pribilof	f Islands	High Wind (G62)	М	
AKZ171	Kodi: 19 20	ak Peninsula 1600AST 0600AST			0	0			Winter Storm		
	Tuesda into K reache	ay. As the stor odiak Island.	m continued The storm n Is at many ar	to develop ar noved across eas, accompar	id move east Kodiak Islan hied by blizz	t, its effe nd Wedn ard cond	cts spread f esday after itions in sno	rom the A noon and	ed up the Aleutian Ch leutians through the a into Wednesday nigh owing snow. Winds a	Alaska Peninsula and t. Pre-frontal winds	
	171 - Near blizzard conditions were reported at Chignik Wednesday afternoon and into Wednesday evening. Blizzard condition were likely in several areas of Kodiak Island itself from late Wednesday afternoon through early Thursday. Peak winds likely reache the 60 mph warning level somewhere on the Island. Snowfall at the Kodiak observing site reached 8.4 inches in a 12 hour period tad over warning thresholds for the area.										
	191 - Blizzard conditions appear reached across the western Aleutians. Shemya ASOS reports used. On the back side of the low wind gusts reached 71 mph from the north at Atka around 0835 AST Wednesday. Visibilities of 1/4 mile were reported after 4:1 am ASTwith the visibility sensor inoperable during the event thereafter. Actual warning level north winds at Atka were very brief.										
	195 - High Wind criteria were met at Saint George, but not at Saint Paul, according to the ASOS reports. Visibilities reached at let 1/4 mile in snow and blowing snow (mostly blowing snow) at Saint Paul earlier in the day. Only 1 inch of new snow was report from Wednesday night through Thursday morning.										
	observ On the	ation). Visibili	ties of 1/4 m he low, north	nile reported b nwest wind gu	y AWOS. 0 ists peaked a	Condition	ns improved	l with from	frontal easterlies (no ttal passage just prior tursday. Strong north	to noon Wednesday.	
	en 9 pm and 10				y. At Kodiak, peak w						
	Pre-fro likely 195 - northw 181 - likely 185 - l	ontal conditions reached there d Pre-frontal nor vest winds close Just north of th reached close to Peak easterly w	there indica uring the eve th northeast to 60 mph v e arctic front o 65 mph. inds at the D	ted heavy sno nt. 71 mph no winds at St. vere also report e, east northea	whowever rth winds wo George read rted early Th st winds rea	snowfal ere report ched 62 nursday a ched 54 ed 70 mp	l amounts a ted at Atka mph betwe s the low m mph at the h around 9	are unavail on the bac on 3 pm oved to the Cold Bay	nph on the back side lable at the site. Bliz k side of the storm. and 6 pm AST Wed e east. ASOS indicating co esday. Visibilities of	zard conditions were Inesday. Gusty north onditions peak winds	
AKZ101		ent from around orage Muni ' 0000AST			10011 AST W	eunesua	у.				

ALASKA, Southern													
	Municipality Thursday. Winds diminished below warning levels by 2 pm AST Thursday after frontal passage.												
	Munici	ipality Thursday	y. Winds dir	ninished belo	w warning lev	els by 2	pm AST Thursday af	ter frontal passage.					
	Glen A Portage Alyesk Thursd Further	e ASOS easterl a Ski Resort r ay, Max's Mou	y gust of 79 r eported gusts ntain recorde southern Co	mph between s of 80 mph ed 104 mph (j ok Inlet, Au	4:53 am and 5 at 2300' and 3 peak for the ev gustine Island	5:53 am 87 mph ent). C-Mar	ht and 1 am AST Thu AST Thursday. at 3300' around 9:30 observed peak wind	) am AST Thursday.	•				
AKZ125	20	P.W. Snd & 1 0000AST	Kenai Mtn	S	0	0		High Wind (G96)	м				
AKZ131	21 Nern 20	0500AST P.W. Snd 1200AST			0	0		Winter Storm					
	A stror exposu	• • • •	ching the are	ea was preced	ded by locally	strong	easterly winds and he	avy precipitation alor	ng east and southeast				
	•						Sound, along the war Thompson Pass also.	ning level winds and	local blizzards. Poor				
	Calls F Heavy 2 - 6 in 13 - 19 At Coc evening	Friday to DOT r snow and white the of snow v inches of snow oper Landing, h g.	evealed that eout conditio were reported were report heavy snow a	they "were to ns were repo- around Sewa ed at Alyeska and whiteout	o busy cleanin rted in Moose l ard. a. conditions wit	g up the Pass Th h high	rsday, with occasiona e mess to give a report ursday late morning th winds were reported f OT in Thompson Pass	". 1rough afternoon. rom Thursday morni	-				
AKZ181	Alask	a Peninsula											
	20 21	0930AST 0100AST			0	0		Blizzard					
	A large central	e low deepened	estimated at 9	952 mbs. Gus		•	rning, moving up the st winds on back side		-				
		maxima vest wind gusts	of 44 mph, t	emperature 2	6, visibility 1/4	1 mile a	t Cold Bay (ASOS) a	ound 1200 AST Thu.					
AKZ111	Matai 20	nuska Valley 1200AST 1500AST			0	0		Winter Storm					
		ntal, arctic air	-	•			ortions of the Matanus e met and likely existe	• •	**				
	At Pal	maxima mer ASOS, 1/ ay. Peak wind					o) northerly gusts 35 r.	mph between noon	and 12:53 pm AST				
AKZ121-125	Kenai 21	i Peninsula - 1600AST	Wrn P.W.	Snd & Ke	nai Mtns 0	0		High Wind (G76)	М				
	22	1200AST											

A strong 978 mb low 600 miles south of the Kenai Peninsula Friday morning, intensified to 970 mbs and moved across Homer early Saturday, weakening north northwest into the Alaskan interior thereafter.

#### Storm Data and Unusual Weather Phenomena Time Path Path Number of Estimated December 2001 Local/ Length Width Persons Damage Killed Location Date Standard (Miles) (Yards) Injured Property Crops Character of Storm ALASKA, Southern storm Homer Electric reported several thousand homes across the Kenai Peninsula cut off from electric power Friday night and Saturday. By Monday evening, with temperatures close to zero, pipes in some homes were in danger of freezing. According to utility officials and several residents..."it was the worst combination of extensive outages and cold weather in recent memory". Around the Kachemak Bay and southeast Cook Inlet area, the winds and heavy snow knocked down hundreds of trees...taking power lines down with them. Ten workers from Chugach Electric Association were dispatched to help 16 Homer Electric Association lineman repair the lines Saturday. Major problems were reported along North Fork Road near Anchor Point, with homes near Soldotna and Seldovia also affected. Six days later, an emergency shelter was set up by the American Red Cross at the Homer Middle School to help about 16 people. On Thursday, about 150 homes were still without power, mostly those on the North Fork Road between Homer and Anchor Point. It was also reported that about a dozen or so families had been staying at Homer motels, courtesy of the Red Cross. Along the North Fork Road, powerful winds tore a roof off a deck and peeled back the metal roofing from the home. Event maxima... 125 - Seward ASOS peak southeast 67 mph 2:53 am AST Sat. Alyeska peak 88 mph Max's Mountain 0200 AST Sat. Portage ASOS peak 82 mph 1:53 am to 2:37 am AST Sat. 131 - Valdez reported peak east wind 31 mph 1:00 am AST Sat...indicating stronger winds in Thompson Pass. Heavy snow was reported in Thompson Pass (17 inches). 121 - "Winds up to 80 mph" reported by Joe Gallagher of Homer Electric Association. **AKZ101 Anchorage Muni To Bird Creek** 22 0200AST 0 0 High Wind (G61) 0900AST A strong 970 mb low near Homer at 3 am Saturday moved north northwest into the Alaskan interior and began to weaken later in the day. Strong southeast winds were observed in parts of Anchorage with the system. Very strong pressure rises accompanied passage of the storm. Again, Glen Alps handar observations were missing in the database, due to faulty modem. A call to the system via phone between 7 am and 8 am Saturday picked up gusts of 64 mph. Undoubtedly, stronger winds hit the area earlier, estimated at least 70 mph. This was the same storm that produced reported 80 mph winds around Homer. Event maxima... At least 64 mph from the southeast between 7:00 am and 8:00 am AST Saturday, 12/22/01. AKZ185-191-195 Eastern Aleutians - Western Aleutians - Pribilof Islands 0300AST High Wind (G78) M 23 0 0 24 1800AST **AKZ181** Alaska Peninsula 1200AST 0 0 Winter Storm 23 24 1600AST A strong north Pacific front, moving east and northeast across the Aleutians, was preceded by warning level east and southeast winds across the Aleutians, Pribilofs and Alaska Peninsula late Saturday through Monday morning. The parent low moved to just south of Adak with a 936 mb center Sunday afternoon, beginning to weaken 120 miles south of Umnak Island late Monday. Strong northwesterly winds were observed on the back side of the storm. 181 - Visibilities at Cold Bay were frequently 1/4 mile in heavy snow and blowing snow. By late Monday, the front had weakened enough to improve conditions. Reported conditions at Sand Point were not as bad, due to protected location of the AWOS. 185 - At Dutch Harbor, winds quickly hit warning levels around noon Sunday. Visibilities as low as 1/4 mile were reported frequently from noon to midnight Sunday. Conditions rapidly improved early Monday afternoon. Frontal passage was around 1 am Monday, however observer reported pre-frontal winds reached at least 90 mph from the east southeast Sunday evening. 191 - Adak reported pre-frontal winds of 60 mph Sunday morning at 3 am, peaking at 64 mph a few hours later at 5 am. Atka peaked at 68 mph at 4 am Sunday.

195 - Pribilofs experienced both wind and snow, reaching blizzard conditions at times. High winds were recorded from 4:53 pm Sunday through 5 am Monday. No reports on snowfall for the period. Worst visibilities reached 1/4 mile in blowing snow for several hours Monday afternoon and into Monday evening.

		Time Local/	Path Length	Path Width	Number Person	s	Estimated Damage	~	December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed II	njured	Property Crops	s Character of Storn	I
<u>ALASKA, Southern</u>									
	181 - S 185 - H 191 - H	maxima Southeast gust 5 East southeast g Peak winds reac 59 mph gusts ac	gust 90 mph : ched 68 mph	at Dutch Harb at Atka 4 am	or airport 6:30 AST Sunday.	pm - 8	24/01 :15 pm AST Sunda	ıy.	
AKZ121		i Peninsula							
	Palmer riders, let loo avalan packed	r Creek Road n according to S ose. The avalan che beacon. Th	ear the old S tate trooper in the buried the searchers st 30 minutes	wetmann Mir eports. A frie Foster. Fran used probe po s had elapsed	ne Sunday. So end, Bobby Fra kson went for les to identify	metime inkson, help. his pre	e after 1 p.m., Foste was below him wh Snowmachiners fo cise location, and d	r, 35, headed up a slo nen the snowpack on t bund foster through a ug Foster out from ab	ach National Forest off pe above the rest of the he side of the mountain signal emitted by his but 3.5 to 4 feet of hard who became the third
	the sno that fo In bety messag	owpack especia rmed during th ween are thin 1 ge from a priva produced televi	lly unstable, e cold period layers of sur te avalanche	according to ls. Above tha face hoarfrost group regard	avalanche expe at is heavier, de and ice. Fore ng avalanche c	erts. Or enser sr casts a classes	n the bottom is a lat now that fell during dequately reflected at the beginning of	yer of very weak suga the warmer periods, weather that develop	varm' storms, has made ry snow (faceted snow) and wind packed snow. ed across the area. A t on "Alaska Weather",
AKZ145	Susitı 24	na Valley 1200AST			1	0	0.50K	Avalanche	
	afterno had alı	oonexact deta ready succumbe TION: 20 n	ils are curren ed to his inju	ntly unavailab ries.	le. He was loo	cated v	•	acon within 18 minute	e sometime during the es of the avalanche, but
AKZ121	Kena 25 26	i Peninsula 0300AST 2100AST			0	0		Winter Storm	
AKZ101-125-135			To Bird C	reek - Wrn	P.W. Snd & 0	Kena 0	i Mtns - Sern P.	W. Snd High Wind (G9	3) <sup>M</sup>
	Wedne	esday, finally e	xtending fror	n the northern	Susitna Valley	y, north	•	Sound to near Cape Y	wly north Tuesday and akataga early Thursday
	125 - H Alyesk Winds Heavy roads a 101 - H respon	and urban flood Moderate freezi	k winds of 99 0 mph from I otal 3.47") av ling. The ex- ing rain in A or crashes an	9 mph at 3300 Bird Point to 0 t Seward. Pol mayor reporte nchorage/Eag d 12 vehicles	9:15 am AST Girdwood. ice reported he d a flooded bas le River area. in distress alor	eavy ra sement Motori	in all morningwi ists were advised no	ot to travel unless nec	sing standing water on essary Tuesday. Police ne involved overturned
	125 - A Portag Seward Moose 135 - C	e - east gust 81 d - another 5" ra Pass - Water u Cordova city es	rain at the b mph 7:53 an ain, bringing p to the runn timated 65+	n AST. total rainfall ning boards or mph around 1	close to 9" for t a semis in the a 0 pm AST.	the two irea.	uk winds 107 mph o o day period. nes of rain in 24 hou	-	

		Time	Path	Path	Numb		Estin		December 2001
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perse Killed	ons Injured	Dam Property	age Crops	Character of Storm
ALASKA, Southern									
		/01 - Thursday Glen Alps record	ded southeas	t gust of 68 n	ıph.				
	conce Anche condi Kenai "Drive ditch.	Freezing rain re ern to Homer of or Point, accordi tions and avalan i Peninsula were ers crept along l	ficials. 169 ng to Homen Iche danger on the Sterl nighways at	9 households Electric Asso in the Turnag ing Highway speeds that v	were witho ociation. Roa gain and Sur around Coop yould embarr	ut powe ds were nmit Pa er Land ass som	er for more reported bac sses of the s ing, outside e joggers, au	than two l in Soldot Seward H Sterling an nd some s	with rain runoff and icy side roads were a hours Wednesday between Ninilchik and tna. Alaska State troopers reported blizzard ighway. Worst driving conditions on the nd in Kasilof. According to a news report, till said they couldn't help nosing into the y snows, in excess of 2', were reported at
	125 -	Alyeska closed a	at least for a	day.					
AKZ185	27	ern Aleutians 0800AST 1500AST			0	0			High Wind (G56) M
		all, arctic airmas south of Sand Pe	•		Harbor at 3	pm Weo	lnesday, mov	ved southe	east and merged with a 978 mb center 300
	obser Visibi began	vations, which i ilities, however, a again augmenti atomated system	incorporate disappeared ing AWOS of	additional wi from the A observations a	nd informati WOS observ at 7:35 am Tl	on, the ations a nursday,	the was no d fter the 1:1 immediatel	lirect indie 5 am obse y appendie	ft for the evening. Without the augmented cation of how strong winds really were. ervation Thursday morning. The observer ng wind gusts, close to 20 mph more than am that morning, finally decreasing later in
AKZ185	East 28	ern Aleutians 0935AST 1130AST			0	0			High Wind (G70) <sup>M</sup>
	winds This	ctic airmass low	low just h	appened to p	ass a report	ing stat	ionagain s	howing th	anied by another round of strong northerly he potential for strong winds from these port.
AKZ125-135	Wrn 31	P.W. Snd & 1 2000AST	Kenai Mtn	as - Sern P.V	W. Snd 0	0			High Wind (G56) <sup>M</sup>
	Estim	2359AST derate front, app ated gusts of 60 at the Portage A	mph blew ar	ound Cordov	a for several	hours w	ith the fronta	•	locally strong easterly winds.
AMERICAN SAMO	<u>A</u>								
Countywide	03 07	0900SST 0300SST			0	0	200K		High Surf Advisory
	High cost a make were	surf generated b bout \$200,000.0 permament fixu	0 to constru tre to the ro	ct. This acce ad damage by th shores of th	ss road was y lad slide ca	construction sued the	ted to diverted to heavy	t traffic to showers i	nporary access road at Avau Point which allow the Department of Public Works to n November. The exceptionally high surf reported besides debris being washed onto
Tutuila									
Countywide	25 26	2345SST 2000SST			0	0			Urban/Sml Stream Fld
Manu'A									
Countywide	26	0000SST 2300SST			0	0	<b>.</b>		Urban/Sml Stream Fld
									s to the north of Samoa through the last 10

An active trough of low pressure was oriented northwest to southeast about 200-500 miles to the north of Santoa through the last to days. Various tropical systems developed within this rough, with the first of these tropical depression began spreading showers over the territory on Christmas day with heavier showers arriving on the 26th. The thunderstorms with heavy showers caused flooding of streams. The overflow streams and heavy runoff flooded roads and low lying areas across the territory. Total rainfall from this

		Time Local/	Path Length	Path Width	Number Person		Estima Dama		December 20
Location	Date	Standard	(Miles)	(Yards)		njured	Property	Crops	Character of Storm
AMERICAN SAMO									
	tropica	al depression wa	as 3.61 inche	es with 2.79 ir	ches, falling or	n Wedr	nesday, Decer	mber 26,	2001.
Tutuila Countywide	26	1800SST			0	0			High Surf Advisory
	0	0000SST surf generated b from the west a		•		0		f the terri	tory Saturday evening. The high surf th
ASZ002>003		ila - Manu'A			0	0	5017	701/	TI:-L W/:-J
	29 31	0600SST 1500SST			0	0	50K	70K	High Wind
	nearly hurrica peak g home	stationary for t ane on Saturday gust recorded at	two days bet afternoon. the Weather aged when a	fore it became TC Waka's cl Station was tree fell on i	e Tropical Cyc osest point to A 56 mph, at 12:3	lone W America 30 am N	Vaka at 7 PM an Samoa wa Monday. Th	Friday, 1 s about 2 e \$50,000	n the 26th of December, 2001, remain December 28, 2001. TC Waka becam 50 miles on Sunday morning. The high 0.00 property damage was due mainly t tree was estimated at about \$70,000.00
ARIZONA, Central						_			
AZZ008-015>016-018	Yava 04	pai County N 0700MST	lountains	- Western I	Mogollon Rii 0	m - Ea 0	istern Mog	ollon Ri	im - Northern Gila County Heavy Snow
	the Mathematic	ogollon Rim m	ainly south nont, Flagst	and southeast aff, Hart Pra	of Flagstaff.	The gr	eatest storm Creek each h	total amo ad 7 inch	The heaviest snowfall amounts were ount was 13 inches in Happy Jack. Ot es; Crown King 6 inches, Forest Lake nches.
ARIZONA, Northwe	est								
	NONE	E REPORTED.							
ARIZONA, South									
AZZ035	Coch 11	ise County 0800MST			0	0	0	0	Heavy Snow
	12	1545MST	ed 4 inches o	of snow. Ton					f snow, and Mescal received 1.5 inches
AZZ034	Santa	a Cruz Count	у						
	11 12	0800MST 1545MST			0	0	0	0	Heavy Snow
			4 inches of	snow, while F	tio Rico receive	ed 3 inc	ches and Son	oita receiv	ved 4 inches of snow.
AZZ033		on Metro/Ma	rana/Gree	en Valley	0		<u>^</u>	0	<b></b>
	11 13	0800MST 0800MST			0	0	0	0	Heavy Snow
	event of hea	on the 11th thro	ough the 12th ridges in the	h. On the more Tucson met	rning of the 13 ro area. These	th, the	re were over res were due	30 traffic	received only 1 inch of snow through accidents and over a dozen road closu and black ice that had formed overnig
AZZ029		heast Pinal C	ounty						
	11 12 Oracle	0800MST 1545MST e received 4 to 6	inches of sr	now. Highwa	0 y 77 was quick	0 ly cove	0 ered with ice v	0 which ma	Heavy Snow de travel difficult on the 11th.
AZZ019	Nortl	hern Greenle	e						
	11 12	0800MST 1545MST			0	0	0	0	Heavy Snow
	Hanna This le over tl throug	ngan Meadow re ow pressure sys he Gulf of Alas th all portions o	stem affected ska and drop f county wa	d southeast A pped into sout rning area ex	rizona from De heast Californi cept western Pi	ecembe a on th ima cou	er 10th through the morning of unty. On the	gh the m f the 10th 11th, he	eak received 3 to 5 inches of snow. orning of the 13th. The storm origina h. This brought 40 to 50 mph wind gu avy precipitation began as the short wand snow levels dropped to 3000 feet. R

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		Decer	nber 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	0	Crops	Character of Storm	
ARIZONA, South										
		ice developed ov	ver the bridge	es on the mor	ning of the 1	3th causi	ing traffic probl	ems in t	the greater Tucson area.	
ARIZONA, Southwe	est									
Maricopa County Phoenix to 25 E Phoenix	04	0900MST 1600MST			0	0			Urban/Sml Stream Fld	
		y heavy rainfall ported as well as		*			s much of the I	East Val	lley during the day. Minor str	eet floodir
ARKANSAS, Centra	al and N	North Centra	<u>al</u>							
Saline County	07	1725000	0.2	25	0	0			T	
1 N Owensville to 1 NNE Owensville	07	1725CST 1726CST	0.3	25	U	U			Tornado (F0)	
		ak tornado (F0) property damag							Saline County. The tornado on ted.	aused som
Pulaski County										
3 SE Ferndale to 5 SW Maumelle	07	1816CST 1824CST	5	25	0	0			Tornado (F0)	
				1		ALL ALL				
		1		A Land						
			$\mathcal{I}_{\mathcal{I}}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcalI}_{\mathcal$							
	X	The st	State State					Son	and the second second	
		5 E			-	11.7				
	-	,								
	A DESCRIPTION OF THE OWNER OF THE	CALL OF THE REAL PROPERTY	And International Contractor of Contractor o	A REAL PROPERTY AND A REAL	THE R. LEWIS CO., LANSING MICH.	And in case of the local division of the loc	And I Real Property lies and the second s	And A DESCRIPTION OF	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	

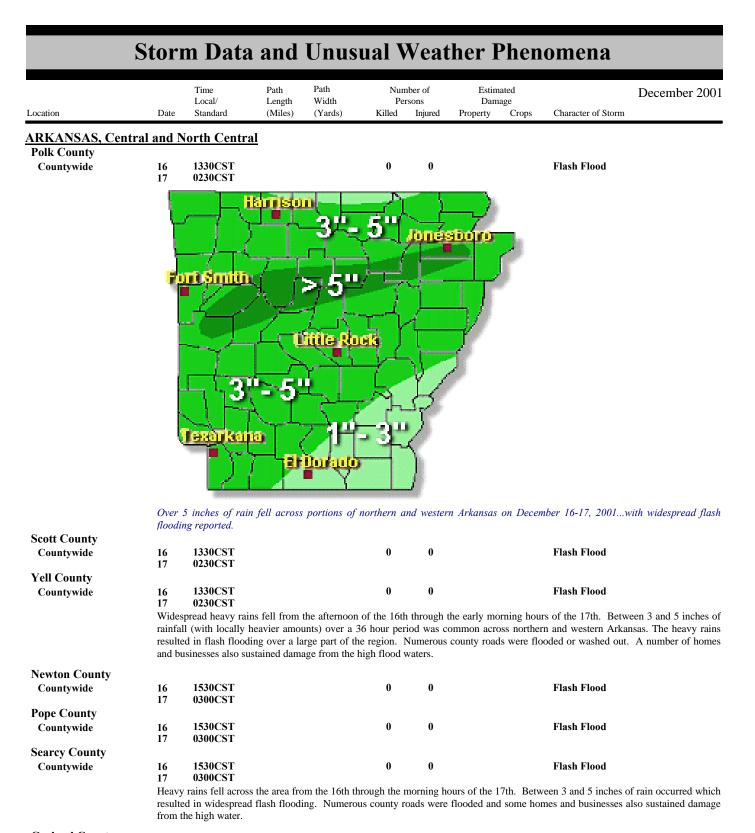
A weak tornado (F0) downed at least a dozen pine trees about 3 miles southeast of Ferndale in western Pulaski County on 12/07/2001. A couple of the trees fell on a house, with minor structural damage noted.

The storm that produced a weak tornado in western Saline County just north of Owensville spawned yet another weak tornado (F0) in western Pulaski County. The tornado touched down about 3 miles southeast of Ferndale and tracked northeast. The tornado mostly affected areas on hilltops, with trees uprooted and falling on at least one house. Some structural damage resulted at the home, with the roof mainly affected. The tornado dissipated roughly 5 miles southwest of Maumelle.

07	1920CST 1925CST	2	25	0	0	Tornado (F0)
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The storm that produced a weak tornado in western Pulaski County spawned another tornado in northeast sections of the county. The tornado (F0) touched down 6 miles northeast of Macon and had difficulty reaching the ground. Damage mostly consisted of tree tops, power lines and power poles...with some power outages occurring. The tornado moved 2 miles before crossing into Lonoke County.

	Stor	m Data	and	Unus	ual V	Veat	her Phe	nomena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Per Killed	ber of sons Injured	Estimated Damage Property Crops	Character of Storm	December 2001
ARKANSAS, Cen	tral and I	North Centra	l						
Lonoke County			_						
4 WNW Cabot to 3 WNW Ward	07	1925CST 1937CST	5	25	0	0		Tornado (F0)	
	west-	northwest of Cab	ot. The torn	ado had diffi	culty reachir	ig the gro	und and skipped at t	northwest Lonoke C imes. Damage mostly around 3 miles west-r	consisted of tree tops,
White County									
3 N Beebe to 2 N Garner	07	1953CST 2008CST	6	25	0	0		Tornado (F0)	
	(F0) t times.	ouched down abo	out 3 miles r consisted o	north of Beeb of tree tops, p	e and tracke ower lines a	d northea	st. The tornado had	weak tornado in White lifficulty reaching the power outages occurring	ground and skipped at
Desha County									
Dumas	12	1315CST 1600CST			0	0		Flash Flood	
	Heavy	y rains caused fla	sh flooding	in Dumas. N	lumerous str	eets were	under water for seve	eral hours.	
<b>Bradley County</b>									
Countywide	13	1230CST 1530CST			0	0		Flash Flood	
Desha County									
Countywide	13	1230CST 1530CST			0	0		Flash Flood	
Drew County									
Countywide	13	1230CST 1530CST			0	0		Flash Flood	
							rkansas. This resulten ne rainfall diminishe	ed in more flash floodi 1.	ng over the region. A
Johnson County									
Countywide	16 17	1330CST 0230CST			0	0		Flash Flood	
Logan County									
Countywide	16 17	1330CST 0230CST			0	0		Flash Flood	
Montgomery Coun	ty								
Countywide	. 16	1330CST			0	0		Flash Flood	



Garland County						
Countywide	16	1830CST	(	0	0	Flash Flood
·	17	0230CST				
Clark County						
Countywide	16	1900CST		0	0	Flash Flood
•	17	0230CST				

		Time Local/	Path Length	Path Width	Pe	nber of rsons	Estim Dam	age	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
ARKANSAS, Centr	al and N	North Centra	al							
Dallas County			_							
Dalark	16 17	1910CST 0230CST			0	0			Flash Flood	
Faulkner County										
Countywide	16 17	1913CST 0230CST			0	0			Flash Flood	
<b>Baxter County</b>										
Countywide	16 17	1920CST 0230CST			0	0			Flash Flood	
<b>Boone County</b>										
Countywide	16 17	1940CST 0230CST			0	0			Flash Flood	
Grant County										
Countywide	16 17	2000CST 0230CST			0	0			Flash Flood	
Marion County										
Countywide	16 17	2000CST 0230CST			0	0			Flash Flood	
Fulton County										
Countywide	16 17	2004CST 0230CST			0	0			Flash Flood	
Pulaski County										
Countywide	16 17	2010CST 0230CST			0	0			Flash Flood	



Arkansas Highway 7 was under water at a railroad underpass in Arkadelphia (Clark County) on 12/17/2001.

16 17	2050CST 0230CST	0	0	Flash Flood
16 17	2050CST 0230CST	0	0	Flash Flood

Heavy rains occurred over much of Arkansas from the 16th through the early morning hours of the 17th. Between 2 and 4 inches of rain fell across the region, with some areas seeing over 5 inches of rainfall. This resulted in widespread flash flooding with many roads covered by high water. Numerous homes and businesses were also damaged by high flood waters.

Saline County North Portion

		Time Local/	Path Length	Path Width	Numb Pers		Estim Dam			December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
ARKANSAS, Centr	al and N	North Centra	al							
Conway County										
Countywide	16 17	2000CST 0300CST			0	0			Flash Flood	
Perry County										
Countywide	16 17	2000CST 0300CST			0	0			Flash Flood	
Van Buren County										
Countywide	16 17	2100CST 0300CST			0	0			Flash Flood	
Stone County										
Mountain View	16 17	2110CST 0300CST			0	0			Flash Flood	
Cleburne County										
Countywide	16 17	2115CST 0300CST			0	0			Flash Flood	
Independence Count	y									
Countywide	16 17	2130CST 0300CST			0	0			Flash Flood	
Izard County										
Countywide	16 17	2130CST 0300CST			0	0			Flash Flood	
Sharp County										
Countywide	16 17	2130CST 0300CST			0	0			Flash Flood	
Lonoke County										
Countywide	16 17	2145CST 0400CST			0	0			Flash Flood	
White County										
Countywide	16 17	2145CST 0300CST			0	0			Flash Flood	
Pike County										
Countywide	16 17	2150CST 0300CST			0	0			Flash Flood	
Jackson County										
Countywide	16 17	2200CST 0300CST			0	0			Flash Flood	

#### Storm Data and Unusual Weather Phenomena Time Path Path Number of Estimated December 2001 Local/ Width Length Persons Damage Standard (Miles) (Yards) Killed Character of Storm Location Date Injured Property Crops ARKANSAS, Central and North Central Woodruff County 2230CST 0300CST Countywide 16 0 0 Flash Flood 17

Sandbagging was necessary to hold back flood waters on Jackson County Road 82 (north of Grubbs) on 12/18/2001. Heavy rains, amounting to between 2 and 4 inches, fell across the area from the late afternoon hours on the 16th through early on the 17th. This resulted in widespread flash flooding in many areas. Numerous county roads were flooded for several hours. A number of homes also sustained damage from the flood waters.

Prairie County					
Hazen	17	0040CST	0	0	Flash Flood
		0400CST			
Jefferson County					
Countywide	17	0045CST	0	0	Flash Flood
		0400CST			
Calhoun County					
Hampton	17	0059CST	0	0	Flash Flood
		0400CST			
Arkansas County					
Countywide	17	0100CST	0	0	Flash Flood
		0400CST			
Cleveland County					
Countywide	17	0100CST	0	0	Flash Flood
-		0400CST			
Monroe County					
Countywide	17	0100CST	0	0	Flash Flood
-		0400CST			
Bradley County					
Countywide	17	0130CST	0	0	Flash Flood
·		0430CST			
Lincoln County					
Countywide	17	0130CST	0	0	Flash Flood
·		0430CST			
Desha County					
Countywide	17	0200CST	0	0	Flash Flood
•		0430CST			

		Time	Path	Path	Numbe		Estimated	December 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Damage Property Crops	Character of Storm
ARKANSAS, Central	and N	North Centra	վ					
Drew County								
Countywide	17	0200CST			0	0		Flash Flood
	inches		ch resulted	in flash flood	ling. Numero	0		rough early on the 17th. Between 2 and 4 d by high water. A number of homes and
Drew County								
15 ESE Monticello	22	2000CST 2200CST			0	0		Flash Flood
	•			ling over parts	s of Drew Cou	ınty. Hiş	ghway 35 between M	Ionticello and Dermott was covered by high
ARKANSAS, East								
Crittenden County		1450-000			Δ	•	11/2	
West Memphis	12 Some	1450CST 1830CST roads had water	over them.		0	0	1K	Urban/Sml Stream Fld
ARZ008>009-017>018 027>028-048	- Rand	lolph - Clay -	Lawrence	e - Greene -	Poinsett - N	Aississi	ppi - St. Francis	
	17	0015CST			0	0	110K	Flood
	-	2359CST rains produced persons were ev	-	flooding over	r northeast Ar	kansas. S	Some homes were flo	oded. Several bridges were washed out and
ARKANSAS, Northw	vest							
Madison County								
5 S Kingston	16 Heavy	0300CST 0500CST	ains caused	water to flow	0 over a county	0 road fiv	e miles south of King	Flash Flood
<b>Carroll County</b>	Tieuvy		inis cuused		over a county	Toud IIV	e miles south of iting	50011
5 S Berryville	16	0400CST 0530CST			0	0	- miles - miles f Dem	Flash Flood
	Heavy	/ thunderstorm ra	ans caused	water to now	over a county	road nv	e miles south of Berr	yville.
Carroll County East Portion	16	1825CST			0	0		Flash Flood
		2130CST						
Crawford County	Heavy	thunderstorm ra	ains caused	several county	y roads and st	reets to b	be flooded in and arou	and Green Forrest.
Countywide	16	1855CST 1930CST			0	0		Flash Flood
	Heavy	thunderstorm ra	ains caused	numerous cou	inty roads to b	e floode	d across Crawford Co	ounty.
Sebastian County		1000 000			0			
West Central Portion	16	1900CST 2000CST			0	0		Flash Flood
	Heavy	thunderstorm ra	ains caused	several county	y roads near H	lackett to	be flooded.	
Madison County					0			
Countywide	16	2030CST 2200CST			0	0	50K	Flash Flood
	2	thunderstorm ra			2	oss Madi	ison County to be floo	oded.
Franklin County		303 - CCT			•	•	2017	
Southeast Portion	16 Heavy	2035CST / thunderstorm ra	ains caused	several count	0 y roads to be y	0 vashed o	<b>50K</b> out south of Altus.	Flash Flood
ARKANSAS, Southe				-				
Ashley County	131							
Countywide	12	1325CST 1530CST			0	0	5K	Flash Flood
		1000001						

$ \begin{array}{                                    $			Time Local/	Path Length	Path Width	Numb		Estimated Damage		December 2001
Chied County       Image: County wide in the image: Coun	Location	Date		-				0	Character of Storm	
Connywide         12         1340CST GoldCST         0         5K         Flash Flood           Upwards to 5 incless of nin fell over the comy flooding several roads. Numerous roads reported completely underwater and in near of repairs. Schools were also forced to close dow.         Numerous roads reported completely underwater and in near of repairs. Schools were also forced to close dow.           Chier County Constyvide         1         1035CST 1700CST         0         Plash Flood           Ashley County Constyvide         1         123CSST 1700CST         0         0         Flash Flood           Ashley County Mile         1         103CSST 1700CST         0         0         Flash Flood           Ashley County Mile         1         105CSST 1700CST         0         0         Flash Flood           CREACHINGSAS. Scotthwey Highway 189 near toom flooded due to heavy rainfall.         0         0         Flash Flood           CREACHING         1         105SCST 1700CST         0         0         Flash Flood           REGORD         1         165SCST 10         0         0         Flash Flood           Contrader and near arrong was closed due to bigh water.         Flash Flood         Flash Flood           Lifter County 12 Staddown         1         109CST 109CST         0         0         Flash Flood		ist								
1000CST         0         0         Park Flood           Chior County (repair: Schools were also forced to close down.         0         Park Flood           Chior County (countywide         1         103CCST         0         0         Flood           Additional, houry rainfall resulted in several roads flooding once again. This aggravated ongoing flood problems.         Additional, houry rainfall resulted in several roads flooding once again. This aggravated ongoing flood problems.           Ashley County Nilo         1         123CST         0         0         Flood           Reconstruction         1         123CST         0         0         Flood           Nilo         1         123CST         0         0         Flood           Reconstruction         1         123CST         0         0         Flood           Nilo         1         123CST         0         0         Flood           Bib Flood         1         165CST         0         0         Flood           Nino         1         193CST         0         0         Flood           Numerous road closed and flooded thero bigh water.         Flood         DarkInder road         DarkInder road           16         193CCST         0         0         Flood Floo	•	12	1340CST			0	0	5K	Flash Flood	
Chicot County Countywide       I       100 csts       Issue and the sevenal roads flooding once again. This aggravated ongoing flood problems. Ashiey County Countywide       I       100 csts       Flash Flood         Ashiey County Countywide       13       1230 CST 1700 CST       0       0       Flash Flood         Ashiey County Mile       13       1230 CST 1700 CST       0       0       Flash Flood         Ashiey County Mile       13       1230 CST 1700 CST       0       0       Flash Flood         Ashiey County Mile       13       165 CST 1700 CST       0       0       Flash Flood         Ashiey County Mile       12       165 CST 100 CST       0       0       Flash Flood         Ashiey County Mile       12       165 CST 10       0       0       Flash Flood         Strong       12       165 CST 10       0       0       Flash Flood         Strong       12       165 CST 10       0       0       Flash Flood         Strong       13       1300 CST 10 Carliam       0       0       Flash Flood         Strong       16       190 CST 10 CST       0       0       Flash Flood         Strong       16       110 CST 200 CST       0       0       Flash Flood	Countywide	12				U	U	3K	Flash Flood	
Countywide         13         13         103 CST 1700CST 1700CST         0         0         Flash Flood           Additional, heavy rainfall resulted in sevenal roads flooding once again. This aggravated ongoing flood problems. Ashiey County Mile         13         1230CST 1700CST         0         0         Flash Flood           Ashiey County Mile         13         1230CST 1700CST         0         0         Flash Flood           Ashiey County Mile         17         05SCST 000SCT         0         0         Flash Flood           Mile         12         16SSCST 000LJackson Road soath of town was closed due to high water.         Mile         Flash Flood           Wile         12         16SSCST 000LJackson Road soath of town was closed due to high water.         Flash Flood           Miler County 1S Ashoey         15         1930CST 000LJackson Road soath of town was closed due to high water.         Flash Flood           Miler County 1S Ashoey         16         190SCST 100CST 000LJackson Road soath and flooded throughout town.         Flash Flood           Lafayette County 1S Ashoey         16         190SCST 2000CST 10 Soath Jackson Road soath and closed from high water.         0         Flash Flood           Miler County 2S Ashoey         16         2100CST 2000CST 10 Soath Jackson Road soath and closed from flash flooding.         Flash Flood           Miler Coun		-			•	-	eral road	Is. Numerous roads	s reported completely u	nderwater and in need
Ashley County Countywide Additional, heavy minfall resulted in several roads flooding once again. This aggravated ongoing flood problems. Ashley County Mile 17 0055CST 0 0 0 Flash Flood Highway 189 near town flooded due to another round of heavy minfall. Ashley County Mile 17 0055CST 0 0 0 Flash Flood Highway 189 near town flooded due to heavy minfall. ArkKANSAS, Southwest Union County El Dorado 12 1655CST 0 0 0 Flash Flood South Jackson Road south of town was closed due to high water. Union County Bit Derawa 15 1930CST 0 0 0 Flash Flood Miler County 15 1930CST 0 0 0 Flash Flood Miler County 15 1930CST 0 0 0 Flash Flood Miler County 15 200CST 0 0 0 Flash Flood Miler County 15 200CST 0 0 0 Flash Flood Miler County 16 200CST 0 0 0 Flash Flood U.S. Hwy 71 closed from high water. Numerous cars stalled out in the flooded roads. Lafayette County Texarkana 16 200CST 0 0 0 Flash Flood Miler County 16 2010CST 0 0 Flash Flood Miler County Texarkana 16 2010CST 0 0 Flash Flood Miler County 16 2010CST 0 0 Flash Flood Miler County Texarkana 16 2010CST 0 0 Miler County Texarkana 16 2010CST 0 Miler County Miler County Texarkana 16 2010CST 0 Miler County Texarkana 16 8 844EST 0 Miler County Miler County Be Envice Kison Hash Blood and closed to raffic. Collumbia County Miler County Be Envice Kison Bo Miler Count of thowers proceeding a cold from produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Hay and 52 knots or 60 mph in Cape May, New Jensy. Collealogen To forwers Fore Hay Miler Count from Miler Cape May. Hewes Ferry was crossin Delaware Hay	Chicot County									
Ashley County       I3       I230CST       0       0       Flash Flood         Ashley County       17       005SCST       0       0       Flash Flood         Mile       17       005SCST       0       0       Flash Flood         Highway 189 near town flooded due to heavy rainfall.       0       0       Flash Flood         Ashley County       17       005SCST       0       0       Flash Flood         Highway 189 near town flooded due to heavy rainfall.       0       0       Flash Flood         Astion County       1       165SCST       0       0       Flash Flood         Rinon       12       16SSCST       0       0       Flash Flood         Miller County       15       1930CST       0       0       Flash Flood         Little River County       16       190SCST       0       0       Flash Flood         Lafayette County       16       100CST       0       0       Flash Flood         Lafayette County       16       2110CST       0       0       Flash Flood         U.S. Highway 29 and 82 were closed from flash flooding.       Warrows streets were closed and closed from flash flooding.       Flash Flood         Numerous streets were closed and c	•		1700CST							
Conniywide         13         13         13 00CT T700CST Roads reported flooded again due to another round of heavy rainfall.         Flood           Ashley County Milo         0         0055CST Highway 189 near town flooded due to heavy rainfall.         6         0         Flash Flood           ARKANSAS. Southwest Highway 189 near town flooded due to heavy rainfall.         0         0         Flash Flood           ARKANSAS. Southwest Highway 189 near town flooded due to heavy rainfall.         0         0         Flash Flood           ARKANSAS. Southwest Highway 189 near town flooded due to heavy rainfall.         0         0         Flash Flood           ARKANSAS. Southwest Highway 189 near town flooded due to heavy rainfall.         0         0         Flash Flood           ARKANSAS. Southwest Highway 200 ark land road near strong was closed due to high water.         0         0         Flash Flood           Miller County 18 A shdown         15         1930CST         0         0         Flash Flood           Miller County 18 A shdown         12         100ST         0         0         Flash Flood           Miller County 18 A shdown         12         100ST         0         0         Flash Flood           Miller County 19 A Walde         2         100ST         0         0         Plash Flood           Numerous-	Ashlay County	Additi	ional, heavy rai	infall resulted	in several roa	ads flooding o	nce agai	n. This aggravated	ongoing flood problem	s.
Ashley County Milo       17       005CST Highway 189 near town flooded due to heavy rainfall.       0       Flash Flood         ARKANSAS, Southwest Union County El Dorado       12       1655CST       0       0       Flash Flood         Strong       1       1655CST       0       0       Flash Flood         Miller County Texarkana       15       1930CST       0       0       Flash Flood         Miller County Texarkana       16       1905CST       0       0       Flash Flood         1 S Ashdown       16       1905CST       0       0       Flash Flood         Lafayette County Lewisville       16       2110CST       0       0       Flash Flood         Miller County Lewisville       16       2110CST       0       0       Flash Flood         Miller County Lewisville       16       2110CST       0       0       Flash Flood         Miller County Texarkana       16       2110CST       0       0       Flash Flood         Miller County B B Bay Watters S OFE Flash Flood       16       2200CST       0       0       Flash Flood         Miller County B B Bay Watters S OFE Funct S NOB       18       0844EST       0       0       Marine Tstm Wind         Athe of showers p		13				0	0		Flash Flood	
Mio     12     0055CST Highway 189 near town flooded due to heavy rainfall.     Plash Flood       ARKANSAS. Southwest Union County EI Dorado     12     1655CST South Jackson Road south of town was closed due to high water.     Isah Flood       Union County EXTOR     12     1655CST Ourkland road near strong was closed due to high water.     Isah Flood       Miller County Texarkana     12     1655CST Ourkland road near strong was closed due to high water.     Isah Flood       Little River County Letter County Letwisville     15     1930CST OurST     0     0     Flash Flood       Little River County Letwisville     16     100CST 2300CST     0     0     Flash Flood       Miller County Letwisville     16     2110CST 2300CST     0     0     Flash Flood       Miller County Letwisville     16     2110CST 2300CST     0     0     Flash Flood       Miller County Letwisville     16     2110CST 2300CST     0     Flash Flood       Miller County Letwisville     16     2100CST 2300CST     0     Flash Flood       Miller County Be Bay Match S OFE Photip County 3W walo     16     2255CST Numerous strets were closed from flash flooding.     Flash Flood       Miller County Be Bay Match S OFE Photip County 3W walo     16     2255CST Numerous strets were closed from flash flooding.     Flash Flood       Miller County 3W walo     16 <t< td=""><td></td><td>Roads</td><td>s reported flood</td><td>led again due</td><td>to another rou</td><td>and of heavy</td><td>rainfall.</td><td></td><td></td><td></td></t<>		Roads	s reported flood	led again due	to another rou	and of heavy	rainfall.			
Highway 189 near town flooded due to hay yrainfail.         ATKANSAS, Southwest         Union County         El Dorado       Pash Flood         Dorado       Pash Flood         Dorado       Pash Flood         Strong       Gate Pash Flood         Miller County       Fash Flood         Texarkana       Strong       Gate Pash Flood         Ititle River County       Fash Flood         Fash Flood       Fash Flood         Fash Flood         Fash Flood         Fash Flood <t< td=""><td>Ashley County</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Ashley County									
Union County         Bit Dorado       12       1655CST       0       0       Pish Flood         Union County Strong       12       1655CST       0       0       0       Flash Flood         Miller County Texarkana       12       1655CST       0       0       0       Flash Flood         Miller County Is Ashdown       15       1930CST       0       0       Flash Flood         Little River County Is Ashdown       16       1905CST       0       0       Flash Flood         Miller County Is Ashdown       16       2110CST       0       0       Flash Flood         Miller County Is Subjourne Tus Fleider County Reverse Cosed and Rever closed from flash flooding.       Flash Flood       Flash Flood         Miller County Texarkana       16       2110CST       0       0       Flash Flood         Miller County SW Waldo       16       2110CST       0       0       Plash Flood         Miller County SW Waldo       16       210CST       0       0       0       Mark Flood         Miller County SW Waldo       16       210CST       0       0       0       Mark Flood         Miller County SW Waldo       16       2255CST       0       0       0 <td>Milo</td> <td></td> <td></td> <td>wn flooded d</td> <td>ue to heavy ra</td> <td></td> <td>0</td> <td></td> <td>Flash Flood</td> <td></td>	Milo			wn flooded d	ue to heavy ra		0		Flash Flood	
El Dorado       12       1655CST       0       0       Flash Flood         Union County       12       1655CST       0       0       Flash Flood         Strong       12       1655CST       0       0       Flash Flood         Miller County       12       1655CST       0       0       Flash Flood         Miller County       15       1930CST       0       0       Flash Flood         Little River County       15       1930CST       0       0       Flash Flood         Lafayette County       16       2110CST       0       0       Flash Flood         U.S. Hwy 71 closed from high water. Numerous cars stalled out in the flooded roads.       Flash Flood       1         Miller County       16       2110CST       0       0       Flash Flood         U.S. Highway 29 and 82 were closed from flash flooding.       Plash Flood       Plash Flood       1         Affacter County       16       2255CST       0       0       Flash Flood         Strong       16       2210CST       0       0       Marine Tsim Wind         Affacter County       16       2255CST       0       0       0       Marine Tsim Wind         Numerous streets were		<u>est</u>								
Strong       12       16S5 CST       0       0       Flash Flood         Miller County       15       1930 CST       0       0       Flash Flood         Little River County       15       1930 CST       0       0       Flash Flood         Little River County       1       1905 CST       0       0       Flash Flood         Lafayette County       16       1905 CST       0       0       Flash Flood         Lafayette County       16       2110 CST       0       0       Flash Flood         Miller County       16       2110 CST       0       0       Flash Flood         Miller County       16       2110 CST       0       0       Flash Flood         Miller County       16       2110 CST       0       0       Flash Flood         Numerous streets were closed and cars stalled in high water.       Stash Flood       Stash Flood       Stash Flood         Stauters S OFF       16       2255 CST       0       0       Flash Flood         Numerous streets were closed and closed to traffic.       Stash Flood       Stash Flood       Stash Flood         Texarkana       18       0844EST       0       0       0       Marine Tstm Wind	-			south of towr	n was closed o	•			Flash Flood	
Oarkland road near strong was closed due to high water.         Miller County Texarkana       15       1930CST       0       0       Flash Flood         Little River County 1 S Ashdown       16       1905CST       0       0       Flash Flood         Little River County 1 S Ashdown       16       1905CST       0       0       Flash Flood         Lafayette County Lewisville       16       2110CST       0       0       Flash Flood         Miller County Texarkana       16       2110CST       0       0       Flash Flood         Miller County Texarkana       16       2110CST       0       0       Flash Flood         Miller County Texarkana       16       2110CST       0       0       Flash Flood         Numerous streets were closed from flash flooding.       Numerous streets were closed and closed to traffic.       Flash Flood         Alight County 3 W Waldo       16       2255CST       0       0       Flash Flood         Numerous streets were flooded and closed to traffic.       Numerous streets were flooded and closed to traffic.       Flash Flood         Pt Nj To Slaughter Beach De Lewes De to Delaware Bay and 52 knots of 60 mph in Cape May.       0       0       Marine Tstm Wind         Alie of showers preceding a cold front produced wind gusts to 60 knots or 69	Union County									
Texarkana       15       1930CST       0       0       Flash Flood         Little River County       15 Ashdown       16       1905CST       0       0       Flash Flood         Lafayette County       16       2110CST       0       0       Flash Flood       10         Lafayette County       16       2110CST       0       0       Flash Flood       10	Strong			trong was clo	sed due to hig		0		Flash Flood	
Numerous roads closed and flooded throughout town.         Little River County       16       1905CST       0       0       Flash Flood         Lafayette County       16       2110CST       0       0       Flash Flood         Lewisville       16       2110CST       0       0       Flash Flood         Miller County       16       2110CST       0       0       Flash Flood         Texarkana       16       2110CST       0       0       Flash Flood         Numerous streets were closed from flash flooding.       Numerous streets were closed and cars stalled in high water.       Flash Flood         Columbia County       16       2255CST       0       0       Flash Flood         ATLANTIC OCEAN       Numerous roads were flooded and closed to traffic.       Numerous roads were flooded and closed to traffic.       Flash Flood         ATLANTIC OCEAN       18       0844EST       0       0       Marine Tstm Wind         North Cape May       18       0844EST       0       0       Marine Tstm Wind         North Cape May       18       900EST       0       0       Marine Tstm Wind         I construction       18       18       0900EST       0       0       Marine Tstm Wind <td>Miller County</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Miller County									
1 S Ashdown161905CST00Flash FloodLafayette County Lewisville162110CST00Flash Flood162110CST00Flash Flood2300CSTU.S. Highway 29 and 82 were closed from flash flooding.0Flash FloodMiller County Texarkana162110CST0000Flash Flood00Numerous streets were closed and cars stalled in high water.Flash Flood000Flash Flood000Flash Flood000Flash Flood000Marinerous streets were closed and closed to traffic.0000Marinerous streets were flooded and closed to traffic.0000Marine Tstm Wind0000Marine Tstm Wind000000000000Marine Tstm Wind000000 </td <td>Texarkana</td> <td></td> <td></td> <td>sed and flood</td> <td>ed throughout</td> <td></td> <td>0</td> <td></td> <td>Flash Flood</td> <td></td>	Texarkana			sed and flood	ed throughout		0		Flash Flood	
U.S. Hwy 71 closed from high water. Numerous cars stalled out in the flooded roads. Lafayette County Lewisville 16 2110CST 0 0 Flash Flood 3300CST U.S. Highway 29 and 82 were closed from flash flooding. Miller County Texarkana 16 2110CST 0 0 Flash Flood Numerous streets were closed and cars stalled in high water. Columbia County 3 W Waldo 16 2255CST 0 0 Flash Flood Numerous roads were flooded and closed to traffic. ATLANTIC OCEAN De Bay Waters 8 OF E Pt Nj To Slaughter Beach De Lewes De to North Cape May 18 0844EST 0 0 0 Marine Tstm Wind A line of showers preceding a cold front produced wing gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey. Cp Henlopen To Fenwick Is De Out 20Nm 18 0900EST 0 0 0 Marine Tstm Wind	Little River County									
Lewisville       16       2110CST 2300CST       0       0       Flash Flood         Miller County Texarkana       16       2110CST 0       0       Flash Flood         Miller County Texarkana       16       2110CST 0       0       Flash Flood         Oclumbia County 3 W Waldo       16       2255CST 0       0       0       Flash Flood         ATLANTIC OCEAN De Bay Waters S OF E Pt Nj To Slaughter Beach De Lewes De to North Cape May       18       0844EST       0       0       0       Marine Tstm Wind         Alline of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.       Image: State Sta	1 S Ashdown			from high wa	ter. Numerou	-		ne flooded roads.	Flash Flood	
2300CST         U.S. Highway 29 and 82 were closed from flash flooding.         Miller County Texarkana       16       2110CST       0       0       Flash Flood         Numerous streets were closed and cars stalled in high water.       0       0       Flash Flood         Columbia County 3 W Waldo       16       2255CST       0       0       Flash Flood         Numerous roads were flooded and closed to traffic.       Numerous roads were flooded and closed to traffic.       Flash Flood         ATLANTIC OCEAN De Bay Waters S Of E Pt Nj To Slaughter Beach De       18       0844EST       0       0       0       Marine Tstm Wind         A line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.       September Jong       A line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.       September Jong       North Cape May         I8 E Fenwick Island       18       0900EST       0       0       Marine Tstm Wind	• •									
Miller County Texarkana       16       2110CST       0       0       Flash Flood         Numerous streets were closed and cars stalled in high water.       Numerous streets were closed and cars stalled in high water.       Flash Flood         Columbia County 3 W Waldo       16       2255CST       0       0       Flash Flood         Numerous roads were flooded and closed to traffic.       Numerous roads were flooded and closed to traffic.       Flash Flood         ATLANTIC OCEAN De Bay Waters S Of E Pt Nj To Slaughter Beach De Lewes De to North Cape May       18       0844EST       0       0       Marine Tstm Wind         A line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.       Cp Henlopen To Fenwick Is De Out 20Nm       18       0900EST       0       0       Marine Tstm Wind	Lewisville		2300CST	d 82 were clo	sed from flasl		0		Flash Flood	
Texarkana162110CST00Flash FloodNumerous streets were closed and cars stalled in high water.Columbia County 3 W Waldo162255CST00Flash Flood3 W Waldo162255CST000Flash FloodATLANTIC OCEAN De Bay Waters S Of E Pt Nj To Slaughter Beach De Lewes De to North Cape May18000Marine Tstm Wind180000Marine Tstm WindA line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.000Yennic Laware Do Name Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.000Marine Tstm Wind	Millor County		8,							
Columbia County 3 W Waldo       16       2255CST       0       0       Flash Flood         Mumerous roads were flooded and closed to traffic.       Numerous roads were flooded and closed to traffic.       Flash Flood         ATLANTIC OCEAN De Bay Waters S Of E Pt Nj To Slaughter Beach De Lewes De to North Cape May       18       0844EST       0       0       Marine Tstm Wind         A line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.       Cp Henlopen To Fenwick Is De Out 20Nm       18       0900EST       0       0       Marine Tstm Wind		16	2110CST			0	0		Flash Flood	
3 W Waldo162255CST000Flash FloodNumerous roads were flooded and closed to traffic.ATLANTIC OCEAN De Bay Waters S Of E Pt Nj To Slaughter Beach De Lewes De to North Cape May180844EST00Marine Tstm Wind180844EST000Marine Tstm WindA line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.Cp Henlopen To Fenwick Is De Out 20Nm 18 E Fenwick Island180900EST00Marine Tstm Wind		Nume	rous streets we	ere closed and	cars stalled i	n high water.				
ATLANTIC OCEAN       Numerous roads were flooded and closed to traffic.         ATLANTIC OCEAN       De Bay Waters S Of E         Pt Nj To Slaughter       Beach De         Lewes De to       18         North Cape May       18         A line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin         Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.         Cp Henlopen To         Fenwick Is De Out         20Nm         18       0900EST         0       0         0       0         Marine Tstm Wind	<b>Columbia County</b>									
De Bay Waters S Of E       Pt Nj To Slaughter         Beach De       Image: Second State Stat	3 W Waldo			e flooded and	l closed to tra		0		Flash Flood	
Lewes De to North Cape May180844EST000Marine Tstm WindA line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin Delaware Bay and 52 knots or 60 mph in Cape May, New Jersey.Image: Cape May-Lewes Ferry was crossin Cape May-Lewes Ferry was crossin	De Bay Waters S Of E Pt Nj To Slaughter									
North Cape May       A line of showers preceding a cold front produced wind gusts to 60 knots or 69 mph as the Cape May-Lewes Ferry was crossin         Cp Henlopen To       Fenwick Is De Out         20Nm       18 E Fenwick Island         18 E Fenwick Island       18 0900EST		18	0844EST			0	0	0	Marine Tstm Wi	nd
Cp Henlopen To Fenwick Is De Out 20Nm 18 E Fenwick Island 18 0900EST 0 0 Marine Tstm Wind		A line	1	0		U		0 knots or 69 mph	as the Cape May-Lew	es Ferry was crossing
	Fenwick Is De Out	_ = = 1 m W	uy and 5.			, , , , , , , , , , , , , , , , , ,				
A line of showers preceding a cold front produced wind gusts to 47 knots or 54 mph at the Delaware Bay Buoy.	18 E Fenwick Island									

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Persons Killed In		Estimated Damage Property Crops	Character of Storm	December 200
CALIFORNIA, Ext	reme So	utheast							
	NONE	REPORTED.							
CALIFORNIA, Nor	th Cent	ral							
	NONE	REPORTED.							
CALIFORNIA, Nor	theast								
CAZ072-072	Great 01 02 Severa		ted heavy			0 reporte	<b>0</b> d 24 inches of snow	<b>Heavy Snow</b> 7 in 24 hours at 7800 fo	eet. Boreal Ski are
CAZ071	1	ed 12-18 inches o n/Eastern Plu			00 feet.				
CAZ0/1	01	0845PST AWS sensor in D			<b>0</b> st to 64 mph.	0	0	High Wind (G56)	М
CAZ072	01 02	ter Lake Taho 2110PST 0910PST Donner ski area		2 inches of sno	<b>0</b> w in 12 hours	<b>0</b> at 6500	<b>0</b> 0 feet.	Heavy Snow	
CAZ072	01 02	ter Lake Taho 2130PST 0930PST		1.10.1	0	0	0	Heavy Snow	
CAZ071		tar at Tahoe ski a n/Eastern Plu	•		t snow at 7300	feet ai	nd 20 inches of snow	at 8600 feet in 12 hours	S.
	01 02	2230PST 2230PST report of 20 inc			<b>0</b>	0 Westw	0	Heavy Snow	
CAZ072-072-072	Great 02	ter Lake Taho 0454PST			0	0	0	Heavy Snow	
	Meado		es in 12 ho	urs at 7200 fe	et and 17 inch			) feet for a storm total t. Northstar at Tahoe re	
CAZ073	Mono 02 Spotter	<b>1047PST</b> report of wind s	rust to 58 n	nph in Walker	0	0	0	High Wind (G50)	М
CAZ073	Mono 02 03	2035PST 0535PST	-	-	0	0	0	Heavy Snow	
CAZ072	Great 04	r report of 15 inc ter Lake Taho 2120PST		w in 9 hours at	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Aammo 0	0	Heavy Snow	
	05 Califor	2120PST mia Department	of Transpo	rtation reporte	d 14 inches of	snow i	n 24 hours at 6118 fe	eet.	
CAZ071	05	n/Eastern Plu 1220PST			<b>0</b> 6 mph in Dovl	<b>0</b>	0	High Wind (G57)	М
CAZ072	-	ter Lake Taho 1400PST omated sensor of	e Area		0	0	0	High Wind (G95)	м

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
CALIFORNIA, North	east							
CAZ071	08 09	n/Eastern Pla 2015PST 0815PST			0	0	0	Heavy Snow
		rnia Department ay 44 in 12 hou		rtation reporte	d 3-4 inche	s of snow	v on Fredonyer Pass	(elevation 5748 feet) and up to one foot or
CAZ072-072-072-072- 072-072-072	Great	ter Lake Tah	oe Area					
	13 14	1800PST 0630PST			0	0	0	Heavy Snow
CAZ071-071	Lasse 13 14	n/Eastern Pla 1910PST 1015PST	umas/East	ern Sierra	0	0	0	Heavy Snow
	Severa		ted heavy sn	ow in a 15 ho	ur period. 1	Northern	Sierra Valley had 12	inches at 4900 feet and Portola reported 12
CAZ072	13	ter Lake Tah 1920PST	oe Area		0	0	0	Heavy Snow
	14 A spot	1020PST ter in the Tahoe	/Donner are	a reported 12 i	inches of sn	ow in 15	hours at 6500 feet.	
CAZ073	Mono 13 14	) 2030PST 0830PST			0	0	0	Heavy Snow
CA 7070 070			•	hes of snow at	t 8900 feet a	nd 18 inc	ches of snow above 9	0000 feet in 12 hours.
CAZ072-072	13	ter Lake Tah 2100PST 2125PST rs in South Lake		at Tahoe-Don	0 per reported	0 bigh wit	0 ad guess - At South I	<b>High Wind (G74)</b> <sup>M</sup> ake there was a wind gust of 80 mph and a
								ear blizzard conditions.
CAZ073	Mono 14 A spot	0015PST ter in Crowley I	Lake reporte	d a wind gust	<b>0</b> to 61 mph.	0	0	High Wind (G52) <sup>M</sup>
CAZ073	Mono 15 A RAY	0 0143PST WS automated s	tation record	led a wind ous	0 st of 66 mph	0 in Cresty	0 view	High Wind (G57) <sup>M</sup>
CAZ072-072-072-072		ter Lake Tah		ieu a wind gus	st of 00 mph	In crest	view	
	9-10 in	1	urs. Anothe	er spotter at 6	500 feet ha	d 8-12 i		Heavy Snow n 12 hours. A spotter at 6350 feet reporter The California Department of Agricultur
CAZ071-071-071		n/Eastern Pla 2230PST	umas/East	ern Sierra	0	0	0	Heavy Snow
		1220PST were several rep		•	2 hour perio	d. In We	estwood 6 inches fell	at 5500 feet and in Graeagle 6 inches fell a (elevation 6780 feet).
CAZ072-072		ter Lake Tah 0200PST	•		0	0	0	Heavy Snow
		<b>0900PST</b> I ski resorts repours at 6200 feet	•	snow. Alpine	e Meadows	had 7 inc	thes in 6 hours at 65	00 feet and Squaw Valley reported 8 inche
CAZ071-071-071-071	Lasse 19 20	n/Eastern Pl 2030PST 0910PST	umas/East	ern Sierra	0	0	0	Heavy Snow

		Time	Path	Path	Numb		Estimated		December 2001			
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property Crops	Character of Storm				
CALIFORNIA, Nor	rtheast											
		at 4950 feet in	Sierraville.									
CAZ072-072-072	Great 19	ter Lake Tah 2042PST	oe Area		0	0	0	Heavy Snow				
		0845PST I spotters repor eet, and Norths	•		-		ke Tahoe had 6-8 incl	·	vale had 11 inches at			
CAZ072	Great	ter Lake Tah	oe Area									
	20 21 Kirkwo	0450PST 0450PST ood Ski Area re	ported 24 in	ches of snow	0 in 24 hours a	<b>0</b> .t 7600 fe	0 eet.	Heavy Snow				
CAZ073	Mono	)										
	29 30 Mamm	0630PST 0630PST oth Ski Area re	eported 18 ir	the of snow	0 in 24 hoours	<b>0</b> at 8000 f	0 feet.	Heavy Snow				
CALIFORNIA, Nor												
CAZ001		ood Coast 1100PST			0	0		Flood				
	<b>06</b> Floodi	1500PST ng along Freshv	water Creek,	Jacoby Creel	k, and the Elk	River.						
CAZ004	Uppe	r Trinity Riv	er									
	13 14	1500PST 0900PST		- 2500 fact al	0	0		Heavy Snow				
C 4 7001	-	10 inches of sno	ow ten abov	e 2500 leet ei	evation.							
CAZ001	Redw 14	ood Coast 0304PST 0700PST			0	0		High Wind (G54)	М			
CAZ004	Uppe	r Trinity Riv	er									
	16 17	1900PST 0300PST			0	0		Heavy Snow				
	About	About 8 inches of snow fell above 4500 feet elevation.										
CAZ001	Redw 18	ood Coast 0900PST			0	0		High Wind (G51)	М			
		1100PST										
CAZ001		ood Coast 1200PST 1700PST			0	0		High Wind (G58)	М			
CALIFORNIA, Sou	ith Centi	۰al										
CAZ093-096>097		ra Foothills	- S Sierra	Mtns - Tul	are Cty Mt	ns						
	01 03	1800PST 0400PST			0	0		Winter Storm				
CAZ095		Cty Mtns 1200PST			0	0		Snow				
	Califor other r other a 0.54" a	rnia: Yosemite reported amoun amounts rangin at Merced. Ba	Valley receins ts varying fr g from 17 to ass Lake had	ived 7" of sno rom 32-53"; 1 o 31." Alta S l 1.27" of rai	ow in less tha Big Meadows ierra in the I in with Shav	n 10 hou at 7600 Kern Mo er Lake	vely low levels in the rrs; Gin Flat at 7000' in ' in the Tulare County untains received 7" d receiving 1.79" durin tstomers in the Oakhu	n the South Sierra had v Mountains received uring the episode. Va g the event at lower	50" in 34 hours with 31" in 20 hours with lley rainfall included mountain elevations.			
CAZ089>091		entral S.J. Va 0730PST						Wind				
	Gusty	1730PST south wind on	the San Joac	quin Valley w	as measured	to 50 M	PH at the Los Banos	RAWS, 30 KTS at th	e Merced ASOS, and			

Gusty south wind on the San Joaquin Valley was measured to 50 MPH at the Los Banos RAWS, 30 KTS at the Merced ASOS, and to 48 MPH at the Kettleman RAWS prior to frontal passage (FROPA) on the 2nd. Wind to 30 KTS occurred with FROPA at Merced

S	torm Da	ta and	Unus	ual W	'eath	ner Pher	omena	
Location	Time Local/ Date Standard	Path Length (Miles)	Path Width (Yards)	Numbe Perso Killed	ns	Estimated Damage Property Crops	Character of Storm	December 2001
CALIFORNIA, South	Central around 1700 PST	as wind switch	d from south t	o west (and e	ventually	northwest)		
CAZ089>092	W Central S.J 07 2300PS 08 1200PS	<b>Γ. Valley - Ε C</b> Γ Γ fog formed arou	<b>entral S.J. V</b> nd midnight ir	alley - Sw 0	S.J. Vall 0	ey - Se S.J. Vall	ey Fog / leading to widesprea	d visibilities less than
CAZ095-098>099	Kern Cty Mtm 10 0900PS7 2030PS7 Within Kern Cou and 32 KTS at th	Γ Γ inty Mountains a	nd Deserts not	0 rthwest wind	0 reached sp	peeds of 55 KTS at	Wind Mojave, 50 MPH at 1	indian Wells Canyon,
CAZ089>092	11         0400PS           12         0800PS           Two         consecutive	Γ Γ e mornings of fr	ost on the Ce	0 ntral and Sou	0 thern San	1 2	ey Frost loor saw minimum te 27F. No damage to tl	1 0 1
CAZ096>097	S Sierra Mtns 14 0000PS 1600PS	Г	Mtns	0	0		Winter Storm	
CAZ098>099	Indian Wells V 14 0713PS 2315PS	Vly - Se Kern Г	Cty Desert	0	0		High Wind (G80)	М
CAZ095	Kern Cty Mtn 14 0953PS 2359PS A classic winter elevations of the hours. Indian W	s F F storm moved the Southern Sierra Yells Canyon rec	Ostrander Lak orded wind gu	te received 23 1sts to 63 KT	" of snow S while N	in 16 hours, while Mojave Airport read	Wind tial snowfall and high chagoopa Plateau ha ched 80 KTS in the l	d 13" in less than 10
CAZ089>092	16 0200PS 0800PS Following the micronsistent on the	<b>Γ. Valley - E C</b> Γ Γ orning of the 15 Central and Sou	entral S.J. V th when a few th San Joaquir	Valley - Sw 3 0 7 minimum te 1 Valley floor	S.J. Vall 0 mperature on the mo	ey - Se S.J. Valless were reported ar prning of the 16th a	ey Frost ound 30 degrees, tem s minimums ranged fi ted. Durations below	om 28-32F with only
CAZ089>090	W Central S.J 18 0530PS 0930PS	Г Г		0	0 t in Merce	ed, Madera, and Fre	Fog esno Counties.	
CAZ089>092	W Central S.J 18 1921PS 19 1135PS	<b>Γ. Valley - Ε C</b> Γ Γ e and early-form	entral S.J. V	valley - Sw 2 0	S.J. Vall 0 ening of t	<b>ey - Se S.J. Vall</b> he 18th through mu		the 19th. Visibilities
CAZ093>094-096>097	S Sierra Footh 19 2200PS 21 1000PS	nills - Tulare ( Г Г	Cty Foothills		1	fulare Cty Mtns	Winter Storm	
CAZ098>099	Southern Sierra h low as 2500 feet	Γ Γ ted 15" and Gian nad 20." Park Se MSL in the foot	nt Forest with rvice reported hills in Maripo	9" new snow sa County and	in Yosem 1 3000 fee	nite Valley and 8" f t in the Tulare Cou	Wind fountains while Uppe from Sequoia Dispatci nty foothills. With th during the afternoon o	n with snow levels as episode, gusty wind

#### Storm Data and Unusual Weather Phenomena Path Time Path Number of Estimated December 2001 Local/ Length Width Persons Damage Standard Killed Character of Storm Location Date (Miles) (Yards) Injured Property Crops **CALIFORNIA**, South Central CAZ089>092 W Central S.J. Valley - E Central S.J. Valley - Sw S.J. Valley - Se S.J. Valley 0236PST Δ Fog 24 1100PST 26 Consecutive mornings from the 24th through the 26th had reports of widespread dense fog in the Central and Southern San Joaquin Valley. Visibility was described as "critical" on the morning of the 25th and as low as 100 feet on the 26th in the South Valley in the vicinity of Bakersfield. CAZ096>097 S Sierra Mtns - Tulare Cty Mtns 1600PST A 0 Winter Storm 28 1400PST 29 Although snow levels were quite high (above 8500 feet MSL), snow amounts were quite significant such as the 36" of new snow at Wet Meadows in Tulare County and 31" at West Woodchuck Meadow in the Southern Sierra. CAZ096>097 S Sierra Mtns - Tulare Cty Mtns 1600PST 0 0 Winter Storm 30 0300PST 31 A fast moving winter frontal passage deposited significant amounts of snow in less than 12 hours at only the high elevations of the Southern Sierra Nevada. Mitchell Meadow in the S.Sierra had 19" of new snow in 9 hours while Wet Meadows in Tulare County had 28" in 11 hours. Lodgepole received 0.94" of rain on Sunday the 30th (right at the snow line). Valley rainfall amounts: Exeter 1.44", Visalia 1.08", Fresno 0.63", and Porterville 0.43". While November and December were much above normal in precipitation for Interior Central California, Northern California indices showed rainfall at 152% of average-to-date. **CALIFORNIA**, Southeast **CAZ026 Owens Valley 0810PST** High Wind (G80) 0 0 14 Very strong winds were reported in the town of Aspendell by a trained spotter. His wind equipment was destroyed by the winds and the house shook for several hours. He estimated wind speeds over 90 mph. **CALIFORNIA**, Southwest San Bernardino County Mountains - San Diego County Mountains CAZ055-058 0059PST 03 0 Fog 0858PST Dense fog with visibility less than 10 feet was reported along the south slopes of the San Bernardino Mountains from the Cajon Pass to Running Springs, and along the south and west slopes of the Laguna Mountains. **CAZ043** San Diego County Coasts 1000PST 0 20K **Heavy Surf** 03 04 1100PST Ocean Beach Pier was slightly damaged by waves breaking over the top of it. The Crystal Pier in Pacific Beach was also closed due to high waves. CAZ042-048>050-057 Orange County Coastal Plain - San Bernardino County Valley/The Inland Empire - Riverside County Valley/The Inland Empire - San Diego County Valleys - Santa Ana Mountains And Foothills 0950PST High Wind (G87) M 07 0 3 250K 0345PST 08 Moderate to strong Santa Ana winds affected most of Southwest California. Trees, power lines, and signs were toppled. Two constructions workers were injured when a 20 foot brick wall they were working next to collapsed. A driver was injured when his semi-tractor trailer rig was overturned. Several major Interstate Freeways were closed to high profile vehicles until the winds subsided. Power outages affected about 40,000 customers. San Diego County 1045PST 0 1 2MWild/Forest Fire Potrero 08 1500PST 11 A brush fire, started by a house electrical fire, was pushed by Santa Ana winds that reached 50 mph. The blaze quickly grew out of control, consuming several hundred acres within in a few hours. A total of 1200 acres were burned before it was fully contained three days later. Two houses, six mobile homes, several outbuildings, and motor vehicles were destroyed. Most of the town's residents were evacuated. Only one injury occurred to a resident from smoke inhalation. Over 300 firefighters fought to protect property and quench the fire, the estimated cost of fighting the fire was \$616,000. CAZ055 San Bernardino County Mountains 10 0900PST 0 0 Winter Weather Mix 11 0849PST Three to seven inches of snow fell at elevations above 4000 feet. Mountain highways were closed for several hours due to motor vehicle accidents and icy conditions.

		Time Local/	Path Length	Path Width	Number Persor		Estimated Damage		December 200		
Location	Date	Standard	(Miles)	(Yards)	Killed I	njured	Property Crops	Character of Storm			
CALIFORNIA, Southy											
CAZ048>049	San E 15	Bernardino C 1430PST	ounty Val	lley/The Inl	and Empire 0	- Rive	rside County Vall 30K	ey/The Inland Er High Wind (G5)			
		1845PST lines were blow of 40 mph were			and and Homel	and in I	Riverside County, aff	ecting 2400 custome	ers. In Rialto, sustaine		
CAZ050-055>056-058	San Diego County Valleys - San Bernardino County Mountains - Riverside County Mountains - San										
		ty Mountains 1700PST			0	0		Winter Weather	-		
							lity was less than 10 using minor street flo		g. Winds were gustir		
CAZ057	Santa 24	Ana Mounta 0200PST 0400PST	ains And 1	Foothills	0	0	-	High Wind (G5	9) <sup>M</sup>		
San Diego County Lakeside	27	1630PST 1730PST			0	0		Wild/Forest Fire	e		
	A brus		south side	of Interstate 8	near Dunbar L	ane bac	ked up commuter tra	ffic for several hours	S.		
CAZ043		Diego County	Coasts								
	<b>30</b> A rogi	1630PST ie wave capsize	ed a 12 foot	fishing boat	1 at the mouth o	1 f Ocear	2.5K side harbor. One ma	Heavy Surf in drowned, the othe	r was injured when !		
		e boat were toss							i was injured when i		
CALIFORNIA, Upper											
CAZ081-084	Centi 01	ral Siskiyou ( 0752PST	County - N	Northeast Si	skiyou And 0	Northy 0	west Modoc Coun	ties Winter Storm			
	02	1743PST			÷						
	A Win on 12/ for CA zone o met wa	nter Storm Warr 01/01. At 1726 AZ080 and CAZ only verified wir	iing was iss PST on 12/ 2082 was up id and snow	ued for CAZO (01, it was down opgraded to a V v advisories.	080/082 above wngraded to a I Winter Storm V The reports abo	3000 fe Heavy S Varning we actu	0 PST. 0.68 inches v et at 2225 PST on 11 now Warning. At 04 . It did snow and th ally came from zones vere the only ones rec	/30/01 and raised to 400 on 12/02/01, the wind did blow, but a CAZ081 and CAZ0	warning was cancelled to the reports from the 084, but conditions the		
CAZ082		n Central Sisl	kiyou Cou	nty	0	0					
	05 A spot	0900PST ter at Mt. Shast	a Ski Resor	t reported 12 t	0 to 18 inches of	0 snow o	vernight.	Heavy Snow			
	The re	port above wou	uld verify a	Heavy Snow	Warning, but	none w	ere issued for this ze as the snow amounts	•			
CAZ082	South 13	1 Central Sisl 1429PST	ciyou Cou	nty	0	0		Winter Storm			
	Spotte	r SY39 reported				ids 30 to	5 35 mph and heavy s - Modoc County				
082-082-085	13	2014PST			0	0		Heavy Snow			
	The at CAZ0 were is	80/082 and a sn	verified for low advisor ST on 12/13	a Heavy Snov y was issued f 3 and expired	w Warning. Ho for the remaini at 0520 PST or	wever, ng Calin 12/14.	a Winter Storm Warr fornia zones. The W It appears from the	inter Storm Warning	g and Snow Advisori		
CAZ082-082-082	South	n Central Sisl	kiyou Cou	nty							
		0616PST			0	0		Heavy Snow			

		Time	Path	Path	Number		Estimated		December 200	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed I	ns njured	Damage Property Crops	Character of Storm		
CALIFORNIA, Uppe	r									
CAZ082		Central Sisl	kiyou Cou	nty						
	19 Mt Sh	<b>0809PST</b> asta Ski Park re	morted 10 in	chec of snow	0 in 24 hours on	0 ding at (	1900 DST	Heavy Snow		
	The ob Warnin expired early h indicat	oservation aboving was issued d at 1900 PST hours of that wa and that the bul	e verified a for zone CA on 12/18. T rning, indica k of the sno	Heavy Snow 2082 above The next Winte ating that the so w fell between	Warning, but 4000 feet at 1 er Storm Warr now fell in the en 0600 PST a	apparen 258 PS ning was previou and 1800	tly a good bit of it f $\Gamma$ on 12/17, lowered issued at 0620 PST is 24 hours. A snow 0 PST on 12/18, so it	fell "between" warnir to 3500 feet at 042 on 12/19. This repo measuring device at it appears that this w vy Snow Warning cri	2 PST on 12/18, a ort came in during t Sand Flat at 6750 for arning was cancell	
CAZ081-081-081>082- 082-082	Centr	al Siskiyou (	County - S	outh Centra	al Siskiyou C	County				
	20	0600PST 0930PST			0	0		Heavy Snow		
	A Win PST of	r SY94 reported iter Storm War	ning was iss bove report	ued for Califo s, which verif	ornia zones CA ied the warnin	AZ080/08 ag amour	nts, also indicate that	at 0620 PST on 12/19 t the bulk of the snow	*	
CAZ081>082-082	Central Siskiyou County - South Central Siskiyou County 22 0800PST 0 0 Hea 1000PST								Heavy Snow	
C 4 7001	-	r SY84 northea		at 4100 feet re	ported 10 inch	es snow	in 10 hours ending a	t 1000 PST.		
CAZ081	Centr 22	al Siskiyou ( 1000PST	County		0	0		High Wind (G45)	) м	
	A Sno	A device museus				T on 12/				
	to a He Warnii Based	eavy Snow Wa ng was issued for on the above re	rning for zo or CAZ081	ne CAZ082 a at 0626 PST o	2/21 for Calife t 0930 on 12/2 on 12/22. The	ornia zor 22 in resp warnings	nes CAZ080/082 abo ponse to the first two s and advisory were o	ove 3000 feet. The ad o reports above. In a expired at 1400 PST of 0/081/082 along with	ddition, a High Wi on 12/22.	
C 4 7001 001	to a He Warnin Based CAZ08	eavy Snow Wa ng was issued f on the above re 81.	rning for zo or CAZ081 eports, a He	ne CAZ082 a at 0626 PST o	2/21 for Calife t 0930 on 12/2 on 12/22. The	ornia zor 22 in resp warnings	nes CAZ080/082 abo ponse to the first two s and advisory were o	o reports above. In a expired at 1400 PST of	ddition, a High Wi on 12/22.	
CAZ081-081	to a He Warnin Based CAZ08	eavy Snow Wa ng was issued f on the above re 81. •al Siskiyou ( 1349PST	rning for zo or CAZ081 eports, a He	ne CAZ082 a at 0626 PST o	2/21 for Calife t 0930 on 12/2 on 12/22. The	ornia zor 22 in resp warnings	nes CAZ080/082 abo ponse to the first two s and advisory were o	o reports above. In a expired at 1400 PST of	ddition, a High Wi on 12/22. a Wind Advisory f	
CAZ081-081	to a He Warnin Based CAZ03 Centr 27 Spotter The ab	eavy Snow Wa ng was issued f on the above re 81. <b>*al Siskiyou (</b> 1349PST 1512PST r SY94 between pove reports exc	rning for zo or CAZ081 eports, a He C <b>ounty</b> n Mt. Shasta reeded High	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir	2/21 for Calife t 0930 on 12/2 n 12/22. The rning should h 0 ported southeas ag criteria in th	ornia zoi 22 in resp warning: nave bee 0 st winds ae Weed	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind	o reports above. In a expired at 1400 PST of 0/081/082 along with	ddition, a High Wi on 12/22. a Wind Advisory t	
CALIFORNIA, West	to a He Warnin Based CAZ03 Centr 27 Spotter The ab the onl South	eavy Snow Wa ng was issued f on the above re 81. <b>*al Siskiyou (</b> 1349PST 1512PST r SY94 between pove reports exc by reports that n <u>Central</u>	rning for zo or CAZ081 eports, a He C <b>ounty</b> n Mt. Shasta weeded High net the warn	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an	2/21 for Calife t 0930 on 12/2 n 12/22. The rning should h 0 ported southeas ag criteria in th	ornia zoi 22 in resp warning: nave bee 0 st winds ae Weed	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind	o reports above. In a expired at 1400 PST of 0/081/082 along with <b>High Wind (G66</b> ) d advisory was in eff	ddition, a High Wi on 12/22. a Wind Advisory f	
CAZ081-081 <u>CALIFORNIA, West</u> CAZ034	to a He Warnin Based CAZ03 Centr 27 Spotter The ab the onl South	eavy Snow Wa ng was issued f on the above re 81. <b>*al Siskiyou (</b> 1349PST 1512PST r SY94 between ove reports exc y reports that n <u>Central</u> Juis Obispo ( 0800PST	rning for zo or CAZ081 eports, a He C <b>ounty</b> n Mt. Shasta weeded High net the warn	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an	2/21 for Calife t 0930 on 12/2 n 12/22. The rning should h 0 ported southeas ag criteria in th	ornia zoi 22 in resp warning: nave bee 0 st winds ae Weed	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind	o reports above. In a expired at 1400 PST of 0/081/082 along with <b>High Wind (G66</b> ) d advisory was in eff	ddition, a High Wi on 12/22. a Wind Advisory f ) ect. Since these we	
CALIFORNIA, West	to a He Warnin Based CAZ03 Centr 27 Spotter The ab the onl South San I 07 Gusty	eavy Snow Wa ng was issued f on the above re 81. <b>*al Siskiyou (</b> 1349PST 1512PST r SY94 between ove reports exc y reports that n <u>Central</u> uis Obispo ( 0800PST 1300PST	rning for zo or CAZ081 - eports, a He C <b>ounty</b> n Mt. Shasta reeded High net the warn C <b>ounty Ce</b> s knocked o	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an <b>ntral Coast</b> down power 1	2/21 for Calife t 0930 on 12/2 n 12/22. The ming should h 0 ported southeas g criteria in the advisory may 0 ines and small	ornia zoi 22 in resp warning: have bee 0 st winds have be 0 have be	nes CAZ080/082 abc ponse to the first two s and advisory were o n issued for CAZ080 40g61 mph. area, but only a wind en the appropriate re	o reports above. In a expired at 1400 PST of 0/081/082 along with High Wind (G66) d advisory was in eff sponse to this event.	ddition, a High Wi on 12/22. a Wind Advisory f ect. Since these we	
CALIFORNIA, West CAZ034	to a He Warnin Based CAZ03 Centr 27 Spotter The ab the onl South San I 07 Gusty	eavy Snow Wa ng was issued f on the above re 81. <b>*al Siskiyou (</b> 1349PST 1512PST r SY94 between ove reports exc y reports that n <u>Central</u> Luis Obispo ( 0800PST 1300PST northeast wind	rning for zo or CAZ081 - eports, a He C <b>ounty</b> n Mt. Shasta reeded High net the warn C <b>ounty Ce</b> s knocked o	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an <b>ntral Coast</b> down power 1	2/21 for Calife t 0930 on 12/2 n 12/22. The ming should h 0 ported southeas g criteria in the advisory may 0 ines and small	ornia zoi 22 in resp warning: have bee 0 st winds have be 0 have be	nes CAZ080/082 abc ponse to the first two s and advisory were o n issued for CAZ080 40g61 mph. area, but only a wind en the appropriate re	o reports above. In a expired at 1400 PST of D/081/082 along with High Wind (G66) d advisory was in eff sponse to this event. High Wind (G52)	ddition, a High Wi on 12/22. a Wind Advisory f ect. Since these we	
C <u>ALIFORNIA, West</u> CAZ034	to a He Warnin Based CAZ03 Centr 27 Spotter The ab the onl South San L 07 Gusty betwee 07	eavy Snow Wa ng was issued f on the above re 81. <b>al Siskiyou (</b> 1349PST 1512PST r SY94 between ove reports exc y reports that n <u>Central</u> Juis Obispo ( 0800PST 1300PST northeast wind en 25 and 35 m 1730PST	rning for zo or CAZ081 eports, a He County a Mt. Shasta eeeded High het the warn County Ce s knocked o bh with loca	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an <b>ntral Coast</b> down power 1 l gusts as high	2/21 for Calife t 0930 on 12/2 n 12/22. The arring should h opported southeas ag criteria in the advisory may 0 ines and small as 60 mph. 1	ornia zoi 22 in resp warning: nave bee 0 st winds be Weed have be 0 1 trees in 1	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind en the appropriate re	o reports above. In a expired at 1400 PST of D/081/082 along with High Wind (G66) d advisory was in eff sponse to this event. High Wind (G52) Morro Bay. Wind sp Rip Currents	ddition, a High Wi on 12/22. a Wind Advisory f ) ect. Since these we ) peeds were estimat	
CALIFORNIA, West CAZ034 Los Angeles County	to a He Warnin Based CAZ03 Centr 27 Spotter The ab the onl South San L 07 Gusty betwee 07 Gusty	eavy Snow Wa ng was issued f on the above re 81. <b>al Siskiyou (</b> 1349PST 1512PST r SY94 between ove reports exe y reports that n <u>Central</u> .uis Obispo ( 0800PST 1300PST northeast wind en 25 and 35 m 1730PST north winds ge r was injured.	rning for zo or CAZ081 eports, a He County a Mt. Shasta eeeded High het the warn County Ce s knocked o bh with loca	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an <b>ntral Coast</b> down power 1 l gusts as high	2/21 for Calife t 0930 on 12/2 n 12/22. The arring should h opported southeas ag criteria in the advisory may 0 ines and small as 60 mph. 1	ornia zoi 22 in resp warning: nave bee 0 st winds be Weed have be 0 1 trees in 1	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind en the appropriate re	o reports above. In a expired at 1400 PST of 0/081/082 along with <b>High Wind (G66)</b> d advisory was in eff sponse to this event. <b>High Wind (G52)</b> Morro Bay. Wind sp	ddition, a High Wi on 12/22. a Wind Advisory f ) ect. Since these we ) peeds were estimat	
CALIFORNIA, West CAZ034 Los Angeles County 3 W Malibu	to a He Warnin Based CAZ03 Centr 27 Spotter The ab the onl South San L 07 Gusty betwee 07 Gusty anothe M55IV Ventu	eavy Snow Wa ng was issued f on the above re 81. <b>*al Siskiyou (</b> 1349PST 1512PST r SY94 between ove reports exc by reports that n <u>Central</u> uis Obispo ( 0800PST 1300PST northeast wind en 25 and 35 mp 1730PST north winds ge r was injured. V Ira County (	rning for zo or CAZ081 - eports, a He County n Mt. Shasta reeded High net the warn County Ce s knocked o oh with loca nerated dang	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an <b>ntral Coast</b> down power 1 l gusts as high	2/21 for Calife t 0930 on 12/2 n 12/22. The ming should h operated southeas ge criteria in the advisory may 0 ines and small as 60 mph. 1 ents off the co	ornia zoi 22 in resp warning: nave bee 0 st winds he Weed have be 0 l trees in 1 past of M	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind en the appropriate re	o reports above. In a expired at 1400 PST of 0/081/082 along with High Wind (G66) d advisory was in effi- sponse to this event. High Wind (G52) Morro Bay. Wind sp Rip Currents atts capsized a kayak. (	ddition, a High Wi on 12/22. a Wind Advisory f ) ect. Since these we ) peeds were estimat	
CALIFORNIA, West CAZ034 Los Angeles County 3 W Malibu	to a He Warnin Based CAZ08 Centr 27 Spotter The ab the onl South San L 07 Gusty betwee 07 Gusty anothe M55TV Ventu 09	eavy Snow Wa ng was issued f on the above re al Siskiyou ( 1349PST 1512PST r SY94 between ove reports exc by reports that n <u>Central</u> Juis Obispo ( 0800PST 1300PST northeast wind en 25 and 35 mj 1730PST north winds ge r was injured. W tra County ( 1100PST 1700PST	rning for zo or CAZ081 - eports, a He County n Mt. Shasta weeded High net the warn County Ce s knocked o sh with loca herated dang Coast	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an <b>ntral Coast</b> down power 1 l gusts as high gerous rip curr	2/21 for Calife t 0930 on 12/2 n 12/22. The rning should h 0 ported southeas ng criteria in th advisory may 0 ines and small as 60 mph. 1 ents off the co 0	ornia zoi 22 in resp warning: nave bee 0 st winds he Weed have be 0 1 trees in 1 hast of M 0	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind en the appropriate re n the community of falibu. The rip curren	o reports above. In a expired at 1400 PST of D/081/082 along with High Wind (G66) d advisory was in eff sponse to this event. High Wind (G52) Morro Bay. Wind sp Rip Currents atts capsized a kayak. ( Wind	ddition, a High Wi on 12/22. a Wind Advisory : ) ect. Since these we ) peeds were estimat	
CALIFORNIA, West CAZ034 Los Angeles County 3 W Malibu	to a He Warnin Based CAZ08 Centr 27 Spotter The ab the onl South San L 07 Gusty betwee 07 Gusty anothe M55IV Ventu 09 Gusty	eavy Snow Wa ng was issued f on the above re al Siskiyou ( 1349PST 1512PST r SY94 between ove reports exc by reports that n <u>Central</u> Juis Obispo ( 0800PST 1300PST northeast wind en 25 and 35 mj 1730PST north winds ge r was injured. W tra County ( 1100PST 1700PST	rning for zo for CAZ081 - eports, a He County in Mt. Shasta weeded High net the warn County Ce is knocked of oh with loca herated dang Coast ween 25 an	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an <b>ntral Coast</b> down power 1 l gusts as high gerous rip curr	2/21 for Calife t 0930 on 12/2 n 12/22. The rning should h 0 ported southeas ng criteria in th advisory may 0 ines and small as 60 mph. 1 ents off the co 0	ornia zoi 22 in resp warning: nave bee 0 st winds he Weed have be 0 1 trees in 1 hast of M 0	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind en the appropriate re n the community of falibu. The rip curren	o reports above. In a expired at 1400 PST of 0/081/082 along with High Wind (G66) d advisory was in effi- sponse to this event. High Wind (G52) Morro Bay. Wind sp Rip Currents atts capsized a kayak. (	ddition, a High Wi on 12/22. a Wind Advisory f ) ect. Since these we ) peeds were estimat One kayaker died a	
<u>CALIFORNIA, West</u> CAZ034 Los Angeles County	to a He Warnin Based CAZ03 Centr 27 Spotter The ab the onl South San L 07 Gusty betwee 07 Gusty anothe M55IV Ventu 09 Gusty commu	eavy Snow Wa ng was issued f on the above re 81. <b>*al Siskiyou (</b> 1349PST 1512PST r SY94 between ove reports exc by reports that n <u>Central</u> vuis Obispo ( 0800PST 1300PST northeast wind en 25 and 35 mp 1730PST north winds ger r was injured. W rra County ( 1100PST 1700PST west winds bet	rning for zo for CAZ081 - eports, a He County n Mt. Shasta reeded High net the warn County Ce s knocked of h with loca nerated dang Coast ween 25 an	ne CAZ082 a at 0626 PST o avy Snow Wa and Weed rep Wind Warnir ing criteria, an <b>ntral Coast</b> down power 1 l gusts as high gerous rip curr d 35 mph know	2/21 for Calife t 0930 on 12/2 n 12/22. The rning should h 0 ported southeas ng criteria in th advisory may 0 ines and small as 60 mph. 1 ents off the co 0	ornia zoi 22 in resp warning: nave bee 0 st winds he Weed have be 0 1 trees in 1 hast of M 0	nes CAZ080/082 abc ponse to the first two s and advisory were of n issued for CAZ080 40g61 mph. area, but only a wind en the appropriate re n the community of falibu. The rip curren	o reports above. In a expired at 1400 PST of D/081/082 along with High Wind (G66) d advisory was in eff sponse to this event. High Wind (G52) Morro Bay. Wind sp Rip Currents atts capsized a kayak. ( Wind	ddition, a High Wi on 12/22. a Wind Advisory f ) ect. Since these we ) peeds were estimat One kayaker died a	

St	tori	n Data	and	Unus	ual W	/eat	her Phen	iomena
		Time	Path	Path	Numb		Estimated	December 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Damage Property Crops	Character of Storm
CALIFORNIA, West S	South	Central						
Ventura County Ventura	20	1913PST			0	0		Urban/Sml Stream Fld
ventura		ther spotter repo	rted street f	looding in the	0		ra.	orban/sin su cam Fiu
Los Angeles County				-				
Walnut	21	0040PST	0.1	10	0	0		Tornado (F0)
	In the	0050PST	Valnut a w	eak tornado to	uched down	in the e	orly morning hours S	everal homes sustained minor roof damag
		out 30 trees we					any monning nours. S	evenu nomes sustanted minor roor during
CALIFORNIA, Weste	rn							
Santa Cruz County								
2 N Watsonville Muni A	20	1620PST 1638PST			0	0	100K	Hail (0.75)
	From		system 3/4	inch hail wa	as reported c	overing	the ground 2 nm n	of Watsonville. The hail damaged a large
Santa Cruz County	greenh	iouse. In a separ	ate report th	ere was golf l	oall sized hail	reported	l in the same area.	
2 N Watsonville Muni A	20	1645PST	0.5	60	0	0	250K	Tornado (F1)
3 NE Watsonville Muni		1650PST						
Arp	A min	or tornado was	spawned fro	om a line of c	onvection acr	oss the l	Monterey bay that we	ent ashore near Watsonville CA. The storn
								ers, then about a half a mile to the east tor
Santa Cruz County	the off	on a barn as w	ell as downi	ng some mate	eure ( 5 feet if	i diameto	er) euclyptus trees.	
2 NE Watsonville	20	1900PST			0	0		Hail (1.00)
Monterey County		1020000			0	0		W 11 (0 55)
(Mry)Monterey Arpt	20	1920PST			0	0		Hail (0.75)
<u>COLORADO, Central</u> COZ033-035>036	S & Coun / Ne I 05 06 High v Ridge,	E Jackson / 1 ties Between Park Counties 2353MST 0935MST winds developed , 80 mph (70 kts	6000 & 90 5 Below 90	000 Feet - Joo Feet 1000 Feet	efferson & 0 nountains and	W Dou 0 1 foothil	glas Counties Abo 0 ls. Peak wind report	ve 9000 Feet - Larimer & Boulder ove 6000 Feet / Gilpin / Clear Creek High Wind (G89) <sup>M</sup> is included: 102 mph (89 kts) atop Niwo Aspen Springs and 72 mph (63 kts) at Rec
		er Lakes.						
COZ036			uglas Cou	nties Above		-		Ne Park Counties Below 9000 Feet
	28	0700MST 0730MST			0	0	0 0	High Wind (G75) <sup>M</sup>
	A win	d gust to 86 mpł	n (75 kts) wa	as recorded 1	mile south of	Fritz Pe	ak.	
COLORADO, East Ce	entral							
	NONE	E REPORTED.						
<u>COLORADO, South C</u> COZ061		rn San Juan		s				
002001	04	1600MST	iountain	3	0	0		Heavy Snow
	05 An un	0200MST	anaa braugk	t haavy aroa	anhia anow te	the cur	amit of Wolf Crook P	lass, which received up to 10 inches
0000		•			aprile show to	o the sun	minit of won Creek P	ass, which received up to 10 inches.
COZ065	Nortl 05	iern Sangre I 2359MST	De Cristo I	Mountains	0	0		High Wind (G87) <sup>M</sup>
	05 06	0115MST			U	U		
	An up	per level disturb	ance genera	ted high wind	ls, which gust	ed up to	100 mph, 8 miles we	st of Westcliffe in Custer county.
COZ061	Easte	rn San Juan	Mountain	s				
	10 11	1800MST 0400MST			0	0		Heavy Snow
			ance produc	ced some heav	v snow The	highest	snow amount reporte	ed was at the summit of Wolf Creek Pass in

An upper level disturbance produced some heavy snow. The highest snow amount reported was at the summit of Wolf Creek Pass in Mineral county where 15 inches of snow was noted. South Fork tallied 5 inches of snow.

S	torr	n Data	and	Unus	ual W	'eat	her Phen	iomena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Perso Killed		Estimated Damage Property Crops	Dec Character of Storm	cember 2001
COLORADO, South	Centra	l and South	east						
COZ070-074-076	Wet 1	Mountains - 1	Upper Hu	ierfano Riv	er Basin/W	alsenb	urg And Vicinity	- Crowley And Otero	Counties/La
	Junta 12	And Vicinity 0400MST	7		0	0		Heavy Snow	
	heavie							s and plains of southeastern in Huerfano county, 6 inche	
COZ061	Easte 15	rn San Juan 1 0100MST 1600MST	Mountain	s	0	0		Heavy Snow	
	occurre	upper level distu		•	•			untains. The most significate lower elevations of Minera	
COLORADO, West COZ001>002-004-010- 013-018>019	Mour	-	Mount	ain Valley	-			l Park Mountains - G western San Juan N	
	04 05	1530MST 0600MST			<b>0</b> preceded by a	0 1 moist s	southwester flow alof	Heavy Snow	ot of new snow
								tions on the northwest plate	
COZ004-010-013	06 07 A slow gusted	1800MST 1300MST v-moving upper to over 40 mph	level storm	n system brou ear-blizzard co	<b>0</b> aght over a foo onditions in so	0 ot of ne me area	w snow to most mou	n Valleys - Flattop Mou Winter Storm Intain areas in northwest C ted snow accumulations incl site.	olorado. Winds
COZ009-018>019					-			western San Juan Mou	ntains
	10 11	1500MST 1100MST			0	0		Heavy Snow	
		ific trough prod n Colorado.	uced 6 to	11 inches of	new snow in	the wes	tern San Juan Moun	tains and some central mo	untain areas of
COZ003>004-009>010- 012>013-017>019- 021>023	Mour Platea	ntains/Central au And Dalla	l Mountai s Divide	n Valleys - - Northwes	West Elk A tern San Ju	nd Saw an Mo	vatch Mountains -	- Flattop Mountains - U vestern San Juan Mour	ncompahgre
	A stro helped receive	ng storm system to produce 12 t ed 5 to 8 inches	o 16 inches of snow, wl	s of snow ove nile lower elev	r the southwes vation areas in	st San Ju the sout	uan Mountains. Most thwest corner of Colo	southwest flow associated other mountain areas in we brado received 3 to 8 inches. and reduced visibilities in bl	estern Colorado Wind gusts of
COZ004-009>010- 012>013-018								d Elk Mountains/Centr stern San Juan Mounta Heavy Snow	
		per level low pre t reported was 1				f new si	now over most moun	tain areas of western Colora	do. The highest
COZ011-018-020>021		r Dolores Riv		. 0			rthwestern San J es River Basin	uan Mountains - Para	dox Valley /
	29 30	1800MST 1200MST			0	0		Heavy Snow	
		st northwest flow	-				northwest San Juan I Northdale, just north	Mountains, and 3 to 7 inches west of Dove Creek.	s at some lower

S	tori	m Data	and	Unus	ual W	eath	ner P	hen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Person Killed Iı		Estimat Damag Property		Character of Storm	December 2001
CONNECTICUT, Not	rtheast	<u>t</u>								
	NONE	E REPORTED.								
CONNECTICUT, Not										
	NONE	E REPORTED.								
CONNECTICUT, Sou	ithern									
	NONE	E REPORTED.								
<u>DELAWARE</u> DEZ001>004	01 31 Decem fell in precipi Castle Creek crops a Selbyv	December than is itation totals ave County Airport reached a 54 ye as cereal grains ville was badly pa	d the sixth in October raged 2.0 i near Wilmi ar low on 1 and crops t arched. The	consecutive m or November, nches, while n ngton. Only 4.2 December 3rd, to protect the e lack of precip	0 nonth of below it was still on normal is arou 29 inches of p flowing at or environment w itation in the l	0 y normal ly about nd 3.5 in recipitati ne-third vere not Delaware	60 percent of nches. This on fell. Nor of its usual growing we River Basi	of norma was afte mal is 9.3 rate for ell. The 0	<ol> <li>On a county weight r the driest autumn 58 inches. The flow the date. The dry we Great Cypress Swan</li> </ol>	y ile more precipitation nted average, monthly on record at the New along the Brandywine eather affected winter up near Gumboro and rer Basin Commission
DEZ001-001>002- 002>003-003>004-004		lare a "drought" o Castle - Kent				•	ie roui.			
	record were s brough	breaking warm set on the 1st, 5t nt readings closer	weather from h and 6th i r to seasona	om November n many locatio al levels. The v	30th through ons with high varmest day fo	Decemb tempera or most a	er 6th to De tures reaching treas was the	elaware. ng into tl e 5th. Hij	Daily record break he 70s. A cold front	ght unseasonably and ing high temperatures al passage on the 7th ncluded 76 degrees in
DEZ001>004	31 Decent New C	Castle County Ai was 42.2 degree	n unseason irport. The	ably warm mo monthly mean	0 onth in the sta temperature	0 te of Del of 42.5 c	legrees was	6.7 degi	ees above normal.	arm mber on record at the Fhe previous monthly degrees warmer than
DISTRICT OF COLU	JMBIA	<u>\</u>								
FLORIDA, East Cent		E REPORTED.								
	NONE	E REPORTED.								
FLORIDA, Extreme S	Southe	<u>rn</u>								
	NONE	E REPORTED.								
<u>FLORIDA, Northeast</u> Duval County	<u>ern</u>									
Countywide	10 Numo	0830EST 1200EST rous roadway clo	sings due t	o haavy rainfal	0 L during the m	0 Iorning h	ours		Urban/Sml Strea	m Fld

Numerous roadway closings due to heavy rainfall during the morning hours.

St	torr	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		Estimate Damag Property		December 200 Character of Storm
FLORIDA, Northwest FLZ017	Leon 27 An eld	ered near a shopp							<b>Extreme Cold</b> mperature was 24 degrees. His body was d by the Tallahassee Democrat.
<u>FLORIDA, Southern</u> FLZ063-066>067-070	27 The fir Florida		s of the seas s of light fi	son dropped o ost occurred	0 overnight air	0 tempera			<b>Extreme Cold</b> nd mid 30s over interior sections of south Eastern Collier and western Palm Beach
FLORIDA, West Cent FLZ039-042>043- 048>052-055>056-060		- Citrus - Sum 0400EST	iter - Her	nando - Pas	co - Pinella 0	ıs - Hill 0	sborough -	Polk -	Manatee - Hardee - Sarasota Fog
FLZ039-042>043-048	Light e 9th. V	0900EST ast winds and an isibility was redu - Citrus - Sum 0400EST	iced to near	zero in many		wath of			fog across west central Florida early on the ording 1/4 mile or less.
	early o	<i>v</i> 1	v temperatu	res fell into t	he mid and u	pper 20s	in Levy Cou	unty, and	minor freeze event across the Nature Coas d near 30 elsewhere. Coastal locations o
<u>FLORIDA, West Pank</u> Escambia County Pensacola Beach	17	<b>1200CST</b> surf and strong r	ip currents	claimed the li	1 fe of a man v	0 vho drow	ned in the wa	aters just	<b>Rip Currents</b> t off Pensacola Beach.
<u>GEORGIA, East Cent</u> Columbia County									
Appling Richmond County	17 Sheriff	1926EST reported trees do	own on Ray	Owning road	0 l in Appling.	0	0	0	Thunderstorm Wind (G50)
Ft Gordon	17 SKYW	2010EST ARN spotter rep	orted powe	rlines and lar	0 ge branches d	0 own.		0	Thunderstorm Wind (G50)
Columbia County Martinez	17 SKYW	2022EST ARN spotter rep	orted powe	rlines and lar	0 ge branches d	0 own.		0	Thunderstorm Wind (G50)

**GEORGIA**, Lower

NONE REPORTED.

		Time	Path	Path	Number		Estimated		December 2001	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed I	ns njured	Damage Property C	rops Character of S	Storm	
GEORGIA, North and	l Cent	ral								
GAZ001>009-011>016- 019>025-027-030>039- 041>062-066>076- 078>086-089>098- 102>113	Dade Picker - Poll- Haral Taliaf Warro Jeffer Chatt	- Walker - C ns - Dawson - < - Paulding - son - Carroll ferro - Heard en - Troup - N son - Harris - ahoochee - M	Lumpkin - Cobb - - Douglas - Coweta Meriwetha Talbot - ' Iarion - S	- White - l North Ful s - South I a - Fayette er - Pike - Taylor - Cl Schley - M	Floyd - Bart ton - Gwini Fulton - De - Clayton - Upson - Lai rawford - Bi acon - Peac	ow - Cl nett - I Kalb - Spaldi nar - N ibb - Ty ch - Ho	herokee - Fo Barrow - Cl Rockdale - ing - Henry Aonroe - Jon wiggs - Wilk Duston - Ble	rsyth - Hall - Ban arke - Oconee - Walton - Newton - Butts - Jasper nes - Baldwin - W inson - Johnson -	ks - Jackson - Madison Oglethorpe - Wilkes - 1 - Morgan - Greene - - Putnam - Hancock - ashington - Glascock - Emanuel - Muscogee - - Treutlen - Stewart - omery - Toombs	
	Unseas front m were co were b and cer did not degrees 8th, the all time Atlanta stations	conably warm ter- noved through on ommon during the elow 60 degrees intral Georgia dur t occur at Atlant s at the Atlanta a termperature in e record high ter- s's Hartsfield Inter-	h the 23rd d he first 23 d . Low temp ring Decemb a's Hartsfie airport all b Atlanta reac mperature f ernational A	id temperature days of the re- peratures were ber are in the ld Internation ut 3 days dure when or excess or December Airport avera	res drop to sea nonth, and the re mainly in the lower 50s wi nal Airport un ring the first 1 beded 70 degree of 79 degree ged nearly 11	sonal an are were the 40s du th norma til the 2 9 days o es, with a degrees	d below seasor very few days uring this same al daily lows in 1st of Decemb of the month. H a 75 degree rea the first 19 day above normal	hal levels. High temp during this same pe e period. Normal da the middle 30s. In per. Furthermore, th For 5 consecutive day ding on December 66 ys of the month, the . Departures from a	er. Only after a strong cold beratures in the 60s and 70s riod that high temperatures ily highs for much of north fact, a freezing temperature e temperature exceeded 60 ys from the 4th through the h only 4 degrees shy of the mean daily temperature at twerage for major reporting egrees at Macon, and +4.8	
GAZ001>009-011>016- 019>025-027-030>039- 041>062-066>076- 078>086-089>098- 102>113	Picker - Poll Haral Taliaf Warre Jeffer Chatt Webs 01	ns - Dawson -	Lumpkin - Cobb - - Douglas - Coweta Meriwetho Talbot - ' Iarion - S	- White - I North Ful s - South I a - Fayette er - Pike - Taylor - Ci Schley - M	Floyd - Bart ton - Gwini Fulton - De - Clayton - Upson - Lai rawford - Bi acon - Peac	ow - Cl nett - I Kalb - Spaldi nar - N ibb - Ty ch - Ho	herokee - Fo Barrow - Cl Rockdale - ing - Henry Aonroe - Jon wiggs - Wilk Duston - Ble	rsyth - Hall - Ban arke - Oconee - Walton - Newton - Butts - Jasper nes - Baldwin - W inson - Johnson -	ks - Jackson - Madison Oglethorpe - Wilkes - 1 - Morgan - Greene - - Putnam - Hancock - ashington - Glascock - Emanuel - Muscogee - - Treutlen - Stewart -	
	<b>31 2359EST</b> Very dry weather continued throughout December across all of north and central Georgia. December marked the 5th consecutive month of below normal rainfall for many locations, and the third consecutive month of much below normal rainfall for most of north and central Georgia. Significant rain fell on only 4 days at most locations across north and central Georgia, with daily amounts on these days averaging 0.50 inch or less. Monthly rainfall amounts for December were generally less than 2 inches. Specifically, rainfall amounts at the major reporting sites included 2.22 inches at Atlanta, 1.81 inches at Columbus, 1.58 inches at Macon, and 1.48 inches for Athens. October through December rainfall ranked among some of the lowest in history. Three month totals included 4.63 inches at Columbus, 4.18 inches at Macon, 4.02 inches at Atlanta, and 2.55 inches for Athens. The 3-month total of 2.55 inches recorded in Athens was the lowest amount of rainfall ever observed during these three months since 1931. For Atlanta, Macon, and Columbus, the October through December period ranked as the 2nd, 5th, and 3rd driest since 1931. Annual rainfall amounts for 2001 were below normal at many stations for the 4th consecutive year. Annual deficits averaged between 10 and 15 inches.									
GEORGIA, Northeast GAZ010-017>018-026- 028>029	-	n - Habershan	n - Stephe	ns - Frank	lin - Hart - I	Elbert				
V2V~ V2)	-		-	-		-	-	<b>Drought</b> - and becoming criti eported across all of N	cally important to more and Northeast Georgia.	
Elbert County 12 SE Elberton	17 3 trees	1811EST were blown dow	'n.		0	0		Thundersto	rm Wind (G50)	

S	orm Data an	d Unus	ual We	eather l	Phenom	nena	
Location	Time Path Local/ Len Date Standard (Mil	gth Width	Number o Persons Killed Inju	f Estin Dan ured Property	nage	racter of Storm	December 2001
GEORGIA, Southeast							
	Jenkins - Screven - Can Chatham - Coastal Chat 01 0000EST 31 2359EST Moderate drought conditions continued a monthly trend of	<b>ham - Long - In</b>	land Liberty 0 putheast Georgia	- Coastal Libe 0 a. Rainfall for th	erty - Inland N Dro	Icintosh - Co ought	astal Mcintosh
GEORGIA, Southwes							
	NONE REPORTED.						
GULF OF MEXICO Lake Ponchartrain And Lake Maurepas Mid Lke Pontchartrain	13 2112CST		0	0	Ma	rine Tstm Win	d
<u>HAWAII</u> HIZ004-008	North And East Hawaii 01 1400HST 17 1600HST	-	0	0	Hig	h Surf	-
HIZ004-007>008	A strong trade wind swell pr flowed across Route 137 near North And East Hawai Leeward Kohala And Ko 02 0620HST	Pohoiki Bay in the <b>i Including Wir</b>	e Puna District, ndward Koh	causing traffic de ala / Hamaku	elays from time to 1a / Hilo / Pu	time over the 1	6-day period.
HIZ001>008	1600HST Strong mid-level ridging caus Hawaii. No serious property Kauai - Oahu - Maui - Molokai - Lanai - West I	damage or injuries <ul> <li>North And Ea</li> </ul>	were reported. ast Hawaii In g Leeward K	ncluding Win Johala And Ko	of Mauna Kea a dward Kohala na - South Ha	nd Mauna Loa 1 / Hamakua waii Includir	/ Hilo / Puna -
	02 0915HST 03 1600HST A strong surface high north of The winds were strong enoug structures. However, no serio	gh to knock down s	some trees and		0 to 40 mph, wit	0	1 .
HIZ001>003-005	Kauai - Oahu - Maui - N 03 1200HST 16 0700HST A strong trade wind swell ger		0 0 15 feet along t	0 he east-facing sh		<b>h Surf</b> 1hu, Maui, and I	Molokai.
HIZ001>003-005>007	Kauai - Oahu - Maui - M 06 1300HST 07 1000HST A storm low far northwest of		0	0	Hig	h Surf	
HIZ001>008	Kauai - Oahu - Maui - Molokai - Lanai - West I 11 1700HST 14 1000HST			0	na - South Ha		
	The combination of a strong s east winds of 30 to 40 mph, v on Oahu. Also in Maui, pol Highway near Maalaea Harb School in Maui as well, forcir	with gusts to 55 mp lice said the strong or on the afternoon	bh, statewide. winds contribution of the 13th.	Frees and power uted to the death The strong winds	lines were felled of a motorcycli blew off roof sl	in the state, es st who was rid	pecially in Maui and ing on Honoapiilani
HIZ004-007>008	North And East Hawai Leeward Kohala And Ko 12 0800HST 14 1530HST An upper-level low passing s	ona - South Haw	vaii Including 0	g Kau 0	Hig	h Wind (G87)	J

		Time	Path	Path	Numb	er of	Estimated		December 2001
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso		Damage Property Crops	Character of Storm	Deceniuer 2001
						<b>J</b>	r y r		
<u>HAWAII</u> HIZ004-007>008		And East 1 ard Kohala A 1000HST 1530HST		0			′ Hamakua / Hilo u	/ Puna - West Winter Storm	Hawaii Including
	summit level, a	s of Mauna Ke	ea and Maun	a Loa. The	system dump	ed up to	theast winds of 60 to two feet of snow over Fahrenheit. However,	the two days above	the 12 thousand-foot
Maui County Countywide	Kilohan		School in I	East Molokai	was closed	on the 1	stream and drainage 3th due to a nearby ever.	-	ghout Maui County.
HIZ003		1830HST 1530HST er-air low pass No serious inju	•				vinds of 50 to 70 mph	High Wind (G61) near the summit of 2	
HIZ001>003-005>007	Kauai 16 17	- Oahu - Ma 1200HST 0200HST	aui - Molo	kai - Lanai	- West Hav 0	vaii Inc 0	cluding Leeward K	High Surf	ls.
HIZ001>003-005>007	23 24	0800HST 1400HST			0	0	cluding Leeward K	High Surf	
HIZ001>003-005>007	Kauai 25 28	- Oahu - Ma 1800HST 1200HST storm low sou	aui - Molo	kai - Lanai	- West Hav 0	vaii Inc 0	to 30 feet along the no	ohala And Kona High Surf	s of all the Hawaiian
HIZ001>008	Molok 28 31 Southw	ai - Lanai - 1700HST 0500HST	West Haw	<b>aii Includi</b> ancing cold f	ng Leeward 0 ront were in	<b>Kohal</b> 0 the 30- t	ling Windward K a And Kona - Sout o 40-mph range near f	h Hawaii Includi Wind Advisory	ng Kau
HIZ001>003-005>007	Kauai 29 31	- Oahu - Ma 1000HST 2359HST	aui - Molo	kai - Lanai	- West Hav	vaii Inc 0	cluding Leeward K	High Surf	islands.
IDAHO, Extreme Sout	heast			-			-	-	
	NONE	REPORTED.							
<u>IDAHO, North</u> IDZ005	North 01	ern Clearwa 0000MST 2345MST	iter Mount	ains	0	0		Heavy Snow	
IDZ005	inches a				our snowfall 0	totals we	ere: 11 inches at Hem	locke Butte, 18 inche Heavy Snow	s at Elk Butte, and 7

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated December 2001 Local/ Length Width Persons Damage Standard Date (Miles) (Yards) Killed Injured Property Crops Character of Storm **IDAHO**, North inches, Elk Butte 19 inches, Pierce 8 inches and Headquarters 9 inches. IDZ005>006-010 Northern Clearwater Mountains - Southern Clearwater Mountains - Eastern Lemhi County 1200MST 06 0 0 Heavy Snow 07 1200MST Winter storm brought heavy snow to north central and eastern Idaho. 24 hour snowfall totals were: Cool Creek 12 inches, Hemlocke Butte 18 inches, Elk Butte 23 inches, Headquarters 6 inches, Savage Pass 12 inches, and Saddle Mountain 11 inches. IDZ005>006-009>010 Northern Clearwater Mountains - Southern Clearwater Mountains - Western Lemhi County - Eastern Lemhi County 1600MST 0 0 **Heavy Snow** 12 1800MST 14 Major winter storm hit north central and eastern Idaho with wind gusts 40 to 50 mph and heavy snowfall for two days. Snowfall ranged from eight inches in the valleys with two to three feet of snow in the mountains. Some of the highest snowfall amounts in the mountains were Elk Butte 45 inches, Hemlocke Butte 36 inches, Cool Creek 34 inches, Mountain Meadows, Savage Pass and Saddle Mountain all recorded 15 inches. In the valleys, snowfall ranged from Elk City with 7 inches to 8 inches at Elk River and Shoup. Powell received 10 inches of snow.

Location

IDZ005>006-010

17 1600MST Heavy snow hit the Clearwater and eastern Lemhi County mountains for two days. Snowfall totals ranged from one to two feet.

0

Heavy Snow

Northern Clearwater Mountains - Southern Clearwater Mountains - Eastern Lemhi County

0

#### **IDAHO**, Northwest IDZ001-004 Northern Panhandle - Central Panhandle Mountains 01 0000PST 0 100K Winter Storm 1200PST An upper low level pressure trough moved across the Idaho panhandle, bringing heavy snow to the central and northern parts of the panhandle, mainly above 2500 feet elevation. The following are some of the heavier snowfall amounts: Silver Mountain Ski Area...12", Lookout Pass Ski Area...14", Schweitzer Ski Area...13", Saint Maries...5.4", and Priest River...5". While heavy snow typically takes place in this area several times each winter, this storm was unusually damaging when it dumped heavy, wet, sticky snow followed by wind gusts of 20 to 30 miles an hour. Most problems in the Idaho panhandle took place in Bonner County, where dozens of downed trees and power lines knocked power out to most customers in the Priest Lake area. IDZ001>004 Northern Panhandle - Coeur D'Alene Area - Idaho Palouse - Central Panhandle Mountains 04 0600PST **Heavy Snow** 1200PST A warm front moved across the Idaho panhandle in advance of an upper trough on the morning of December 4, bringing heavy snow to the central and northern panhandle. The following is a roundup of snowfall totals: Silver Mountain Ski Area...19", Lookout Ski Area...22", Schweitzer Ski Area...15", Sandpoint...4-8", Kellogg...5.7", Priest River...5.5", Wallace...5.2", Bovill...5", 5 N

1600MST

15

Moscow...5", Athol...5", Coeur D'Alene...4", Coolin...4", 2 SW Bonners Ferry...4", Saint Maries...4", 2 N Rathdrum...4". **IDZ003 Idaho Palouse** 2200PST A **Heavy Snow** 0 04 1000PST 05 A quick-moving low pressure system moved across the Palouse early on the morning of December 5, dumping heavy snow in a relatively small area near the path of the low pressure circulation center. Moscow measured 5" of snow. IDZ001-004 Northern Panhandle - Central Panhandle Mountains 0300PST 06 **Heavy Snow** 1500PST A low pressure system moving across British Columbia brought heavy snow to the central and northern Idaho panhandle on the morning of December 6 followed by snow showers continuing through the day. The following are snowfall totals associated with this storm: Lookout Pass Ski Area...18", Silver Mountain Ski Area...15", Schweitzer Ski Area...10", Alder Creek...6.3", Bovill...6", 7 N Athol...6", Wallace...5.6", Kellogg...5", Athol...4.8". IDZ001>002-004 Northern Panhandle - Coeur D'Alene Area - Central Panhandle Mountains 1800PST 12 0 0 **Heavy Snow 0600PST** 13 A warm front lifting across the area in advance of a moist Pacific storm system brought heavy snow to the central and northern Idaho

panhandle on the night of December 12 and the morning of the 13th. The following is a list of the heavy snowfall totals: Lookout Pass Ski Area...8", Bovill...7", Rathdrum...6", Bonners Ferry...5", Sandpoint...4.5", Priest Lake...4", Moyie Springs...4", Wallace...4", Porthill...4", Deary...4", Alder Creek...4", and Saint Maries...4".

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Person Killed Ir		Estimated Damage Property Crops	December 20 Character of Storm
	Date	Standard	(whics)	(Talus)	Kincu ii	ijuicu	Hoperty Crops	Character of Storm
<u>DAHO, Northwest</u> IDZ001-004	North	iern Panhand	lle - Centr	al Panhandl	e Mountain	5		
	13	1400PST	ine centri	ai i annanui	0	0		Heavy Snow
	14	1400PST	austom m	wing along th	a US/Canada	horder	brought yory booty	anow to the high elevations of the Id
	panhar two-da	ndle, generally a	bove 4000 ls: Schwei	feet from the stream transference from transfe	afternoon of E 30", Schwei	Decemb tzer Bo	er 13 through Decem owl SNOTEL site20	snow to the high elevations of the Id ber 14. Following are some of the he 6.4", Lookout Pass Ski Area19", Sil
IDZ001-004		ern Panhand	lle - Centr	al Panhandl				н. с
	15 17	2000PST 2000PST			0	0		Heavy Snow
	Two st 17, bri	trong storm syst nging very heav	y snowfall t	otals to mount	ain locations a	icross th	he Idaho panhandle at	vening of December 15 through Decembove 4000 feet. The following are 48-h the Bear Mountain SNOTEL site25.9".
IDZ001-004	North	iern Panhand	lle - Centr	al Panhandl	e Mountain	5		
	18	1200PST			0	0		Heavy Snow
	include	•	s Ski Area.	16", Schweit			•	Snowfall totals over this 36-hour per in SNOTEL11.7", Silver Mountain
IDZ027		And Souther	rn Nez Pe	rce				
	28	0000PST 1200PST			0	0		Heavy Snow
		m system movii	• •		-		now to Lewis and Ne e5", and Lewiston	z Perce Counties with heavy amounts .3".
(DAHO, Southeast IDZ018>019-022>023- 031		ooth Mountai Wood River		er Snake H			Central Highland	ls - Caribou Highlands - Big A
	01 02	0800MST 0800MST			0	0		Heavy Snow
	in the and La	central mountain keside Lodge, 1	ns and Uppe 6 inches at	er Snake Highl Macks Inn, 10	ands. Some of inches at Pica	of the h abo, 12	igher snowfall amoun inches at Sun Valley	outheastern Idaho. The heaviest snow tts of the storm were 2 feet at Island F Tamarack Lodge, 26 inches at Lost We , and 16 inches at Vienna Mine.
IDZ018>019-021>023-					0			lain - South Central Highland
031>032	Carib 02	ou Highlands 0800MST	s - Big An	d Little Woo	od River Re	gion - 0	Lost River / Pahsi	meroi Heavy Snow
	02	1000MST			Ū	Ū		neavy show
	this sto inches at SNO	orm were 9 inch at Craters of the	es on the be Moon, 6 ir ve 6500 feet	enches of Poca thes at Howe, the with 22 inches	atello with 3 to 10 inches at es at Bear Car	o 4 inch Soda Sj nyon, 1	hes in town, 16 inches prings, 7 inches at La 8 inches at Lost Divi	southeastern Idaho. Snow amounts fr s in Ketchum, 11 inches at Mink Creel va Hot Springs. Heavy snow was repor de, 20 inches at Crab Creek, 10 inche
IDZ018-031>032	Sawto 05	ooth Mountai 0700MST	ns - Big A	nd Little W	ood River R 0	egion 0	- Lost River / Pah	simeroi Heavy Snow
	totals f		g of the 5th	through the ev	vening of the 6		•	v to the central mountains of Idaho. Sr n and Sunbeam, 18 inches at Ketchum.
IDZ017-019>023		rn Magic Val ∙al Highlands	• • •			pper S	Snake River Plain	- Lower Snake River Plain - So
	05	0900MST 2100MST			1	0		Blizzard
	Sustair pm. S when a	ird winter storr ned winds greate nowfall through a 63 year old ma	er than 25 n the day tota an slid off a	nph at the Poc aled about 2 to bridge on inte	atello airport o 4 inches in th erstate 15 near	dropped ie city. · Inkom	d visibility to less that Numerous traffic acc a. The volume of acc	blizzard conditions to southeastern Ida n a half mile from around noon throug idents were reported including one fata idents caused the shutdown of northbo amounts from the storm were 12 inche

S	torr	n Data	and	Unus	ual We	eatl	her Phen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number o Persons Killed Inj	of ured	Estimated Damage Property Crops	Decem Character of Storm	ber 200
IDAHO, Southeast									
		Park, 8 inches n. M63VE	at Wild Ho	orse Divide, 9	inches at Slug	Creek	, 6 inches at Pebble	Creek Ski Resort, 14 inches	at Howel
IDZ018>019-022>023- 031>032	Little 13	Wood River 0800MST			Highlands - S / Pahsimeroi 0	outh (	Central Highland	ls - Caribou Highlands - Heavy Snow	Big And
	in Heg in Rex	lar, 11 inches i burg, 3 inches strong winds ir	n Stanley, 7 on the Pocate	inches at Mae ello benches.	cks Inn, 9 inches Although snow	s at Isla amour	nd Park, 8 inches in ts were light in the 1	n Victor, 8 inches in Sun Valle Malad, 4 inches in Soda Spring to 3 inch range in the Lower S erican Falls and Pocatello on th	s, 4 inches nake Rive
IDZ018>019-022>023-						outh (	Central Highland	ls - Caribou Highlands -	Big And
031>032	16	Wood River 2300MST 1600MST	Region -	Lost River /	Pahsimeroi 0	0		Heavy Snow	
	southe Lava H	inches of snow ast Idaho. Othe	er reports we inches at Pic	ere 7 inches at	Driggs, 6 inche	s at Bel	levue, 7 inches at Cl	central mountains and eastern hi ayton, 6 inches at Chesterfield, nches at Soda Springs, 3 inche	4 inches a
IDZ019-023-031	• •	0	ılands - Ca	aribou High	0		ttle Wood River I	U	
	•	1700MST 0900MST snow fell in th at Pebble Cree			0 ntains with 9 inc	0 hes at I	sland Park, 8 inches	Heavy Snow at Galena Lodge, 6 inches at M	acks Inn, (
<u>IDAHO, Southwest</u> IDZ013	Daiga	Mountains							
102013	01 03	1100MST 0200MST			0	0		Heavy Snow	
	Two cl was ab	losely-spaced P ove 6000 feet	in elevation.	The heavy, w	vet snow snappe	d hund		s over a 48 hour period. Heavie d brought down power lines se rrace Lakes.	
IDZ011-013		Central Mou	ıntains - B	oise Mount		0		н	
	04 05	2200MST 0900MST			0	0		Heavy Snow	
		ng Pacific storn Boise Mountair	U	tween 4 and 1	12 inches of sno	w to the	e West Central Mour	ntains and between 4 and 9 inch	es of snov
IDZ011-013-028			ıntains - B	oise Mount	ains - Camas		ie	Haary Snow	
	05 06	1900MST 0400MST			0	0	et Control on d Daion	Heavy Snow	
IDZ011-013-028>029								Mountains and the Camas Prair	1e.
IDZ011-013-028-029	13 14	1500MST 0800MST	intains - D	oise mount	anis - Camas 0	0	ie - Owyhee Mou	Heavy Snow	
	A stron snow b and Bo	ng Pacific storn prought down th pise Counties. H	rees that tool Highway 21,	k out two tran between Bois	smission lines, one se and Stanley, w	cutting was clo	off power for several	e Mountains. Between 8 and 20 hours to over 12,000 customer danger. The Owyhee Mountain	s in Valle
IDZ011	West 29	Central Mou 0945MST 1200MST	intains		0	0		Fog	
	Cascad people	y dense fog and le, Idaho. An a	ccident invo	olving 14 veh	icles closed the	state hi	ghway for two hour	on Highway 55 near Donnelly s between Lake Fork and Don veral slide-offs in Cascade, but	nelly. Fou

		Time Local/	Path Length	Path Width	Numbe Persor		Estimated Damage		December 200
Location	Date	Standard	(Miles)	(Yards)		njured	Property Crops	Character of Storm	
ILLINOIS, Central									
	NONE	REPORTED.							
ILLINOIS, Northeast									
	NONF	REPORTED.							
ILLINOIS, Northwest		REFORTED.							
		DEDODTED							
II I INOIS South	NONE	REPORTED.							
<u>ILLINOIS, South</u> ILZ093>094	Pulas	ki - Massac							
	01 04	0300CST 2200CST			0	0		Flood	
	The Ol				U		hain and Brookport mland and low-lying	•	The crest at Brookpor
ILZ081-084		din - Jackson			0	0		Flood	
	16 29	1100CST 1500CST			0	0		Flood	
	28.69 t		December	21. Flood st	age there is	16 feet.	The flooding was		physboro, the crest of nland flooding. Some
ILZ076-082-084>094		ie - Hamilton ki - Massac	- Jackson	- Williamso	on - Saline	- Galla	tin - Union - Joh	nson - Pope - Ha	rdin - Alexander
	17 18	0200CST 0900CST			0	0	8K	Flood	
	closed were contracks	south of Mclean ommonly 3 to 5	isboro. In A inches in th y. An Amtr	lexander Course flooded are	nty, a resider as. In Union	nce near County,	Tamms was evacuat 4.35 inches was me	ed. Rainfall amount asured at Anna. Flo	County, Route 142 was s for December 16-17 oding blocked railroad 1 75 passengers found
ILZ083	White				0	0		Flaad	
	17 30	0400CST 1100CST			0	0		Flood	
		ittle Wabash Riv ted. Floodwaters					er 22. Flood stage	here is 27 feet. So	ne county roads were
Johnson County	17	0005CST			0	Δ	40K	Flash Flood	
Countywide	17	0905CST 1320CST			0	0	40K	Flash Flood	
Countywide Pope County					0 0	0	40K	Flash Flood Flash Flood	
Countywide Pope County Countywide	17 17	1320CST					40K		
Countywide Pope County		1320CST 1000CST 1320CST 1000CST					40K		
Countywide Pope County Countywide Saline County	17	1320CST 1000CST 1320CST			0	0	40K	Flash Flood	
Countywide Pope County Countywide Saline County Countywide	17	1320CST 1000CST 1320CST 1000CST 1320CST 1000CST			0	0	40K	Flash Flood	
Countywide Pope County Countywide Saline County Countywide Union County Countywide Gallatin County	17 17 17	1320CST 1000CST 1320CST 1000CST 1320CST 1000CST 1320CST			0 0 0	0 0 0	40K	Flash Flood Flash Flood Flash Flood	
Countywide Pope County Countywide Saline County Countywide Union County Countywide Gallatin County Countywide	17 17	1320CST 1000CST 1320CST 1000CST 1320CST 1000CST			0 0	0 0	40K	Flash Flood Flash Flood	
Countywide Pope County Countywide Saline County Countywide Union County Countywide Gallatin County Countywide Hardin County	17 17 17 17	1320CST 1000CST 1320CST 1000CST 1320CST 1000CST 1320CST 1030CST 1320CST			0 0 0	0 0 0		Flash Flood Flash Flood Flash Flood Flash Flood	
Countywide Pope County Countywide Saline County Countywide Union County Countywide Gallatin County Countywide	17 17 17	1320CST 1000CST 1320CST 1000CST 1320CST 1000CST 1320CST			0 0 0	0 0 0	40K 20K	Flash Flood Flash Flood Flash Flood	

#### Storm Data and Unusual Weather Phenomena Time Path Path Number of Estimated December 2001 Local/ Length Width Damage Persons Standard Killed Character of Storm Location Date (Miles) (Yards) Injured Property Crops **ILLINOIS**, South Pulaski County Countywide 17 1030CST A 0 10K **Flash Flood** 1320CST Williamson County 10K **Flash Flood** Countywide 17 1135CST A 0 1320CST Heavy rain falling on saturated ground caused water levels to rise quickly. After the initial rapid rises, a prolonged period of flooding set in as light to moderate rain continued to fall. In Williamson County, water was 3 feet deep over the Saline River bridge on a county road, and roads were washed out. In Hardin County, some bridges were washed out. Illinois Route 146 was closed near Anna, and Route 145 was barricaded north of Route 146 in Pope County. Pulaski County reported 15 to 20 road closures. Water entered at least two businesses in Vienna. A car dealership and a city park in Vienna were flooded by the Little Cache Creek. In Johnson County, a total of 20 road closures were reported, and the community of Flatwoods was completely cut off for a short time. Near Elba in Gallatin County, several families were forced from their homes due to backwater flooding. Water entered an elementary school in Metropolis. Water also entered a warehouse in Metropolis used to store Christmas toys for needy local children. Several hundred dollars worth of toys were damaged. Numerous roads were closed throughout southern Illinois. ILZ087-092>094 Gallatin - Alexander - Pulaski - Massac 0200CST A 0 Flood 18 24 0800CST The Ohio River crested one to two feet above flood stage at Shawneetown, Brookport, Grand Chain, and Cairo on December 20 or early on December 21. Minor flooding of bottomland and low-lying areas occurred. This flood crest was the second of the month for Brookport and Grand Chain. This flooding was due to a series of heavy rainfall events that began in late November and ended around December 17. The heaviest rainfall event produced between 4 and 5 inches between the 15th and 17th. **ILZ078** Wabash 1700CST 0 A Flood 18 31 2000CST The Wabash River crested at 18.33 feet at New Harmony, Indiana on December 26. Flood stage there is 15 feet. This resulted in minor flooding of low-lying areas and bottomlands. **ILLINOIS, Southwest Marion County** 0000CST **Heavy Rain** Countywide 16 0 0 1400CST 17 A steady rain started on the 16th and continued until about midday the 17th. Rainfall amounts of 2 to 3 inches were common. The result was numerous roads that became impassable due to ponding of water, especially at intersections. Many area residents also discovered leaky basements due to the rain. **INDIANA**, Central INZ053>054-061-**Owen - Morgan - Greene - Knox - Daviess** 067>068 1200EST 0 0 Flood 15 23 2300EST Heavy rain from the 14th through the 17th resulted in the highest river levels along the lower portion of the White since January 1999. Flooding affected extensive agricultural areas and closed numerous local and state roads. Crests: 13.5 feet on December 18 (FS = 12 feet) Centerton: Spencer: 19.1 feet on December 19 (FS = 14 feet) Elliston: 24.4 feet on December 18 (FS = 18 feet) Newberry: 18.7 feet on December 21 (FS = 13 feet) Edwardsport: 20.9 feet on December 19 (FS = 15 feet) Petersburg: 23.8 feet on December 24 (FS = 16 feet) 24.5 feet on December 25 (FS = 16 feet) Hazleton: **INZ072** Jennings 1200EST Λ 0 Flood 15 20 1200EST Heavy rain from the 14th through the 17th resulted in the highest levels at some spots along the Muscatuck River since May 1996. Flooding affected extensive agricultural areas and closed numerous state and local roads. The river crested at 25.6 feet (FS = 15 feet) near Deputy on the 17th, 19.6 feet (FS = 17 feet) near Vernon on the 17th and 23.5 feet (FS = 16 feet) at Wheeler Hollow on the 19th.

								omena	
		Time	Path	Path Width	Numbe		Estimated		December 200
Location	Date	Local/ Standard	Length (Miles)	(Yards)		ins Injured	Damage Property Crops	Character of Storm	
<u>NDIANA, Central</u> INZ028>029-035- 043>044-051-060-067	Warı	ren - Tippec	anoe - Four	itain - Vern	nillion - Par	ke - Vi	igo - Sullivan - Kno	)X	
	16 30	0600EST 0700EST			0	0		Flood	
	1 to 3	inches of rai					in allowing for the hi ensive areas of agricult	-	•
	Crests	:							
	Monte Terre Hutson Rivert Vince	gton: 20.6 feet zuma: Haute: nville: on:	on December 20.3 feet on 18.1 feet on 20.3 feet on 18.5 feet on on December	20 (FS = 16) n December 1 n December 2 n December 2 n December 2 2 $23 (FS = 17)$	8 (FS = 14 fee 0 (FS = 14 fee 3 (FS = 16 fee 3 (FS = 15 fee	t) t) t) t)			
INZ064-069>071			Aartin - Lav	vrence - Ja				<b>V</b> 1 <b>1</b>	
	16 27	0700EST 0700EST			0	0		Flood	
	•		•			-	ver levels along the lo and closed numerous	<u>^</u>	
	Crests	:							
	Colum Seymo Bedfo Willia	our: rd:	18.3 feet or 30.8 feet or	n December 1 n December 2	9 (FS = 9 feet 8 (FS = 12 fee 1 (FS = 20 fee 1 (FS = 8 feet	t) t)			
NDIANA, Northeast	<i>.</i>								
INZ004	St. Jo 28	oseph 1700EST			0	0		Heavy Snow	
	29 A lake heavie	1700EST e effect snow est across Berr	-	ichigan and S		of Sou	nthwest Lower Michig iana. Nine inches of si	an and Northwest I	
NDIANA, Northwest									
	NONE	E REPORTED	<b>)</b> .						
NDIANA, South Cen									
INZ079	Jeffer 17	rson 0215EST			0	0		Flood	
	18 The M stage	<b>1015EST</b> Iuscatatuck Ri at Deputy is 2		ver crested a	lood stage from t 25.6 feet at	n early	in the morning of the 1 EST on the 17th, ca	17th until late morn	
Washington County					-				
Countywide	17	0330EST			0	0		Flash Flood	
Dubois County Huntingburg	17	0430EST			0	0		Flash Flood	
Orange County		1330EST							
French Lick	17	0430EST 1700EST			0	0		Flash Flood	
Clark County		1700EST							
	17	0915EST			0	0		Flash Flood	

Several roads were impassable in the Huntingburg area of Dubois County, along with the French Lick area of Orange County. Roads

S	tor	m Data	a and	Unus	ual V	Veat	her Pher	nomena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Pers Killed		Estimated Damage Property Crops	Character of Storm	December 200
INDIANA, South Cen		looded country	uido in Orong	ro County Wo	han Dood na	on Collonal	una in Clark Count	, was alaced due to bio	h water
INZ077		nington	vide in Orang	ge County. we	ber Road ne	ar Sellersi	ourg in Clark County	y was closed due to hig	in water.
1.(2017	17 18 The B Freder	1030EST 0630EST lue River at Free	feet. The rive	er crested at 2	1.98 feet at			Flood ntil the morning of the of the 17th, causing m	
INDIANA, Southeast INZ050-058-058>059- 059-066-066-066- 073>075-080	Way	ne - Fayette -	Union - F	ranklin - Rij	pley - Dea	rborn - (	Ohio - Switzerlar	ıd	
	17	0620EST 2150EST			1	0		Flood	
	White	were several r water Valley. n was killed w nnel.	A woman a	ttempted to cr	oss a flood	ed slab br	idge on Yellow Ba	anks throughout south nk Creek. The autom ren in the car were re	obile stalled and the
INDIANA, Southwest									
INZ081	Gibse 06	on 0500CST			0	0		Flood	
	08	1700CST Patoka River cr	ested a few	inches above			ge at Princeton on	December 6. Minor	flooding of lowlands
INZ081>082-085>088	16 18 Nume		re covered b	y water acros	0 s southwest	0 ern India		Flood closed. A few major nany as 34 roads clo	
	Vande	erburgh County,	, the northern	half of the co	unty was the	e most affe	ected by road flooding	ng.	
INZ081	Gibso 17 30	on 0800CST 1800CST			0	0		Flood	
		atoka River cro ng of bottomlan			ceton on De	cember 2	3. Flood stage at P	rinceton is 18 feet. The	nis resulted in minor
INZ085	Posey 18 31	y 0400CST 1900CST			0	0		Flood	
					w Harmony	on Dece	mber 26. Flood stag	ge there is 15 feet. The	nis resulted in minor
INZ081>082	Gibso 18 27	on - Pike 1000CST 1400CST			1	0		Flood	
	The W was cl off the	White River rose losed near the r	iver. Motoris st currents. (	ts still drove t One motorist d	hrough the d lied. The vi	closed area	a by going around b	section of State Route arricades. At least four night, his vehicle was	vehicles were swept
INZ081>082-085>088	Gibs 29	on - Pike - Po 0200CST 1000CST	osey - Vand	lerburgh - V	Varrick - S 0	Spencer 0		Snow	
		rst measurable				-		inch of snow fell acro state 64 in Spencer Co	
IOWA, Central Butler County	0-	10/-0			<u>^</u>	<u>^</u>			
6 N Allison	05	1345CST			0	0	75K	Thunderstorm W	ind (G65)

		Time	Path	Path	Numb	er of	Estimated	December 2001
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed		Damage Property Crops	Character of Storm
IOWA, Central								
	dew po across develop severe northea of Alli	bint temperatures the state, break ped ahead of the levels, but did ast at over 60 MI son by the high	s in the 10 t ing record e front with produce win PH across th winds. Piece	o 12 degree of highs for the a strong squares of 45 to he state. An a ces of the bar	C. range. Su e date. Des all line alon 55 MPH in apparent micr n were strew	rface ten point te g the lea most are oburst sy n for one	nperatures ahead of the emperatures reached t ading edge of the cool eas along with heavy a wept through Butler Co	850 mb level were in excess of 50 kts with e front soared into the mid 60s to low 70s he mid 50s to low 60s. Thunderstorms er air. Most of the storms were a below rain and pea size hail. The storms raced punty. A barn was hit and destroyed north f a mile across the fields east of where the
<b>Monroe County</b>								
7 SE Albia	heavy A line under o	precipitation was of thunderstorm	s cut off as ns formed in diameter ar	the dry slot r n the dry slo nd covered th	noved over Id t during the e ground. Or	owa. Th early aft ne cell be	e atmosphere became ernoon. The thunders ecame severe and prod	Hail (0.88) during the day on the 22nd. Much of the unstable as rapid cooling took place aloft. storms produced hail, most of which was uced nickle size hail southeast of Albia in
IOWA, East Central a	and So	<u>utheast</u>						
Linn County	~-	1045005			0	0		H H (1 00)
Walker	<b>05</b> 1 inch	1245CST hail reported by	storm spotte	er.	0	0		Hail (1.00)
Van Buren County	1 111011	nun reported of	storm spott					
Keosauqua	05	1620CST			0	0		Thunderstorm Wind (G50)
Van Buren County	Law er	nforcement repor	ted 4 inch d	liameter tree	branches blow	vn down	l.	
1 W Milton	05	1620CST			0	0		Thunderstorm Wind (G50)
IOWA, Northeast	A stron air was	s found over Eas	ved through tern Iowa ju	n Eastern Iow 1st ahead of th	a the afternothe front. This	s air help		, 2001. Unseasonably warm and unstable of thunderstorms across the region. A few
	NONE	DEDODTED						
IOWA, Northwest	NONE	REPORTED.						
	NONE	REPORTED.						
IOWA, Southwest								
	NONE	REPORTED.						
KANSAS, East								
	NONE	REPORTED.						
KANSAS, Extreme So	outheas	<u>st</u>						
	NONE	REPORTED.						
KANSAS, North Cent								
	NONE	REPORTED.						
KANSAS, Northeast	110112							
	NONE	REPORTED.						
KANSAS, Northwest KSZ015>016-029	Sherio 12	dan - Graham 1500MST 1900MST	ı - Gove		0	0		Winter Storm

Location	Data	Time Local/	Path Length	Path Width (Vordo)	Number Person	IS	Estima Dama	ige	Character	December 200
Location	Date	Standard	(Miles)	(Yards)	Killed I	njured	Property	Crops	Character of Storm	
KANSAS, Northwest									idan and central Gra 1 minor accidents alo	ham Counties. Also ong Interstate 70.
KANSAS, Southeast										
	NONE	E REPORTED.								
KANSAS, Southwest										
	NONE	E REPORTED.								
<b>KENTUCKY, Central</b>	<u> </u>									
KYZ061	Butle									
	01 02	0000EST 1900EST			0	0			Flood	
	The G	reen River at R							ntil the evening of I 2, causing minor floo	Dec. 2. Flood stage at ding.
KYZ056>057-065	Garra	ard - Madiso	n - Taylor							
	14	1020EST 1400EST	•		0	0	10K		High Wind (G70	)
	Trees a	and power lines	were downe	ed in Lancaste	r. There was is	solated	unspecified s	structural	damage.	
Hancock County										
Countywide	17	0430EST 1330EST			0	0			Flash Flood	
Ohio County		10001151								
Countywide	17	0850EST 1130EST			0	0			Flash Flood	
					-		•	ounty roa	ds were closed due	to high water in Ohio
KYZ026	Ohio									
	17 18	1330EST 1930EST			0	0			Flood	
	The Re Dunde	ough River at D	e river creste	ed at 25.30 fee	et at 230 AM E	EST on	the morning			Dec. 18. Flood stage at oding. At this level, a
KENTUCKY, Eastern	<u>l</u>									
KYZ069	Jacks				0	0	21/	0		<b>`</b>
	14	1004EST 1130EST			0	0	3K	0	High Wind (G50	)
		understorm wir roof off on Rob	U		-		e several tree	es were b	lown down. In Clove	er Bottom winds blew
KYZ050		gomery			0	0	0	0		
	14	1100EST 1200EST			0	0	0	0	High Wind (G50	)
	Non th	understorm wir	nds blew one	tree down in	the city of Mo	unt Ste	rling.			
KYZ059	Powe									
	14	1112EST 1200EST			0	0	0	0	High Wind (G50	)
	Non th	understorm wir	nds blew 7 la	rge trees dow	n in the Clay C	City area	a.			
KYZ051	Bath									
	14	1126EST 1200EST			0	0	0	0	High Wind (G50	)
	Non th	understorm wir	ds blew one	tree down on	Highway 60 e	east of C	Owingsville.			

#### Storm Data and Unusual Weather Phenomena Path Time Path Number of Estimated December 2001 Local/ Length Width Damage Persons Standard Killed Character of Storm Location Date (Miles) (Yards) Injured Property Crops **KENTUCKY**, Eastern **KYZ052** Rowan 1130EST 0 0 10K 0 High Wind (G50) 14 1215EST Non thunderstorm winds blew a power pole down onto a mobile home, no damage was reported to the home. In Morehead an aluminum carport was picked up by the wind and thrown into a truck, the vehicle sustained a few dents and a shattered windshield. In Farmers, a barn located on Kentucky Highway 801 was destroyed by the wind. Trees were also reported down across many locations throughout the county. **KYZ111** Lee 1130EST A 0 High Wind (G50) 0 0 14 1215EST Non thunderstorm winds blew trees and power lines down all across the county. **KYZ114** Owsley 1130EST 3K High Wind (G52) 0 0 0 14 1215EST Non thunderstorm winds blew a large pine tree down onto a home in Island City, no injuries were reported. In the city of Booneville the high winds blew tin roofing off of a out building and tossed it 25 to 30 feet from the building. Trees were also reported down in the area. **KYZ108** Wolfe 1135EST 2K High Wind (G50) 14 0 0 1215EST Non thunderstorm winds blew trees down all across the county. One large pine tree fell onto a porch of a mobile home along Highway 15. The porch was totally destroyed. **KYZ060** Menifee 1136EST High Wind (G50) 0 0 0 0 14 1215EST Non thunderstorm winds blew several trees down along Highway 36 north of Frenchburg. The city of Wellington was without electricity for a time as trees fell on power lines. **KENTUCKY**, Northeast KYZ101>103-105 Greenup - Carter - Boyd - Lawrence 0000EST 0 0 **Prolong Warmth** 01 1800EST 23 An Indian summer environment lingered during most of this period. Daytime temperatures in the 50s and 60s were common. The warmest readings came on the 5th, when Ashland and Grayson both saw 77 degrees. Greenup Lock and Dam, plus Charley of Lawrence County, had 74 degrees on the 5th. KYZ101>103-105 Greenup - Carter - Boyd - Lawrence 1200EST Û 0 Wind 14 1500EST Wind gusts of 40 to 50 mph occurred as a strong cold front swept through northeast Kentucky. A few trees and power lines were fallen **KENTUCKY**, Northern NONE REPORTED. **KENTUCKY**, Southwest **KYZ021** Muhlenberg 0001CST 0 0 Flood 01 1800CST 04 The Green River crested about 6 feet above flood stage at Paradise early on December 1. This resulted in minor flooding of bottomland and low-lying areas. KYZ005>006 **Mccracken - Graves** 0345CST 0 Flood 01 0 1300CST The Clarks River went over its banks due to very heavy rains during the last week of November. Several roads near the river were

flooded, including Oaks Road, Bonds Road, and Said Road. The water came close to residences but did not enter them.

Time Local/       Path Length       Path Width       Number of Persons       Estimated Damage         Location       Date       Standard       (Miles)       (Yards)       Killed       Injured       Property       Crops       Character of Storm         KENTUCKY, Southwest       KU2001>009-012-014       Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Callov 016-018>019       -Hopkins - Henderson - Daviess       -       -Hopkins - Henderson - Daviess       -       Flood       18       1000CST       0       2       5K       Flood       18       1000CST       18       1000CST       10       a motorist drove into floodwaters along U.S. Highway 51. The motorist, who was unable to see a flagman in d water on the road until she was swept into a 30-foot wide ditch. The car was swept downstream about 30 fee water. The flagman rescued the motorist from the vehicle. Both were taken to a local hospital for i life-threatening. In Calloway County, twenty to 30 roads were closed, and U.S. Highway 60 was closed near line. The Little River and the Muddy Fork went out of their banks and flooded roads in Trigg County. In Carlis U.S. Highway 62 was flooded. In Graves County, a wooden bridge was washed out near Mayfield. Highw low-lying area near the Graves/Hickman County line. In Fulton County, Highway 94 was flooded and barricade         KYZ001>009-011-013       Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Caldwell       17       0       0       Flood         19       1800CST       <	way - Trigg - Unio Hickman County whe ense fog, drove throug et and began to fill wi injuries that were n ins County reported D r the Henderson Coun sle County, a section of vay 58 was closed at ed. flooding of agricultur Calloway - Lyon the primary cause of was struck by a tract
Location       Date       Standard       (Miles)       (Yards)       Killed       Injured       Property       Crops       Character of Storm         KENTUCKY, Southwest         KVZ001>009-012-014       Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Callov         016-018>019       - Hopkins - Henderson - Daviess       0       2       5K       Flood         18       1000CST       0       2       5K       Flood         18       indougs were closed across western Kentucky, mostly secondary roads. Two persons were injured in a motorist drove into floodwaters along U.S. Highway 61. The motorist, who was unable to see a flagman in dw water on the road until she was swept into a 30-foot wide ditch. The car was swept downstream about 30 fee water. The flagman rescued the motorist from the vehicle. Both were taken to a local hospital for if life-threatening. In Calloway County, twenty to 30 roads were closed, and U.S. Highway 60 was closed near line. The Little River and the Muddy Fork went out of their banks and flooded roads in Trigg County. In Carlis U.S. Highway 62 was flooded. In Graves County, a wooden bridge was washed out near Mayfield. Highw low-lying area near the Graves/Hickman County line. In Fulton County, Highway 94 was flooded and barricade         KYZ201>009-011-013         Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Caldwell         18       0430CST       0       0       Flood       19       19	way - Trigg - Unio Hickman County whe ense fog, drove throug et and began to fill wi injuries that were n ins County reported D r the Henderson Coun sle County, a section of vay 58 was closed at ed. flooding of agricultur Calloway - Lyon the primary cause of was struck by a tract
KYZ001>009-012-014- 016-018>019       Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Callow - Hopkins - Henderson - Daviess 16       1500CST       0       2       5K       Flood         18       1000CST       0       2       5K       Flood         19       numerous roads were closed across western Kentucky, mostly secondary roads. Two persons were injured in a motorist drove into floodwaters along U.S. Highway 51. The motorist, who was unable to see a flagman in de water on the road until she was swept into a 30-foot wide ditch. The car was swept downstream about 30 fee water. The flagman rescued the motorist from the vehicle. Both were taken to a local hospital for i life-threatening. In Calloway County, twenty to 30 roads were closed, mainly near the Clarks River. Hopki roads closed, mostly secondary. In Union County, schools were closed, mainly near the Clarks River. Hopki roads closed, mostly secondary. In Union County, schools were closed, and U.S. Highway 60 was closed near line. The Little River and the Muddy Fork went out of their banks and flooded roads in Trigg County. In Carlis U.S. Highway 62 was flooded. In Graves County, a wooden bridge was washed out near Mayfield. Highw low-lying area near the Graves/Hickman County line. In Fulton County, Highway 94 was flooded and barricade         KYZ001>009-011-013       Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Caldwell         18       0430CST       0       0         18       0430CST       0       0         18       0430CST       0       0         18       0430CST<	Hickman County whe ense fog, drove throug et and began to fill wi injuries that were n ins County reported 1 r the Henderson Coun sle County, a section way 58 was closed at ed. flooding of agricultur <b>Calloway - Lyon</b> the primary cause of was struck by a tract
KYZ001>009-012-014- 016-018>019       Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Callow - Hopkins - Henderson - Daviess 16       1500CST       0       2       5K       Flood         18       1000CST       0       2       5K       Flood         19       numerous roads were closed across western Kentucky, mostly secondary roads. Two persons were injured in a motorist drove into floodwaters along U.S. Highway 51. The motorist, who was unable to see a flagman in de water on the road until she was swept into a 30-foot wide ditch. The car was swept downstream about 30 fee water. The flagman rescued the motorist from the vehicle. Both were taken to a local hospital for i life-threatening. In Calloway County, twenty to 30 roads were closed, mainly near the Clarks River. Hopki roads closed, mostly secondary. In Union County, schools were closed, and U.S. Highway 60 was closed near line. The Little River and the Muddy Fork went out of their banks and flooded roads in Trigg County. In Carlis U.S. Highway 62 was flooded. In Graves County, a wooden bridge was washed out near Mayfield. Highw low-lying area near the Graves/Hickman County line. In Fulton County, Highway 94 was flooded and barricade         KYZ001>009-011-013       Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Caldwell         18       0430CST       0       0         18       0430CST       0       0         18       0430CST       0       0         18       0430CST       0       0         18       0430CST       <	Hickman County whe ense fog, drove throug et and began to fill wi injuries that were n ins County reported 1 r the Henderson Coun sle County, a section way 58 was closed at ed. flooding of agricultur <b>Calloway - Lyon</b> the primary cause of was struck by a tract
16       1500CST       0       2       5K       Flood         18       1000CST       Numerous roads were closed across western Kentucky, mostly secondary roads. Two persons were injured in a motorist drove into floodwaters along U.S. Highway 51. The motorist, who was unable to see a flagman in de water on the road until she was swept into a 30-foot wide ditch. The car was swept downstream about 30 fee water. The flagman rescued the motorist from the vehicle. Both were taken to a local hospital for i life-threatening. In Calloway County, twenty to 30 roads were closed, and U.S. Highway 60 was closed near line. The Little River and the Muddy Fork went out of their banks and flooded roads in Trigg County. In Carlis U.S. Highway 62 was flooded. In Graves County, a wooden bridge was washed out near Mayfield. Highw low-lying area near the Graves/Hickman County line. In Fulton County, Highway 94 was flooded and barricade         KYZ021       Muhlenberg       17       0700CST       0       Flood         19       1800CST       0       Flood       19       1800CST         18       0430CST       0       0       Flood         19       1800CST       0       Flood       19       1000CST         18       0430CST       0       0       Fog         19       1800CST       0       Flood       19       1000CST         19       1800CST       0       0       Fog       0000CST         18       0430CST	ense fog, drove throug et and began to fill wi injuries that were n ins County reported 1 r the Henderson Coun sle County, a section of vay 58 was closed at ed. flooding of agricultur <b>Calloway - Lyon</b> the primary cause of was struck by a tract
18       1000CST         Numerous roads were closed across western Kentucky, mostly secondary roads. Two persons were injured in a motorist drove into floodwaters along U.S. Highway 51. The motorist, who was unable to see a flagman in de water on the road until she was swept into a 30-foot wide ditch. The car was swept downstream about 30 fee water. The flagman rescued the motorist from the vehicle. Both were taken to a local hospital for i life-threatening. In Calloway County, twenty to 30 roads were closed, mainly near the Clarks River. Hopki roads closed, mostly secondary. In Union County, schools were closed, and U.S. Highway 60 was closed near line. The Little River and the Muddy Fork went out of their banks and flooded roads in Trigg County. In Carlis U.S. Highway 62 was flooded. In Graves County, a wooden bridge was washed out near Mayfield. Highw low-lying area near the Graves/Hickman County line. In Fulton County, Highway 94 was flooded and barricade         KYZ021       Muhlenberg         17       0700CST       0         19       1800CST       0         KYZ001>009-011-013       Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Caldwell         18       0430CST       0         18       0430CST       0         18       0430CST       0         19       1000CST       0         19       1800CST       0         19       1800CST       0         19       1800CST       0         19       1800CST       0	ense fog, drove throug et and began to fill wi injuries that were n ins County reported 1 r the Henderson Coun sle County, a section of vay 58 was closed at ed. flooding of agricultur <b>Calloway - Lyon</b> the primary cause of was struck by a tract
a motorist drove into floodwaters along U.S. Highway 51. The motorist, who was unable to see a flagman in do water on the road until she was swept into a 30-foot wide ditch. The car was swept downstream about 30 fee water. The flagman rescued the motorist from the vehicle. Both were taken to a local hospital for i life-threatening. In Calloway County, twenty to 30 roads were closed, and U.S. Highway 60 was closed near line. The Little River and the Muddy Fork went out of their banks and flooded roads in Trigg County. In Carlis U.S. Highway 62 was flooded. In Graves County, a wooden bridge was washed out near Mayfield. Highw low-lying area near the Graves/Hickman County line. In Fulton County, Highway 94 was flooded and barricade <b>KYZ021 Muhlenberg 17</b> 0700CST <b>0 0 Flood 19 1800CST 17 17 0700CST 18 18 0430CST 18 0430CST 19 18 0430CST 19 18 0430CST 10 0 19 18 0430CST 10 10 18 0430CST 10 10 19 18 0430CST 10 10 118 0430CST 118 119 119 118 119 111 118 119 119 119 119 119 119 119 119 119 119 111</b>	ense fog, drove throug et and began to fill wi injuries that were n ins County reported 1 r the Henderson Coun sle County, a section of vay 58 was closed at ed. flooding of agricultur <b>Calloway - Lyon</b> the primary cause of was struck by a tract
17       0700CST       0       0       Flood         19       1800CST       0       0       Flood         The Green River crested about a foot above flood stage at Paradise on December 18. This resulted in minor is bottomland and low-lying areas.         KYZ001>009-011-013         Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Caldwell         18       0430CST       0       Fog         1000CST       Dense fog reduced visibility to less than a quarter mile across far western Kentucky. The fog was cited as vehicle accident along U.S. Highway 60 just west of Paducah. A 77-year-old woman was killed when her car trailer rig. In a separate incident in Hickman County, a motorist who was unable to see a flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51.	Calloway - Lyon the primary cause of was struck by a tract
19       1800CST         The Green River crested about a foot above flood stage at Paradise on December 18. This resulted in minor is bottomland and low-lying areas.         KYZ001>009-011-013         Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Caldwell         18       0430CST       0       0       Fog         1000CST       Dense fog reduced visibility to less than a quarter mile across far western Kentucky. The fog was cited as vehicle accident along U.S. Highway 60 just west of Paducah. A 77-year-old woman was killed when her car trailer rig. In a separate incident in Hickman County, a motorist who was unable to see a flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51.	Calloway - Lyon the primary cause of was struck by a tract
The Green River crested about a foot above flood stage at Paradise on December 18. This resulted in minor is bottomland and low-lying areas.         KYZ001>009-011-013         Fulton - Hickman - Carlisle - Ballard - Mccracken - Graves - Livingston - Marshall - Caldwell         18       0430CST       0       Fog         1000CST       Dense fog reduced visibility to less than a quarter mile across far western Kentucky. The fog was cited as vehicle accident along U.S. Highway 60 just west of Paducah. A 77-year-old woman was killed when her car trailer rig. In a separate incident in Hickman County, a motorist who was unable to see a flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51.	Calloway - Lyon the primary cause of was struck by a tract
Caldwell         18       0430CST       0       0       Fog         1000CST       Dense fog reduced visibility to less than a quarter mile across far western Kentucky. The fog was cited as vehicle accident along U.S. Highway 60 just west of Paducah. A 77-year-old woman was killed when her car trailer rig. In a separate incident in Hickman County, a motorist who was unable to see a flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51.	the primary cause of was struck by a tract
<b>1000CST</b> Dense fog reduced visibility to less than a quarter mile across far western Kentucky. The fog was cited as vehicle accident along U.S. Highway 60 just west of Paducah. A 77-year-old woman was killed when her car trailer rig. In a separate incident in Hickman County, a motorist who was unable to see a flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51.	was struck by a tract
Dense fog reduced visibility to less than a quarter mile across far western Kentucky. The fog was cited as vehicle accident along U.S. Highway 60 just west of Paducah. A 77-year-old woman was killed when her car trailer rig. In a separate incident in Hickman County, a motorist who was unable to see a flagman in the fog along U.S. Highway 51. Her vehicle was swept downstream about 30 feet before she was rescued by the flagman in the fog along U.S. Highway 51.	was struck by a tract
LOUISIANA, Northeast Morehouse Parish	
Countywide 12 1330CST 0 0 10K Flash Flood	
1700CST Extremely heavy rainfall in excess of 5 inches near Bonita flooded a church. Many roads were also flooded under 2 feet of water.	l with some submerge
Tensas Parish	
6 N Newellton 12 1555CST 0.2 30 0 0 1K Tornado (F0)	
1557CST A brief tornado touchdown occurred over open country. No damage to structures was reported, but a few tree knocked down.	es and powerlines we
Morehouse Parish	
Countywide 13 1040CST 0 0 Flash Flood 1830CST	
Periods of heavy rain resulted in widespread flooding across the parish.	
East Carroll Parish Countywide 13 1330CST 0 0 25K Flash Flood 1845CST	
Several roads across the parish were flooded. A few homes near a levee were also flooded.	
Richland Parish	
Countywide 13 1400CST 0 0 Flash Flood 1830CST	
Several roads flooded throughout the parish, including numerous spots along highway 17 due to additional, hea Franklin Parish	ivy famfall.
Countywide 13 1530CST 0 0 Flash Flood 1830CST	
Several roads throughout the parish were flooded due to additonal, heavy rainfall. Northern portions of the pari hard by heavy rains and flooding.	ish were particularly h
Tensas Parish	
Newellton         13         1715CST         0         0         10K         Thunderstorm           1717CST         0         0         10K         Thunderstorm         1	Wind

Several trees reported down in town, with a few falling on cars and damaging them.

		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage		December 200
Location	Date	Standard	(Miles)	(Yards)		Injured	Property Crops	Character of Storm	
LOUISIANA, North	east								
West Carroll Parish Countywide	13	1720CST			0	0		Flash Flood	
	Many	1830CST roads were und	erwater The	high water al	so threatened	a few h	omes		
Catahoula Parish	Whaty	Totals were and	erwater. The	ingii water ai	so incutoned		sines.		
Countywide	13	1745CST 1930CST			0	0		Flash Flood	
Madiaan Dawiah	Sever	al roads across t	he parish we	re underwater	:				
Madison Parish Countywide	13	1800CST			0	0	40K	Flash Flood	
	Heavy	2000CST y rainfall continu	ed through t	he evening ho	ours with eight	t homes	flooded near the city of	of Tallulah.	
Tensas Parish	10	1015CGT			٥	0	EV.	Flack Flood	
Countywide	13	1815CST 1930CST			0	0	5K	Flash Flood	
	Sever		town of Wat	erproof were	underwater. O	ne hous	e was flooded with a f	few other homes bein	g threatened by flo
LOUISIANA, North De Soto Parish	west								
Stonewall	12	0750CST			0	0		Flash Flood	
	Water	over the road a	long Hwy 32	276 causing tra	affic to detour				
De Soto Parish Mansfield	12	0930CST			0	0		Flash Flood	
Wansherd		ing along Hwy 8	34 stalled car	s and caused	traffic to deto				
De Soto Parish									
Carmel	12 Flood	0945CST ing along I-49 at	nd 509 ramp		0	0		Flash Flood	
Lincoln Parish									
Ruston	12 S	1200CST			0 	0	6K	Flash Flood	
	Sever	al Parish roads v	vere closed a	ind a restaurar	nt near 1-20 w	as flood	ed.		
Sabine Parish Many	12	1200CST			0	0		Flash Flood	
		flooding causin	g reroute of	traffic in towr	1.				
<b>Red River Parish</b>									
Coushatta	12 Sever	1200CST al Parish roads c	losed due to	high water	0	0		Flash Flood	
Jackson Parish	Beven	ur i urish rouds e	losed due to	ingir water.					
Clay	12	1230CST			0	0		Flash Flood	
	Flash	flooding along H	Hwy 167.						
Union Parish	10	1220/087			0	0		Flack Flack	
Farmerville	12 Sever	1230CST al parish roads v	vere closed d	lue to high wa	0 iter.	0		Flash Flood	
<b>Bienville Parish</b>									
Arcadia	12 Else d	1230CST			0	0		Flash Flood	
Quashita Dariat	r1000	ing along parish	Toaus cause	u delours and	mmor mconv	emence.			
Ouachita Parish West Monroe	12	1255CST			0	0		Flash Flood	
		ing of streets ma	aking travel o	lifficult.	-	-			
Ouachita Parish									
		1315CST			0	0			

		Time Local/	Path Length	Path Width	Numl		Estimated Damage	December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
LOUISIANA, North	west							
Lincoln Parish Ruston	12	1645CST			0	0		Flash Flood
Kuston		Hwy 167 closed	from floodin	g.	U	U		Flash Floou
Jackson Parish								
Jonesboro	12	1645CST			0	0		Flash Flood
	Hwy	167 closed north	of town.					
Natchitoches Parish								
Cloutierville	13	1240CST			0	0		Hail (0.75)
Winn Parish								
Winnfield	13	1350CST			0	0		Flash Flood
	Sever	1641CST al roads closed in	n town					
	Beven	ar roads crosed h	n town.					
Grant Parish Colfax	13	1510CST			0	0		Hail (0.75)
	15	1510051			U	U		Han (0.75)
Natchitoches Parish	12	1520057			0	0		Flash Flood
Cloutierville	13	1520CST 1615CST			U	U		Flash Flood
	Major	r streets closed in	n and around	town.				
Grant Parish								
1 S Dry Prong	13	1520CST			0	0		Hail (0.75)
Grant Parish								
1 N Montgomery	13	1520CST			0	0		Thunderstorm Wind (G60)
	Sever	al large trees dov	wn.					
La Salle Parish								
2 E Jena	13	1546CST			0	0		Thunderstorm Wind (G58)
La Salle Parish	Power	rlines down alon	g Hwy 8.					
3 E Jena	13	1550CST			0	0		Hail (0.75)
	10							
Caddo Parish Vivian	16	2200CST			0	0		Flash Flood
v Ivian		sing home was f	looded but d	amage was re	0			i non i roou
<b>Bossier Parish</b>								
Benton	16	2220CST			0	0		Urban/Sml Stream Fld
	Dole 1	road flooded in t	own.					
Caddo Parish								
Greenwood	16	2220CST			0	0		Flash Flood
	High	water at an apart	ment comple	ex resulted in	residents ha	ving to b	e evacuated.	
Winn Parish								
2 NE Winnfield to 10 ENE Winnfield	22	1621CST 1638CST	8.5	25	0	0	24K	Tornado (F1)
TO ENE WINNIER	A tor		in the south	east quadran	t of an HP	supercell	associated with an ea	astward moving cold front. Damage was
	mostl	y confined to run	al timberland	d with the ex	ception of a t	few mobi	ile homes which lost w	indows and portions of their roofs and one
							alf of the roof. Nume boundaries of Winn P	erous small and moderate pine trees were
Quashita Davist	Junpp	and publied 0	1115 101			ronnou		
Ouachita Parish West Monroe	22	1939CST			0	0		Hail (0.75)
		1,0,001			v	Ū		(0.70)
LOUISIANA, Southe	east							
East Baton Rouge Parish								
Baton Rouge	13	1800CST			0	0	1K	Lightning
-	Lighti	ning caused over	5,000 home	s and busine	sses to lose p	ower.		

#### Storm Data and Unusual Weather Phenomena Path Number of Time Path Estimated December 2001 Local/ Length Width Persons Damage Location Standard Killed Character of Storm Date (Miles) (Yards) Injured Property Crops LOUISIANA, Southeast **Terrebonne Parish** Houma 13 2030CST 0.2 25 0 0 100K Tornado (F1) 2040CST A tornado touched down in an industrial area on the east side of Houma and damaged seven buildings, including severe damage to three of the buildings. **Jefferson Parish** Metairie 2105CST 0.2 25 0 0 100K Tornado (F0) 13 2106CST A tornado tore off the roof of an eight unit condominium building and partially removed the roof of another condominium building. In addition, a metal shed was destroyed, a fence knocked down, a tree and several large tree limbs blown down, and a window knocked out as a result of flying debris. St. Tammany Parish 0 Mandeville 13 2304CST 0 15K Lightning A lightning strike caused a fire in an unoccupied building. LOUISIANA, Southwest **Beauregard Parish** 5 W De Ridder to 2 10 100K 1112CST 0 0 Tornado (F1) 12 2 NW De Ridder 1118CST

A small tornado touched down in wooded area near DeRidder, turning over an 18 wheeler and blowing down trees and power lines.

	One l	home received shin	igle damage	e to its roof. T	This tornado	continue	d into Vernon Pa	rish.
Vernon Parish 2 SW Rosepine to Rosepine		1118CST 1120CST ornado that origina Road. A couple of						Tornado (F1) blowing trees and power lines down on Planer
Vernon Parish Evans	13	1143CST			0	0		Hail (0.88)
Cameron Parish Grand Lake	13 Nume	1645CST erous trees were bl	own down	on power line	<b>0</b> es.	0	5K	Thunderstorm Wind
Allen Parish 5 S Oberlin	13 Trees	1650CST s were blown down	on Cole R	oad.	0	0	5K	Thunderstorm Wind
Calcasieu Parish Gillis	22	2040CST			0	0		Hail (0.88)
Calcasieu Parish Gillis	<b>22</b> A bai	2040CST rn was damaged fro	om high wi	nds in a sever	0 re thundersto	0 orm.	5K	Thunderstorm Wind
Rapides Parish 3 S Glenmora	22 Trees	<b>2215CST</b> s and power lines w	vere blown	down.	0	0	5K	Thunderstorm Wind
Rapides Parish Gardner	<b>22</b> Tree	<b>2233CST</b> blown down on Hi	ghway 121		0	0	2K	Thunderstorm Wind
Rapides Parish Alexandria	<b>22</b> Tree	2332CST blown down on Ev	ergreen Dr	ive.	0	0	2K	Thunderstorm Wind
MAINE, North								

MEZ015>017-029>030 Southern Penobscot - Interior Hancock - Central Washington - Coastal Hancock - Coastal Washington 1700EST Winter Storm 0 0 17 18 1700EST

Intensifying low pressure tracking just south of the Gulf of Maine brought 5 to 8 inches of snow to the region.

# Storm Data and Unusual Weather Phenomena Time Local/ Path Length Number of Persons Estimated Damage December 2001

Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property Crops	Character of Storm				
MAINE, North												
MEZ015-031	South	ern Penobsco	t - Southe	ern Piscatao	quis							
	20	1400EST			0	0		Winter Storm				
	<b>21</b> A trof	0400EST axis extending fi	rom low pre	essure over th	e Gulf of Ma	ine to a	second low across n	orthwest New England provided a focus for				
		l area of 6 to 10	-									
MAINE, South												
MEZ007>009-								cford - Southern Franklin - Southern				
012>014-018>028		rset - Interior al Cumberlar						bec - Interior Waldo - Coastal York -				
	01	0000EST	iu - Sagau	lanoc - Lino	0	0 - CUa	stal waluu	Drought				
	31	2359EST										
	Dam ( was in	1.71 inches below the extreme cat	w normal) u tegory at th	p to 3.89 incl e end of the	hes at West F month. Vol	lockport untary v	(1.09 inches below vater restrictions con	itation ranged from 1.33 inches at Long Falls normal). The Palmer Drought Severity Index ntinued in December in several towns while				
	had be	en reported to th	e state as g	oing dry. W	ell drillers w	ere repo	rting brisk business	going dry at an alarming rate. Over 700 wells with backlogs into March. Six ground water new all time record lows. The water level of				
	Sebago	D Lake dropped	to 24 percen	nt below norm	nal while res	ervoirs i	n the Kennebec and	Androscoggin River basins were 30 percent				
	and 17 percent below normal, respectively. Precipitation for the year was 19.66 inches below normal at Belfast, 18.20 inches below normal at Kingfield, 17.07 inches below normal at West Rockport, 15.93 inches below normal at Albion and Moosehead Lake, 15.59											
		inches below normal at Augusta, 15.27 inches below normal at Harmony, 15.15 inches below normal at Bingham, and 15.04 inches below normal at Waterville										
	below	normal at Water	ville									
MEZ018>020-023>026			terior Cu	mberland	- Androsco	oggin -	Coastal York -	Coastal Cumberland - Sagadahoc -				
	Linco 09	oln 0200EST			0	0		Moderate Snowfall				
		1100EST										
	*	ressure moving bught from 3 to 6				•	ecember 8th to off t	he Mid-Atlantic coast on the morning of the				
MEZ007>009-012>014	Northern Oxford - Northern Franklin - Central Somerset - Southern Oxford - Southern Franklin - Southern Somerset											
	14 15	2100EST 1000EST			0	0		Moderate Snowfall				
	-	-		•		-	ccember 14th to sout areas farther south re	h of Nova Scotia by the morning of the 15th acceived mainly rain.				
MEZ007>009-								ork - Interior Cumberland - Coastal				
018>019-024>028		berland - Saga	idahoc - L	incoln - Kı	10x - Coast		do	Madamata Successfall				
	17 18	1200EST 1500EST			U	0		Moderate Snowfall				
MEZ012>014-020>022	South		Southern	Franklin -	Southern S	Somers	et - Androscoggi	n - Kennebec - Interior Waldo				
	17 18	1200EST 1500EST			0	0		Heavy Snow				
			rom the Mi	ssissippi Vall	ey on the mo	rning of	December 17th to	near Long Island, New York by the morning				
					-			he mountains and 4 to 8 inches of snow in a				
						2		snow mixed with or changed to freezing rain York County to 2 to 5 inches.				
MEZ013>014	South	ern Franklin	- Souther	n Somerset								
	20 21	1500EST 0700EST			0	0		Moderate Snowfall				
MEZ020>022		oscoggin - Ke	nnebec - I	nterior Wa	ldo							
	20	1500EST			0	0		Heavy Snow				
	21 Low p	0700EST ressure moving	through so	ithern Ouebe	c and a seco	ndarv 1	ow developing off t	he New England Coast brought from 4 to 8				
	inches	of snow in And	roscoggin,	Kennebec, an	d northern V	Valdo C	ounties. In the foot	hills to the north, 3 to 6 inches of snow fell.				
	Along	me coast, a mixt	ure or preci	pitation was i	reported and	snowral	l amounts were less.					

#### **Storm Data and Unusual Weather Phenomena** Path Time Path Number of Estimated December 2001 Local/ Length Width Persons Damage Standard Killed Character of Storm Location Date (Miles) (Yards) Injured Property Crops MAINE, South MEZ007>009-Northern Oxford - Northern Franklin - Central Somerset - Southern Oxford - Southern Franklin - Southern 012>014-018>028 Somerset - Interior York - Interior Cumberland - Androscoggin - Kennebec - Interior Waldo - Coastal York -Coastal Cumberland - Sagadahoc - Lincoln - Knox - Coastal Waldo 0300EST 0 **Freezing Rain** 24 0 A deep low pressure system over the Great Lakes on the 23rd weakened on the 24th as a secondary low developed off the Mid-Atlantic Coast on the 24th. The combination of the two systems brought warmer air northward across much of the area. Freezing rain developed over the area early in the morning on the 24th and caused slippery driving conditions until later in the day when temperatures warmed into the 40s along the coast and interior and the mid- to upper-30s in the mountains. In Cornish, a mail truck filled with holiday deliveries slid through construction barriers on Route 25 and landed nose-first in the Little River. MARYLAND, Central **MDZ002** Allegany 0600EST 0 Strong Wind 20 0 1600EST A cold front passed through the region just before sunrise on the 20th. Gusty winds of 35 to 50 MPH were ushered in behind the front and continued through mid-afternoon. A wind gust of 48 MPH was recorded in Cumberland. MARYLAND, Northeast MDZ008-012-015-Cecil - Kent - Queen Annes - Talbot - Caroline 019>020 01 0000EST 0 0 Drought 31 2359EST December 2001 continued the dry pattern that established itself during the latter half of the year in Maryland. While the month was wetter than either October or November, only about half of the normal monthly precipitation fell during it. On a county weighted average, monthly precipitation totals ranged from 1.7 inches in Kent County to 2.1 inches in Caroline County. Normal is around 3.6 inches. The continued dry conditions forced the Maryland Department of the Environment on the 11th to extend the drought watch to include all of the Maryland Eastern Shore counties. Precipitation deficits, below normal streamflow and below normal ground water levels triggered the drought watch. The intent of the drought watch declaration is to minimize water usage, although no formal restrictions were in place. MDZ008-008-012-012-Cecil - Kent - Queen Annes - Talbot - Caroline 015-015-019-019>020-020 01 0800EST 0 0 0 0 **Unseasonably Warm** 1800EST 06 A strong ridge of high pressure over the western Atlantic Ocean and adjacent parts of the United States brought unseasonably and record breaking warm weather from November 30th through December 6th along the Maryland Eastern Shore. Daily record breaking high temperatures were set on the 1st, 5th and 6th in many locations with high temperatures reaching into the 70s. A cold frontal passage on the 7th brought readings closer to seasonal levels. The warmest day for most areas was the 5th. Highest temperatures included 76 degrees in Easton, 75 degrees at the Baltimore-Washington International Airport and Salisbury and 70 degrees in Stevensville. MDZ008-012-015-Cecil - Kent - Queen Annes - Talbot - Caroline 019>020 2359EST Û 0 0 0 **Unseasonably Warm** 31 December 2001 was unseasonably warm. For most of the Middle Atlantic States, including the Maryland Eastern Shore, it was one of the ten warmest Decembers on record. The monthly mean temperature of 42.1 degrees at the Baltimore-Washington International was 5.4 degrees warmer than normal. MARYLAND, South NONE REPORTED. MARYLAND, West **MDZ001** Garrett 1800EST 0 0 5K High Wind 14 2000EST High winds associated with a deep area of low pressure passing over the region downed numerous trees and power lines across the

High winds associated with a deep area of low pressure passing over the region downed numerous trees and power lines across the Oakland area.

		Time Local/	Path Length	Path Width	Numbe Persor		Estimated Damage	]	December 200
Location	Date	Standard	(Miles)	(Yards)		njured	Property Crops	Character of Storm	
AASSACHUSETTS,	Centr	al and East							
MAZ002>006-	West	tern Franklin						ddlesex - Western I	
008>010-012>014	Mide	dlesex	tern Ham	pden - Eas			Southern Worces	ster - Western Nor	folk - Southeas
	08 09	2300EST 0800EST			0	0		Heavy Snow	
	The so The h totals	nighest totals, are	ound 9 inche natically alor	s, were reporting the coast,	ted from Frank to less than	tlin Cour inches.	ty into northern Wo Since the storm o	entral, and interior east rcester and Middlesex C ccurred from Saturday	Counties. Snowfa
MASSACHUSETTS,									
MAZ001	Berk 09	shire 0000EST			0	0		Winter Storm	
		0600EST							
	This 1 Decer band	low had lots of s mber 9th. The a	subtropical r ir was cold of wfall, 4 to 8	noisture to we enough for m 8 inches, accu	ork with as it ostly snow action imulated across	moved ea coss inter	ast along the front, the front of the front	Mason-Dixon Line, late hen off the Mid Atlanti rk and adjacent westerr . Specific snowfall and	c coast by Sunday New England.
MICHIGAN, East									
MIZ049	Huro 27	on 0000EST 0800EST			0	0		Heavy Snow	
	Appro station	oximately around	d midnight, 1 5 from Casev	this band of h ville to Port A	eavy snow mo Austin until 8 a	oved onsl m, when	hore in northwestern the band dissipated	Lake Huron and north Huron County. The ba . Spotters and road crev	nd remained nearl
MICHIGAN, Extrem									
MIZ077>078	Berr	ien - Cass 2200EST			0	0		Heavy Snow	
	24	2200EST						·	
	day a	nd night of the	24th. Snow	accumulation	s in 24 hrs av	veraged of	one foot across the r	cember 23rd and contin egion. Niles in Berrien irst major lake effect sn	county reported
MIZ077	Berr 28	ien 1700EST			0	0		Heavy Snow	
	29	1700EST						·	
		e effect snow ev	vent caused v	videspread sn	ow across Sou			Northwest Indiana. The	
	across	s Berrien county inches fell across	U	1	h county India	ina. Ten	inches of snow fell	across Duchanan and E	errien Springs an
	across	•	U	1	h county India	ina. Ten	inches of snow fell		errien Springs an
	across nine i 05	inches fell across	South Bend	l. Î	0	0	1K	Thunderstorm Win	d (G50)
Leelanau County	across nine in 05 A stro moist with t	<b>1910EST</b> ong area of low p air moved into the thunderstorm	s South Bend pressure mov Michigan, c ns, with a tel	l. ved across the ausing showe evision station	0 western Grea rs and thunde a west of Trav	0 t Lakes ru rstorms t erse City	<b>1K</b> egion on the 5th. Ah o develop. A few str reporting damage to		d (G50) asonably warm an sts were associate low passed east o
Leelanau County 18 E Empire MIZ008-016>017- 019>022-025>028-	05 A stro moist with t Michi	<b>1910EST</b> ong area of low p air moved into the thunderstorm igan strong non-	s South Bend pressure mov Michigan, c is, with a tel- convective w net - Cheb	l. ved across the ausing showe evision station vind gusts of oygan - Cl	0 western Grea rs and thunde h west of Trav 40 to 50 mph v narlevoix -	0 t Lakes r rstorms t erse City vere com Leelana	<b>1K</b> egion on the 5th. Ah o develop. A few stu reporting damage to mon, causing some p	<b>Thunderstorm Win</b> ead of the system, unser rong to severe wind gu o a satellite dish. As the	d (G50) asonably warm an sts were associate low passed east o rthern Michigan.
MIZ008-016>017-	05 A stro moist with t Michi	1910EST ong area of low p air moved into the thunderstorm igan strong non opewa - Emm	s South Bend pressure mov Michigan, c is, with a tel- convective w net - Cheb	l. ved across the ausing showe evision station vind gusts of oygan - Cl	0 western Grea rs and thunde h west of Trav 40 to 50 mph v narlevoix -	0 t Lakes r rstorms t erse City vere com Leelana	<b>1K</b> egion on the 5th. Ah o develop. A few stu reporting damage to mon, causing some p	<b>Thunderstorm Win</b> ead of the system, unser rong to severe wind gu o a satellite dish. As the power outages across no	d (G50) asonably warm an sts were associate low passed east o rthern Michigan.

		Time	Path Langth	Path Width	Numb		Estima		December 2001
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Pers Killed	Injured	Dama Property	Crops	Character of Storm
MICHIGAN, North		1. 1						6 . G	
	and Cl with su inches \$59,53 reques	harlevoix coun now removal. 7 (on the 25th t 8.34 in disaste	ties by Michi The cities of I hrough the 2 r assistance fi for the same	gan Governo Petoskey and 7th) and 27 rom the state period. Trav	or Engler so Charlevoix l and 39 inche for snow rer verse City tie	that equiproke the proke the s (on the noval op d their 2	ipment, perso eir 2 and 3 da e 26th throug erations Deco 2 day snowfal	onnel, and ay snowfa gh the 28 ember 24 l record v	ate of Emergency was declared in Emmet money would become available to assist ll total records with amounts of 44 and 60 (h) respectively. Emmet county requested h through the 29th and Charlevoix county with 20.5 inches from the 28th through the ber.
MICHIGAN, Upper									
Dickinson County									
Iron Mtn	05 D	1441CST			0	0			Hail (0.75)
Dickinson County	Penny	sized hail was	reported.						
Granite Bluff	05	1445CST			0	0			Hail (0.88)
	Nickle	sized hail was	reported.						
Dickinson County		1440.007			0	0			H H (0.55)
Felch	05 Denny	1448CST sized hail was	reported		0	0			Hail (0.75)
Iron County	Tenny	Sizeu nan was	reported.						
12 SE Crystal Falls	05	1450CST			0	0			Hail (0.75)
	A stor drew v	•	the Plains r moist air into						Strong southerly winds ahead of the low ped and produced 0.88 inch or larger hail
MIZ001>003	Kewe 06	enaw - Onto 0218EST 0500EST	nagon - Ho	oughton	0	0			High Wind (G60)
	The st Upper outage	Peninsula late	ght thunderst r that night a ver the expos	orms to Upp nd early on t sed Keweena	er Michigan he 6th. Thei w Peninsula	e were i Storm	numerous rep force winds	orts of tr	so produced strong west winds across the ees and branches blown down and power rted on Lake Superior with the Stannard
MIZ001>007-009	Kewe	enaw - Onto	nagon - Ho	oughton - B	araga - Ma	arquett	e - Alger - I	Luce - G	logebic
	23	2300EST	-	-	0	0	-		Heavy Snow
MICHIGAN, West	storm with h on the 12/24, inches reporte Marais slightl with T Rockla 12/29, dimini	moved through eavy amounts of prevailing win Ironwood had . On 12/25, If ed 21.1 inches 6 inches of s y. Atlantic Min wo Heart repo and had 10.2 in heavy lake ef shed, but Mun	the U.P. dur of snowfall re ad direction v 17.5 Inches onwood pick of snow. Alge now, and a 1 e reported 8- trting 15 inch aches of new fect snow co ising received	ing the early ported each of which was no of snow, Wa ed up anothe er and Luce O ocation just 10 inches of es, Melstrand snow, Wake portinued in p d 7.0 more in	morning of lay in areas of orth or north kefield 11 in r 14.5 inche Counties also south of Mu snow and W- 13 inches, a field had 10 olaces. NWS taches. Waket	12/23. Fr f the Lal west. M ches, Ma s of snow reported nising sa akefield inches o Marque ïeld repo	rom 12/24 to ke Superior su arquette set a arenisco 10 in w, Bessemer 1 heavy snow aw 13.7 incher reported 8 ina effield reporte of new snow, ette in Negau orted 72 inch	12/31, a p nowbelts. a daily sn nches, Wa had 10 in with Two es of sno ches of sno ches of sno ches of sno d 12 inch Au Train nnee had es of sno	eninsula. A cold front associated with the orolonged lake effect snow event occurred Snowfall amounts were highly dependent owfall record of 13.0 inches of snow on tersmeet 12.5 inches and Shingleton 10.2 icches, Wakefield 12 inches and Rockland o Heart reporting 9 inches of snow, Grand w. On 12/26, the lake effect snow let up ow. On 12/27, lake effect snow continued tes. On 12/28, more lake effect snow fell. 24 inches, and Melstrand 9.8 inches. On 11.5 inches. On 12/30, lake effect snow w out of the lake effect snow event from eninsula on 12/31.
	Maso	n - Lake - O	ceana - Nev	waygo - Mu	iskegon - C	)ttawa ·	- Kent - All	legan - H	Barry - Van Buren - Kalamazoo
	23 25	1500EST 0700EST	1 <del></del>	b d 6	0	0		-64-22	Winter Storm

Moderate to heavy lake effect snow bands set up during the late afternoon hours of the 23rd. The snow continued through the early morning hours of the 25th. Anywhere from 6 inches to well over a foot of snow fell across the area. The heaviest snowfall totals were received from Grandville (Kent county), where 17.7 inches of snow fell, and from Bloomington (Van Buren county), where 17 inches of snow fell.

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crop	s Character of Storm	
<u>MICHIGAN, West</u> MIZ050-056>057- 064>065-071	Musk	cegon - Ottav	va - Kent -	Allegan - E	Barry - Var	ı Buren			
	25 27	1900EST 1600EST			0	0		Winter Storm	
	Moder the 27 countion fell, ar since t	rate to heavy la th. At least eig es received wel nd in Allegan (	ht inches of s l in excess o Allegan cour 15 inches o	snow fell acro f a foot. The nty), where 2 f snow fell in	oss the area a highest snow 5.2 inches of	and many fall total f snow fe	v locations across of s were reported in ell. This snow adde	and continued through t Ottawa, Kent, Allegan, I Grandville (Kent count d to significant snow t round 24 to 25 inches o	Barry, and Van Bure y) where 26" of snow hat had already falle
MIZ050-056>057- 064>065-071>073	Musk	xegon - Ottav	va - Kent -	Allegan - B	Barry - Var	Buren	- Kalamazoo -	Calhoun	
	28 29	1600EST 0000EST			0	0		Winter Storm	
	as twe hours from H	nty two inches and 22 inches Battle Creek w	across the are of snow fell est to the she	ea. The heaving from the 28th ore of Lake 1	est snow fell h through the Michigan. 12	in Bloon e 29th. T to 18 ir	ningdale (Van Bure he axis of heavies inches of snow was	roducing additional sno n county), where 15 inc snow set up south of 6 common across that a north to Mason county	ches of snow fell in 24 Grand Rapids, mainly rea. There was also
	previo 70.2 ir ended	us records for s the of snow the state of th	snowfall in c for the week, of 60.2 inch	one week in s which was the es of snowfal	everal location he greatest re	ons acros eported si	s southwest Michi nowfall total across	gh the week. Storm tot gan. Grandville (Kent c the area. Bloomingdal ervice Forecast Office in	ounty) ended up with e (Van Buren county
MINNESOTA, Centr	occurr	ed along the US	S-131 corrido				nerally speaking, th	he heaviest snow accum here two to four feet of	ulations for the weel
MINNESOTA, Centr	occurro ral and	ed along the US	S-131 corrido				nerally speaking, th	e heaviest snow accum	ulations for the weel
	occurr <u>cal and</u> NONE <u>neast</u> South 05 Very v	ed along the US South Cent E REPORTED. hern Cook 2000CST 2300CST vindy condition	5-131 corrido t <b>ral</b> 1s caused pov	r from Grand wer outages a	Rapids down	n through 0	nerally speaking, tl	e heaviest snow accum	nulations for the week snow fell.
<u>MINNESOTA, North</u> MNZ021	occurre <u>ral and</u> NONE <u>neast</u> South 05 Very v 41 mp	ed along the US South Cent E REPORTED. hern Cook 2000CST 2300CST	5-131 corrido t <b>ral</b> 1s caused pov	r from Grand wer outages a	Rapids down	n through 0	nerally speaking, tl	e heaviest snow accum here two to four feet of High Wind (G46	nulations for the week snow fell.
<u>MINNESOTA, North</u> MNZ021 <u>MINNESOTA, North</u> MNZ001-004>008-	occurr ral and NONE neast South 05 Very v 41 mp <u>west</u> West	ed along the US South Cent E REPORTED. E REPORTED. E REPORTED. 2000CST 2000CST 2000CST 2000CST windy condition h with a peak w Polk - Kittso	3-131 corrido t <b>ral</b> ns caused pov vind of 53 mj	r from Grand wer outages a ph.	Rapids down 0 nd downed t	n through 0 rees. Wit	nerally speaking, th a Allegan county, w ads were clocked a	e heaviest snow accum here two to four feet of High Wind (G46	ulations for the weel snow fell. ) м DS (GNA) at a stead
<u>MINNESOTA, North</u> MNZ021 MINNESOTA, North	occurr ral and NONE neast South 05 Very v 41 mp nwest	ed along the US South Cent E REPORTED. A COOK 2000CST 2300CST vindy condition h with a peak v Polk - Kittso Polk 0900CST	3-131 corrido t <b>ral</b> ns caused pov vind of 53 mj	r from Grand wer outages a ph.	Rapids down 0 nd downed t	n through 0 rees. Wit	nerally speaking, th a Allegan county, w ads were clocked a	he heaviest snow accum there two to four feet of <b>High Wind (G46</b> t the Grand Marais AS0	ulations for the week snow fell. ) м DS (GNA) at a stead
<u>MINNESOTA, North</u> MNZ021 <u>MINNESOTA, North</u> MNZ001-004>008-	occurr ral and NONE neast South 05 Very v 41 mp Nwest East 05 A low northw	ed along the US South Cent E REPORTED. A COOK 2000CST 2300CST windy condition h with a peak w Polk - Kittso Polk 0900CST 1330CST pressure syste	5-131 corrido t <b>ral</b> ns caused poo vind of 53 mj on - Roseau om moved ou A quarter in	r from Grand wer outages a ph. <b>1 - Lake Of</b> ut of Colorac nch of ice bui	Rapids down 0 nd downed t The Wood 0 lo to the Mi	0 rees. Win ls - Wes 0 nnesota	herally speaking, th Allegan county, w nds were clocked a a <b>t Marshall - Ea</b> Arrowhead, bringi	e heaviest snow accum here two to four feet of High Wind (G46 t the Grand Marais AS6 st Marshall - Pennin	ulations for the wee snow fell. ) м DS (GNA) at a stead ngton - Red Lake and strong winds t
<u>/IINNESOTA, North</u> MNZ021 <u>/IINNESOTA, North</u> MNZ001-004>008- 013>015	none none	ed along the US South Cent E REPORTED. Pern Cook 2000CST 2300CST windy condition h with a peak w Polk - Kittso Polk 0900CST 1330CST pressure syste vest Minnesota. ed one to two in Polk - Norm	5-131 corrido t <b>ral</b> ns caused pov vind of 53 mp on - Roseau on - Roseau em moved ou A quarter in aches of snov	wer outages a ph. <b>1 - Lake Of</b> ut of Colorac nch of ice bui v.	Rapids down 0 nd downed t The Wood 0 lo to the Mi ilt up on expo West Marsl	0 rees. Win ls - Wes 0 nnesota osed surf hall	herally speaking, th Allegan county, w nds were clocked a a <b>t Marshall - Ea</b> Arrowhead, bringi	the heaviest snow accum there two to four feet of High Wind (G46 the Grand Marais AS6 the Grand Marais AS6 st Marshall - Pennin Winter Storm hg freezing rain, snow, ng extremely dangerous	ulations for the week snow fell. ) м DS (GNA) at a stead ngton - Red Lake and strong winds t
<u>/IINNESOTA, North</u> MNZ021 <u>/IINNESOTA, North</u> MNZ001-004>008- 013>015	occurr ral and NONE neast South 05 Very v 41 mp newest West East 1 05 A low northw receive West 22 23 30 to 3 Red R	ed along the US South Cent E REPORTED. There Cook 2000CST 2300CST vindy condition h with a peak w Polk - Kittso Polk 0900CST 1330CST pressure syste vest Minnesota. ed one to two in Polk - Norm 1551CST 0400CST 35 mph wind sp	S-131 corrido tral is caused poor vind of 53 mj on - Roseau em moved or A quarter in inches of snow uan - Clay - weeds, gusting ravel was no	wer outages a ph. <b>I - Lake Of</b> ut of Colorac nch of ice bui v. <b>Kittson - V</b> g as high as 4:	Rapids down 0 nd downed t The Wood 0 lo to the Mi ilt up on expo Vest Marsl 0 5 mph, along	0 rees. Win ls - Wes 0 nnesota osed surf hall 0 with son	herally speaking, the Allegan county, we have a clocked a spectrum of the Allegan county, we have a spectrum of the Allegan county of the Allegan county, we have a spectrum of the Allegan county of the Allegan county of the Allegan county of the Allegan county of the Allegan county, we have a spectrum of the Allegan county of the Allegan county, we have a spectrum of the Allegan county, and the Allegan county, we have a spectrum of the Allegan county, and the Alle	e heaviest snow accurr here two to four feet of High Wind (G46 t the Grand Marais AS0 st Marshall - Pennin Winter Storm ng freezing rain, snow,	<ul> <li>mulations for the week snow fell.</li> <li>M</li> <li>DS (GNA) at a stead</li> <li>ngton - Red Lake</li> <li>and strong winds t</li> <li>Most locations onl</li> <li>quarter mile along th</li> </ul>
<u>MINNESOTA, North</u> MNZ001-004>008-	none none	ed along the US South Cent E REPORTED. There Cook 2000CST 2300CST vindy condition h with a peak w Polk - Kittso Polk 0900CST 1330CST pressure syste vest Minnesota. ed one to two in Polk - Norm 1551CST 0400CST 35 mph wind sp iver Valley. T	S-131 corrido tral is caused poor vind of 53 mj on - Roseau em moved or A quarter in inches of snow uan - Clay - weeds, gusting ravel was no	wer outages a ph. <b>I - Lake Of</b> ut of Colorac nch of ice bui v. <b>Kittson - V</b> g as high as 4:	Rapids down 0 nd downed t The Wood 0 lo to the Mi ilt up on expo Vest Marsl 0 5 mph, along	0 rees. Win ls - Wes 0 nnesota osed surf hall 0 with son	herally speaking, the Allegan county, we have a clocked a spectrum of the Allegan county, we have a spectrum of the Allegan county of the Allegan county, we have a spectrum of the Allegan county of the Allegan county of the Allegan county of the Allegan county of the Allegan county, we have a spectrum of the Allegan county of the Allegan county, we have a spectrum of the Allegan county, and the Allegan county, we have a spectrum of the Allegan county, and the Alle	e heaviest snow accum here two to four feet of High Wind (G46 t the Grand Marais AS0 st Marshall - Pennin Winter Storm ng freezing rain, snow, ng extremely dangerous Blizzard ped visibilities below a	<ul> <li>mulations for the weel snow fell.</li> <li>M</li> <li>DS (GNA) at a steady</li> <li>ngton - Red Lake</li> <li>and strong winds to</li> <li>Most locations only</li> <li>quarter mile along the</li> </ul>

NONE REPORTED.

		Time Local/	Path Length	Path Width	Number Person		Estimated Damage		December 200
Location	Date	Standard	(Miles)	(Yards)	Killed I	njured	Property Crops	Character of Storm	
MINNESOTA, West									
	NONE	E REPORTED.							
MINNESOTA, West C	Centra	<u>ıl</u>							
	NONE	E REPORTED.							
<u>MISSISSIPPI, Central</u> Bolivar County	<u> </u>								
Countywide	12	1445CST 1700CST			0	0	1K	Flash Flood	
	Many	roads were floo	ded across th	ne county.					
Washington County Countywide	12	1445CST 1630CST			0	0	1K	Flash Flood	
	Severa	al roads were flo	oded, especi	ially across n	orthern portion	ns of the	e county		
<b>Bolivar County</b>									
Countywide	13	1400CST 1900CST			0	0		Flash Flood	
Humphreys County	Floodi	ing of roads and	low-lying a	reas occurred,	especially nea	r the cit	ty of Cleveland.		
Countywide	13	1500CST 1830CST			0	0		Flash Flood	
	Extens	sive flooding oc	curred count	y-wide due to	very heavy ra	infall.			
Washington County Countywide	13	1600CST			0	0		Flash Flood	
Countywide	15	1830CST			Ū	U		Flash Flood	
	Heavy	rainfall caused	additional fl	ooding of sev	eral roads.				
Washington County 5 SE Greenville Abide A	13	1600CST 1915CST			0	0		Flash Flood	
	Two r	oads were flood	ed across no	rthern portion	s of the county	<i>.</i>			
Grenada County	10	1(20/087			0	0		Eleck Elecd	
Countywide	13	1630CST 1830CST			0	0		Flash Flood	
	Severa	al roads were in	undated with	water and im	passable.				
Leflore County Countywide	13	1630CST 1900CST			0	0		Flash Flood	
	Severa	al roads were co	vered with w	vater across th	e county.				
Leflore County Countywide	13	1630CST 1930CST			0	0		Flash Flood	
Sharkey County	Severa	al roads remaine	d covered w	ith water due	to ongoing, he	avy raiı	ıfall.		
Countywide	13	1630CST 1830CST			0	0		Flash Flood	
	Nume	rous roads were	covered wit	h upwards to	a foot of water	r.			
Carroll County	12	1640057			0	0		Flash Flood	
Countywide	13 Manu	1640CST 1930CST		e flood-i i		0	onnaiallerie		haa
Sunflower County	Many	roads across the	e county were	e nooded due	to torrential ra	uniali, e	especially in and aroun	a the city of Greenw	000.
6 W Drew	13	1730CST 2000CST			0	0		Flash Flood	
Western Const	Many	roads across the	e northern po	ortion of the co	ounty were inu	indated	with water, up to a few	v feet deep in locales	
Warren County Yokena	13	1743CST 1747CST			0	0	1K	Thunderstorm W	/ind

#### Storm Data and Unusual Weather Phenomena Path Time Path Number of Estimated December 2001 Local/ Length Width Persons Damage Standard (Miles) Killed Character of Storm Location Date (Yards) Injured Property Crops **MISSISSIPPI**, Central **Hinds County** Pocahontas 13 1758CST 0 0 1KHail (1.25) 1800CST Half dollar size hail fell across northern portions of the county. Some large limbs were broken off trees. Warren County 1800CST 0 0 **Flash Flood** Countywide 13 2000CST Heavy rainfall near Vicksburg, Mississippi and over northern portions of the county resulted in the flooding over several roads. **Adams County** 1820CST 0 0 Hail (0.75) Natchez 13 1822CST **Hinds County 2** N Pocahontas 1822CST 0.2 30 0 0 1K Tornado (F0) 13 1823CST A brief tornado touchdown was seen across far northern portion of the county. Several powerlines were knocked down along highway 49. **Madison County** Madison 1830CST 0.2 25 0 0 1K Tornado (F0) 13 1831CST A brief tornado touchdown occurred west of Interstate 55 in the southwest portion of the county. Several trees were knocked down and 4 inch diameter branches snapped off. Three-quarter inch hail also occurred at this time. **Yazoo County** Countywide 1830CST 0 0 **Flash Flood** 13 2000CST Roads along the Sunflower River Basin and in the city of Yazoo City were flooded due to very heavy rainfall. Yazoo County 1840CST 0 1K **Thunderstorm Wind** Yazoo City 13 0 Trees were reported down across the city. No damage to structures reported. **Rankin County** 1K Sand Hill 1845CST 0.1 25 0 0 Tornado (F0) 13 1846CST A brief tornado touchdown was seen over open country. A few trees were knocked down. **Rankin County 11 NE Brandon** 1900CST **Thunderstorm Wind** 13 0 0 10K Trees were reported to be blown down on a house near Pisgah. **Holmes County** 200K **Flash Flood** Countywide 13 1905CST 0 0 2000CST Several county roads and streets were reported flooded due to heavy rainfall, especially in and around the city of Tchula where up to 33 homes and mobile homes were affected by flood waters. Smith County 0 1K **Thunderstorm Wind 5 E Polkville** 13 1930CST 0 1931CST Trees were downed at a community college near Center Ridge. **Newton County** 0 0 1K **Thunderstorm Wind** Newton 13 1945CST 1947CST Very large limbs were snapped off trees around town. Neshoba County 2000CST 0 1K **Thunderstorm Wind** Philadelphia 13 0 2002CST Trees were knocked down by high winds in the vicinity of Westside Park.

Jones County 5 W Laurel

Jones County Countywide

13 2050CST 14 0000CST

Trees were knocked down west of town across a vast area.

Several roads across the county were flooded.

2003CST

2005CST

13

0

0

0

0

1K

Thunderstorm Wind

**Flash Flood** 

		Time Local/	Path Length	Path Width	Numb Pers		Estim Dam			December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
MISSISSIPPI, Centr	al									
Forrest County										
Hattiesburg	13	2100CST			0	0	1K		Thunderstorm Wi	nd
		were knocked d	own by high	winds at Pau	l Johnson Sta	ate Park.				
Lamar County										
Purvis	13	2100CST 2102CST			0	0	5K		Thunderstorm Wi	nd
	A hou	ise sustained roo	of damage fro	om high wind	s.					
Forrest County										
10 S Hattiesburg to 12 S Hattiesburg	13	2120CST 2122CST			0	0	1K		Thunderstorm Wi	nd
12 5 Hatticsburg	A few	trees were know	ked down in	the vicinity (	of highway 4	9				
Forrest County	21 ICW	aces were knot	Act uown III	the vicinity (	Ji ingnway 4					
5 NE Hattiesburg	13	2200CST			0	0			Flash Flood	
	14 Four c	0000CST	theast of the	aity floodad	and bacama	mnaaah	10			
Laman County	rour c	county roads nor	theast of the	city nooded	and became	mpassao	le.			
Lamar County	12	2200CST			0	0	500K		Flash Flood	
Purvis	13 14	2200CS1 0000CST			U	U	500K		FIASII FIOOU	
			ded a total o	f 14 homes i	Purvis 9 of	whichs	ustained mai	or damage	e and 5 which sustaine	d minor damage
	Tonici	innar rannan moe		1 14 nomes n	11 ul vi3, 7 0i	which 5	ustanica maj	or damage	and 5 which sustaine	a minor damage.
Smith County										
11 N Raleigh	23	0300CST			0	0	2K		Thunderstorm Wi	nd
	Severa	al trees were kno	ocked down a	across the nor	thern portior	of the c	ounty. A por	ch roof wa	as also blown off a mo	bile home.
Newton County										
Newton	23	0310CST	0.2	30	0	0	1K		Tornado (F0)	
		0312CST								
	A brie	et tornado toucho	down occurre	ed west of cit	y of Newton.	It snapp	ed off and ty	visted som	e trees in the area.	
<b>MISSISSIPPI</b> , North	1									
MSZ010	Coah	oma								
	01	0001CST			0	0	10K		Flood	
	03	0900CST			Ū	U	IUK		11000	
		ing that was occ	urring in Nor	rth Mississip	oi in late Nov	ember co	ontinued in e	arly Dece	mber.	
		•	•	FI						
MSZ001-008-011	De Se	oto - Tate - Q	uitman							
	12	1435CST			0	0	3K		Flood	
		1835CST								
	Many	roads in the cou	inty were und	ler water.						
MSZ014	Unio	n								
	13	1930CST			0	0	1K		Flood	
		2300CST			-					
	A cou	ple of roads in t	he county we	re flooded.						
107001	D C	-	•							
MSZ001	De Se				0	0				
	15 18	2000CST 1200CST			0	0	5K		Flood	
			n floodad aft	on the emerance		fucus th	a Autrohustia I	Down oxiout	Jourad	
	A cou	ple of roads wer	e nooded att	er me ennerge	ncy spinway	nom m	= AIKabuua		loweu.	
MSZ010	Coah	ioma								
	18	1200CST			0	0	10K		Flood	
		2359CST								
	Water	reached into se	veral homes	in the Clarkso	lale area.					
MISSISSIDDI South										

**MISSISSIPPI, South** 

NONE REPORTED.

/ Length ard (Miles) CST 0.1 CST do briefly touched d ctures in the area we CST CST CST CST CST CST CST CST CST CST	ere damaged.	0	0 near Hint	Property Crops 10K onville. The tornado 10K	Character of Storm Tornado (F0) did damage primarily to trees in a wooded Thunderstorm Wind (G55) Heavy Rain Heavy Rain Heavy Rain
CST do briefly touched di ctures in the area we CST CST rstorm winds blew d CST CST CST CST CST CST CST	own along Sta bre damaged.	te Road 15 n 0 r the commu 0 0	near Hint 0 unity. 0 0	onville. The tornado	did damage primarily to trees in a wooded Thunderstorm Wind (G55) Heavy Rain Heavy Rain
CST do briefly touched di ctures in the area we CST CST rstorm winds blew d CST CST CST CST CST CST CST	own along Sta bre damaged.	te Road 15 n 0 r the commu 0 0	near Hint 0 unity. 0 0	onville. The tornado	did damage primarily to trees in a wooded Thunderstorm Wind (G55) Heavy Rain Heavy Rain
CST do briefly touched di ctures in the area we CST CST rstorm winds blew d CST CST CST CST CST CST CST	own along Sta bre damaged.	te Road 15 n 0 r the commu 0 0	near Hint 0 unity. 0 0	onville. The tornado	did damage primarily to trees in a wooded Thunderstorm Wind (G55) Heavy Rain Heavy Rain
ctures in the area we CST CST rstorm winds blew c CST CST CST CST CST CST CST CST	ere damaged.	0 r the commu 0 0	0 unity. 0 0		Thunderstorm Wind (G55) Heavy Rain Heavy Rain
CST rstorm winds blew d CST CST CST CST CST CST CST	down trees nea	r the commu 0 0	unity. O O	10K	Heavy Rain Heavy Rain
CST rstorm winds blew d CST CST CST CST CST CST CST	down trees nea	r the commu 0 0	unity. O O	10K	Heavy Rain Heavy Rain
rstorm winds blew d CST CST CST CST CST CST CST	lown trees nea	0 0	0		Heavy Rain
CST CST CST CST CST		0	0		Heavy Rain
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CST CST		0	0		Heavy Rain
CST CST		0	0		Heavy Rain
CST					reavy rain
		0	0		Heavy Rain
CST		0	0		Heavy Rain
		4		4 - 174 D-1-6-11 -	
		1 0		C	5
		1	0		Extreme Cold
i una was anabie to	get morde. The	, ingir tempe	ruture un	a day was so and the	10. 10.
RTED.					
RTED					
KILD.					
CST		0	0		Thunderstorm Wind (G57)
l down by the public	2.				
COT		0	0	117	
	wn by the pub		U	IK	Thunderstorm Wind (G57)
	, I				
e Girardeau - W	ayne - Cart	er - Ripley	- Butle	er - Stoddard - Sco	ott - Mississippi - New Madrid
		0	0	180K	Flood
	most countia	e of coutboo	et Misson	uri At least 20 cours	ty roads were closed in Staddard County
nty, water was over	U.S. Highwa	y 60 near H	ighway 2	25. Creeks went out o	of their banks, and widespread flooding o
	CST started on the 16th a. The result was n nts due to the rainfal CST d Woodson Terrace h and was unable to RTED. RTED. CST I down by the public CST ver lines reported do be Girardeau - W CST CST ads were flooded in 18 was washed ou nty, water was over	CST started on the 16th and continue a. The result was numerous areas nts due to the rainfall. CST d Woodson Terrace resident froze h and was unable to get inside. The RTED. RTED. CST I down by the public. CST wer lines reported down by the pub be Girardeau - Wayne - Cart CST CST ads were flooded in most countie 18 was washed out in Ripley Co nty, water was over U.S. Highwa	CST started on the 16th and continued until abou a. The result was numerous areas of ponding its due to the rainfall. CST 1 1 d Woodson Terrace resident froze to death out h and was unable to get inside. The high tempe RTED. RTED. CST 0 I down by the public. CST 0 ver lines reported down by the public. De Girardeau - Wayne - Carter - Ripley CST 0 CST 0 CST 0 CST 0 CST 0 CST 10 CST 10	CST         started on the 16th and continued until about midday         a. The result was numerous areas of ponding water cants due to the rainfall.         CST       1       0         d Woodson Terrace resident froze to death outside her I         h and was unable to get inside. The high temperature that         RTED.         RTED.         CST       0       0         I down by the public.         CST       0       0         ver lines reported down by the public.         Dec Girardeau - Wayne - Carter - Ripley - Butle         CST       0       0         CST       0       0         ver flooded in most counties of southeast Misso       18 was washed out in Ripley County, and other road         nty, water was over U.S. Highway 60 near Highway 2       10	CST         started on the 16th and continued until about midday the 17th. Rainfall a         a. The result was numerous areas of ponding water causing some roads to nts due to the rainfall.         CST       1       0         d Woodson Terrace resident froze to death outside her home. She apparently n and was unable to get inside. The high temperature that day was 30 and the         RTED.         RTED.         CST       0         QCST       0         I down by the public.         CST       0         CST       0         I down by the public.         CST       0         CST       0         I down by the public.         CST       0         CST       0         I down by the public.         CST       0         CST       0         I down by the public.         CST       0       1K         ver lines reported down by the public.         De Girardeau - Wayne - Carter - Ripley - Butler - Stoddard - Sco         CST       0       180K

		Time	Path	Path	Numbe	r of	Estimated		D
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person	15	Damage Property Crops	Character of Storm	December 200
		Standard	(miles)	(Turus)	Trined	injured 1	rioperty crops	Character of Storm	
MISSOURI, Southea		, Perry, and Ca	ne Girardeau	Counties					
MOZ109	Butle	•	pe onuideau	countres.					
WIOZ109	Бице 17	of 0400CST			0	0		Flood	
	18	1000CST		1 10 0	1 1 1				
							a Christmas light	Bluff. This resulted in display.	n minor flooding o
MOZ100	Wayr		1	01	1		U	1 2	
	17	0800CST			0	0		Flood	
	18 The St	1100CST	amaginal at 10	Q 4 feat at D	attancan an Da	oombor 17	Eland store the	in in 16 fact. This manual	ad in minor floodin
		comland and lov			atterson on De	cember 1/	. Flood stage the	e is 16 feet. This result	ed in minor floodin
MISSOURI, Southwe	est								
MOZ095>098-101>10		stian - Dougl	as - Howell	- Shannon	- Mcdonald	l - Barry	- Stone - Tane	y - Ozark - Oregon	
	16	1000CST			0	0	0	Flood	
	17 Low p	1200CST pressure develo	ped early Su	unday mornin	ig across the	southern r	plains which pull	ed copious amounts of	moisture northwar
	across	the lower Miss	sissippi Valle	y area. As di	sturbances mo	ved northe	east across a front	al boundary moving eas	st across the plains,
								n Missouri and northern mostly across north ce	
		•		1	1 2		0	e to two inches of rair	
		on to Rolla line	E ouliri nomo		, <b>,</b>		daeed loedily of	e to the menes of fun	
					reeks rising an	d flooded	low water crossin	ngs began over south ce	ntral Missouri by 1
		ith Highway J	near Kirbyvi	ille closed du	reeks rising an e to the flood	d flooded ed Trigger	low water crossin r Creek. By 3 pm	ngs began over south ce , Highway T east south	ntral Missouri by 1 n of Gainesville wa
	closed precipi	ith Highway J and several lo itation fell over	near Kirbyvi cations in Do southern Mi	ille closed du ouglas Count ssouri by late	reeks rising an e to the flood y had roads cl in the afterno	d flooded ed Trigger osed due on and ear	low water crossin r Creek. By 3 pm to flooded low w ly Monday morni	ngs began over south ce , Highway T east south ater crossings. The second ng. It produced another	ntral Missouri by 1 n of Gainesville wa ond wave of heavie one to two inches of
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MTZ009>010 MTZ048 MTZ048>049 MTZ009>010	closed precipi rainfal which Monda ranged areas a North 01 Report (Easter South 01 Sustain South 02 Report Teton North 08 Report 10 (Ea time.	ith Highway J and several lo itation fell over l over the alre- produced floor ay morning with from nearly 4 along and south <b>n Rocky Mou</b> <b>1500MST</b> ted at Brownin, rn Glacier Count <b>nern Rocky M</b> <b>1700MST</b> ned wind speed <b>nern Rocky Mou</b> <b>0820MST</b> ted by spotter a County))61 k <b>n Rocky Mou</b> <b>0456MST</b> ted by Brownin istern Glacier C	near Kirbyvi cations in Do southern Mi ady saturated ded low wate th some resid to 5 inches i of Interstate <b>intain Fror</b> g HANDAR nty) in Glacie <b>Mountain F</b> l of 35 kt (est <b>Mountain F</b> at Choteau Ci at gust (measu <b>intain Fror</b> ag HANDAR County))55 [	ille closed du ouglas Count ssouri by late l grounds aro er crossings a lual runoff fre in portions of 44. <b>nt - Eastern</b> automated re er County). <b>`ront</b> imated) repor <b>`ront - East</b> ity Airport (a ured) also occ <b>nt - Eastern</b> automated of kt gust (meas	reeks rising ar e to the flood y had roads cl in the afterno und the area. cross McDona om the persist south central <b>Glacier</b> 0 porting site (a 0 ted as well by <b>ern Teton</b> 0 long the borde urred at same <b>Glacier</b> 0 serving site (a	d flooded ed Trigger osed due on and ear Southwess ild and Ba ent rainfal Missouri t 0 long borde 0 spotter in 0 er between location at 0 long the b	low water crossin r Creek. By 3 pm to flooded low w ly Monday morni t Missouri startee arry Counties of s 1 that lasted near to one to three ind er between zones Blackleaf (actual a zones 48 (South t 0930 MST.	ngs began over south ce and the second second second second second high way T east south ater crossings. The second ng. It produced another to receive more rainfa outhwest Missouri. The y 36 hours straight. Twe second second second second high Wind (G54) 9 (Northern Rocky Moond High Wind (G56) ern Rocky Mountain Fr High Wind (G61) nes 9 (Northern Rocky	ntral Missouri by 10 n of Gainesville wa ond wave of heavie one to two inches o all from this system e rainfall tapered of yo day rainfall total thwest Missouri and M untain Front) and 10 roy 7 W). M ont) and 49 (Eastern M
MTZ009>010 MTZ048 MTZ048>049	closed precipi rainfal which Monda ranged areas a North 01 Report (Easter South 01 Sustain South 02 Report Teton North 08 Report 10 (Ea time.	ith Highway J and several lo itation fell over l over the alre- produced floor ay morning with from nearly 4 along and south <b>n Rocky Mou</b> <b>1500MST</b> ted at Browning rn Glacier Court <b>nern Rocky M</b> <b>1700MST</b> ned wind speed <b>nern Rocky M</b> <b>0820MST</b> ted by spotter a County))61 k <b>n Rocky Mou</b> <b>0456MST</b> ted by Brownin	near Kirbyvi cations in Do southern Mi ady saturated ded low wate th some resid to 5 inches i of Interstate <b>intain Fror</b> g HANDAR nty) in Glacie <b>Mountain F</b> l of 35 kt (est <b>Mountain F</b> at Choteau Ci at gust (measu <b>intain Fror</b> ag HANDAR County))55 [	ille closed du ouglas Count ssouri by late l grounds aro er crossings a fual runoff fre in portions of 44. <b>nt - Eastern</b> automated re er County). <b>`ront</b> imated) repor <b>`ront - East</b> ity Airport (a ured) also occ <b>nt - Eastern</b> automated of kt gust (meas	reeks rising ar e to the flood y had roads cl in the afterno und the area. cross McDona om the persist south central <b>Glacier</b> 0 porting site (a 0 ted as well by <b>ern Teton</b> 0 long the borde urred at same <b>Glacier</b> 0 serving site (a	d flooded ed Trigger osed due on and ear Southwess ild and Ba ent rainfal Missouri t 0 long borde 0 spotter in 0 er between location at 0 long the b	low water crossin r Creek. By 3 pm to flooded low w ly Monday morni t Missouri startee arry Counties of s 1 that lasted near to one to three ind er between zones Blackleaf (actual a zones 48 (South t 0930 MST.	ngs began over south ce and the second second second second second high way T east south ater crossings. The second ng. It produced another to receive more rainfa outhwest Missouri. The y 36 hours straight. Twe second second second second high Wind (G54) 9 (Northern Rocky Moond High Wind (G56) ern Rocky Mountain Fr High Wind (G61) nes 9 (Northern Rocky	ntral Missouri by 10 n of Gainesville wa ond wave of heavie one to two inches o all from this system e rainfall tapered of vo day rainfall total thwest Missouri and M untain Front) and 10 roy 7 W). M ont) and 49 (Easter M Mountain Front) ancier county) at sam
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MTZ009>010 MTZ048 MTZ048>049 MTZ009>010	closed precipir rainfal which Monda ranged areas a North 01 Report (Easter South 01 Sustain South 02 Report Teton North 08 Report 10 (Easter South 02 Report Teton North 08 Sustain South 08 Sustain South 08 Sustain South 08 Sustain	ith Highway J and several lo itation fell over l over the alre- produced floor ay morning with from nearly 4 along and south <b>n Rocky Mou</b> <b>1500MST</b> ted at Browning rn Glacier Count <b>nern Rocky M</b> <b>1700MST</b> ned wind speed <b>nern Rocky Mou</b> <b>0820MST</b> ted by spotter a County))61 k <b>n Rocky Mou</b> <b>0456MST</b> ted by Brownin istern Glacier C <b>nern Rocky Mou</b> <b>0456MST</b>	near Kirbyvi cations in Do southern Mi ady saturated ded low wate th some resid to 5 inches i of Interstate <b>Intain Fror</b> g HANDAR nty) in Glacie <b>Mountain F</b> d of 35 kt (est: <b>Mountain F</b> at Choteau Ci at gust (measu <b>Intain Fror</b> ag HANDAR County))55 i <b>Mountain F</b>	ille closed du ouglas Count ssouri by late l grounds aro er crossings a lual runoff fre in portions of 44. <b>nt - Eastern</b> automated re er County). <b>Tront</b> imated) repor <b>Tront - East</b> ity Airport (a ured) also occ <b>nt - Eastern</b> automated ol kt gust (meas <b>Tront</b> easured) repor	reeks rising ar e to the flood y had roads cli- in the afterno- ound the area. cross McDona om the persist south central <b>Glacier</b> 0 porting site (a 0 ted as well by <b>ern Teton</b> 0 long the borde urred at same <b>Glacier</b> 0 serving site (a 0 boserving site (a 0 0 coserving site (a 0 0 coserving site (a 0 coserving site (a coserving site (a coserv	d flooded ed Trigger osed due on and ear Southwess Ild and Ba ent rainfal Missouri f 0 long borde 0 spotter in 0 er between location at 0 long the b ported by C	low water crossin r Creek. By 3 pm to flooded low w ly Monday morni t Missouri startee arry Counties of s l that lasted near to one to three ind er between zones Blackleaf (actual zones 48 (South t 0930 MST.	ngs began over south ce and the second second second second second second high way T east south ater crossings. The second ng. It produced another to receive more rainfa southwest Missouri. The y 36 hours straight. Twe hes across extreme south High Wind (G54) 9 (Northern Rocky Mon High Wind (G56) ern Rocky Mountain Fr High Wind (G61) nes 9 (Northern Rocky in a zone 10 - Eastern Glau High Wind (G51)	ntral Missouri by 1 n of Gainesville wa ond wave of heavid one to two inches of all from this system e rainfall tapered o vo day rainfall tota thwest Missouri an M untain Front) and 1 roy 7 W). M ont) and 49 (Easter M Mountain Front) an cier County) at sam
MTZ009>010 MTZ048 MTZ048>049 MTZ009>010 MTZ048	closed precipir rainfal which Monda ranged areas a North 01 Report (Easter South 01 Sustain South 02 Report Teton North 08 Report 10 (Ea time. South 08 Sustain 8 Sustain 08	ith Highway J and several lo itation fell over l over the alre- produced floor ay morning with from nearly 4 along and south <b>n Rocky Mou</b> <b>1500MST</b> ted at Brownin, rn Glacier Cour <b>hern Rocky M</b> <b>1700MST</b> ned wind speed <b>hern Rocky Mou</b> <b>0820MST</b> ted by spotter a County))61 k <b>n Rocky Mou</b> <b>0456MST</b> ted by Brownin istern Glacier C <b>hern Rocky Mou</b> <b>04559MST</b> ned wind speed	near Kirbyvi cations in Do southern Mi ady saturated ded low wate th some resid to 5 inches i of Interstate <b>Intain Fror</b> g HANDAR nty) in Glacie <b>Mountain F</b> d of 35 kt (est: <b>Mountain F</b> at Choteau Ci t gust (measu <b>Intain Fror</b> g HANDAR County))55 I <b>Mountain F</b>	ille closed du ouglas Count ssouri by late l grounds aro er crossings a lual runoff fre in portions of 44. <b>nt - Eastern</b> automated re er County). <b>Tront</b> imated) repor <b>Tront - East</b> ity Airport (a ured) also occ <b>nt - Eastern</b> automated ol kt gust (meas <b>Tront</b> easured) repor	reeks rising ar e to the flood y had roads cli- in the afterno- ound the area. cross McDona om the persist south central <b>Glacier</b> 0 porting site (a 0 ted as well by <b>ern Teton</b> 0 long the borde urred at same <b>Glacier</b> 0 serving site (a 0 boserving site (a 0 0 coserving site (a 0 0 coserving site (a 0 coserving site (a coserving site (a coserv	d flooded ed Trigger osed due on and ear Southwess Ild and Ba ent rainfal Missouri f 0 long borde 0 spotter in 0 er between location at 0 long the b ported by C	low water crossin r Creek. By 3 pm to flooded low w ly Monday morni t Missouri startee arry Counties of s l that lasted near to one to three ind er between zones Blackleaf (actual zones 48 (South t 0930 MST.	ngs began over south ce and the second second second second second second high way T east south ater crossings. The second ng. It produced another to receive more rainfa southwest Missouri. The y 36 hours straight. Twe hes across extreme south High Wind (G54) 9 (Northern Rocky Mon High Wind (G56) ern Rocky Mountain Fr High Wind (G61) nes 9 (Northern Rocky in a zone 10 - Eastern Glau High Wind (G51)	ntral Missouri by 1 n of Gainesville wa ond wave of heavie one to two inches o all from this system e rainfall tapered of vo day rainfall total thwest Missouri an M untain Front) and 1 roy 7 W). M ont) and 49 (Easter M Mountain Front) an cier County) at sam

		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage		December 200
Location	Date	Standard	(Miles)	(Yards)		Injured	Property Crops	Character of Storm	
<u>MONTANA, Central</u> MTZ048	12	nern Rocky M 2300MST ned wind speed			0 ted as well by	0 spotter	at Pendroy 18 W.	High Wind (G52)	)
MTZ009	13	n Rocky Mou 1000MST ted by WFO Gre			0 ician working	0 in Hear	t Butte.	High Wind (G52)	)
MTZ055		1700MST 2100MST						Heavy Snow	est Yellowstonebot
MTZ009-048	13 14 SNOT zones		mountain ot	oserving sites	0 reported wide	0 espread	0.50 liquid equivale	Winter Storm nt accumulations with n the evening of 12/13	
MTZ048	14	nern Rocky N 0445MST ted by spotter at			0	0		High Wind (G52)	)
MTZ046	14	ern Pondera 0500MST ted by spotter in	Dupuyer.		0	0		High Wind (G52)	)
MTZ009	14	n Rocky Mou 1000MST ted by spotter in		nt	0	0		High Wind (G52)	)
MTZ010	14	ern Glacier 1056MST ned wind speed	of 38 kt (me	easured) repor	0 rted as well by	<b>0</b> Cut Ba	ink ASOS.	High Wind (G49)	) М
MTZ044	<b>Toole</b> 14 Sustain Sweet	1115MST ned wind speed	d of 39 kt	(measured)	0 reported as v	0 vell by	Department of Tran	High Wind (G44)	
MTZ045	Liber 14 Repor	•ty 1240MST ted by spotter at	Tiber Dam	5 NW (actual	0 spotter location	0 on is Cł	nester 13 SW).	High Wind (G52)	)
MTZ009>010	15 Repor		g HANDAR	automated of	0 bservation sit			High Wind (G62) zones 9 (Northern Ro 0755 MST on 12/16/2	ocky Mountain Fron
MTZ045	Liber 16 Sustair	0530MST	of 35 kt (me	easured) repor	0 ted as well by	0 employ	vee of AgAir (a crop o	High Wind (G43) dusting business) in th	
MTZ010	16	ern Glacier 0956MST ned wind speed	of 42 kt (me	easured) repor	0 rted as well by	0 Cut Ba	nk ASOS.	High Wind (G48)	) М
MTZ012	Casca 16 Report	ade 1302MST ted by spotter at	Cascade 5 (	5	0	0		High Wind (G55)	) М

		Time	Path	Path		ber of	Estimated		December 2001
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per: Killed	sons Injured	Damage Property Crops	Character of Storm	
MONTANA, Central									
MTZ009>010	17	0900MST	<b>untain Fron</b> ng HANDAR a		0	0 (located a	long boundary betwee	High Wind (G51) en above zones in Gla	
MTZ046	17	rn Pondera 0900MST ated sustained	wind of 35 kt	reported as w	0 vell by spotte	0 er in Dupt	ıyer.	High Wind (G43)	)
MTZ009	17	0945MST	<b>untain Fron</b> at Babb 6 NE.		0	0		High Wind (G52)	)
MTZ010	17	ern Glacier 0956MST ted by Cut Bar	nk ASOS.		0	0		High Wind (G52)	м
MTZ048>049	17	1150MST ted by spotter	<b>Mountain F</b> at Choteau 2		0	0 een zones	48 (Southern Rocky	<b>High Wind (G57</b> ) 7 Mountain Front) ar	м id 49 (Eastern Teton
MTZ044	Toole 17 Report	1400MST	at Devon 11 S		0	0		High Wind (G52)	)
MTZ009	24	1155MST	<b>untain Fron</b> ng HANDAR a		0 serving site.	0		High Wind (G57)	М
MTZ052	Jeffer 28	0300MST 1500MST	l reported by	apottor in Ia	0	0	inches of snowfall r	Heavy Snow	ters elsewhere in the
	county		i iepoited by	sponer in je	merson City	2 10 5	licites of showfall fe	eponed by other spor	ters elsewhere in the
MTZ055	Galla 28 8 inch	0300MST 1400MST	reported by s	potter at Heb	<b>0</b> gen Dam6	<b>0</b>	f snowfall reported by	Heavy Snow	eman 5 W and at the
							fall reported by spott		
MTZ015	Madi 28	0300MST 1000MST			0	0		Heavy Snow	
							or Center in southeas spotters elsewhere ac		(6 inches of this fell
MONTANA, East									
	NONE	E REPORTED							
MONTANA, South MTZ028	Whea 13	atland 0343MST	nds at Livings	ton	0	0		High Wind (G54)	м
MTZ028	Whea 14	atland 1928MST	nds in Livings		0	0		High Wind (G53)	м
MTZ028	16	atland 0744MST h sustained wi	nds in Livings	ton	0	0		High Wind (G54)	М

		Time Local/	Path Length	Path Width		ber of sons	Estin Dam			December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
MONTANA, South										
MTZ028-028	Whea				0	0				м
	17	0353MST 0653MST			0	0			High Wind (G52)	142
	52 mpl	h sustained win	ds in Livings	ston						
MONTANA, West										
MTZ001>002-004	Koote 01	enai/Cabinet 0000MST 2345MST	Region - V	Vest Glacie	r Region - 0	Lower 0	Clark For	k Regior	1 Heavy Snow	
	Mount	storm hit nort	es at Garver (	Creek in Linc	oln County;	15 inches	at Flattop M		es at Hawkins Lake, 1 and 7 inches at Essex :	
MTZ004	Lowe	r Clark Fork	Region							
	02 04	1530MST 1530MST			0	0			Heavy Snow	
	Heavy		r Mineral Co	ounty with 2	2 inches rej	oorted fro	m Lookout	Pass Ski	Resort and 16 inches	s from Snotel site a
MTZ002-004-006-043	West	Glacier Regi	on - Lowe	r Clark Fo	rk Region	- Bitterı	oot / Sap	ohire Mo	untains - Blackfoo	ot Region
	06	1200MST			0	0			Heavy Snow	0
		1200MST storm brought 14 inches, North	•						e Creek 9 inches, Her	on 6 inches, Hoodoo
MTZ001>002-004-006- 043		enai/Cabinet kfoot Regior		Vest Glacie	r Region -	Lower	Clark For	k Regio	1 - Bitterroot / Saj	ophire Mountains
	12	1600MST			0	0			Heavy Snow	
	heavy mounta	snowfall to the	e region. Sn ne highest an	owfall range nounts in the	d from six	inches in	the valley	s of north	g gusty winds betwee west Montana to on ain, 26 inches at Hoo	e to two feet in the
MTZ001>002-004-006	Koote 15 17	enai/Cabinet 1600MST 1600MST	Region - V	Vest Glacie	r Region - 0	Lower 0	Clark For	k Regior	n - Bitterroot / Sap Heavy Snow	phire Mountains
	Heavy	snow fell for ty	vo days over	the mountain	ns of northw	est and we	est central N	Iontana. S	nowfall totals ranged	from one to two feet.
<u>NEBRASKA, Central</u>										
	NONE	REPORTED.								
NEBRASKA, East										
	NONE	REPORTED.								
NEBRASKA, Extreme										
	NONE	REPORTED.								
NEBRASKA, Extreme	Sout	hwest								

NONE REPORTED.

#### **NEBRASKA, South Central**

NONE REPORTED.

#### NEBRASKA, West

NONE REPORTED.

		Time Local/	Path Longth	Path Width	Numb		Estimated		December 2001
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	ons Injured	Damage Property Crops	Character of Storm	
NEVADA, North									
NVZ032>034-036>037			K E Elko -	Ruby Mo	untains/E	Humbo	ldt Range - N La	under & N Eureka	i - S Lander & S
	Eurek 02	2000PST			0	0		Heavy Snow	
	03 A wint	1000PST er storm dump	ed heavy sno	w across nor	theast Nevada	a Amor	unts include: 24 inch	es at the Lamoille Can	von snotel 10 inches
	at Sprin		Austin, 7 incl	hes at Emigra	ant Pass and a			nches in Pine Valley s	
NVZ031	N Elk 05	o Cnty 0900PST 2100PST			0	0		Heavy Snow	
		er storm broug						ain City highway betw d and 6 inches of new	
NVZ030-035		oldt - White	Pine						
	05	1100PST 1300PST			0	0		High Wind (G55)	М
		-	-		-	•	usts to 63 mph at the National Park.	Morey Creek RAWS	30 miles northwest of
NVZ031		o Cnty 2200PST			٥	0		Hearry Snow	
	13 14	2200PS1 1200PST			0	0		Heavy Snow	
	Wild H	lorse reported 9	inches of no	ew snow and	Tuscarora 8 i	nches.			
NVZ037		der & S Eur	eka		٥	0		H	
	22 23	2100PST 0800PST			0	0		Heavy Snow	
	Eight i	nches of new s	now was rep	orted in Aust	in.				
NEVADA, South				~ -					
NVZ015	Linco 03	In County E 1350PST	xcept The	Sheep Ran	ge 0	0		Heavy Snow	
	04	0715PST						·	
		•		-		nches of	new snow in a 10 ho	our period throughout t	he town of Pioche.
NVZ015	Linco 23	In County E 0655PST	xcept The	Sheep Ran	ge 0	0	10K	Winter Storm	
			ell in and arc	ound the town				ollovers. No injuries we	ere reported.
NEVADA, West									
NVZ003	Great	er Reno/Car	son City/N	linden Are	a				
	01 Off dut	<b>0945PST</b> ty NWS emplo	vee reported	winds oustin	<b>0</b> 0 40-60 mph	0 in the Re	0 od Rock area	High Wind (G52)	м
NVZ002-002		er Lake Tah		winds gustin	5 40 00 mpn	in the rec	di Rock area.		
IN V 2002-002	01	1445PST	oe Area		0	0	0	Heavy Snow	
	02 Several	1445PST	www.enow.in	Incline Viller	a One reno	ted 12 in	nches in 12 hours at	7623 feet and another	reported 30 inches in
		rs at 7600 feet.		incine vinag	e. One repor		itelies in 12 hours at	7023 feet and another	reported 50 menes m
NVZ003	Great	er Reno/Car	son City/N	linden Are	a				
	02	0600PST 1800PST			0	0	0	Heavy Snow	
	Off dut	y NWS employ	yee reported	6 inches of s	now in 12 ho	urs at 450	00 feet.		
NVZ003	Great	er Reno/Car	son City/N	linden Are	a				
	02	0800PST 2000PST			0	0	0	Heavy Snow	
	Spotter	report of 8-9 i	nches of sno	w in 12 hours	s at 4500 feet				
NVZ003	Great	er Reno/Car	son City/N	linden Are	a				
	02	0900PST 2100PST	-		0	0	0	Heavy Snow	
	Off due	y NWS employ	vee reported	4.5 inches of	enow in 12 k	ours of /	1500 feet		

		Time Local/	Path Length	Path Width	Numl Pers	ber of	Estimated Damage		December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
NEVADA, West									
NVZ003	02 03	1200PST 0700PST	-	<b>Ainden Area</b> ted 5.3 inches o	0	0 19 hours	<b>0</b> at 4900 feet.	Heavy Snow	
NVZ003	Great 02 03	ter Reno/Ca 2015PST 0815PST	rson City/N	<b>/linden Area</b> w in 12 hours a	0	0	0	Heavy Snow	
NVZ003	Great 05	ter Reno/Ca 1145PST	rson City/N	<b>/linden Area</b>	0	0	0	High Wind (G56)	М
NVZ003-003	05	1202PST 1220PST	-	Ainden Area	0	0	0	High Wind (G65)	
				gusting betwee				e recorded a wind gust	of 62 mph in South
NVZ003	08	2105PST	-	<b>Iinden Area</b> mph in Gardne	0	0	0	High Wind (G51)	М
NVZ002	13 14	ter Lake Tal 1700PST 0500PST Iblic in Incline		rted over 12 inc	<b>0</b> thes of snow	<b>0</b> w in 12 h	0 ours at 7600 feet.	Heavy Snow	
NVZ003	Great 13	ter Reno/Ca 2210PST	rson City/N	<b>/linden Area</b> ed a wind gust	0	0	0	High Wind (G56)	М
NVZ003	15	0030PST	-	<b>Ainden Area</b> ated sensor in S	0	0 ded a win	<b>0</b> nd gust of 62.7 mph.	High Wind (G55)	М
NVZ002	22	ter Lake Tal 0708PST 2308PST ter in Incline V		ed 14 inches of	0 snow in 16	0 5 hours at	<b>0</b> 7600 feet	Heavy Snow	
<u>NEW HAMPSHIRE, 1</u> NHZ001>010-013>014	North North - Sulli 01 31 Decem to 3.38 Winnij down month at Mou	and Centr tern Coos - ivan - Merri 0000EST 2359EST ber was anoth ber was anoth ber was another ber w	al Southern C imack - Bel imack - Bel conia. The Pa 63 percent be r plants on th with two of r n, 17.90 inch	<b>Coos - Northe</b> <b>knap - Straff</b> un unending str lmer Drought S elow normal ar e Winnipesauk these reaching es below norm	ern Graft ford - Int 0 ing of drien Severity Ind ad outflow tee River. all time red al at Pinkh	on - No erior Re 0 r than nor dex was i from La Eleven g cord low am Notc	rthern Carroll - Se ockingham - Coast rmal months. Precipit in the moderate droug keport Dam was redu ground water monitori levels. Precipitation fo h, 15.24 inches below	authern Grafton - cal Rockingham Drought tation ranged from 1.3 ht category at the end uced to 30 cubic feet p ing wells reached new or the year was 29.98 or normal at Tamworth, mal at Colebrook, and	3 inches at Milan up of the month. Lake ber second; this shut record lows for the inches below normal 15.13 inches below
NHZ005>010-013>014	normal South Coast 08 09 Low p	at Bethlehem ern Grafton al Rockingh 2300EST 1100EST ressure movin	n - Souther nam	n Carroll - 3	Sullivan 0	- Merri 0	mack - Belknap -	Strafford - Interio Moderate Snowfa Mid-Atlantic coast of	or Rockingham - II

		Time	Path	Path	Number		Estimated		December 200		
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed Ir	s ijured	Damage Property Crops	Character of Storm			
NEW HAMPSHIRE, 1	North	and Centra	al								
NHZ001>002-004		hern Coos - S		Coos - North	ern Carroll						
	14	2100EST			0	0		Moderate Snowf	all		
							ember 14th to south	of Nova Scotia by th I mainly rain.	e morning of the 15t		
NHZ001>002-005>010	Nortl Straf		Southern	Coos - Sout	thern Grafto	on - So	uthern Carroll -	Sullivan - Merri	imack - Belknap		
	17 18	1100EST 1400EST			0	0		Moderate Snowf	all		
NHZ003>004		hern Grafton	- Northe	rn Carroll							
	17	1100EST			0	0		Heavy Snow			
	18 Low r	1400EST pressure moved	from the M	lississippi Vall	ey on the morn	ing of I	December 17th to ne	ar Long Island, New	York by the mornin		
	Low pressure moved from the Mississippi Valley on the morning of December 17th to near Long Island, New York by the morning of the 18th and then out to sea. The storm brought from 2 to 5 inches of snow across Coos County with 4 to 8 inches of snow a northern Grafton and northern Carroll Counties. Farther south, the snow mixed with or changed to freezing rain and rain ar										
							snow mixed with ast to 2 to 5 inches in		ing rain and rain an		
NHZ001>010-013	Nort	hern Coos - S	outhern	Coos - North	iern Grafton	- Nort	hern Carroll - So	outhern Grafton -	- Southern Carro		
	- Sull	livan - Merrii				ior Roc					
	24	0000EST 1600EST			0	0		Freezing Rain			
		A deep low pressure system over the Great Lakes on the 23rd weakened on the 24th as a secondary low developed off the Mid-Atlantic Coast on the 24th. The combination of the two systems brought warmer air northward across much of the area									
	Freezi		ed over the	e area early in	the morning or	-	-	r air northward acro			
NEW HAMPSHIRE,	South	ern		-							
NHZ011>012		hire - Hillsbo	rough								
	08 09	2300EST 0900EST			0	0		Heavy Snow			
	The se	eason's first win		-			ost of Cheshire and bact was reported.	Hillsborough Coun	ties. Since the storr		
NEW JERSEY, North	east										
NJZ002>006-011		ern Passaic -	Bergen -	Eastern Pas	saic - Essex -		on - Union	Duran ali t			
	01 31	0000EST 2359EST			0	0		Drought			
	Dry mild weather continued for the third consecutive month across the region. The total average rainfall for December was 2.3 inches or 58 percent of normal. The total average rainfall from October through December was 4.39 inches, which was a deficit 7.50 inches. Rainfall was below average for the last six consecutive months, which yielded an average deficit of 10.36 inches.										
	The combined storage in the 13 major water supply reservoirs serving northeast New Jersey was 47.4 percent capacity, which was 3 percent below normal. Current levels stopped declining, comparable to the 1998-1999 drought levels. Capacities in the individual systems at the end of the month were:										
	Newa	rk Reservoirs		44.2% (perce	nt capacity)						
	•	City Reservoirs	s	53.1% 44.5%							
		Jersey District d Water of New	Jersey	44.3% 53.6%							
		nflows in New 1s was 32.8 perc	•		ormal at USGS	index	stations. The averag	ge monthly mean dis	scharge at these inde		
	Groun	dwater levels in	n New Jerse	ey, as measured	in water table	observat	tion wells, were belo	w normal at all three	USGS index wells.		
	Union Delaw	Counties durin vare Watershed	g Decembe . Under	er. On Decemb this emergene	per 18th, the Decy declaration,	the co	River Basin Commis	ch for Passaic, Berge ssion declared a drou ll for releases from	ght emergency for th		

privately-owned reservoirs to bolster flows in the Delaware River and tributary streams.

5		III Data		nusu		cau			Unicita	
Location	Date	Time Local/ Standard	Length W	ath Vidth Yards)	Numbe Perso Killed		Estimate Damag Property		Character of Storm	December 2001
			(miles) (	rurus)	Tunica	injurea	Tiopenty	crops	character of Storm	
NEW JERSEY, South NJZ001-007>010-			Morris Un	ntardan (	Somoreo	• Mid	dlagay W	ostown	Monmouth For	stern Monmouth -
012>026										Vestern Atlantic -
		ern Cape May				-				
	01 31	0000EST 2359EST			0	0	0		Drought	
	Unseasonably dry weather continued across New Jersey during the month of December. While more precipitation fell duri December than either October or November, it was still drier than normal. On a county weighted average, monthly precipitation totals ranged from 1.6 inches in Cape May County to 2.5 inches in Sussex County. Normal is around 3.7 inches. The continued d weather, the drop in stream flow and groundwater levels and the reduced levels in the New York State reservoirs prompted the New Jersey State Department of Environmental Protection to upgrade the drought warning included all or part of the following counties: Atlant Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex and Warren. T drought warning gives the state Department of Environmental Protection (DEP) greater authority to control water distribution at transfers among the major reservoir systems and to temporarily modify water allocation permits. Individual municipalities can also s their own restrictions. The DEP asked residents to use good water conservation practices but there were no mandatary restriction unless required by an individual township.									
	The Delaware River Basin Commission, which oversees water supply throughout the Delaware River Basin declared a "drought" or December 3rd when the supply of water in the New York City reservoir system dropped below a designated level for early December This triggered additional reductions in the amount of water released from the reservoirs into the Delaware River and the amound diverted out of the Delaware River Basin to New York City and New Jersey. Diversions to New York City dropped from 800 millior gallons a day to 520 million gallons a day. Diversions to northern New Jersey through the Delaware and Raritan Canal was reduced to 65 million gallons a day from 100 million gallons a day. As precipitation continued to be below normal, the New York City reservoirs failed to rise and were about 50 percent below normal for December. They were at their lowest level since the last of the three reservoirs went on line in 1967. The Delaware River Basin Commission declared a drought emergency on December 18th. The emergency declaration gave the commission the power to restrict the amount of water suppliers could draw from the basin. It gave the commission the authority to take water from municipal reservoirs to maintain river levels. It could also call for water releases from federal, state and privately owned reservoirs. Water from Lake Nockamixon, the F.E. Walter Reservoir and Lake Wallenpaupach could be used to maintain river levels. All of these bodies of water are in Pennsylvania. They were last used for this purpose in the 1960s. The releases help protect the riverbank and aquatic life and also prevents salt water from flowing up the Delaware River. Salt water intrusion causes corrosion problems for industries and increases water treatment costs for municipalities that depend on the river for their water supply. Maintaining river levels are also important for groundwater reserves that are recharged by the river itself especially in southern New Jersey. The salt front along the Delaware River was approximately 11 m									el for early December. River and the amount oped from 800 million an Canal was reduced I, the New York City el since the last of the n December 18th. The n the basin. It gave the or water releases from Lake Wallenpaupack for this purpose in the o Delaware River. Salt es that depend on the ged by the river itself, ther upstream than it hat utilities and other
	Signs of the drought were apparent across the state. On December 3rd, 20 percent of all streams were at record low flow for the calendar day. Another 40 percent were threatening record lows. As of December 5th, that number increased to 25 percent. Water was being released from the Round Valley Reservoir to meet mandatory flow requirements for the Raritan River. In Sussex County, both Hopatcong and Sussex Boroughs restricted water use. Wells in Morris County were below normal and the flow along the Rockaway River (on the 30th) was one fifth of normal.									25 percent. Water was a Sussex County, both
	During 2001, precipitation was well below average. The preliminary statewide average precipitation total of 35.84 inches was th fourth driest year on record and the driest year since 1965. Normal is 47.19 inches. On a county weighted average, yearly precipitation totals ranged from 31.3 inches in Cumberland County to 39.6 inches in Hunterdon County. The deficiencies ranged from 8.4 inches in Gloucester County to 13.5 inches in Morris County. Most of the deficit came in the second half of the year. Th yearly precipitation total of 30.02 inches at the Atlantic City International Airport was 10.27 inches below normal and the third dries year on record.									
NJZ001-001-007- 007>008-008>009- 009>010-010-012- 012>013-013>014- 014>015-015>016- 016>017-017>018- 018>019-019>020- 020>021-021>022- 022>023-023>024- 024>025-025>026-026	Merc		Gloucester -	Camden -	Burling	gton - V	Vestern O	cean -		stern Monmouth - Vestern Atlantic -
027F 020F020F 020F020	01 06	0900EST 1800EST			0	0	0	0	Unseasonably W	arm

		Time Local/	Path Length	Path Width	Numl Pers		Estim Dama		December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
<u>NEW JERSEY, Sou</u>	A stro record were s 7th br degree Atlant (Hunta Iselin Count	ng ridge of hig breaking warr et on the 1st, 5 ought readings es in Trenton ( ic City Interna erdon County), (Middlesex Co	h weather fro th and 6th in closer to se Mercer Coun tional Airpon and Mount H punty), 70 de umberland C	m November many locatio asonal levels ty), New Bru t and Freeho lolly (Burling egrees at the ounty) and M	30th throug ns with high . The warm inswick (Mi old (Monmo ton County). Marina with arcella (Mor	h Decemi temperat est day f ddlesex ( uth Cour 71 degre hin Atlan	ber 6th in No ures reachin, or most area County), and hty), 72 deg ses in Chatha ttic City, So	ew Jersey g into the as was th l Belle M rees in So am (Morri omerdale (	e United States brought unseasonably and . Daily record breaking high temperatures 60s and 70s. A cold frontal passage on the e 5th. Highest temperatures included 74 ead (Somerset County), 73 degrees at the omerville (Somerset County), Flemington s County), Walpack (Sussex County), and (Camden County), Hackettstown (Warren h temperature in Walpack (Sussex County)
NJZ001-007>008		ex - Warren	- Morris		0	<u>^</u>		0	
	develo genera snow Cod th it char area d the 8th condit Wanta	pped on the fro ully an inch or l of the season. The memoring of the aged over to sn uring the evening. A mixture of ions on snow of	ntal boundary ess in Morris The weak low he 9th. Precip ow across mung of the 8th. f light rain, lig covered roads unty), 3 inches	y, precipitatio and Warren y pressure sys- bitation begar uch of Warren Over the hig ght freezing r caused accides in Highland	n fell as a w Counties and stem traveled in mainly as 1 in, Sussex and her terrain o ain and snow lents. Accun d Lakes (Sus	vintry mill between from the ght rain d western f Sussex fell over nulations sex Cour	x over north 1 and 4 inc e Tennessee during the ea 1 Morris Cou County, the rnight and er included 4 in try), 1.5 inch	western N thes in Sus Valley th arly aftern inties. The snow chan inded by 6 inches in D thes in Spa	Wintry Mix air so that when a wave of low pressure lew Jersey. Snowfall accumulations were ssex County. This was the first measurable e morning of the 8th to just south of Cape ioon on the 8th. As the intensity increased, e snow changed to rain across much of the nged to freezing rain during the evening of a.m. EST the morning of the 9th. Slippery High Point (Sussex County), 3.5 inches in rta (Sussex County), 1.4 inches in Newton vn.
NJZ001	Susse	ex							
	freezin near th rain. V	ng rain mainly he surface whi	during the m le the warm tion amounts	orning of the front brought were light, g	17th in Suss in warmer generally les	ex Coun air (abov s than on	ty. The high e freezing to the tenth of a	pressure emperature n inch, u	Freezing Rain outhwest combined to produce some light system provided subfreezing temperatures es) aloft. The combination led to freezing intreated roads were slippery. The slippery
NJZ024	18	ern Cape Ma 0844EST of showers pre	•	front produc	0 ed wind gus	<b>0</b> s of 60 n	nph in Cape	0 May, Nev	<b>High Wind (G52)</b> <sup>M</sup> v Jersey.
NJZ001-007>010- 012>026	Merc West 31 Decen surpas norma degree tempe	er - Salem cape Ma 2359EST aber 2001 was sed December 1 is 35.4 degree above norm	- Glouceste ay - Eastern the warmest 1923 (state n es. At the A al) was the degrees (7.2	er - Camde Cape May December on nean tempera tlantic City I second warn degrees abo	en - Burlin y - Eastern 0 n record in N ture of 41.0 nternational nest Decemb ve normal)	<b>Atlant</b> <b>O</b> New Jerse degrees) Airport, per on re was also	Western 0 ic - Eastern 0 ey. The prel- as the warm the Decemb cord. At th the second	Ocean - n Ocean 0 iminary n est Decen ber month e Marina	Monmouth - Eastern Monmouth - Cumberland - Western Atlantic - Unseasonably Warm nonthly mean temperature of 41.5 degrees nber on record for the state. The statewide ly mean temperature of 43.0 degrees (7.2 within Atlantic city, the monthly mean December on record. The monthly mean
NEW MEXICO, Ce						-			
NMZ008-014	11				0	0	C	the areas	Winter Storm above 7500 feet across west central New
NMZ002-009-017		hwest Mour ntains	itains Incl	uding Jem	ez - Mid	dle Ri	o Grande	Valley	- Capitan/Northern Sacramento
	21	1400MST 1700MST			0	0	10K		High Wind (G45)
									orthwest to southeast across the state. One n gusts over 50 mph.

Location Date Sandard Other Crist Lange Versite Versit	Time	Path Longth	Path	Number		Estimated	Decer	nber 200
NZ202       Southwest Mountains/Lower Gila Region         12       0 200MST       0       Heavy Snow         Rev Mexico Highway Department reported 6 to 12 inches of snow had accumulated in the higher elevations of Grant Count (mainly north and east of Silver City). NM Highways 15 and 152 were closed for several hours.         XEW MEXICO. Southeast       NONE REPORTED.         NEW YORK, Central       Recome - Delaware - Sullivan         NVZ056-087-002       Broome - Delaware - Sullivan         0       0       Heavy Snow         20       000EST       0       Heavy Snow         30       0700EST       0       Heavy Snow         20       0700EST       0       Heavy Snow         20       0700EST       0       Heavy Snow         20       0700EST       0       Heavy Snow		-				-	Character of Storm	
i2     0     0     Heavy Snow       Regeonstr     0     0     Heavy Snow       The New Mexico Highway Department reported 6 to 12 inches of snow had accumulated in the higher elevations of Grant Court (mainly north and east of Silver City). NM Highways 15 and 152 were closed for several hours.     State Sta	Central and So	outhwest						
Use Weitscie Highway Department reported 6 to 12 inches of snow hul accumulated in the higher elevations of Grant Court (mainly north and east of Silver City). NM Highways 15 and 152 were closed for several hours.         SEW MEXICO. Southeast         NONE REPORTED.         WEW YORK, Central         Roome - Delaware - Sullivan         NONE REPORTED.         WEW YORK, Central         Beroome - Delaware - Sullivan         Not Report - Delaware - Sullivan         Jest colspan="2">Roome - Delaware - Sullivan         Not Report - Delaware - Sullivan         Jest colspan="2">Image: Support - Delaware - Sullivan         Jest colspan="2">Image: Support - Delaware - Sullivan         Jest colspan="2">Image: Support - Delaware - Sullivan         Northern Onecida         2         Jour Colspan= 0         Heavy snow spread north ahed of a low pressure area. The storm moved from West Virginia the afteriori of the rhy and moring of the 30 and moring of the 30 and the sourb hate         Northern Onecida         A west to est band of heavy lak	Southwest Moun		r Gila Regio		0		н	
(mainly north and easi of Šilver City). NM Highways 15 and 152 were closed for several hours.				U	U		Heavy Snow	
VEW MEXICO. Southeast         NORE REPORTED.         YZ056>-057-062       Broome - Delaware - Sullivan 0       0       Heavy Snow 09       Q00EST       0       Heavy Snow 09       Lincless Boonville during the event. The cooperative observer in Boonville propend 12.2 incless. Snowfall rates were up to 3 incles an ho The event ended when the snow band moved back north out of the county.       NYZ009       Northern Onedia 2359EST       0       0       Heavy Snow 2359EST       D       0       Heavy Snow         ZV200720721       Orage - Purtnam - Rockland - Northern Westchester - Southern Westchester Florence. The event ended when a cold from pushed souh late morning on the first.       Tor		• • •	-				-	rant Coun
VEV VORK. Central       Broome - Delaware - Sullivan         09       1400EST       0       Heavy Snow         09       0200EST       0       0       Heavy Snow         Prevy snow spread north ahead of a low pressure area. The storm moved from West Virginia the afternoon of the 8th to the N leresy coast early on the 9th. This was the first significant event of the season. Snowfall amounts were in the 4 to 7 inch range.         NYZ009       Northern Onedia       0       0       Heavy Snow         23       1900EST       0       0       Heavy Snow         A west to east band of heavy lake effect snow off of Lake Ontario droped south into extreme northern Oneida County sheriff's office reported 12.2 inches. Snowfall rates were up to 3 inches an hor The event ended when the snow band moved back north out of the county.         NYZ009       Northern Onedia       0       16avy Snow         31       2200EST       0       16avy Snow         2359EST       0       0       Heavy Snow         324       200EST       0       16avy Snow         2359EST       0       0       Heavy Snow         2459       200EST       0       0       Deavy Snow         2359EST       0       0       Deavy Snow       Deavy Snow         2450       2359EST       0       0       Drou			, .	5				
NYZ056>057-062       Broome - Delaware - Sullivan         98       1400EST       0       Heavy Snow         99       020EST       0       0       Heavy Snow         NYZ009       Northern Onedia       12       1000EST       0       Heavy Snow         23       1000EST       0       0       Heavy Snow         30       0700EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         33       2200EST       0       0       Heavy Snow         34       2200EST       0       0       Heavy Snow         2350EST       0       0       Heavy Snow       105 inches an hor         34       2200EST       0       0       Heavy Snow       105 inches an hor         350EST       0       0       Decomption to the onthile control and connot show formoned south late on the 31st into extreme northerm Oneida Count Sno	NONE REPORTED	<i>.</i>						
NYZ056>057-062       Broome - Delaware - Sullivan         98       1400EST       0       Heavy Snow         99       020EST       0       0       Heavy Snow         NYZ009       Northern Onedia       12       1000EST       0       Heavy Snow         23       1000EST       0       0       Heavy Snow         30       0700EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         33       2200EST       0       0       Heavy Snow         34       2200EST       0       0       Heavy Snow         2350EST       0       0       Heavy Snow       105 inches an hor         34       2200EST       0       0       Heavy Snow       105 inches an hor         350EST       0       0       Decomption to the onthile control and connot show formoned south late on the 31st into extreme northerm Oneida Count Sno								
05       0200EST         Heavy snow spread north ahead of a low pressure area. The storm moved from West Virginia the afternoon of the 8th to the N Jersey coast early on the 9th. This was the first significant event of the season. Snowfall amounts were in the 4 to 7 inch range.         NYZ009       Northern Onedia       0       Heavy Snow         30       0700EST       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         32       2200EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         32       2200EST       0       0       Heavy Snow         32359EST       0       0       Heavy Snow       2359EST         31       2200EST       0       Doupopt 51       Doup		ıre - Sulliva	ın					
Jersey coast early on the 9th. This was the first significant event of the season. Snowfall amounts were in the 4 to 7 inch range.         NYZ009       Northern Onedia         29       1900EST       0       Heavy Snow         30       0700EST       0       Heavy Snow         Stoppender       A west to east band of heavy lake effect snow off of Lake Ontario dropped south into extreme northern Oneida County during tevening of the 20th and morning of the 30th. The Oneida County sheriff's office reported 5 to 9 inches in Plorence and 12 inches Boonville during the event. The cooperative observer in Boonville reported 12.2 inches. Snowfall rates were up to 3 inches an ho The event ended when the snow band moved back north out of the county.         NYZ009       Northern Onedia       1       2200EST       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         2359EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         33       3200EST       0       0       Decompt 43 to 9 inches and 0 reported 12.2 inches while the County Sheriff reported 6 inches Florence. The event ended when a cold front pushed south late morning on the first.         VEW YORK, Coastal       NyZ067>071       Orange - Putnam - Rockland - Northern Westchester - Southern Westchester       Southern Oneida         31       2359EST       0       0       Drou	••			0	0		Heavy Snow	
NYZ009       Northern Onedia       0       Heavy Snow         30       0700EST       0       0       Heavy Snow         31       2200EST       0       0       Heavy Snow         NYZ009       Northern Onedia       0       0       Heavy Snow         2359EST       0       0       Heavy Snow       2359EST         A west to east lake effect band of heavy snow off of Lake Ontario moved south late on the 31st into extreme northern Oneida Count show totals for the entire event were 10.5 inches in Boonville by the cooperative observer in Bonoville a snow spotter. Slightly further south a snow spotter in Point Rock reported 5 inches while the County Sheriff reported 6 inches Florence. The event ended when a cold front pushed south late morning on the first.         VEW YORK, Coastal       Orange - Putnam - Rockland - Northern Westchester - Southern Westchester         1       00000ST       0       Drought         31       239EST       0       0       Drought         31       239EST       0       0       Drought         31       239EPST       0       0       Drought	Heavy snow spread		-				-	
29       1900EST       0       Heavy Snow         30       0700EST       0       0       Heavy Snow         Boowlide during the event. The cooperative observer in Boonville crimits office reported 8 to 9 inches in Florence and 12 inches Boowlide during the event. The cooperative observer in Boonville arises. Snowfall rates were up to 3 inches an hore the event ended when the snow band moved back north out of the county.         NYZ009       Northern Onedia       0       0       Heavy Snow         230       2200EST       0       0       Heavy Snow         2359Est       0       0       Heavy Snow         2000EST       0       0       Heavy Snow         2359Est       0       0       Heavy Snow         2000EST       0       Heavy Snow         2000EST       0       0       Heavy Snow         2000EST       0       0       Heavy Snow         2000EST       0       0       Drought         NZ007>071       Orange - Putnam - Rockland - Northern Westchester - Southern Westchester       South are reported 16 inches         10       0000EST       0       0       Drought         31       2359EST       0       0       Drought         31       31959EST       0       Drought       Dro			s was the first	significant eve	ent of the	season. Showran ar	nounts were in the 4 to 7 men	range.
A west to east band of heavy lake effect snow off of Lake Ontario dropped south into extreme northern Oneida County during tevening of the 29th and morning of the 30th. The Oneida County sheriffs office reported 8 to 9 inches in Florence and 12 inches on The event ended when the snow band moved back north out of the county.         NYZ009       Northern Oneida 31 2200EST       0       0       Heavy Snow         2359EST       0       0       Heavy Snow         2000F       2000 the entire event were 10.5 inches in Boonville by the cooperative observer in one and 8 inches also reported in Boonville on the 31st into extreme northern Oneida County Snow totals for the entire event were 10.5 inches in Boonville by the cooperative observer and 8 inches also reported 6 inches Florence. The event ended when a cold front pushed south late morning on the first.         VEW YORK, Coastal       Name - Putnam - Rockland - Northern WestChester - Southern Westchester 10       0       Drought         31       2359EST       0       0       Drought         31       2359EST       0       0       Drought         a snow spotter. Slightly further south a snow spotter in Point Rock reported 5 inches while the County Sheriff reported 6 inches Florence. The event ended when a cold front pushed south late morning on the first.         VEW YORK, Coastal       NYZ007>071       Orange - Putnam - Rockland - Northern Westchester - Southern Westchester 10 prought 31       2359EST         10       0000EST       0       Drought 31       2359EST <td></td> <td>ļ</td> <td></td> <td>0</td> <td>0</td> <td></td> <td>Heavy Snow</td> <td></td>		ļ		0	0		Heavy Snow	
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NYZ009       Northern Onedia       Image: Control of the contr	evening of the 29th a	and morning	of the 30th. T	he Oneida Co	unty she	riff's office reported	8 to 9 inches in Florence and	12 inches
NYZ009       Northern Onedia       Image: Constraint of the consthe constraint of the constraint of the con	-		-		-		nowfall rates were up to 3 inc	hes an ho
2359EST         A west to east lake effect band of heavy snow off of Lake Ontario moved south late on the 31st into extreme northern Oneida Coun Snow totals for the entire event were 10.5 inches in Boonville by the cooperative observer and 8 inches also reported in Boonville a snow spotter. Slightly further south a snow spotter in Point Rock reported 5 inches while the County Sheriff reported 6 inches Florence. The event ended when a cold front pushed south late morning on the first.         VEW YORK, Coastal NYZ067>071       Orange - Putnam - Rockland - Northern Westchester - Southern Westchester 01 0000EST 0 0 0 Drought 31 2359EST         Dry mild weather continued for the third consecutive month across the region. The total average rainfall for December was 2. inches or 58 percent of normal. The total average rainfall from October through December was 4.39 inches, which was a deficit 7.50 inches. Rainfall was below average for the last six consecutive months, which yielded an average deficit of 10.36 inches.         The combined storage in the New York City water supply reservoir system at the end of the month was 44.3 percent of capaci which was 31.7 percent below normal. Capacities in the individual reservoirs at the end of the month were:         Croton System       83.5% (percent capacity) Roundout Reservoir 93.1% Ashokan Reservoir 93.1% Ashokan Reservoir 34.3% Neversink Reservoir 34.3% Neversink Reservoir 34.3% Neversink Reservoir 36.4%         The combined storage in the Upper Delaware River Basin at the Neversink, Pepcaton, and Canonsville Reservoirs was less than percent capacity (approximately 64 billion gallons). This was over 116 billion gallons below normal or 62.7 percent below normal	Northern Onedia	ı				-		
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a snow spotter. Slightly further south a snow spotter in Point Rock reported 5 inches while the County Sheriff reported 6 inches Florence. The event ended when a cold front pushed south late morning on the first. <b>XEW YORK, Coastal</b> <b>NYZ067&gt;071</b> Orange - Putnam - Rockland - Northern Westchester - Southern Westchester 0 0 0 Drought 31 2359EST Dry mild weather continued for the third consecutive month across the region. The total average rainfall for December was 2. inches or 58 percent of normal. The total average rainfall from October through December was 4.39 inches, which was a deficit 7.50 inches. Rainfall was below average for the last six consecutive months, which yielded an average deficit of 10.36 inches. The combined storage in the New York City water supply reservoir system at the end of the month was 44.3 percent of capaci which was 31.7 percent below normal. Capacities in the individual reservoirs at the end of the month were: Croton System 83.5% (percent capacity) Roundout Reservoir 93.1% Ashokan Reservoir 43.2% Schoharie Reservoir 34.3% Neversink Reservoir 34.3% Neversink Reservoir 34.3% The combined storage in the Upper Delaware River Basin at the Neversink, Pepcaton, and Canonsville Reservoirs was less than percent capacity (approximately 64 billion gallons). This was over 116 billion gallons below normal or 62.7 percent below normal	A west to east lake e		•					
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NYZ067>071       Orange - Putnam - Rockland - Northern Westchester - Southern Westchester 01 0000EST 0 0 0 Drought 31 2359EST         Dry mild weather continued for the third consecutive month across the region. The total average rainfall for December was 2. inches or 58 percent of normal. The total average rainfall from October through December was 4.39 inches, which was a deficit 7.50 inches. Rainfall was below average for the last six consecutive months, which yielded an average deficit of 10.36 inches.         The combined storage in the New York City water supply reservoir system at the end of the month was 44.3 percent of capaci which was 31.7 percent below normal. Capacities in the individual reservoirs at the end of the month were:         Croton System       83.5% (percent capacity) Roundout Reservoir         Roundout Reservoir       93.1% Ashokan Reservoir         Ashokan Reservoir       16.6% Cannonsville Reservoir         Pepcaton Reservoir       34.3% Neversink Reservoir         The combined storage in the Upper Delaware River Basin at the Neversink, Pepcaton, and Cannonsville Reservoirs was less than percent capacity (approximately 64 billion gallons). This was over 116 billion gallons below normal or 62.7 percent below normal	Elemence. The event	ended when	a cold front pu	sneu south fat	e mornin	g on the first.		
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<ul> <li>7.50 inches. Rainfall was below average for the last six consecutive months, which yielded an average deficit of 10.36 inches.</li> <li>The combined storage in the New York City water supply reservoir system at the end of the month was 44.3 percent of capaci which was 31.7 percent below normal. Capacities in the individual reservoirs at the end of the month were:</li> <li>Croton System 83.5% (percent capacity)</li> <li>Roundout Reservoir 93.1%</li> <li>Ashokan Reservoir 43.2%</li> <li>Schoharie Reservoir 16.6%</li> <li>Cannonsville Reservoir 7.8%</li> <li>Pepcaton Reservoir 34.3%</li> <li>Neversink Reservoir 36.4%</li> <li>The combined storage in the Upper Delaware River Basin at the Neversink, Pepcaton, and Cannonsville Reservoirs was less than percent capacity (approximately 64 billion gallons). This was over 116 billion gallons below normal or 62.7 percent below normal</li> </ul>	Orange - Putnam 01 0000EST	ı - Rocklan	d - Northern	ı Westchest		thern Westcheste		
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<ul> <li>which was 31.7 percent below normal. Capacities in the individual reservoirs at the end of the month were:</li> <li>Croton System 83.5% (percent capacity)</li> <li>Roundout Reservoir 93.1%</li> <li>Ashokan Reservoir 43.2%</li> <li>Schoharie Reservoir 16.6%</li> <li>Cannonsville Reservoir 7.8%</li> <li>Pepcaton Reservoir 34.3%</li> <li>Neversink Reservoir 36.4%</li> <li>The combined storage in the Upper Delaware River Basin at the Neversink, Pepcaton, and Cannonsville Reservoirs was less than percent capacity (approximately 64 billion gallons). This was over 116 billion gallons below normal or 62.7 percent below normal</li> </ul>	Orange - Putnam 01 0000EST 31 2359EST Dry mild weather co inches or 58 percent	ontinued for t	the third conso The total avera	Westchest 0 ecutive month age rainfall fro	0 across t om Octob	he region. The tota per through Decembor	Drought l average rainfall for December was 4.39 inches, which was	a deficit
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Roundout Reservoir       93.1%         Ashokan Reservoir       43.2%         Schoharie Reservoir       16.6%         Cannonsville Reservoir       7.8%         Pepcaton Reservoir       34.3%         Neversink Reservoir       36.4%         The combined storage in the Upper Delaware River Basin at the Neversink, Pepcaton, and Cannonsville Reservoirs was less than percent capacity (approximately 64 billion gallons). This was over 116 billion gallons below normal or 62.7 percent below normal	Orange - Putnam 01 0000EST 31 2359EST Dry mild weather co inches or 58 percent 7.50 inches. Rainfal The combined storag	ontinued for t t of normal. 7 Il was below a ge in the New	the third conso The total avera average for the w York City v	Westcheste 0 ecutive month age rainfall fro last six conse vater supply r	0 across t om Octob cutive m eservoir	he region. The tota per through Decembo onths, which yielded system at the end of	Drought I average rainfall for December was 4.39 inches, which was an average deficit of 10.36 inc the month was 44.3 percent	a deficit ches.
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<u>NEW YORK, Coastal</u> NYZ067>071		Local/         Date       Standard         Central and So         Southwest Moun         12       0200MST         0800MST         The New Mexico H         (mainly north and ea         neast         NONE REPORTED         Broome - Delawa         08       1400EST         09       0200EST         Heavy snow spread         Jersey coast early on         Northern Onedia         29       1900EST         30       0700EST         A west to east band         evening of the 29th if         Boonville during the         The event ended whe         Northern Onedia         31       2200EST         A west to east lake e         Snow totals for the e	Local/       Length         Date       Standard       (Miles)         Central and Southwest       Southwest         Southwest Mountains/Lower       12       0200MST         12       0200MST       0800MST         The New Mexico Highway Depa (mainly north and east of Silver Oreast)       NONE REPORTED.         Broome - Delaware - Sulliva 08       1400EST       09         09       0200EST       Heavy snow spread north ahead       1         Jersey coast early on the 9th. Thi       Northern Onedia       29       1900EST         30       0700EST       A west to east band of heavy lakevening of the 29th and morning Boonville during the event. The The event ended when the snow to the Stopest         Northern Onedia       31       2200EST         31       2200EST       A west to east lake effect band of Snow totals for the entire event we stope the stope of the stope o	Local/       Length       Width         Date       Standard       (Miles)       (Yards)         Central and Southwest       Southwest Mountains/Lower Gila Region       12       0200MST         12       0200MST       0800MST       0800MST         The New Mexico Highway Department reporter (mainly north and east of Silver City). NM High       08       1400EST         09       0200EST       0200EST       0200EST         Heavy snow spread north ahead of a low pressilersey coast early on the 9th. This was the first       Northern Onedia         29       1900EST       30       0700EST         A west to east band of heavy lake effect snow evening of the 29th and morning of the 30th. T       Boonville during the event. The cooperative ob The event ended when the snow band moved bar         Northern Onedia       31       2200EST         A west to east lake effect band of heavy snow of Snow totals for the entire event were 10.5 inche       30	Local/       Length       Width       Person         Date       Standard       (Miles)       (Yards)       Killed       I         Central and Southwest       Southwest Mountains/Lower Gila Region       12       0200MST       0         12       0200MST       0       0       0       0         The New Mexico Highway Department reported 6 to 12 incles (mainly north and east of Silver City). NM Highways 15 and 10       0       0         reast       NONE REPORTED.       0       0       0       0         Broome - Delaware - Sullivan       0       0       0       0       0         09       0200EST       0       0       0       0       0       0         12       1900EST       0	Local/       Length       Width       Persons         Date       Standard       (Miles)       (Yards)       Killed       Injured         Central and Southwest         Southwest Mountains/Lower Gila Region         12       0200MST       0       0         Register Mountains/Lower Gila Region         12       0200MST       0       0         The New Mexico Highway Department reported 6 to 12 inches of sn (mainly north and east of Silver City). NM Highways 15 and 152 were         Reast         NONE REPORTED.         Broome - Delaware - Sullivan         08       1400EST       0       0         09       0200EST       0       0       0         Heavy snow spread north ahead of a low pressure area. The storm m         Jersey coast early on the 9th. This was the first significant event of the         Northern Onedia         29       1900EST       0       0         A west to east band of heavy lake effect snow off of Lake Ontario de evening of the 29th and morning of the 30th. The Oneida County she Boonville during the event. The cooperative observer in Boonville rep         The event ended when the snow band moved back north out of the count of the count of the count	Local/ Date       Length Standard       Width (Miles)       Persons (Yards)       Damage Injured       Damage Property       Crops         Central and Southwest Southwest Mountains/Lower Gila Region       12       0200MST       0       0         12       0200MST       0       0       0       0         Monotations/Lower Gila Region       12       0200MST       0       0         The New Mexico Highway Department reported 6 to 12 inches of snow had accumulated (mainly north and east of Silver City). NM Highways 15 and 152 were closed for several ho       0       0         teast       NONE REPORTED.       0       0       0         Broome - Delaware - Sullivan       0       0       0       0         08       1400EST       0       0       0       0         09       0200EST       0       0       0       0         Heavy snow spread north ahead of a low pressure area. The storm moved from West Vir Jersey coast early on the 9th. This was the first significant event of the season. Snowfall ar         Northern Onedia       0       0       0       0       0         29       1900EST       0       0       0       0       0       0         30       0700EET       0       0       0       0	Local/       Length       Width       Persons       Damage       Durage         Date       Standard       (Miles)       (Yards)       Killed       Injured       Property       Crops       Character of Storm         Central and Southwest       Southwest Mountains/Lower Gila Region       0       0       Heavy Snow         12       0200MST       0       0       Heavy Snow         OBMOMST       0       0       Heavy Snow         The New Mexico Highway Department reported 6 to 12 inches of snow had accumulated in the higher elevations of C (mainly north and east of Silver City). NM Highways 15 and 152 were closed for several hours.         Heast       NONE REPORTED.         Broome - Delaware - Sullivan       0       0         08       1400EST       0       Heavy Snow         09       0200EST       0       Heavy Snow         Heavy snow spread north ahead of a low pressure area. The storm moved from West Virginia the afternoon of the 8th Jersey coast early on the 9th. This was the first significant event of the season. Snowfall amounts were in the 4 to 7 inch         Northern Onedia       29       1900EST       0       Heavy Snow         A west to east band of heavy lake effect snow off of Lake Ontario dropped south into extreme northern Oneida Count event ing of the 29th and morning of the 30th. The Oneida County shriff's office reported 8 to 9 inches in

As a consequence of declining water levels, on the 3rd, the New York State Department of Environmental Conservation (NYSDEC) upgraded the drought watch to a drought warning for Orange, Putnam, Rockland, and Westchester Counties.

( anotion	Data	Time Local/	Path Length	Path Width (Vanda)	Number Perso	ns	Estimate Damage	e	Character - f St-	December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
<u>NEW YORK, East</u> NYZ052	Fasta	A 11								
N I 2032	Daste 01	rn Albany 0000EST			0	0			<b>Record Warmth</b>	
	07	2359EST			Ū	Ŭ				
		-	-	•						gland during the fir t least 50 or higher of
										ays, two record high
	temper	ratures were es	tablished, 65							first week was 16
	C	s above normal		~	_		_			
NYZ049>050-052-054	Easter 08	rn Schenecta 2200EST	dy - South	ern Saratog	ga - Easteri 0	1 Alban 0	y - Eastern	Renssel	aer Winter Storm	
	09	0600EST			Ū	U			White Storm	
		-	-	-						ate on December 8th
										ntic coast by Sunday ern New England.
	band of	f heavier snow	vfall, 4 to 8	inches, accum	ulated across	the Grea	ter Capital D	istrict. So	me specific snowfa	all amounts in Alban
					-					ounty, 7 inches fell a eastern Schenectad
	County	y, 7 inches fell	in Glenville	and 8 in Ni						it initially melted of
	roadwa	ays, travel disru	ptions were	ninimized.						
NYZ032		ern Herkim	er		0	0				
	29 31	0400EST 2359EST			0	0			Lake Effect Snov	V
	Low pressure, anchored to the east of James Bay in Canada, circulated a persistant westerly fetch of polar air during the end									
	December. This air blew downwind of Lake Ontario, picking up moisture off the relatively warm lake waters which resulted in lal effect snow. By late Friday evening, the lake bands shifted so that the snow plume reached the western Adirondacks of norther									
		•	•	-						Reservoir reported 2
	inches	of new snowfa	ll from Frida	y evening thro	ough Monday					-
NEW YORK, North										
Clinton County		0.000000			0	0				
Countywide	06	0600EST 1300EST			0	0			Gusty Winds	
Essex County										
Countywide	06	0600EST 1300EST			0	0			Gusty Winds	
Franklin County		13001.51								
Countywide	06	0600EST			0	0			Gusty Winds	
St. Lawrence County		1300EST								
Countywide	06	0600EST			0	0			Gusty Winds	
·	D :	1300EST	,		a					
										l with passage of th 4 mph (30 kts). A fe
	wind g	gust reports inc	luded: In St	Lawrence co	unty, Canton	with 46	mph (40 kts)	while M	assena had 44 mpl	n (38 kts). In Clinto
	-	, Plattsburgh h s were reported	· ·			nty Saran	ac Lake repo	rted 37 m	ph (32 kts). In add	ition, scattered powe
NV7027-020 020-021	-	-			-	<b>F</b>	. C. A.			
NYZ027>028-030>031	North 14	iern Franklii 1700EST	n - Nortnea	st Clinton -	- Southern	Frankii 0	n - Southwe	est Chnt	on Light Snow	
	An area of low pressure over the Ohio Valley Friday morning, December 14th, moved northeast and reorganized over southern Ne									
										ed over southern Ne December 15th. Lig
	Englan									ly Saturday morning
		inckly changed		<		ounty) re	animal 5 1/2	inches wi		
	rain qu Accum	ulations were				• ·			nile Malone (Frank	lin county) had 6 1
	rain qu Accum					• ·			nile Malone (Frank	lin county) had 6 1
NYZ026-029-034>035	rain qu Accum inches.	ulations were Isolated highe	r amounts oc	curred in the	higher elevati <b>awrence -</b> '	ons. It wa <b>Western</b>	as a very wet	snow.	ssex	lin county) had 6 1
NYZ026-029-034>035	rain qu Accum inches.	ulations were Isolated highe	r amounts oc	curred in the	higher elevati	ons. It wa	as a very wet	snow.		lin county) had 6 1

		Time Local/	Path Length	Path Width	Number Person		Estimated Damage		December 200
Location	Date	Standard	(Miles)	(Yards)		njured	Property Crops	Character of Storm	
NEW YORK, North									
	-	• •			ea Friday eveni was a very wet		cember 14th) and tape	ered off to flurries ea	rly Saturday morning
NYZ027>028-031		iern Frankli 1500EST	n - Northe	ast Clinton	- Southwest	Clinto 0	n	Light Snow	
	17 18	0600EST						0	
	to off afterno few re	the southern l oonmixing wi	New England th freezing r In Clinton	d coast Tuesd ain during the county, Eller	day morning, l e evening hours	Decemt s then b	th moved to the New per 18th. Light snow ack to all snow. Accu 6 inches while Peru	spread north acros imulations were gen	s the area during th erally 3 to 5 inches.
NYZ026>027		ern St. Law	rence - No	rthern Frar		0		Lisht Europius F	
	23 24	2000EST 0300EST			0	0		Light Freezing F	(ain
	New E	•	oved east of			-	December 23rd. Anoth freezing rain and fre	•	-
NYZ026		ern St. Law	rence		0	0		<b>U</b> 6	
	27 28	2200EST 1800EST			0	0		Heavy Snow	
	bands. throug	The snow beg h the day of D	gan in south ecember 28t	ern portions of h with the sn	of St Lawrence ow bands mean	e count ndering	d flow of cold air acr y during midday on . Across southern por of 12 inches along the	Thursday, December tions of the county,	er 27th and continue lake effect snow wa
NYZ029	South 28	ern St. Law 1600EST 2100EST	rence		0	0		Heavy Snow	
	bands.	Light snow be	egan midday	on the 27th		with th	d flow of cold air act e heavy snow bands 12 inches.		
NYZ026>027		ern St. Law	rence - No	rthern Frar					
	30 31	1200EST 0400EST			0	0		Light Snow	
	across genera	the St Lawrence	ce Valley and es. The greate	d Adirondack	regions of nor	thern N	w across the eastern G ew York. Light snow ns of the zone, with le	fell across these are	as with accumulation
NYZ030		ern Frankli	n		0				
	30 31	1200EST 1400EST			0	0		Light Snow	
	across genera	the St Lawrend	ce Valley and ches. The gro	d Adirondack	regions of nor	thern N	w across the eastern G ew York. Light snow tions of the zone, wit	fell across these are	as with accumulation
NYZ031-034	South 30 31	west Clinton 1200EST 1200EST	ı - Westerı	n Essex	0	0		Light Snow	
	A storn across	m system over the St Lawrend	ce Valley and	d Adirondack		thern N	w across the eastern G ew York. Light snow		
NYZ029	South 31	ern St. Law 0200EST 1500EST	rence		0	0		Heavy Snow	

#### Storm Data and Unusual Weather Phenomena Time Path Path Number of Estimated December 2001 Local/ Length Width Persons Damage Standard Killed Character of Storm Location Date (Miles) (Yards) Injured Property Crops **NEW YORK, West NYZ008** Lewis 1615EST 0 0 5K **Heavy Snow** 20 An area of low pressure moving across southern Ontario brought snow to the region. East of Lake Ontario snowfall amounts varied from barely a covering at low elevations to seventeen inches on the Tug Hill plateau. Chautauqua - Cattaraugus - Allegany NYZ019>021 0806EST 0 Û 30K **Heavy Snow** 21 0900EST A cold northwest flow resulted in narrow bands of lake effect snow downwind of Lake Erie, across the western southern tier of New York. Specific snowfall amounts included: 8" at Frewsburg and Rushford; and 10" at Friendship. NYZ001-010>012 Niagara - Erie - Genesee - Wyoming 1130EST 0 14.3M A **Heavy Snow** 24 26 2200EST Lake effect snowbands developed and persisted for an unprecedented five days meandering north and south across the region. Multiple bands of snow developed over the Niagara peninsula during Monday, the 24th, morning and extended into Niagara and northern Erie counties into early afternoon dropping up to six inches. The activity consolidated into a single band during the mid-afternoon and dropped south across the Buffalo metro area through the evening and early overnight. Snowfall rates of 4" per hour and thunder were reported during the evening. The band drifted back north to the Niagara peninsula on Christmas day. On Wednesday the 26th, the band over the peninsula began to drift south and for the next two days continued to meander across Buffalo and its northern and southern suburbs. States of Emergency and driving bans were declared. The National Guard was called in to help in snow removal. Nearby cities including Rochester, New York and Toronto, Ontario sent snow removal crews and equipment to aid in the cleanup. The weight of the seven feet of snow caused roof collapses and in several cases entire buildings collapsed. On Grand Island, a storage building containing over one million dollars in boats collapsed. In Cheektowaga, Erie county, an 83-year-old man was killed when his carport collapsed on top of him. Specific storm totals included, in Niagara County: North Tonawanda 40"; Pendleton 39"; Wheatfield 31"; Middleport 26"; Niagara Falls 25"; Lewiston 25" and Lockport 24". In Erie County: Buffalo Airport 81.6"; West Seneca 72"; Lancaster/Depew 67"; Clarence 56"; Buffalo 49-63"; Amherst 46-55"; Boston 48"; Kenmore and Tonawanda 45"; Eden and Elma 43"; Grand Island 40"; East Aurora 38"; and Colden and Hamburg 36". In Genesee County: East Pembroke 29"; Darien 28"; Batavia 16"; and Alexander 14". In Wyoming county: Strykersville 49"; Warsaw 31"; Arcade 30"; Bennington 29" and Portageville 13". NYZ006>008 **Oswego - Jefferson - Lewis** 1630EST 27 0 **5**M **Heavy Snow** 28 0300EST During the night of the 26th and daytime hours of the 27th, lake effect snowbands intensified over northern Jefferson county. On the 28th the snowband settled south across southern Jefferson and Lewis counties. Thunder and lightning were reported during the evening with snowfall rates of two to four inches per hour. The band oscillated north and south across southern Jefferson and Lewis counties through the 28th. By late on the afternoon of the 29th, the band narrowed and moved into southern Lewis and northern Oswego counties. Specific storm totals included: in Jefferson county: Carthage 54"; Redwood 46"; Mannsville 43"; Alexandria Bay 36"; Watertown 30". In Lewis county: Montague 127"; Highmarket 104"; North Osceola 86"; Hooker 64"; Barnes Corners 62"; Lowville 48"; and Brantingham 42". In Oswego county: Lacona 38"; Bennetts Bridge 15" and West Monroe 12". NYZ019>021 Chautauqua - Cattaraugus - Allegany 0330EST A 0 **3**M **Heavy Snow** 29 **1900EST** Lake effect snowbands shifted into the western southern tier area late on the 28th and persisted through the 30th. Specific storm totals included: in Chautauqua county: Arkwright 56"; Sherman 48"; Sinclairville 30"; Fredonia 28"; Ellington 25"; Dunkirk 22" and Silver Creek 20". In Cattaraugus county: South Dayton 54"; Perrysburg 51"; Yorkshire 46" and New Albion 21". In Allegany county: Rushford 15" and Angelica 11". NORTH CAROLINA, Central NONE REPORTED. NORTH CAROLINA, Central Coastal NONE REPORTED. NORTH CAROLINA, Extreme Southwest

NONE REPORTED.

St	torn	n Data	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	December 2001
NORTH CAROLINA	, North	Coastal							
	NONE	REPORTED.							
NORTH CAROLINA	, North	west and No	orth Cer	<u>ntral</u>					
NCZ018	Watau 18 High wi	0700EST 0900EST	morning of	the 18th dow	0 vned trees acros	0 s Wata	<b>0</b> uga County, blocking	High Wind several roads.	
NORTH CAROLINA	<u>, South</u>	<u>Coastal</u>							
	NONE	REPORTED.							
NORTH CAROLINA									
NCZ033>037-048>059- 062>072-082	Mcdov	vell - Burke	- Catav	vba - Rov	van - Graha	<b>m -</b> 1	Northern Jackson	n - Macon - So	vood - Buncombe - uthern Jackson - burg - Cabarrus -
	01 31	0000EST 2359EST			0	0		Drought	
	more per Records Kings M	eople. The Ch have been kep Mountain, NC -	arlotte area ot in the ar a new pur	a recorded a ea since 1878 np was requi	n all-time reco 8. Many com red at Lake M	rd dry nunities oss bec	calendar year with j initiated either man	ust 26.23 inches of datory or voluntary dropped below 2 of	important to more and rainfall during 2001. water restrictions. At the 3 existing pumps. Jlina.
NORTH DAKOTA, C			Dala44	. Mahaaa					
NDZ003>005-012>013	05	0700CST	I - Kolett	e - Michenry	y - Fierce 0	0		Heavy Snow	
	North D expandi	akota with up to	o 10 inches eastern Bot	s reported. Th	e heaviest band	l of sno	nsified. The storm br w, 6 to 10 inches fell ies. The snow reports	from Divide and W	illiams counties
NDZ023-025-037-048		- Foster - Stu	tsman - I	La Moure	<u>^</u>	0			
	22	1200CST 2200CST			0	0		Blizzard	
	intensifi snow an 35 mph	ed into a winter ad wind across N caused conside	storm syst North Dako rable blowi	tem. The stor ta. Although ing and driftin	m moved north snow amounts ng snow to muc	east into only ran h of cen	cember and moved in o western Minnesota nged from 1 to 3 inch ntral North Dakota. V g 3 to 6 hours across t	on Saturday, the 22n es, gusty northwest v isibilities were reduc	d, and brought vinds up to
NORTH DAKOTA, E			D	D	D	E			
NDZ006>008-014>016- 026>027-029>030-054		rr - Cavaner rn Walsh 0700CST	- remon	ia - Delisoi	1 - Kanisey - 0	• Laste	ern waish - Iveisu	Winter Storm	- Steele - Train -
		1330CST	moved or	it of Colorad			Arrowhead, bringing		, and strong winds to
	northeas	st North Dakota	. Many loc	cations receiv	ed a quarter ind	ch of ice		remely dangerous. L	ightning, thunder, and
NDZ006>008-014>016- 024-026>030-038>039- 054		er - Cavalier - Traill - Bar				Easte	rn Walsh - Eddy	- Nelson - Gran	d Forks - Griggs -
т.,	22	1229CST			0	0		Blizzard	
	area. M and the Interstat	lany people wer Alerus Center re 94. The blizz	e in Grand had to be zard warnin	Forks to wat opened to a ng was issued	tch a basketball ccomodate peo l at 3:51 pm fo	game a ple ove r Traill	at UND. With no tra ernight. Numerous c	vel recommended, m cars ended up in dit	quarter mile across the totels quickly filled up ches, especially along ok longer to reach the

F	Data	Time Local/	Path Length	Path Width	Numb Pers	ons	Estimated Damage	Decembe	r 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
<u>DHIO, East</u> OHZ039>040-049>050- 057-059	Tusca	ırawas - Carr	oll - Harri	ison - Jeffer	son - Mus	kingum	- Belmont		
	14	1600EST 1930EST			0	0	40K	High Wind (G50)	
	High w central		with a deep	p area of low	pressure pas	sing over	the region downed	I numerous trees and power lines acre	oss eas
				mit - Porta	ge - Trun	ıbull -	Richland - Ash	and - Wayne - Stark - Maho	ning
	Morro 14	ow - Holmes - 1500EST 1900EST	· Knox		0	0	225K	High Wind	
	late in Many t	low pressure me the afternoon we trees were down tion and several	vith winds que the the the the text of tex of text of text of text of tex of tex of text of text of text o	uickly shifting tered power of	g to the nor utages were	hwest du also repo	ring the evening as orted. Knox County	hours. Damaging southwest winds of a trailing cold front moved across the was hardest hit with a barn blown of Counties where widespread power	ne area ff of it
	Cuyal 28 30	hoga - Lake - 1400EST 1200EST	Geauga -	Ashtabula	0	0	950K	Heavy Snow	
	inches effect b County diminis day sto	in northern Gea bands to spread with more that shed on the 30th	auga County west into ea in 10 addition in with no m in just over	7. Late on the stern Cuyahog onal inches of ore than a cou	e 29th and e a County. Snowfall in ple inches	early on t Greater th n Lake, C of accum	he 30th, winds brid han six inches of sn Geauga and Ashtab ulation during the o	of 15 inches in Lake County and aro ifly became more northerly causing to ow fell by daybreak on the 30th in Cu ula Counties. The snow showers gr laylight hours. Snowfall totals for th oga counties to over 30 inches in La	he lake yahog adually ne three
	NONE	REPORTED.							
OIIIO Southoost	Perrv	- Morgan - A	Athens - W	/ashington -	Inducor	Vintor	Moige Callie	_	
OHZ066>067-075>076-	,		inchig vi	ashington -	Jackson	· v mton	i - Meigs - Gaina	- Lawrence	
083>087	01	0000EST		ashington -	o o	0	i - Meigs - Gaina	1 - Lawrence Prolong Warmth	
OHZ066>067-075>076- 083>087	01 23 Indian Point r	1800EST summer conditi	ions lingere ees, Gallipo	d well into D	0 ecember. []	0 Daytime r	eadings in the 50s		
OHZ066>067-075>076- 083>087	01 23 Indian Point r Jackson	<b>1800EST</b> summer conditi reached 77 degr n observed 72 de	ions lingere ees, Gallipo egrees.	d well into D lis had 76 de <sub>i</sub>	<b>0</b> ecember. E grees, Mario	0 Daytime r tta saw 2	eadings in the 50s 75 degrees, New L	<b>Prolong Warmth</b> and 60s were common. On the 5th exington 74 degrees, while both Ath	
OHZ066>067-075>076- 083>087 OHZ066>067-075>076- 083>087	01 23 Indian Point r Jackson	1800EST summer conditi reached 77 degr n observed 72 d v - Morgan - A 1200EST	ions lingere ees, Gallipo egrees.	d well into D lis had 76 de <sub>i</sub>	<b>0</b> ecember. E grees, Mario	0 Daytime r tta saw 2	eadings in the 50s 75 degrees, New L	<b>Prolong Warmth</b> and 60s were common. On the 5th exington 74 degrees, while both Ath	
OHZ066>067-075>076- 083>087 OHZ066>067-075>076- 083>087	01 23 Indian Point r Jackson Perry 14 A strer storm of aligned	1800EST summer conditi reached 77 degr n observed 72 d <b>a - Morgan -</b> A 1200EST 1600EST nthening low pr center, brief win oon. Ohio Unid perpendicular red power outag	ions lingered ees, Gallipo egrees. Athens - W essure storm nd gusts of iversity at A to the wind	d well into Do lis had 76 deg / <b>ashington -</b> n lifted northe 40 to 55 mph athens measure , was blown of	0 ecember. E grees, Marie Jackson - 0 east from K occurred a ed a gust to over in Ath	0 Paytime r etta saw Vinton 0 entucky i s the asso 45 mph. ens. It v	eadings in the 50s 75 degrees, New L a - Meigs - Gallia 65K nto northeastern O beiated cold front s Around 1330E, a vas at a Walmart c	Prolong Warmth and 60s were common. On the 5th exington 74 degrees, while both Athe a - Lawrence	n of the igh and as hurt
OHZ066>067-075>076- 083>087 OHZ066>067-075>076- 083>087	01 23 Indian Point r Jackson Perry 14 A strer storm of aligned Scatter power.	1800EST summer conditi reached 77 degr n observed 72 de r - Morgan - A 1200EST 1600EST nthening low pr center, brief win oon. Ohio Unid perpendicular red power outag	ions lingered ees, Gallipo egrees. Athens - W essure storm nd gusts of iversity at A to the wind ges occurred	d well into De lis had 76 de 7 <b>ashington -</b> n lifted northe 40 to 55 mph thens measur , was blown o 1 as large bra	0 ecember. E grees, Marie Jackson 0 east from K occurred a ed a gust to over in Ath nches or tre	0 Paytime r etta saw Vinton 0 entucky i s the asso 45 mph. ens. It v	eadings in the 50s 75 degrees, New L a - Meigs - Gallia 65K nto northeastern O beiated cold front s Around 1330E, a vas at a Walmart c	Prolong Warmth and 60s were common. On the 5th exington 74 degrees, while both Athe a - Lawrence Wind hio during the daylight hours. South wept across southeast Ohio during th concrete block wall, about 20 feet h onstruction site. Luckily, nobody w	n of the igh and as hurt

		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage		December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
OHIO, Southwest									
	The h One p	ardest hit area	was in Lickir ed south of N	ng county bet	ween Granvill	e and N	he point in time, 21,00 wark where several 1 up truck, fracturing his	large trees fell on ho	uses and automobile
OHZ042-051-060-062- 070>071	Dark	ke - Miami - I	Preble - Gr	eene - Butle	er - Warren				
	17	0910EST 2145EST			0	0		Flood	
	-	water forcer roa reble Counties.	ad closures th	nroughout sou	thwest Ohio a	ind the N	Aiami Valley. Creeks	were reported out of	f their banks in Butle
OKLAHOMA, Easter	<u>rn</u>								
Choctaw County	16	0120057			0	0		Flash Flood	
East Portion	16	0120CST 0630CST			U	0		Flash Flood	
							roads in the eastern p	art of Choctaw Coun	ty. In addition, wate
Latimer County	nowe	d over Highway	109 betweei	n Frogville an	u Fort Towso	1.			
5 S Red Oak	16	0500CST			0	0		Flash Flood	
	Heavy	0630CST	rains caused	water to flow	over Highway	7 82 five	miles south of Red O	ak	
Choctaw County	11cu ( j	, ununuerstorm	anis caasea		over mgning	02 11/0			
5 S Ft Towson	16	1525CST 1730CST			0	0		Flash Flood	
	Heavy		rains caused	water to flow	over Highwa	/ 109 fiv	re miles south of Fort	Towson.	
Pushmataha County 3 E Finley	16	1525CST			0	0		Flash Flood	
	Heavy	1730CST y thunderstorm	rains caused	water to flow	over a bridge	on a cou	inty road 3 miles mile	s east of Finley.	
Latimer County	5				U			2	
5 S Red Oak	16	1530CST 1730CST			0	0		Flash Flood	
Le Flore County	Heavy	y thunderstorm	rains caused	water to flow	over Highway	/ 82 five	miles south of Red O	ak.	
South Portion	16	1725CST 2300CST			0	0	10K	Flash Flood	
	Nume		nds were floo	ded near Mus			southern Le Flore cou on to numerous county		l in the vicinity of Bi
OKZ069	Adai	r							
	16	2000CST			0	0		Flood	
		<b>0000CST</b> llinois River nea nber 17 before			U		8 pm cst on December ber 18.	16. The river creste	ed at 17.8 feet at 1 pr
OKZ076	Le F	lore							
	16	2300CST 2000CST			0	0		Flood	
		oteau River nea			U		t 11 pm cst on Decem st the same day.	ber 16. The river cr	rested at 26.4 feet at
OKZ076	Le F	lore							
	17	0000CST			0	0		Flood	
							at 12 am cst on Decen cst on December 19.	nber 17. The river cr	rested at 36.6 feet at
OKZ068	Cher				0.0				
	17	1400CST			0	0		Flood	
	18 The II	2200CST	or Tobloquob	, .		6 1 1 6		ember 17. The river	. 1 . 140 6 .

The Illinois River near Tahlequah rose above its flood stage of 11 feet at 2 pm cst on December 17. The river crested at 14.0 feet at

	Time	Path Path	Number	of	Estimated	December 200
Location	Local/ Date Standard	Length Width (Miles) (Yards)	Persons Killed In		Damage operty Crops	Character of Storm
OKLAHOMA, East	ern					
,,,		per 18 before falling below	w its flood stage	at 10 pm th	e same day.	
OKLAHOMA, Exti	eme Southeast					
Mccurtain County Golden	16 1015CST		0	0		Flash Flood
		r across county roads mal	king travel impos	sible for m	any residents.	
Mccurtain County			0	<u>^</u>		~
Broken Bow	16 1450CST A car was washed off	f the road on U.S. Hwy 7	0 0. No reports of	0 injuries.		Flash Flood
<b>Mccurtain County</b>			I. I. I.	J		
Idabel	16 1825CST		0	0		Flash Flood
	-	closed. Many Farm to M	arket roads also	closed.		
<u> OKLAHOMA, Pan</u>	handle					
	NONE REPORTED.					
OKLAHOMA, Wes	tern, Central and S	Southeast				
DECON Control	NONE REPORTED.					
<u>)REGON, Central</u> ORZ049	and East Grand Ronde Val	llev				
	01 0300PST		0	0		High Wind (G46) <sup>M</sup>
		*			•	h by an automated wind sensor. Blowin dd Canyon for several hours.
ORZ050	Wallowa County					
	01 0600PST 0800PST		0	0		High Wind (G60) <sup>M</sup>
	Strong winds ahead o	of a cold front were felt a	round Joseph. A	wind gust	of 69 mph was m	easured at 6:20 am 3 miles north of town
ORZ045	Foothills Of The I	Blue Mountains	0		0.012	
	01 0700PST 1200PST		0	1 1	100K	High Wind (G54) <sup>M</sup>
	overturned after havin mph were reported d off duty NWS emplo	ng been blown off Highv uring the morning hours byee reported several tree	way 11 near Athe by several spotte s and power line	ena. The dr ers along H s down in	iver reported only Highway 11 betwo southwest Pendle	scattered power outages. A tractor trail winnor injuries. Sustained winds over 4 een Pendleton and Milton - Freewater. A ton. Other mature trees were downed ne with gusts up to 62 mph just before noon.
	initial Treewater.					
ORZ045	Foothills Of The I	Blue Mountains				
ORZ045		Blue Mountains	0	0	10K	High Wind (G39)
ORZ045	Foothills Of The I 02 1130PST 1430PST High winds affected to mph wind gust just b	the Foothills of the Blue	Mountains from 15 mph winds ne	Milton - F ear Pendlet	reewater to Pendlon blew down se	High Wind (G39) eton. A spotter near Helix measured a s veral large branches. An landmark 3 fo
	Foothills Of The I 02 1130PST 1430PST High winds affected mph wind gust just b diameter tree was dow Blue Mountains	the Foothills of the Blue before noon. Sustained 4	Mountains from 45 mph winds ne on - Freewater Co	Milton - F ear Pendlete ourthouse a	reewater to Pendlon blew down se	eton. A spotter near Helix measured a 3 veral large branches. An landmark 3 fo
	Foothills Of The I 02 1130PST 1430PST High winds affected mph wind gust just b diameter tree was dow	the Foothills of the Blue before noon. Sustained 4	Mountains from 15 mph winds ne	Milton - F ear Pendlet	reewater to Pendlon blew down se	eton. A spotter near Helix measured a 5
	Foothills Of The I 02 1130PST 1430PST High winds affected mph wind gust just b diameter tree was dow Blue Mountains 04 1800PST 05 0800PST	the Foothills of the Blue before noon. Sustained 4 wned in front of the Milto ernight at elevations above	Mountains from 45 mph winds ne on - Freewater Co 0	Milton - F ear Pendlete ourthouse a 0	reewater to Pendl on blew down se t 2 pm.	eton. A spotter near Helix measured a 3 veral large branches. An landmark 3 fo
ORZ046	Foothills Of The I 02 1130PST 1430PST High winds affected mph wind gust just b diameter tree was dow Blue Mountains 04 1800PST 05 0800PST Heavy snow fell over reported 14 inches of Central Oregon	the Foothills of the Blue before noon. Sustained 4 wned in front of the Milto ernight at elevations above	Mountains from 45 mph winds ne on - Freewater Co 0 we 4500 feet in t	Milton - F ear Pendleto purthouse a 0 the norther	reewater to Pendl on blew down set t 2 pm. n Blue Mountain	eton. A spotter near Helix measured a 5 veral large branches. An landmark 3 fo <b>Heavy Snow</b> s. Tollgate, at an elevation of 5100 fee
ORZ045 ORZ046 ORZ043	Foothills Of The I 02 1130PST 1430PST High winds affected 1 mph wind gust just b diameter tree was dow Blue Mountains 04 1800PST 05 0800PST Heavy snow fell ove reported 14 inches of	the Foothills of the Blue before noon. Sustained 4 wned in front of the Milto ernight at elevations above	Mountains from 45 mph winds ne on - Freewater Co 0	Milton - F ear Pendlete ourthouse a 0	reewater to Pendl on blew down se t 2 pm.	eton. A spotter near Helix measured a 3 veral large branches. An landmark 3 fo Heavy Snow

#### Storm Data and Unusual Weather Phenomena Time Path Path Number of Estimated December 2001 Local/ Length Width Damage Persons Standard Killed Location Date (Miles) (Yards) Injured Property Crops Character of Storm **OREGON, Central and East ORZ049** Grand Ronde Valley 0700PST 0 0 High Wind (G53) M 08 1400PST Sustained winds of over 40 mph were recorded for 7 hours north of Ladd Canyon. A peak gust of 61 mph occurred at 8:45 am. **ORZ049** Grand Ronde Valley 2100PST A A 100K Blizzard 12 13 1200PST A blizzard struck the Grande Ronde Valley, closing roads, schools and several businesses. Interstate 84 was closed from Ontario from Pendleton for 15 hours beginning at 10 pm on the 12th. Visibilities were reduced to less than 1/8 of a mile around Ladd Canyon, where winds gusted up to nearly 50 mph. Farther north, winds of 20 to 30 mph drifted snow across local highways, leading to numerous accidents. Snowfall amounts in the Grande Ronde Valley ranged from 4 to 8 inches, with La Grande and Imbler receiving 6 inches. **ORZ049** Grand Ronde Valley 0040PST High Wind (G36) M 13 0 0 0500PST Sustained winds of greater than 40 mph were recorded for several hours by an Oregon Dept. of Transportation sensor along Interstate - 84 north of Ladd Canyon during the early morning hours. Snow accompanied these winds, leading to the closure of the interstate. **ORZ043 Central Oregon** 0600PST 50K High Wind (G40) M 13 0 1000PST A cold front brought damaging winds to central Oregon for several hours. Several large trees were toppled in Bend, leading to blocked streets and one isolated power outage. A construction fence also blew across a city road. In Prineville, part of a tin roof blew off an older house. A peak wind gust of 46 mph was measured at the airport in Redmond. **ORZ049 Grand Ronde Valley** 2300PST 13 Û 0 High Wind (G35) 0200PST 14 Sustained winds estimated at over 40 mph blew for several hours north of Ladd Canyon overnight.. **ORZ049** Grand Ronde Valley High Wind (G36) M 16 0430PST A 0 0630PST Sustained winds greater than 40 mph were recorded by an Oregon Dept. of Transportation wind sensor. **OREGON**, Northwest **ORZ011** Northern Oregon Cascades 0000PST 01 0 0 **Heavy Snow** 1800PST The first major Pacific storm of a stormy month dumped very heavy snow on the Cascades. Government Camp and Timberline received 26 inches, Bennett Pass and Tombstone 21 inches, Santiam Pass and Mt. Hood Meadows 18 inches each, and Blue Box Pass reported 13 inches of new snow. ORZ001>002 Northern Oregon Coast - Central Oregon Coast 0000PST 0 26K High Wind (G54) M 01 1800PST A strong Pacific storm brought heavy rains and high winds to the area, causing widespread power outages, small landslides, and high waters. The Nehalem River flooded Highway 101 with a foot of water in the Nehalem area. A landslide on Highway 30, ten miles east of Astoria, resulted in the rerouting of traffic during cleanup, which is expected to cost about \$26K. Reported winds included Newport at 40 mph with gusts to 62 mph, Florence 48 mph with gusts to 62 mph, Yachats gusts to 61 mph, and Garibaldi winds 50 mph. ORZ001>002 Northern Oregon Coast - Central Oregon Coast High Wind (G46) M 03 1200PST 0 04 1500PST Winds were measured in Garibaldi at 40 mph, and at Newport 40 mph with gusts to 53 mph. ORZ003-009>012 Coast Range Of Nw Oregon - Western Columbia River Gorge - North Oregon Cascades Foothills - Northern **Oregon Cascades - Cascade Foothills In Lane County** 1200PST **Heavy Snow** 03 0 04 1500PST Another powerful Pacific storm dumped very heavy snow in the Cascades again. Thirty five inches of snow fell at Santiam Pass, 38 inches at Mt. Hood Meadows, 34 inches at Timberline, 27 inches at Government Camp and Bennett Pass, 22 inches at Mt. Bachelor

#### **Storm Data and Unusual Weather Phenomena** Time Path Path Number of Estimated December 2001 Local/ Length Width Persons Damage Standard Location Date (Miles) (Yards) Killed Injured Property Crops Character of Storm **OREGON**, Northwest and 21 inches at Tombstone. In the Cascade Foothills, 3 to 5 inches were reported. In the Coastal Mountains. Both Sunset and Wilson Summits had 4 to 5 inches. In the Columbia River Gorge 3 to 4 inches of new snow was reported at Hood River, and both Bonneville Dam and Cascade Locks reported one inch accumulations. ORZ001>003-006 Northern Oregon Coast - Central Oregon Coast - Coast Range Of Nw Oregon - Greater Portland Metro Area 1500PST 0 High Wind (G83) 12 0 14 2100PST A strong winter storm brought high winds to the Oregon Coast, Coastal Mountains, and Willamette Valley resulting in widespread power outages and toppled trees. At Sea Lion Caves the wind gusts were estimated to be 70 to 75 with gusts 90 to 95 mph. Elsewhere winds were measured in Florence at 70 gusts to 79 mph, Newport Jetty 57 gust to 68 mph, Yachats gusts to 60 mph and Wheeler gusts to 90 mph. In the Coastal Mountains Cedar Creek RAWS reported gusts to 61 mph, The Dunes RAWS gusts to 62 mph and Cannibal RAWS gusts to 57 mph. In the Willamette Valley the Portland Airport recorded a gust to 47 mph. Central Lincoln P.U.D. reported 5000 customers lost power. In Astoria, the 66-foot crab boat Defiant was torn loose from its mooring...it drifted into shallow water and ran aground. **ORZ011** Northern Oregon Cascades 1400PST 13 0 0 **Heavy Snow** 14 1800PST Snowfall amounts were 16 inches at Santiam Pass, Timberline, and Mt. Hood Meadows. Mt. Bachelor received 15 inches of snow. ORZ001>003 Northern Oregon Coast - Central Oregon Coast - Coast Range Of Nw Oregon 0700PST High Wind (G70) M 15 0 0 16 2100PST A strong winter storm moved onshore bringing strong winds and heavy rains to the Oregon Coast and Coastal Mountains resulting in many downed trees, power outages and high waters. Bouy 29 at the mouth of the Columbia River reported winds 43 gusts to 56 mph, Newport Jetty 50 gusts to 70 mph, Florence 53 gusts to 68 mph, Garibaldi gusts to 68 mph, Netarts 40 to 50 gusts to 80 mph, Seaside gusts to 75 mph, Astoria gusts to 65 mph. In the Coastal Mountains Cedar Creek RAWS had gusts to 62 mph, Cannibal RAWS gusts to 65 mph, Wilkerson gusts to 57 mph. 17000 customers reported lost power. Small slides blocked Highway 30 at various points causing traffic detours. Thigh deep water covered Highway 101 South of Seaside. A tree fell across a private residence in Lincoln City, and estimated cost of repair was not available. No injuries were reported. ORZ006>007 Greater Portland Metro Area - Central Willamette Valley 16 1500PST High Wind (G52) <sup>M</sup> 0 0 17 1700PST Trees were downed and power outages reported where wind gusts to 60 mph were reported at Portland, Salem, Silverton, Woodburn and Canby. 8500 customers reportedly lost power in the Salem-Woodburn area. ORZ009-011 Western Columbia River Gorge - Northern Oregon Cascades 1200PST **Heavy Snow** 17 1500PST 18 In the Cascades 11 inches of snow fell at Mt. Hood Meadows, 9 inches at Santiam Pass, 8 inches at Timberline, and 7 inches at Bennett Pass. In the Columbia River Gorge, Hood River had 4 inches of snow and Cascade Locks 1 to 2 inches. ORZ009-011 Western Columbia River Gorge - Northern Oregon Cascades 0200PST Winter Storm 27 0 0 1500PST 28 Heavy snows were reported in the Cascades, 8 inches fell at Mt. Bachelor and Warm Springs, 6 inches at Blue Box and Santiam Pass. In the Columbia River Gorge, Hood River reported 2 inches of snow, Freezing Rain was reported at Corbett, and Skamania reported both sleet and snow. **ORZ009-011** Western Columbia River Gorge - Northern Oregon Cascades 1200PST 30 0 0 Winter Storm 2100PST 31 In the Cascades, Freezing Rain was reported at Blue Box Pass, Government Camp, and Warm Springs. Willamette Pass received 2 inches of snow. In the Columbia River Gorge, Hood River reportedly received sleet, freezing rain, and one inch of snow. **OREGON, Southeast ORZ062** Baker High Wind (G63) M 2045PST 0 01 2115PST The passage of a cold front generated winds sustained to 31 knots and gusts to 37 knots at the Baker Municipal Airport and isolated

The passage of a cold front generated winds sustained to 31 knots and gusts to 37 knots at the Baker Municipal Airport and isolated gusts to 63 knots were recorded at a remote observation site on a ridge top above Baker City, Oregon. There was minor damage to roofs and highway road signs. Blowing and drifting snow resulted in the closure of local roads and a section of Interstate 84 from Pendleton to Ontario. There were numerous slide-offs but no injuries were reported.

		Time	Path Langth	Path	Numb		Estimated		December 2001
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property Crops	Character of Storm	
<b>OREGON, Southeast</b>									
ORZ062	Bake				0				
	04 05	2200PST 0700PST			0	0		Heavy Snow	
	A strop	ng Pacific storm	n brought be	tween 4 and 1	12 inches of s	now acro	oss Baker County.		
ORZ062	Bake				0	0			
	13 14	0730PST 0300PST			0	0		Heavy Snow	
						4 betwee	en Baker City and Onta	ario, Oregon for sever	al hours after a storm
0070/1		ed up to 10 inch	es of snow a	cross Baker	county.				
ORZ061	Harn 22	ey 2030PST			0	0		Heavy Snow	
	23	0300PST							
		m system broug	ht up to 5 in	ches of snow	across Harne	y Count	у.		
OREGON, Southwest ORZ021-021-021-		n Central Ore	agon Coast	t - Curry C	ounty Coos	t			
021>022	Souti		gon Coas	- Curry C	ounty Coas	L			
	01	0100PST 0745PST			0	0		High Wind (G93)	М
		Blanco recorded		1					
							n 11/30/01, restricted t rified the warning, and		
	have b	been limited to	the headland	ls. In additio	on, Cape Blai	nco exce	eded warning criteria	continuously (except	for one observation)
						-	Blanco peak gust of 93 a bit prematurely, as w		
		ceeded High W			-		· ·	inds at cupe Dianes	increased once again
ORZ031		ral & Eastern	Lake Co	unty					
	01 Spotte	0710PST r I A 21 at I ake	view report	ed winds of f	0 50 mph blou	0 ing spor	w with visibilities 1/4	High Wind (G50)	
		overnight.	view report		oo mpn, blow	ing sho	w with visionities 1/4	nine, 4-5 toot showd	fires, and 5 menes of
	•		-				30/01 and cancelled at urning may have been a		
	situatio		ne cancenat	ion was prem			annig may have been t	i more appropriate pro	Succession and weather
ORZ028	Siskiy	you Mountair	ns & South	nern Orego	n Cascades				
	01 Spotto	1255PST	ickiyon Sum	mit reported	0 0.10 inches o	0 f anour c	warnight with water a	Heavy Snow	20
							overnight with water ec , and this was the only		
		ations verified despread.	an advisory	or less. Give	en the paucity	of repo	orts verifying a warnin	g, it appears that war	ning conditions were
ORZ026-026>027-027-		•	South Co	ntral Orago	n Casaada	. Kla	math Dasin North	own & Fastown V	lamath County &
029-029>030-030-030-		ern Lake Cou		itrai Orego	In Cascade	s - Kia	math Basin - Nortl	ierin & Easterin K	iamath County &
030-030	07	0517DCT			0	0		Haarry Charry	
	05	0517PST 1600PST			0	0		Heavy Snow	
007021	-	r JA45 in Butte	-		f snow overni	ght.			
ORZ031	05	ral & Eastern 0725PST	I Lake Co	inty	0	0		Blizzard	
	Spotte	r LA21 8W Lak	1			th winds	s SW 35-40 mph.		
		-	•	•		-	Blizzard Warning. Un est Klamath, and North	• •	
	was in	effect for ORZ	030 north o	f Diamond L	ake Junction,	and two	o of the reports above of		•
0.5.5.4.4		ll, this was prett	•		ith the except	ion of O	JKZ027.		
ORZ021	South 13	n Central Ore 1400PST	egon Coast	t	0	0		High Wind (G53)	м
		Blance recorded	south wind	s 53 gusting t	•	U		ingn wind (G55)	
	A Hig	h Wind Warnin				and C.	AZ081 at 0520 PST o	on 12/13/01 and exp	ired at 0030 PST on
	12/14/	01.							

Date	Local/ Standard	Length	Width	Pers	ons	Dam	age		
	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
est									
	ove observation	n verified the	warning for O	RZ021, no	verifying	g reports wer	e recieved	for the remaining tw	o zones.
South 14	0200PST	egon Casca	des - Siskiyo	ou Mount 0	ains & S 0	Southern (	Oregon (	Cascades Heavy Snow	
A Win	operative obser ter Storm War	ning was issu	led for Oregon	zones OR	Z027/028	3/030 at 052	0 PST on	12/13 and expired at	
Centr 16	0756PST	1 Lake Cou	inty	0	0			High Wind (G70)	
Based	LA20 at Sum on the 0756 re	port above, a	t High Wind W	/arning wa	s issued f				and expired at 040
South 16	1700PST	egon Coast		0	0			High Wind (G77)	М
A Higl 2255 H	n Wind Warnir PST on 12/16.	ng was issued The observ	d for the South vations recorde	ern Oregon ed above v					
		egon Coast							
Cape E A High 12/18.	Blanco reported Wind Warnin The reports al	g was issued	for the headla	n and a gus	t of 72 m on zones	ORZ021/02	2 at 1329 I	0700 PST on 12/18. PST on 12/17 and ex	pired at 1100 PST o
12	0000SST			1	0	500K	400K	Hurricane	
A trou 160E. of the gusting of the Tropic	gh of low press By the evening 11th an autom g near 40 kt wit 12th it became al Storm Faxai	of the 10th a ated weather th a peak gus Tropical De when it wa	a circulation way observing stat st of 42 kt at 17 epression 31W as located 115	as observed tion on Nu 707Z. This 250 miles miles sout	l in Quicl kuror (3. indicated southeas heast of	k Scat data r 85N 155.011 l that the sys t of Chuuk. Pohnpei. A	tear 5N156 E) observe tem was p By the mo westerly	5E. Between 16Z and d wind westerly win ossibly strengthenin prning of the 13th the wind burst along the	1 21Z on the mornin ads were consistent g and by the mornin e depression becam
station: 0757Z reporte A peak out on the sto on the near P 18th. A	ary for a few d on the 15th w d sustained wind wind of 64 mp the island and rm the southern road on that po ingelap(6.2N 1 A peak gust of	ays in the vid as 10.74 inc nds of 36 mp bh was record because of the clockwise t bortion of the 60.7E). An a 48 mph was	cinity of Kosrae hes with 24.76 h twice on the ded on the 15th he heavy rainfal hrough westerr island. Damage uutomated aner recorded early	e. This resu inches fal 19th. The a ta 1857. C II a lot of fl shore of I e was repon nometer re y on the m	lited in he ling from 1st at 125 mly one i ooding w Cosrae ex ted to the corded a prning of	eavy rainfall 13/1957Z ( 57 and the se ndirect death vas reported. perienced so banana cro maximum s the 18th at	over the i to 18/2257 econd at 22 h occurred Because of pme coasta ps. By the ustained v 0058. The	sland. The 24 hour r Z. An automated wi 257. Both winds were on Kosrae. Electrica of the persistent south d inundation. Many r e 18th the storm had vind of 29 mph of 0 e center of the tropic	ainfall total ending ind sensor on Kosrie e from the southwei l power was knock west fetch caused l ocks were thrown to drifted west and wi 758 and 1158 on that al storm passed ve
	14The co A Win NumerCentr 16Spotter Based PST orSouth 16Cape F A Higl 2255 F observ.South 18Cape E A Higl 2255 F observ.South 18Cape E A Higl 2255 F observ.South 18Cape E A Higl 12/18.O811 PMarsl 12 20A trou 160Eof the gusting of the TropicaOn the station 0757Z reported A peak out on the sto on the sto on the sto	140200PST 0900PSTThe cooperative obset A Winter Storm Warn Numerous reports of stCentral & Easterr 160756PST 1902PSTSpotter LA20 at Sum Based on the 0756 re PST on 12/17/01. ThSouth Central Ora 161700PST 1900PSTCape Blanco recorded A High Wind Warnir 2255 PST on 12/16. observations from CapSouth Central Ora 180641PST 0641PSTCape Blanco reported A High Wind Warnin 12/18. The reports at 0811 PST on 12/18.Marshall Islands 120000SST 20O 1000SST A trough of low press 160E. By the evening of the 11th an autom gusting near 40 kt wit of the 12th it became Tropical Storm Faxai tropical storm furtherOn the morning of th stationary for a few d 0757Z on the 15th w reported sustained with A peak wind of 64 mp out on the island and the storm the southerr on the road on that po near Pingelap(6.2N 1 18th. A peak gust of	14       0200PST         The cooperative observer at Lemol A Winter Storm Warning was issue Numerous reports of significant sm         Central & Eastern Lake Cout 16         1902PST         Spotter LA20 at Summer Lake at Based on the 0756 report above, a PST on 12/17/01. The other report South Central Oregon Coast 16         1700PST         Cape Blanco recorded a sustained A High Wind Warning was issued 2255 PST on 12/16. The observobservations from Cape Blanco als         South Central Oregon Coast 18         0641PST         Cape Blanco reported a sustained YA High Wind Warning was issued 2255 PST on 12/16. The observobservations from Cape Blanco als         South Central Oregon Coast 18         0641PST         Cape Blanco reported a sustained YA High Wind Warning was issued 12/18. The reports above verified 0811 PST on 12/18.         Marshall Islands         12       0000SST         A trough of low pressure had bee 160E. By the evening of the 10th at of the 11th an automated weather gusting near 40 kt with a peak gus of the 12th it became Tropical Do Tropical Storm Faxai when it wat tropical storm further eastward and COn the morning of the 16th the st stationary for a few days in the via 0757Z on the 15th was 10.74 inc reported sustained winds of 36 mg A peak wind of 64 mph was record out on the island and because of the the storm the southern clockwise ton the road on that portion of the near Pingela	14       0200PST         The cooperative observer at Lemolo lake reported A Winter Storm Warning was issued for Oregon Numerous reports of significant snow were received Central & Eastern Lake County         16       0756PST 1902PST         Spotter LA20 at Summer Lake at 4272 feet report Based on the 0756 report above, a High Wind W PST on 12/17/01. The other reports above verified         South Central Oregon Coast         16       1700PST 1900PST         Outpotter Cape Blanco recorded a sustained wind of 57 mp A High Wind Warning was issued for the South 2255 PST on 12/16. The observations recorde observations from Cape Blanco also verified the versions from Cape Blanco also verified the versions from Cape Blanco also verified the versions from Cape Blanco also verified the version 12/18. The reports above verified the warning. 0811 PST on 12/18.         Marshall Islands         12       0000SST         A trough of low pressure had been noted for day 160E. By the evening of the 10th a circulation word the 11th an automated weather observing stat gusting near 40 kt with a peak gust of 42 kt at 17 of the 12th it became Tropical Depression 31W Tropical Storm Faxai when it was located 115 tropical storm further eastward and by the evening 0757Z on the 15th was 10.74 inches with 24.76 reported sustained winds of 36 mpt twice on the A peak wind of 64 mph was recorded on the 15th out on the island and because of the heavy rainfa the storm the souther clockwise through westert on the road on that portion of the island. Damage near Pingelap(6.2N 160.7E). An automated aner 18th. A peak gust of 48 mph was recorded early 18th. </td <td>14       0200PST         14       0200PST         14       0200PST         The cooperative observer at Lemolo lake reported 14 inches A Winter Storm Warning was issued for Oregon zones OR Numerous reports of significant snow were received, but the         16       0756PST       0         1902PST       Spotter LA20 at Summer Lake at 4272 feet reported souther Based on the 0756 report above, a High Wind Warning was PST on 12/17/01. The other reports above verified the warm         South Central Oregon Coast       16       1700PST         16       1700PST       0         1900PST       1900PST       0         Cape Blanco recorded a sustained wind of 57 mph.       A High Wind Warning was issued for the Southern Oregor 2255 PST on 12/16. The observations recorded above w observations from Cape Blanco also verified the warning.         South Central Oregon Coast       18       0641PST       0         Cape Blanco reported a sustained wind of 60 mph and a gus A High Wind Warning was issued for the headland of Orego 12/18. The reports above verified the warning. Cape Blan 0811 PST on 12/18.         Marshall Islands       1       20       1000SST       1         20       1000SST       1       20       1000SST         A trough of low pressure had been noted for days in synop 160E. By the evening of the 10th a circulation was observed of the 11th an automated weather observing station on Nu gusting near 40 kt with a peak gus</td> <td>14       0200PST         16       0900PST         The cooperative observer at Lemolo lake reported 14 inches of snow: A Winter Storm Warning was issued for Oregon zones ORZ027/028 Numerous reports of significant snow were received, but the reports at Central &amp; Eastern Lake County         16       0756PST       0       0         1902PST       Spotter LA20 at Summer Lake at 4272 feet reported southerly wind 1         Based on the 0756 report above, a High Wind Warning was issued f PST on 12/17/01. The other reports above verified the warning.         South Central Oregon Coast         16       1700PST       0       0         1900PST       0       0       0         Cape Blanco recorded a sustained wind of 57 mph.         A High Wind Warning was issued for the Southern Oregon coastal 2255 PST on 12/16. The observations recorded above were the observations from Cape Blanco also verified the warning.         South Central Oregon Coast         18       0641PST       0       0         Cape Blanco reported a sustained wind of 60 mph and a gust of 72 m A High Wind Warning was issued for the headland of Oregon zones 21/18. The reports above verified the warning. Cape Blanco excee 0811 PST on 12/18.         Marshall Islands         12       0000SST       1       0         A trough of low pressure had been noted for days in synoptic</td> <td>14       0200PST         17       0         18       0         1900PST       0         10       0         14       0200PST         15       0         16       0756PST         17       0         18       0         1902PST       0         2001PST       0         217/07.01.       The other reports above verified the warning.         2001PST       0       0         2012PST       0       0         2010PST       0       0         2255 PST on 12/16. The observations recorded above were the peak sustain observations from Cape Blanco also verified the warning.</td> <td>14       0200PST         0       0000PST         The cooperative observer at Lemolo lake reported 14 inches of snow in the 24 hours ending A Winter Storm Warning was issued for Oregon zones ORZ027/028/030 at 0520 PST on Numerous reports of significant snow were received, but the reports above are the only ones         Central &amp; Eastern Lake County       0       0         16       0756PST       0       0         900PST       0       0       1902PST         Spotter LA20 at Summer Lake at 4272 feet reported southerly wind 35-40 MPH gusting to Based on the 0756 report above, a High Wind Warning was issued for zone ORZ031 at 08 PST on 12/17/01. The other reports above verified the warning.         South Central Oregon Coast       0       0         16       1700PST       0       0         1900PST       0       0       0         255 PST on 12/16. The observations recorded above were the peak sustained and peotservations from Cape Blanco also verified the warning.       South Central Oregon Coast         18       0641PST       0       0         19218       0       0       0         19218       12/18. The reports above verified the warning. Cape Blanco exceeded high wind warnin 0811 PST on 12/18.       10       500K 400K         20       10000SST       1       0       0       0       10       12/18.       12/18.<td>0900PST       The cooperative observer at Lemolo lake reported 14 inches of snow in the 24 hours ending at 0900 PST. A Winter Storm Warning was issued for Oregon zones ORZ027/028/030 at 0520 PST on 12/13 and expired at Numerous reports of significant snow were received, but the reports above are the only ones that verified the warn Central &amp; Eastern Lake County         16       0756PST       0       0       High Wind (G70)         1902PST       0       0       High Wind (G70)         Spotter LA20 at Summer Lake at 4272 feet reported southerly wind 35-40 MPH gusting to 64 MPH.       Based on the 0756 report above, a High Wind Warning was issued for zone ORZ031 at 0818 PST on 12/16/01         PST on 12/17/01.       The other reports above verified the warning.         South Central Oregon Coast       0       0         16       1700PST       0       0         Cape Blanco recorded a sustained wind of 57 mph.       A High Wind Warning was issued for the Southern Oregon coastal headlands (ORZ021/022) at 1915 PST on 2255 PST on 12/16. The observations recorded above were the peak sustained and peak gust at Cape Bl observations from Cape Blanco also verified the warning.         South Central Oregon Coast       1       0       0         18       0641PST       0       0       High Wind (G51)         Cape Blanco reported a sustained wind of 60 mph and a gust of 72 mph between 0600 and 0700 PST on 12/18. A High Wind Warning was issued for the headland of Oregon zones ORZ021/022 at 1329 PST on 12/17 and ex 12/18. The reports above ver</td></td>	14       0200PST         14       0200PST         14       0200PST         The cooperative observer at Lemolo lake reported 14 inches A Winter Storm Warning was issued for Oregon zones OR Numerous reports of significant snow were received, but the         16       0756PST       0         1902PST       Spotter LA20 at Summer Lake at 4272 feet reported souther Based on the 0756 report above, a High Wind Warning was PST on 12/17/01. The other reports above verified the warm         South Central Oregon Coast       16       1700PST         16       1700PST       0         1900PST       1900PST       0         Cape Blanco recorded a sustained wind of 57 mph.       A High Wind Warning was issued for the Southern Oregor 2255 PST on 12/16. The observations recorded above w observations from Cape Blanco also verified the warning.         South Central Oregon Coast       18       0641PST       0         Cape Blanco reported a sustained wind of 60 mph and a gus A High Wind Warning was issued for the headland of Orego 12/18. The reports above verified the warning. Cape Blan 0811 PST on 12/18.         Marshall Islands       1       20       1000SST       1         20       1000SST       1       20       1000SST         A trough of low pressure had been noted for days in synop 160E. By the evening of the 10th a circulation was observed of the 11th an automated weather observing station on Nu gusting near 40 kt with a peak gus	14       0200PST         16       0900PST         The cooperative observer at Lemolo lake reported 14 inches of snow: A Winter Storm Warning was issued for Oregon zones ORZ027/028 Numerous reports of significant snow were received, but the reports at Central & Eastern Lake County         16       0756PST       0       0         1902PST       Spotter LA20 at Summer Lake at 4272 feet reported southerly wind 1         Based on the 0756 report above, a High Wind Warning was issued f PST on 12/17/01. The other reports above verified the warning.         South Central Oregon Coast         16       1700PST       0       0         1900PST       0       0       0         Cape Blanco recorded a sustained wind of 57 mph.         A High Wind Warning was issued for the Southern Oregon coastal 2255 PST on 12/16. 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The tropical storm continued on its slow northwest movement with the center passing 135 miles to the north of the island on morning of the 21st. Rainbands and a southwesterly monsoon flow created lower pressure and stronger winds along the right periphery of the tropical storm. As a result Pohnpei received strong winds on the 20th with a peak wind of 34 mph at 1352. On the 20 the 24 hour rainfall total at the Pohnpei WSO was 3.13 inches. The heavy rain caused flooding and two landslides in the Nett Municipality of Pohnpei. Shortly after making its closest approach to Pohnpei the tropical storm became Typhoon Faxai at 1000 on the 20th. M?OU

		Time Local/	Path Length	Path Width		ber of sons	Estim Dam			December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
<u>PACIFIC</u> Guam										
Central Portion	22	1400SST 1500SST			1	0			<b>Rip Currents</b>	
	strong Tiyan	currents along	the reef line. ponded to th	At 1433 result of the second s	cers receive ived to find	ed a call of	f a distreese	d swimme	r at Gun Beach. Res	non Bay as a result of cuers from Tamuning, en to Guam Memorial
GUZ005	North 23 24	nern Mariana 0000SST 0000SST	18		0	0	50K	50K	Hurricane	
PENNSYLVANIA, Co	east of only re entral	Agrihan. Desp eported damage	bite being bu was a water	ffeted by stro well being in	ong winds, undated by	the small saltwater.	group of pe	ople (9 ad	ults, one child) on A	s only 45 miles to the Agrihan survived. The
PAZ012-017>018-024- 033-041>042-045>046		iern Clinton iern Clinton -			ern Cent	re - Car	nbria - So	omerset	- Northern Lyco	oming - Sullivan -
	14 15	1930EST 0100EST	Southern	Lyconnig	0	0			High Wind (G60	)
	Strong evenin area, v	southwest win g of December	14th. Dam ation locatio	aging winds ns being espe	were comn cially hard	nonplace a hit. Num	erous report	orthern an	d western portions of	he late afternoon and of the county warning d countywide over the
<u>PENNSYLVANIA, Ea</u> PAZ054>055-060>062-		on - Monroe	- Berks - I	.ehigh - No	rthampto	n - Chest	ter - Mont	gomery	- Bucks - Delawa	re - Philadelphia
067>071	01 31	0000EST 2359EST			0	0	0		Drought	
	Unseas during precipi Decem	sonably dry we December tha itation totals ra iber 5th, Penns	an either Oo nged from 2 sylvania's De	ctober or No 2.1 inches in epartment of	vember, it Chester Co Environme	was still ounty to 2 ntal Protee	drier than .9 inches in ction Secret	normal. ( Carbon ( ary David	On a county weigh County. Normal is a E. Hess upgraded	nore precipitation fell ted average, monthly round 3.6 inches. On the drought watch in v levels reaching near

December 5th, Pennsylvania's Department of Environmental Protection Secretary David E. Hess upgraded the drought watch in Eastern Pennsylvania to a drought warning. Groundwater levels were continuing to decline with streamflow levels reaching near record low levels in some cases. A drought warning calls for a 10 to 15 percent voluntary reduction in water consumption. Methods to conserve water include fixing leaking toilets and faucets, running dishwashers and washing machines at full loads only, replacing old toilets with newer ones, installing water efficient showerheads and turning off the water while brushing teeth or shaving. Due to low groundwater supplies, Upper Makefield Township (Bucks County) declared a drought emergency.

The Delaware River Basin Commission, which oversees water supply throughout the Delaware River Basin declared a "drought" on December 3rd when the supply of water in the New York City reservoir system dropped below a designated level for early December. This triggered additional reductions in the amount of water released from the reservoirs into the Delaware River and the amount diverted out of the Delaware River Basin to New York City and New Jersey. Diversions to New York City dropped from 800 million gallons a day to 520 million gallons a day. As precipitation continued to be below normal, the New York City reservoirs failed to rise and were about 50 percent below normal for December. They were at their lowest level since the last of the three reservoirs went on line in 1967. The Delaware River Basin Commission declared a drought emergency on December 18th. The emergency declaration gave the commission the power to restrict the amount of water suppliers could draw from the basin. It gave the commission the authority to take water from municipal reservoirs to maintain river levels. It could also call for water releases from federal, state and privately owned reservoirs. Water from Lake Nockamixon, the F.E. Walter Reservoir and Lake Wallenpaupack could be used to maintain river levels. They were last used for this purpose in the 1960s. The releases help protect the riverbank and aquatic life and also prevents salt water from flowing up the Delaware River. Salt water intrusion causes corrosion problems for industries and increases water treatment costs for municipalities that depend on the river for their water supply. Maintaining river levels are also important for groundwater reserves that are recharged by the river itself. The salt front along the Delaware River was approximately 11 miles farther upstream than it normally is during December. The emergency declaration also gives the commission the power to request that utilities and other companies that use more than one million gallons of water a day to prepare contigency plans to use less water and submit the plans to the commission.

The dry weather during the fall caused a below normal (in size) potato crop in the state. The wetter weather during December did have one positive effect. The outdoor burning ban in West Penn Township was lifted on December 5th and the countywide burning

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Person Killed Iı		Estima Damaş Property		Character of Storm	December 200
PENNSYLVANIA, Ea	st									
	ban in	Monroe County	was lifted of	on December	19th.					
	County County	to 40.3 inches	s in Bucks ( leficit came	County. The of in the second	deficiencies ran d half of the ye	nged fro	om 4.2 inche	s in Buc	ks County to 13.1	inches in Philadelphi inches in Philadelphi ernational Airport wa
PAZ054-054>055-055- 060-060>061-061>062- 062-067-067>068- 068>069-069>070- 070>071-071	Carbo	on - Monroe	- Berks - I	Lehigh - No	rthampton -	Chest	er - Montg	omery ·	- Bucks - Delawa	re - Philadelphia
	01 06	0800EST 1800EST			0	0	0	0	Unseasonably W	arm
	record temper frontal temper in Crut 71 deg	breaking warm ratures were set passage on th ratures included m Creek (Delaw	n weather fr on the 1st, 4 ne 7th brought d 75 degree ware County con (Carbon	om Novembe 5th and 6th in ght readings s in Neshami ), Doylestowr County), 70	r 30th through many location closer to seas ny Falls (Buck 1 (Bucks Count	Decent s with h onal lev s Count ty), Rea	ber 6th in I high temperativels. The w ty), 73 degre ding (Berks	Eastern P tures read armest d es in Pot County)	ennsylvania. Daily shing well into the 6 ay for most areas tstown (Montgomer and the Philadelphia	aght unseasonably an record breaking hig i0s and the 70s. A col was the 5th. Higher y County), 72 degree a International Airpor ie (Bucks County), 6
PAZ054>055	Carbo 08	on - Monroe 1300EST			0	0		0	Wintry Mix	
	develo betwee Tennes afterno higher overnig The Pe Accum	ped on the from on 1 and 3 inc seee Valley the bon on the 8th. <sup>3</sup> terrain, the sno ght and ended be ennsylvania Sta uulations includ	ntal bounda hes. This w morning of The snow n bw changed before 6 a.m te Police in ed 3 inches	ry, precipitati vas the first n the 8th to ju- nixed with rai to freezing ra . EST the mo Swiftwater ( in Albrights	on fell as a w measurable sno ist south of Ca n over some of in during the of northern Mon ville (Carbon (	vintry m ow of the ape Code f the source evening h. Slipp roe Cou County)	hix over the he season. The l the mornin uthern valley of the 8th. ery condition nty) respond , Canadensis	Poconos The weak g of the vs during A mixtur ns on sno led to 26 s (Monro	. Snowfall accumu c low pressure syst 9th. Snow began f the late afternoon a re of light rain and w covered roads co accidents (that ca	wave of low pressur lations were generall tem traveled from the alling during the earl and evening. Over the light freezing rain fe untributed to accident used 8 injuries) along cono Summit (Monro lsburg.
PAZ055	Monr				0	0		0	г . р.	
	17	0500EST 1230EST			0	0		0	Freezing Rain	
	freezin near th	g rain mainly d ne surface while	uring the me the warm	orning of the front brought	17th in Monro in warmer air	e Count (above	y. The high freezing ter	pressure nperature	system provided su	to produce some ligh bfreezing temperature ination led to freezin pery.
PAZ071	Phila 28	delphia 0000EST			0	0	0	0	Snow Drought	
	When season	no snow fell in	e of snow h	had fallen by	r 27th, it was t the 27th of De	he latest cember.	t into the wir	nter seaso	on that it did not sno	w in the city. All other er 27, 1990. Snow di
PAZ054-061	Carbo 28	on - Lehigh 1300EST 2000EST			0	0		0	Snow Showers	
	under slipper Hill an	showers preced an inch. But, tl y roads were re d Lansford for	ne afternoor eported in Se an hour. A t	n snow showe ummit Hill, L truck slid side	ers melted and ansford and Pe ways on Penns	then fr enn Fore sylvania	oze on untre est. Pennsylv State Route	eated roa vania Stav 902 in N	dways as the sun s te Route 902 was c lesquehoning. In Le	y. Accumulations were et. In Carbon County losed between Summinigh County, police slippery conditions.
PAZ054>055-060>062-	Carb	on - Monroe	- Berks - I	Lehigh - No	rthampton -	Chest	er - Montg	omery ·	- Bucks - Delawa	re - Philadelphia
067>071	31	<b>2359EST</b> iber 2001 was			0	0	0	0	Unseasonably <b>W</b>	arm

				<b>D</b> 4					
		Time Local/	Path Length	Path Width	Numb Perso		Estimated Damage		December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Cro	ps Character of Storm	
PENNSYLVANIA, E									
	Airpoi Airpoi	t was 43.7 deg	grees and wa rees and was	is 7.9 degrees 6.4 degrees	s above norn	nal. The	monthly mean te	n temperature at the Ph emperature at the Lehig perature at Reading Reg	h Valley International
PENNSYLVANIA, N						_			
PAZ038>040-043>044	Brad 08	ford - Susque 1300EST	ehanna - W	ayne - Wyo	oming - Lao 0	ckawar 0	ina	Heavy Snow	
	09	0100EST			Ū			·	
	Jersey across	coast early on the higher elev	the 9th. Thy ations. Low	is was the finver elevations	st significant and areas fu	t event o rther sou	of the season. Sno	t Virginia the afternoon owfall amounts were in ern Wayne and southerr in.	the 4 to 6 inch range
PENNSYLVANIA, N	orthwe	est							
PAZ002>003		ern Erie - C	rawford		0	0		н с	
	20 21	1500EST 0900EST			0	0		Heavy Snow	
	inches		in northern C	Crawford and	southern Erie	e Counti	es by midnight. T	ring the evening hours. The snow showers gradu	
PAZ001>003	Nortl	nern Erie - So	outhern Er	rie - Crawfo					
	28 30	1100EST 1800EST			0	0	850K	Heavy Snow	
	northw and Cr maxim accum	vesterly spreading rawford Countient rum of 11 inch rulations of five	ng the heavy es. An addit es in inland inches or le	snow into Cr ional six to e Erie County ss. Snowfall	awford Coun ight inches o . The snow totals for the	ty. Day f snow f shower e three d	time accumulation cell from the eveni s gradually dimin lay storm ranged f	the day on the 29th, t s of up to 14 inches we ng of the 29th to daybr ished on the afternoon rom just over six inche Erie International Airp	re reported in both Erie eak on the 30th with a of 30th with daytime s in southern Crawford
PAZ001	North	nern Erie							
	31	0100EST 1600EST			0	0	50K	Heavy Snow	
		rly flow across ong and near La						early morning hours. C lly, 6.1 inches of snow f	
PENNSYLVANIA, W	est								
PAZ007>009-013>016-		er - Venang	o - Forest	- Lawrenc	e - Butler	- Clar	ion - Jefferson	- Beaver - Allegh	eny - Armstrong -
020>023-029>032	India 14	na - Washing 1730EST	gton - West	tmoreland -	Greene - I	Fayette	75K	High Wind (G5	0)
		2130EST			U	U		J V	,
	-	winds associate n Pennsylvania		ep area of lo	w pressure p	assing o	ver the region do	wned numerous trees a	nd power lines across
PUERTO RICO									
Central Interior	02	1200 4 8 T			0	0		Tatm Wind/Hai	
Orocovis	02	1300AST 1400AST			0	0		Tstm Wind/Hai	I
	Emerg	ency managers	reported pea	size hail near	r Botijas secto	or in Oro	ocovis.		
Central Interior		1700 4 67			0	0			
Ciales	02	1500AST 1600AST			0	0		Urban/Sml Stre	am fid
	Emerg	ency Managers	reported that	t Rio La Vaja	in Ciales we	ent out o	f its banks floodin	g nearby areas.	
Mayaguez And Vicinity		4 400			~	c.			
Моса	03	1400AST 1500AST			0	0		Hail (0.75)	

		Time Local/	Path Length	Path Width	Num Pers	ber of	Estima Dama			December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
PUERTO RICO										
	Emerg	gency Managers	reported larg	ge hail, fallen	trees and an	electric p	ole on the g	round nea	r Maria sector in Mo	ca.
Northeast										
West Portion	04	2100AST 2300AST			0	0			Urban/Sml Strea	m Fld
San Juan And Vicinity		<b>3100</b> 4 GT			0	0				
Countywide	04	2100AST 2300AST			0	0			Urban/Sml Strea	m Fld
	•		-		oor drainage	e areas in	parts of Car	olina, Loi	za, San Juan and Gua	ynabo. Puerto Nuevo
Mayaguez And Vicinity										
San German	17	1400AST			0	0			Urban/Sml Strea	m Fld
	A	1600AST	aan namantad	anound 2 in ak	as of main and	d atmost fl	andina			
	-	tter in San Gern	lan reported	around 2 men	es of rain af	ia street fi	ooding.			
Mayaguez And Vicinity		1200 4 67			0	0			Ush sa /Saal Stars	
Countywide	21	1200AST 1600AST			0	0			Urban/Sml Strea	m Fla
San Juan And Vicinity										
Countywide	21	1200AST 1600AST			0	0			Urban/Sml Strea	m Fld
Northeast	urban		m flooding o			-				. This activity caused itan Area many roads
Naguabo	21	1500AST			1	0			Heavy Rain	
	A 19 y	1530AST year old male w	as at a family	picnic along	Blanco Riv	er in Nagu	abo, when a	ı sudden v	vater rush swept him	away. M19IW
Eastern Interior	-	·	5	1 0		U	*		1	2
Countywide	22	0700AST			0	0			Flash Flood	
·		2200AST								
North Central	22	0700 4 8 T			0	0			Flack Flood	
Countywide	22	0700AST 2200AST			0	0			Flash Flood	
Northeast										
Countywide	22	0700AST 2200AST			0	0			Flash Flood	
San Juan And Vicinity		0700 A CT			0	0	20012			
Countywide	22	0700AST 2200AST			0	0	300K		Flash Flood	
	interm was s water, went o	l front became s hittent showers of San Juan, wher major roads w	over the nort e several sec ere impassal s and in Truj	h sections of ctors suffered ble and a brid jillo Alto and	Puerto Rico extensive f ge collapsed San Lorenz	producin looding. in Caroli to some re	g between t Many hous na. Several i bads were b	hree to fo es in Barr oads in V locked by	ur inches of rain. T rio Obrero and Cono ega Alta were impas landslides. In add	ortheast winds caused he area most affected lado were filled with sable as Cibuco River tion, many cars were

#### RHODE ISLAND

#### NONE REPORTED.

### SOUTH CAROLINA, Central

Edgefield County Colliers	17	2012EST	0	0	0	0	Thunderstorm Wind (G50)
	Sheri	ff reported some trees down no	ear hwys 230 and 23.				
Aiken County		r					
North Augusta	17	2022EST	0	0	0	0	Thunderstorm Wind (G50)
Ū	High	way Patrol reported a couple o	f trees down near North A	ugusta oi	n I-20.		

		Time	Path Langth	Path	Numl			nated	December 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	ions Injured	Dan Property	age Crops	Character of Storm
SOUTH CAROLIN	A, Cent	ral							
Lexington County									
Pelion	17 Sherit	2033EST ff reported a cou	inle of trees	down in the P	0 alion area	0	0	0	Thunderstorm Wind (G50)
Lexington County	Shern		ipic of trees		chon area.				
Irmo	17	2040EST	1.6.4	1 1	0	0	0	0	Thunderstorm Wind (G50)
		ff reported a cou	ple to trees	down in the R	idgemont su	bdivision	of Irmo.		
SOUTH CAROLIN	<u>A, Nort</u>	<u>h Coastal</u>							
	NON	E REPORTED.							
SOUTH CAROLIN	A, Nort	hwest							
SCZ001>014-019									Oconee - Greater Pickens - Greate
	Gree 01	nville - Spart 0000EST	anburg - (	Cherokee - Y	York - And 0	lerson - 0	Abbeville	e - Laure	ns - Union - Chester - Greenwood Drought
	31	2359EST			Ū	0			Drought
									becoming critically important to more an d across all of Upstate South Carolina.
Laurens County	more	people. Record	low ground	water supplies	, lake levels,	and sired	un nows w	ine reportes	a actoss an or opside bount caronna.
3 W Gray Court	17	1830EST			0	0			Thunderstorm Wind (G50)
·	2 trac	1838EST	we coross r	ooda Troos ol	ic reported d	own in ot	har parts of	the count	a
	5 tiee	s were blown do	JWII across fo	bads. Trees an	so reported d	own in ot	ner parts of	the county	y.
Anderson County 8 E Anderson	17	1830EST			0	0			Thunderstorm Wind (G50)
o El Anderson		s were blown do	own.		Ū	v			
Union County									
5 W Union	17	1905EST		40 <b>m</b>	0	0			Thunderstorm Wind (G50)
	2 tree	s were blown do	own along H	wy 49 near Ty	ger River. A	nother tre	ee was bloc	king US 27	76.
Union County	17	1916EST			0	0			Thundowstown Wind (C50)
6 E Union		s were blow dow	vn.		U	U			Thunderstorm Wind (G50)
Chester County									
Lowrys	17	1948EST			0	0			Thunderstorm Wind (G50)
	4 tree	s were blown do	own across r	oads.					
SOUTH CAROLIN					. D	• •			
SCZ040-042>045- 047>050		idale - Hamp rleston	oton - Nor	thern Colle	ton - Doro	chester -	- Berkele	y - Jaspe	er - Beaufort - Southern Colleton
017 000	01	0000EST			0	0			Drought
	31 Mada	2359EST	nditions con	tinuad avan a	outh accetal	South C	malina Ea	the month	-
		continued mon						the monu	h, rainfall was 1.43 inches below norma
SOUTH DAKOTA,	Centra	l and North							
	NON	E REPORTED.							
SOUTH DAKOTA,									
		E REPORTED.							
SOUTH DAKOTA,		L D1 . 1 T	211. NT. 4	hann Frad P	<b>1911</b> -				
SDZ024>025	Nort 01	hern Black H 1620MST	uus - Nort	nern Foot H	lills 0	0	0		High Wind (G70) <sup>M</sup>
	An u	2134MST	nd event oc	wrad this day	as strong	outhwast	arly low la	val winde	combined with a strong surface pressur

An unusual high wind event occured this day as strong southwesterly low-level winds combined with a strong surface pressure gradient to produce high winds. High wind events usually occur behind a cold front with strong northwest winds developing, southwest winds of this magnitude have not been noted over this area for several years.

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
SOUTH DAKOTA, W	Vest								
SDZ025	03	hern Foot Hill 0412MST tter in the foothil		pearfish meas	0 sured a wind	0 gust of 8	<b>0</b> 34 mph.	High Wind (G73)	М
SDZ001-013-031	Hard 22	ling - Meade ( 0955MST 1353MST	Co. Plains	- Penningto	on Plains 0	0	0	High Wind (G51)	м
		ong cold front m						nd this front, the surface and boundary layer	
SDZ013-031	26	le Co. Plains - 1056MST 1255MST	0		0	0	0	High Wind (G50)	
6D7034	-	•	•	eveloped ben	ind a cold fro	ont. Susta	ained winds reached 4	10 mph with gusts to 5	8 mpn.
SDZ024	Norti 28	hern Black Hi 0800MST 1300MST	115		0	0	0	Heavy Snow	
	the me		nulated to s					er the northern Black the afternoon as wind	
<b>FENNESSEE, Centra</b>	1								
TNZ005>006-022	Stewa 12	art - Montgon 1655CST 2000CST	nery - Ben	iton	0	0		Flood	
	Highw		eported that	the intersecti	on of Rorie F	Road and	Indian Mound Road	was closed due to high	n water.
TNZ094>095	Lawı 13 14	rence - Giles 2100CST 0300CST			0	0		Flood	
<u> TENNESSEE, East</u>			g over low v	water crossing	s on some m	inor road	ls around the county.		
TENIVESSEE, East									
	NONI	E REPORTED.							
<u>TENNESSEE, West</u> TNZ019-050	Dvor	- Haywood							
1112017-030	01 03	0001CST 2359CST			0	0	15K	Flood	
	Flood	ing continued act	ross parts of	West Tennes	ssee from the	end of N	lovember.		
TNZ049>050-052-088	12	on - Haywood 0950CST 1830CST roads were under		ı - Shelby	0	0	4K	Flood	
<u> FEXAS, Central</u>	11100	Touch were und	or water.						
	NONI	E REPORTED.							
<b>FEXAS, Central Sout</b>		L KLI OKTED.							
Brazoria County	ncast								
5 SW Brazoria to 3 SW Brazoria	12	0220CST 0225CST	1.5	75	0	0	200K	Tornado (F1)	
		Tornado touche						Oak Ranch Subdivisi and boats in its parkir	

An F1 fornado touched down 5 miles southwest of Brazoria. Several nomes in the Lazy Oak Ranch Subdivision on CR 461A had roof damage. A machine shop on CR 461 sustained heavy damage, along with the cars and boats in its parking lot. There were no injuries. Numerous trees were down from the San Bernard River to the Lazy Oak subdivision. Reported by Emergency Management.

#### Storm Data and Unusual Weather Phenomena Path Time Path Number of Estimated December 2001 Local/ Length Width Damage Persons Standard Killed Property Character of Storm Location Date (Miles) (Yards) Injured Crops **TEXAS, Central Southeast Brazoria County** Brazoria 12 0230CST 1 30 0 0 200K Tornado (F0) 0233CST An F0 Tornado touched down in the city of Brazoria. There was roof and structural damage to homes and businesses, in a 10 block area, along TX Highway 36 in Brazoria. A 175 foot internet tower was blown down, signs were bent over, and minor roof damage to Brazoria Elementary school. No injuries. Reported by Emergency Management Liberty County 1110CST 0 0 0 Hail (0.75) Dayton 13 0 Liberty Sheriff reported 3/4 inch hail near Dayton, at Raywood and on State highway 321. San Jacinto County 1 NE Pointblank to 16 1729CST 3 200 0 2 2.5M Tornado (F2) **4 NE Pointblank** 1732CST An F2 Tornado touched down at the Point Lookout West Estates. There were 2 minor injuries. 15 homes were destroyed, with 15 to 20 other homes receiving major damage. Trees and power lines were down. Reported by the Sheriff's office. **Montgomery County** 1944CST 0.1 70 0 0 30K Willis Tornado (F0) 16 An F0 Tornado touched down in Willis, along Montgomery Street, on FM 1097. Trees were uprooted, power lines were snapped with power outages in town, and there was minor roof damage to some homes. There were no injuries. Reported by Sheriff and public. TEXAS, Extreme West NONE REPORTED. TEXAS, Mid - South NONE REPORTED. **TEXAS**, North **Ellis County** 0034CST 50K 0 **Flash Flood** Ennis 16 0 1334CST County roads began to flood just after midnight. County roads crews were out until 0500 am putting up barricades where roads were flooded. Roads crews had to go out again and put up more barricades through early afternoon. 17 roads remain closed in the county through 134 pm. Substantial damage occurred to four bridges. **Ellis County** 0105CST 0 Palmer 0 **Flash Flood** 16 Widespread street flooding was reported in Palmer, and numerous county roads flooded in surrounding areas. Kaufman County 0430CST Terrell 16 0 0 **Flash Flood** 0600CST Highway 80 between Terrell and Forney was flooded. A storm spotter in the area reported 6.6 inches of rain. Also, FM 148 between Highway 80 and Interstate 20 was flooded and closed. Lamar County Pattonville 0530CST 0 0 **Flash Flood** 16 FM 2715 at Pattonville creek closed due to flooding. Surrounding county roads were also closed due to flooding. Leon County 0910CST **Flash** Flood 0 0 Jewett 16 Highway 9 at Jewett was covered with high water. **Rains County** 0910CST 0 **Flash Flood** Emory 16 0 FM 275 north of Emory was closed due to high water. **Hopkins County Flash Flood** 0913CST 0 Weaver 16 Water was over several farm to market roads in the eastern part of the county. **Delta County**

0920CST 0 16 County roads 1529 and 71 were closed due to high water.

Cooper

A

**Flash Flood** 

		Time Local/	Path Length	Path Width	Number Persor		Estimated Damage		December 2001
Location	Date	Local/ Standard	(Miles)	(Yards)		njured	Property Crops	Character of Storm	
TEXAS, North									
Dallas County	16	0020CGT			0	0			
Dallas	16	0930CST	1	11	U 	0		Flash Flood	
Hunt County	Nume	erous streets in t	ne city of Da	mas were clos	ed and barrica	aea au	e to nigh water.		
Quinlan	16	0936CST			0	0		Flash Flood	
Quiman		way 75 at Quinla	an was closed	due to high y		U		Flash Flood	
Hunt County	Inghv	way 75 at Quilla	all was closed	i due to ingli v	water.				
Caddo Mills	16	1030CST			0	0		Flash Flood	
Caddo Milis			nd Caddo M	ills that cross	Brushy Creek	-	losed due to high wate		
		•					d due to flooding.		
Mclennan County		-,, 8	, <b>,</b> ,	8			6		
Crawford	16	1030CST			1	0		Flash Flood	
	A nin	e year old boy d	lrowned as he	e was attempti	ng to abandon	a vehi	cle at a low water cros	sing. M9VE	
Navarro County				1	0			ç	
Blooming Grove	16	1030CST			0	0		Flash Flood	
0	Sever	al county road b	oridges were	destroyed by h	nigh water.				
Navarro County		-	•		-				
Corsicana	16	1245CST			0	0		Flash Flood	
	The In	nterstate 45 serv	vice road nort	h of Corsican	a was flooded,	numer	ous secondary roads v	vere flooded, and FM	1839 was flooded.
Kaufman County									
Kaufman	16	1250CST			0	0		Flash Flood	
	Count	ty roads 2578, 1	390, 306, and	d 149 were flo	oded. Severa	l people	e had to be rescued fro	om vehicles on count	y road 149.
Rockwall County									
Royse City	16	1419CST			0	0		Flash Flood	
	The s	ervice road on th	he north side	of Interstate 3	30 was closed	due to l	high water.		
Lamar County									
Paris	16	1440CST			0	0		Flash Flood	
	Nume floode		e closed in a	nd around Pa	ris, Pattonville	, and a	cross the county. Th	e beaver creek additi	on north of Paris was
Delta County									
Cooper	16	1445CST			0	0		Flash Flood	
	FM 2	24 remains close	ed from Coop	per to the Hun	t County line.				
Hunt County									
Greenville	16	1445CST			0	0		Flash Flood	
			s 276, 354, a	nd 1565 rema	ined closed du	ue to fl	ooding. Highway 380	) west of Greenville	remains closed due to
	floodi	ng.							
Henderson County									
Tool	16	1452CST			0	0		Flash Flood	
	Seven	county roads of	n the west sid	de of Cedar C	reek Lake are	flooded	l.		
Kaufman County									
Terrell	16	1547CST			0	0		Flash Flood	
	A slo Sunda count Many	w moving storr ay December 16 y and farm to m	m system dro oth. Unofficionarket roads were closed N	opped heavy al reports of a were closed a Monday Decer	rain across No four to ten inc prolonged per	orth Ce hes of iod of	rain fell in 48 hours a time, due to sections of	night, December15 along and east of Int of roadways and brid	h and during the day erstate 35. Numerous ges being washed out. ldren due to closed or
TEXAS, North Panh	andle								
TXZ006>007-011		ley - Moore -	Oldham						
	20	0600CST			•	•		Hoovy Snow	

# 30 0600CST 0 Heavy Snow 1800CST A strong low pressure system in the upper atmosphere over the southwestern states moved eastward and approached the Oklahoma

and Texas panhandles. A cold front moved through the panhandles ushering in colder canadian air. Snow began falling during the late night and early morning hours with accumulations for the most part in the one to three inch range. However...snowfall totals of around four inches were reported in the extreme western Texas panhandle by the time the snow ended during the afternoon and early evening hours. Hartley...Duras...and Vega all reported four inches of snow.

	_	Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
TEXAS, Northeast									
Shelby County									
Center	12 FM 13	0957CST 38 just west of c	enter was flo	oded and had	0 1 to be barric	0 aded cau	sing traffic to detour.	Flash Flood	
<b>Bowie County</b>		5					U		
Texarkana	15	2000CST			0	0		Flash Flood	
		erous cars stalled	l in high wat	er. People ha	d to be rescu		car roof tops.		
Titus County									
Mt Pleasant	16	0840CST			0	0		Flash Flood	
		dge was washed s were not avail		46 and 140	2. Highway	s 15, 26,	9, and 38 were also	flooded. The type of	of bridge and damage
Gregg County									
2.7 NW Judson to	16	1732CST	1.4	25	0	0		Tornado (F0)	
3 NNW Judson		1734CST ak tornado devel red away from a				pidly no	rth northeast. Damage	e was confined to tree	e limbs and brush and
Wood County									
Quitman	16 Water	1805CST covering Hwy 3	37 and many	Farm to Mar	0 ket roads clo	0 sed.		Flash Flood	
Franklin County									
Mt Vernon	16 Hwy 3	1815CST 37 flooded and c	closed due to	flooding.	0	0		Flash Flood	
<b>Red River County</b>									
Bogata	16	1820CST			0	0		Flash Flood	
0	Highv	vays 410, 909 ar	nd 1487 close	ed due to floo	oding.				
<b>Gregg County</b>									
White Oak	16 Watle	1930CST by Road and port	ions of Old I	Hwy 80 close	0 d from floodi	0 ing.		Flash Flood	
<b>Bowie County</b>									
Texarkana	16 Sever	2105CST al major roads c	losed in town	n. Cars stalle	<b>0</b> d on Hwy 67	<b>0</b>		Flash Flood	
Titus County									
Mt Pleasant	16	2115CST			0	0		Flash Flood	
	Nume	erous roads flood	led and close	ed including I	FM127 and C	County Ro	oads 8, 9, 15, 4540.		
Panola County									
Carthage	16 Flood	2135CST ing along highw	avs 79, 149.	and 315.	0	0		Flash Flood	
TEVAS South	11000	ing wong ingin,	ujo / ), 1 (),	und 0 101					
<u>TEXAS, South</u> TXZ248>255	Zapa	ta - Jim Hog	g - Brooks	- Kenedy -	Starr - Hie	dalgo - `	Willacy - Cameron	l	
	01 31	0000CST 2359CST			0	0		Drought	
	As the count droug norma and 10	e year 2001 cam ry of Brooks, jin ht conditions co al. Rainfall totals 0th driest years	m Hogg and ntinued thro s the previou since records	Kennedy co ough the end is year at Bro s began in 18	unties did re of the year v wnsville wer 71. Rainfall a	ceive abo vith Brov re only 1 amounts	ow normal rainfall for ove normal rainfall fo vnsville only reporting 6.48 inches. As a resu across the Valley rang Is for selected cities an	r the month of Decer 5 16.74 inches, which lt, 2000 and 2001 wi ed from 5 to 10 inch	mber 2001. Moderate a is 9.87 inches below ill go down as the 9th
	Harlir Mcall	nsville16.74 in ngen21.94 inch en19.44 inche Mansfield14.97	neswhich is a swhich is a	s 5.59 inches 3.96 inches be	below norma elow normal.	d.			

Raymondville...21.42 inches...which is 6.15 inches below normal.

Zapata...13.58 inches...which is 6.14 inches below normal.

		Time	Path	Path	Numbe	er of	Estima	ted		December 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Dama; Property	ge Crops	Character of Storm	
TEXAS, South						5				
<u>I EAAS, South</u>	Falcor	n Dam16.52 in	cheswhich	is 4.93 inche	s below norm	al.				
<b>FEXAS, South Cen</b>	<u>tral</u>									
	NONE	E REPORTED.								
<b>FEXAS, South Pan</b>		E REFORTED.								
TXZ021>044		ner - Castro	- Swisher	- Briscoe -	Hall - Chi	ildress	- Bailey -	Lamb	- Hale - Floyd ·	- Motley - Cottle
	Coch 01	ran - Hockley 0000CST	- Lubboc	k - Crosby	- Dickens - 0	King -	Yoakum -		Lynn - Garza - Drought	Kent - Stonewall
	31	2300CST							0	1. 1. 501
										bleted. These reports age due to the drough
										ue of all crops in 2001 ed hot and dry weathe
		ccurred during th					and crops we	ie nardet	a int of the protong	ed not und dry wedne
	Cottor	n is the dominan	t crop in thi	s region of the	e state, and no	ot surpris	singly, it acco	ounted fo	or roughly 70 percer	t (\$300 million) of th
								-		and corn (\$12 million illion across the South
	-	area this year.			,					
<b>FEXAS, Southeast</b>										
Newton County 10 NE Newton	13	0930CST			0	0	5K		Thunderstorm <b>'</b>	Wind
	A few	trees were blow	'n down.							
Jasper County	12	1102007			0	0	-17			
Roganville	<b>13</b> 55 gal	1102CST lon drum filled	with corn blo	own over by w	vinds estimate	<b>0</b> d of 62 :	5K mph. Power l	lines wer	Thunderstorm V e also blown down.	wind (G54)
Newton County										
Newton	13	1118CST			0	0			Hail (0.88)	
Hardin County 2 N Silsbee	13	1220CST			0	0	5K		Thunderstorm <b>'</b>	Wind
2 IN SHSDEE		blown down acr	oss road.		Ŭ	v	JA		1 nunder stor m	,, ind
Tyler County										
Spurger	16 Severe	2155CST e thunderstorm y	vinds destro	ved a hav barr	0 1. damaged th	0 e roof to	20K a house, and	1 snapped	Thunderstorm I the tops of trees of	
Jasper County				,	-,8					
Kirbyville	16	2215CST			0	0	25K		Thunderstorm	
	Severe		vinds blew	down many	trees, one of	which	landed on th	ne roof a	home, causing mo	oderate damage to th
Newton County										
Bleakwood	16 Trees	2220CST were blown dow	n in the Ble	akwood area	0	0	2K		Thunderstorm V	Wind
TEXAS, West	filees	were blown dow	in in the ble	akwoou area.						
<u>TEAAS, west</u>										
	NONE	E REPORTED.								
<u> FEXAS, Western N</u>	orth									
	NONE	E REPORTED.								
UTAH, East										
UTZ028		al & Abajo M	ountains		Δ	Δ			Haar C-	
	04	1530MST			0	0			Heavy Snow	

		Time Local/	Path Length	Path Width	Number Persons	8	Estimated Damage			ber 200
Location	Date	Standard	(Miles)	(Yards)	Killed In	jured	Property C	Crops	Character of Storm	
<u>UTAH, East</u> UTZ023>025-028	14 15 A stroi	0600MST 2300MST	n produced 6	5 to 9 inches of	<b>0</b> of snow in the 1	0 nountai	ins and 3 to 5 i	nches i	& Abajo Mountains Winter Storm n the eastern Uinta Basin. Win now.	nds of 20 to
UTZ022-028	29 30 A mois	heast Utah - I 1800MST 1200MST ist northwest flo east corner of Ut	ow produced	U	0	0 in the so	outheast moun	tains ar	Heavy Snow and 3 to 5 inches at lower eleva	tions in the
<u>UTAH, West and Cen</u> UTZ001>004-006>008	Cach								n Bountiful - Salt Lake A /alleys/Huntsville/Park C	
		satch Mounta							ancys/fruntsvint/f ark C	ity/fiebei
	02 07	1200MST 1200MST			0	0	50K	10K	Winter Storm	
	A serie in Too	es of fast movin bele on the 2nd,	damaging fe	nces and know	cking down tree	es. Som	e of the heavie	r snow	Northern Utah. Winds gusted o fall totals for the 5-day period ber City and 16 inches in Lake	included 57
UTZ002>003-005>008	Deser		untains/We	endover/Sn	owville - W	asatch	n Mountain		Toole Valleys - Great S eys/Huntsville/Park City	
		1100MST 1800MST er strong storm lleys and bench						ns picke	Heavy Snow ed up 10-20 inches of fresh por	wder, while
VERMONT, North a		•	C							
Addison County										
Countywide	06	0800EST 1400EST			0	0			Gusty Winds	
Chittenden County										
Countywide	06	0800EST 1400EST			0	0			Gusty Winds	
Franklin County										
Countywide	06	0800EST 1400EST			0	0			Gusty Winds	
Grand Isle County										
Countywide	06	0800EST 1400EST			0	0			Gusty Winds	
Lamoille County										
Countywide	06	0800EST 1400EST			0	0			Gusty Winds	
<b>Rutland County</b>										
~	06	0800EST 1400EST			0	0			Gusty Winds	
Countywide		my storm system	n moved acr						busty winds occurred with pas ported wind gusts over 34 mph	
Countywide	associa few w (Chitte	ated cold front of vind gust report	ts included: and 37 mph	On Lake Ch	amplain, Colcl	hester F	Reef reported	a gust	of 50 mph (40 kts), Burling mph (31 kts). North Clarendo	ton Airpor
Countywide VTZ011>012	associa few w (Chitte county	ated cold front ov vind gust report enden county) h	ts included: had 37 mph 30 kts).	On Lake Ch	amplain, Colcl	hester F	Reef reported	a gust	of 50 mph (40 kts), Burling	ton Airpor

A storm system moved from the Tennessee Valley region on Saturday, December 8th to off the New Jersey coast during the night of December 8th. This system continued out to sea, passing south of New England on Sunday morning, December 9th. Light snow fell across this area with total accumulations 3 to 5 inches. A few reports included: In Rutland county, both East Wallingford and the city of Rutland received 4 inches. In Windsor county, Cavendish reported 4.8 inches while Ludlow received 4.9 inches. Numerous

St	tori	n Data	a and	Unus	ual W	eat	her Phe	nomena
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Persor Killed I		Estimated Damage Property Crop	December 20 s Character of Storm
VERMONT, North an				1' 11' 1				
VTZ001>002-007>010		obile accidents d Isle - Fran	-		•	ddison	- Orange	
V 120012 002-0072 010	14 15 An arc Englau rain q Accum (Frank	<b>1800EST</b> <b>0600EST</b> the of low pressund the night of tuickly changed nulations were	the 14th. The to wet snow generally 2 ceived 4 inc	Ohio Valley F e storm system w across the a to 5 inches. A hes. Waitsfiel	0 Friday morning a then continue area Friday ev A few reports d (Washingto	0 d east a ening (l include n count	<b>10K</b> nber 14th, moved nd moved offshore December 14th) a d: Sutton (Caledo y) reported 4 incl	Light Snow northeast and reorganized over southern N e by Saturday morning, December 15th. L nd tapered off to flurries Saturday morn nia county) 5.4 inches while Enosburg F hes. It was a very wet snow. A few mi
VTZ003>006	14 15 An are Englaa rain qu Accum Chitte reporte	nd the night of t nickly changed nulations were g nden county, E	the over the the 14th. The to wet snow generally aro Burlington Ai hile East Ha	Ohio Valley F e storm system across the are und 6 inches, irport (NWS) ven reported 5	0 Friday morning a then continue a Friday even with isolated l reported 4.5 ir i inches. In Or	ed east a ing (Dec nigher an iches wh leans co	nd moved offshord rember 14th) and t nounts in the mou nile Underhill repo unty, East Albany	Light Snow northeast and reorganized over southern N e by Saturday morning, December 15th. L apered off to flurries early Saturday morn ntains. A few of the highest amounts were rted 6.7 inches. In Essex county, Island P reported 7 inches, while Greensboro recei
VTZ011>012	Rutla 17 18 An are to off mornin inches	and - Windso 0900EST 0600EST ea of low pressu the southern I ng. The snow c	r ne over the 0 New England changed to fr s included: I	Ohio Valley N d coast Tueso reezing rain d n Rutland cou	0 Monday, Decer lay morning, uring the even unty, The City	0 nber 17t Decemb ing hour of Rut	h moved to the No er 18th. Light sn rs then back to all land reported 5 in	Light Snow ew Jersey coast the night of the 17th and t ow spread north across the area during snow. Accumulations were generally 2 t ches while East Wallingford only 1 inch
VTZ001>003-005>006- 008>009	Gran	d Isle - Fran	klin - Orle	ans - Chitte	nden - Lam	oille - V	Washington - A	ddison
UUUF UU7	to off afterno few re Orlear	the southern I oonmixing wi ports included:	New England th freezing r In Addison vport report	d coast Tueso ain during the county, Cornv ed 5.5 inches	lay morning, evening hour vall reported 5	Decemb s then ba .8 inches	er 18th. Light sn ack to all snow. A s while in Chittend	Light Snow ew Jersey coast the night of the 17th and t ow spread north across the area during ccumulations were generally 3 to 6 inches den county, Hanksville reported 4.8 inches agton county). Numerous minor automo
VTZ004-007-010	17 18 An are to off afterno few re	the southern I oonmixing wi ports included	the freezing r In Caledon	d coast Tueso ain during the iia county, W	lay morning, evening hour aterford receiv	Decemb s then ba ved 5.8	er 18th. Light sn ack to all snow. A	Light Snow ew Jersey coast the night of the 17th and t ow spread north across the area during ccumulations were generally 4 to 6 inches Drange county, both Chelsea and Brookf
VTZ003>004-006>008-	•	ed 6 inches. The					inge - Windsor	
010-012	New I	England and mong hours. Slipp	oved east on	Monday, De	cember 24th.	Light fro	eezing rain and fro	Light Freezing Rain nother storm system organized over south eezing drizzle fell during the night and e reported, with the most being in Caledo
VTZ003>004-006>008	2	ns - Essex - 1 1200EST 0900EST	Lamoille -	Caledonia -	Washingto 0	n 0		Light Snow

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Perso Killed		Estimated Damage Property Crops	Character of Storm	December 200
VERMONT, North a	nd Cen	ntral							
	A stor moistu accum	m system over t are across the r sulations general	orthern Gro ly 3 to 6 inc	een Mountains hes. A few rep	s of Vermor oorts included	t. Light : In Cale	snow fell across	rn Great Lakes region, north central and nor on received 7 inches whee.	theast Vermont, wit
/ <u>ERMONT, South</u> VTZ013>014	<b>09</b> An are This lo Decent accum	ow had lots of s nber 9th. The a	re develope ubtropical n ir was cold treme south	noisture to wor enough for a	rk with, as it ll snow acro	moved e ss south	east along the front ern Vermont. A	Winter Storm e Mason-Dixon Line, l , then off the Mid Atla band of heavier sno Bennington County and	ntic coast by Sunday wfall, 4 to 8 inche
VIRGIN ISLANDS									
	NONE	E REPORTED.							
<u>VIRGINIA, East</u> VAZ093		)f Wight 0315EST			0	0	15K	High Wind	
	High v	winds with the p	assage of a o	cold front turn	ed camper up	side dow	n and ripped siding	g off of house in the Sr	nithfield area.
VIRGINIA, North VAZ021	Highl							~ <b></b>	
					0 ore sunrise o	<b>0</b> n the 20	th. Gusty winds o	Strong Wind f 35 to 50 MPH were	ushered in behind th
VIRGINIA, Northwe VAZ003>004	e <u>st</u> Dicke 01	enson - Bucha 0000EST	U	nemoon.	0	0		Prolong Warmth	ı
							, 0	in the 50s and 60s rrive by Christmas.	were common. Joh
	st								
VIRGINIA, Southwe		con				0	0	High Wind	
VIRGINIA, Southwe VAZ015	Gray: 20	0400EST			0	0	0	0	
	Grays 20	0400EST 0600EST	predawn ho	ours of the 20th			s in Grayson Count	0	
VAZ015 WASHINGTON, No	Grays 20 High v rtheast	0400EST 0600EST winds during the	•		n downed sev			0	
VAZ015	Grays 20 High v rtheast	0400EST 0600EST winds during the	•		n downed sev			0	

of trees and numerous power lines. Some trees fell on homes, causing mostly minor structural damage. The hardest hit area was in a corridor from Wellpinit to Springdale to Newport. In Pend Oreille County, three-quarters of the county lost electricity. Some residents were without power for around a week, and utility crews compared the amount of damage to that caused by the famous ice storm in November 1996.

		Time Local/	Path Length	Path Width	Num Per			mated mage		December 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
VASHINGTON, No										
WAZ031	North 01	east Blue M 0300PST	ountains		0	0			High Wind (G57)	М
		0800PST							5	
		ig low pressure der Ridge RAV							gh winds to the northea '00 AM PST.	ast Blue Mountains
WAZ033-036>037	Washi	ington Palou	ise - Spoka	ine Area - N	ortheast I	Aountai	ins			
	04	0600PST 1200PST	-		0	0			Heavy Snow	
	to the n Mount	n front moved ortheast moun	tains, the Sp	okane area an	d the Palou	e. The fo	ollowing is	a roundup	ning of December 4, b of snowfall totals: 49- kane4", Pullman4"	North Ski Area8'
WAZ033		ington Palou	ise		0	0			нс	
	04 05	2200PST 1000PST			0	0			Heavy Snow	
									f December 5, dumpir red 4.5" of snow.	ng heavy snow in
WAZ031-037	North	east Blue M	ountains -	Northeast N	Aountains					
	05 06	2200PST 1000PST			0	0			Heavy Snow	
	A low mounta snowfa	pressure system ins of Washin	gton on the stated with the	morning of De his storm: th	ecember 6 fe le nearby B	ollowed b	y snow sh	owers conti	neast Blue Mountains a nuing through the day. ce Springs SNOTEL (	The following ar
WAZ031-037-042	North 06	east Blue M 0000PST 1500PST	ountains -	Northeast <b>N</b>	Aountains 0	- East S 0	Slopes No	orthern C	ascades Heavy Snow	
	Washin and in snowfa	igton on the m the upper reac	orning of the	e 6th. Heavy of the major	snow result valleys alon	ed in the g the nort	northeast V hern Casca	Washington ade east slo	mber 5 and dragged a mountains, the northea pes. The following are ort4.8", Chewelah4	ast Blue Mountains e some of the heav
WAZ036>038-043	-	ne Area - N	ortheast M	lountains - (		0	nds - Oka	anogan Va	•	
	12 13	1800PST 0600PST			0	0			Heavy Snow	
	on the Mounta Spokan	night of Decer ain SNOTEL	nber 12 and site (elev 53 7", Republic	early on the 1300')9.1", M	morning of ount Spoka gdale5", (	he 13th. ne Ski A Omak5'	The follo area8", C ', Keller	wing is a li layton7",	eavy snow to parts of sting of the heavy sno Tonasket6", Chesav ary Dam5", Spokane	wfall totals: Mose v6", Oroville6'
WAZ031-037		east Blue M	ountains -	Northeast N						
	13 14	1500PST 1500PST			0	0			Heavy Snow	
	Mounta Deceml	ains and to the	e mountains ving are som	of northeast V ne of the heavy	Washington, y two-day s	generally nowfall to	y above 40 otals: Spru	000 feet fro	the high elevations of m the afternoon of De SNOTEL site18.2",	ecember 13 through
WAZ037>038-042		east Mounta	uns - Okar	10gan Highl		-	s Norther	rn Cascad		
	15 17	0600PST 0600PST			0	0			Heavy Snow	
	17, brii 48-hou	nging heavy s	nowfall tota ls: Holden V	ls to mountai Village22", 4	n locations	across m	ainly north	h-central W	vening of December 15 Vashington. The followintain SNOTEL site1	wing is a listing o
WAZ035		Columbia	Basin		0	^			TT. 1	
	16	2000PST 0200PST			0	0	15K		High Wind	

		u du					her Phei		
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Persons Killed In		Estimated Damage Property Crops	Character of Storm	December 200
WASHINGTON, Nort	heast								
	A vig	orous storm syst						o parts of the upper C	
		ng of December of of Wright Ele			e Dam, a large	tree wa	s blown over onto a	a house. Numerous sh	ngles were blown of
<u>WASHINGTON, Nort</u> WAZ002-010>011-016			Hood C	'anal/Kitsan	Doningulo	South	wast Interior (	Control Coast	
WA2002-010/ 011-010	01	1000PST	1 - 1100u C	апаі/ кнуар	0	0	600K	High Wind (G50)	М
	Winds	2100PST s of about 40 mm	h with gust	to around 60 r	nph knocked o	ut powe	er to about 10.000 h	omes across Western V	Washington.
WAZ002-007-009-011-		-	•		•				-
015>016		ral Coast	a seattle	incu opone		. unin t		Southwest Interio	
	13 14	1800PST 1120PST			0	0	800K	High Wind (G60)	М
	Sustai were d	ned winds of 40						power to about 12,000 ut an hour. Two mob	
WAZ001>002-005-009- 015>016	San J	Juan - Wester	n Whatco	m - Northw	est Interior -	Adm	iralty Inlet Area	- North Coast - Ce	ntral Coast
	15 16	1800PST 1900PST			1	0	1.2M	High Wind (G52)	М
	A stro parts knock	ong pressure gra of Western Was	shington at	times during	the 15th and 1	6th. K	eystone ferry service	winds of 40 mph with ce was suspended at t on his car while he w	imes and power was
WAZ006>008-010>013							na Area - Hood	Canal/Kitsap Peni	nsula - Southwest
	Inter 16 19	ior - Olympic 0500PST 0200PST	s - Easteri	n Strait Of J	Juan De Fuc 0	a 0	150K	Flood	
	Storm southe The C The E	total (48-hour) ern Cascades, 3 t Chehalis, Skooku Clwha River cres	to 5 inches o mchuck, Sat ted 0.1 feet	wer the central tsop, Dungene below flood st	l Cascades, and ss, Skokomish tage. Most of	l 2 to 4 , Desch the Oly	inches over the nor utes, Puyallup, Sno	qualmie, and Snohomi l southwest Washingto	sh Rivers all flooded
Whatcom County									
Birch Bay	16	0530PST 1130PST			0	0	250K	Storm Surge	
		surf struck the						ecks and into homes. The secure property	
WASHINGTON, Sout									
WAZ030	Nortl 01	hwest Blue M 0300PST	ountains		0	0		High Wind (G56)	М
	High	1000PST	-		, over the Blue		tains of southeastern	n Washington. Alder R	
WAZ029		1	U	1 05 mpil at 0	ann.				
W AL029	01	Mountain Fo 1200PST 1400PST	otniiis		0	0		High Wind (G46)	М
	Sustai	ned winds of 40	mph with a	peak gust of 5	53 mph were re	corded	by ASOS at the Wa	alla Walla Airport.	
WAZ028	Lowe 01	er Columbia I 1400PST 2030PST	Basin		0	0	125K	High Wind (G62)	)
	60 mp measu part of	bh were felt over red a peak wind	r an area inc l gust of 72 r house in Ker	cluding Hanfo nph at 4 pm. M nnewick. Powe	rd, Mesa, Ken Near Richland, er was lost to p	newick, several arts of	, and Richland. One road signs were dat the Tri-Cities metro	and evening. Widespre e of the automated wir maged along Interstate politon area during the	nd sensors at Hanford 82. Winds also blew

		Time	Path	Path	Num	ber of	Estimated	December 2
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	sons Injured	Damage Property Cro	
WASHINGTON So	uthoost					5		
<u>WASHINGTON, So</u> WAZ025		Slopes South	ern Casca	des				
	01	1900PST			0	0	10K	High Wind
	Strong	2200PST winds caused	nower lines	to come in co	ontact leadi	ng to a n	ower outage Res	idents in central Klickitat County, included
		of Goldendale,						actus in contra Mickiai County, included
WAZ030	Nort	hwest Blue N	Iountains					
	04 05	0500PST 0500PST			0	0		Heavy Snow
			l over a 24 h	our period at	Ski Bluewoo	d at an el	evation of 4500 fe	eet.
WAZ025	East	Slopes South	ern Casca	des				
	16	1700PST			0	0	25K	High Wind
	Windy	2100PST v conditions lea	l to several p	ower outages	in Klickitat	County.	Around 600 custo	mers in the towns of Bickleton, Roosevelt,
	-	noe lost power	-	-				,,
WAZ029	Blue	Mountain F	oothills					
	16	1900PST 2200PST			0	0	25K	High Wind (G41) <sup>M</sup>
	Strong		the foothills	of the Blue M	Mountains in	Washing	gton brought scatt	ered power outages to residents around W
		. Customers in Walla Walla A		power for aro	und 4 hours.	During	this event, a peak	wind gust of 47 mph was measured by AS
VACUNCTON C.			iipoit.					
<u>VASHINGTON, So</u> WAZ021		<u>t</u> h Coast						
WA2021	01	0000PST			0	0		High Wind (G64) <sup>M</sup>
		1800PST	. 74 1	LT D	1.55 (	1		
				•	ch 55 to 60 h	ipn as a s	trong Pacific Stor	m system moved through the area.
WAZ021-039	Soutl 12	h Coast - Vai 1500PST	ncouver Ar	ea	0	0		High Wind (G48) <sup>M</sup>
	12	1300FST 2100PST			U	U		ingii winu (G48)
								usts to 55 mph in Grays Harbor County.
	report	-	ists reached	50 mpn. Pa	cific County	P.U.D.	reported some po	ower outagesthe size of the outage was
WAZ021	Sout	h Coast						
	15	0700PST			0	0		High Wind (G70) <sup>M</sup>
	16	2100PST	storm brou	aht high win	de to the are	o rocultir	a in all of Dasifi	a County losing nowar for a 10 to 15 mi
								c County losing power for a 10 to 15 mi Shores gusts to 50 mph.
<b>WEST VIRGINIA,</b> 1	East							
WVZ048>049-054		nt - Mineral -	Pendleton					
	20	0600EST 1600EST			0	0		Strong Wind
	A col		through the r	egion just be	fore sunrise	on the 20	Oth. Gusty winds	of 35 to 50 MPH were ushered in behind
								ations above 2000 feet. The highest wind
		fed at Petersbur	-	-	t 75 MPH wa	as recorde	ed by a wind sens	or atop a 75-foot tower in Keyser, but wind
WVZ048>049		nt - Mineral	j					
	28	1300EST			0	0		Winter Weather
	29	1100EST		. 1	A	M		d. Commentation and the design of the design
		1					•	th. Snow showers were reported between e idge tops of the Appalachians. In the high
	elevat	ions of westerr	n Mineral and	d Grant Coun	nties, 2 to 4 i	inches of	snow accumulate	ed. Totals included 3 inches in Elk Garde
		s in Mt. Storm,	and 3 to 4 ind	ches in Bayar	d. East of th	e ridges,	an inch or less of	accumulation was recorded.
WEST VIRGINIA, 1		1 R ·	<u></u>					
WVZ001>004-023		cock - Brook 1800EST	e - Ohio - N	arshall - P	reston 0	0	25K	High Wind
	14	2030EST			U	U	23 <b>N</b>	ingn winu
		2030ES1						

		Time	Path	Path	Numb		Estima		December 200
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	ge Crops	Character of Storm
WEST VIRGINIA, I	<u>North</u>								
	U	winds associate ern West Virgin		ep area of lo	w pressure p	assing o	ver the regio	on downe	ed numerous trees and power lines across
WEST VIRGINIA, S									
	NON	E REPORTED.							
WEST VIRGINIA, V WVZ005>011- 013>020-024>040- 046>047	Way Calh	oun - Ritchie	- Doddrid	ge - Mingo	- Logan - I	Boone -	Člay - Bra	xton - C	utnam - Kanawha - Roane - Wirt Gilmer - Lewis - Harrison - Taylor Irbour - Pocahontas - Randolph Prolong Warmth
	60s w obser Parke valley finally after water	vere common ac ved 80 degrees rsburg and Elki vs. Mosquitoes y getting started Christmas. Th	on the 5th. ns saw 74 d were even s by Christma e low water increased du	lands. The w Records we egrees, and I potted as late as. Some res flows of No- uring the last	varmest days ere set on the Beckley regis as the 8th. S sidents in the vember, on h 3 weeks of th	were on 5th at C tered 73 Ski resort southern eadwater e month.	the 4th, 5th, Charleston w degrees. Flo s continued t lowlands did rivers, spille Normal to l	and 14th rith 77 do owers and to postpo d not see ed over in below no	e normal. Daytime readings in the 50s and n. Hamlin had 81 degrees, while Madisor egrees, Huntington with 76 degrees, both d grass continued to grow along the river ned their opening date for the new season their first snow flakes of the season unti nto the first week of December. Surface rmal temperatures arrived by the last week
WVZ005>011- 013>020-024>040- 046>047	Calh	oun - Ritchie	- Doddrid	ge - Mingo	- Logan - I	Boone -	Člay - Bra	xton - C	utnam - Kanawha - Roane - Wirt Gilmer - Lewis - Harrison - Taylor Irbour - Pocahontas - Randolph Wind
	1238H A larg Scatte	wind gusts of 4 E, Parkersburg 3 ge pine tree slar	52 mph at 15 mmed into a rred elsewhe	37E, Clarkst northern Wa re, as volunte	ourg 51 mph ayne County 1 eer fire depart	at 1435E nouse. A ments we	, Beckley 51 around 6,00 ere called out	mph at 0 custom in respo	Huntington measured a gust to 52 mph a 1355E, and Charleston 47 mph at 1351E ters lost power in the Huntington vicinity onse to fallen power lines. The wind gust
WISCONSIN, Extre	me Sou	thwest							
	NON	E REPORTED.							
WISCONSIN, North	<u>ieast</u>								
Florence County Florence	05	1435CST			0	0			Hail (1.00)
1-101 CHUC	A rar		-	produced larg	0		isconsin. Th	he storm	developed in an unusually warm airmas

# WIZ005-010>013-<br/>018>022-030>031-<br/>035>040-045-048>050Vilas - Oneida - Forest - Florence - Marinette - Lincoln - Langlade - Menominee - Oconto - Door - Marathon -<br/>Shawano - Wood - Portage - Waupaca - Outagamie - Brown - Kewaunee - Waushara - Winnebago - Calumet -<br/>Manitowoc<br/>05 1600CST00

#### 06 0230CST

A powerful cold front moved through central and eastern Wisconsin during the late afternoon and evening. Gusty winds accompanied showers and thunderstorms ahead of the front and continued as cold air moved into the region after the frontal passage. The strong winds behind the front downed trees and power lines across northeast and north-central Wisconsin, knocking out power to about 4,000 customers. The strong winds caused large pieces of metal to become detached from a skywalk under construction in Antigo (Langlade co.). One vehicle was damaged by the falling pieces of metal.

The strongest gusts recorded were at 55 mph at Rhinelander (Oneida co.) and 3 miles southeast of Hortonville (Outagamie co.), 48 mph at Sturgeon Bay (Door co.) and Eagle River (Vilas co.) and 47 mph at Antigo (Langlade co.).

#### WIZ005 Vilas 24 0000CST 0 0 Heavy Snow 2359CST

Northwest winds brought cold air from Canada across the relatively warm waters of western Lake Superior resulting in snow showers and squalls. The heaviest snow fell in northern Vilas county where Presque Isle received 10.5 inches of new snow and Land O' Lakes

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Perso Killed		Estimated Damage Property Crops	December 2 Character of Storm
WISCONSIN, Northe			(	()				
		ed 9.0 inches. S	Snowfall tota	ls across the	est of the cou	nty were	e mainly in the 4 to 6 i	nch range.
WISCONSIN, Northw								
WIZ002-004	Вауп 25	ield - Iron 0800CST			0	0		Heavy Snow
	26 Heava	0400CST ake effect sno	w brought 11	" of snow to	Hurley and 8"	to Mas	0.0	·
WIZ004	Iron	ake effect sho	w biought 11		finitely and 8	to Mas	011.	
W12004	28	0600CST			0	0		Heavy Snow
	29 Locali	1300CST ized lake effect a	snow dumpe	d 11.5" of sno	ow in Hurley.			
WISCONSIN, Southe			I I I					
WIZ067>069	Lafa	yette - Green	- Rock					_
	02	0100CST 0600CST			0	0		Fog
	-	winds, abundan Several vehicle					e formation of dense for	og which reduced visibilities to 1/8 to
WIZ056>059-062>065							efferson - Waukesh	a
	02	0230CST 1000CST		9.1	0	0		Fog
								og which reduced visibilities to 1/8 to
WIZ066-070>072	Milw 02	aukee - Walv 0400CST	vorth - Ra	cine - Keno	sha 0	0		Fog
	-						e formation of dense fo irplane traffic was dela	og which reduced visibilities to 1/8 to ayed.
WIZ046>047-051>052- 060	Marc	quette - Gree	n Lake - Fo	ond Du Lac	- Sheboyga	n - Oz	aukee	
000	02	0600CST			0	0		Fog
	-						formation of dense for irplane traffic was dela	og which reduced visibilities to 1/8 to ayed.
WIZ046>047-051>052- 056>060-062>072								- Dodge - Washington - Ozauk - Walworth - Racine - Kenosha Strong Winds
	and ea kts rai brancl showe (70 m a trail range, Decen as a n toppeo Decen	g, gradient, wide rtly evening hou- nge (45 to 50 n hes onto power ers and thunders ph)! The strong ing cold front n or 28 to 35 deg nber maximum ew all-time Dec d out at 70. E	rs of Decem mph). Scatte lines. Some torms moved winds were hoving east a grees above a (old record w cember maxi Both Madison a well. News	ber 5, 2001. ered power of e of the highd d west to east related to a d across Wiscor average! Mil vas 64 on Dec mum (old red n and Milwa spapers repor	Sustained spe utages were n er gusts were across southe eep low press asin. Daytime waukee's max cember 3, 199 cord was 62 o ukee tied or ted that golfer	eds wer noted du due to o rn Wisc ure mov maxim imum o 8). Mac n Decen set new s were s	e in the 22 to 26 kts ra ue to the strong wind convective enhanceme consin. Individual thu ving northeast through um temperatures ahea of 68 set a new daily ra dison's maximum of 6 mber 5, 1998). Janes v daily maximum ten	southeast Wisconsin during the aftern inge (25 to 30 mph), with gusts to 39 t is either breaking tree brances or pus ent as a series of short lines or cluster inderstorm cells moved northeast at 61 Minnesota to north of Lake Superior, id of the front were in the 60 to 70 de ecord for the 5th as well as a new all- 4 set a new daily record for the 5th as ville, Kenosha, West Allis, and Wauk inperatures and high mininum records ome flowers were blooming, very little
WIZ046>047-051- 056>058-062>064- 067>069		quette - Gree n - Rock	n Lake - l	Fond Du L	ac - Sauk -	Colur	nbia - Dodge - Iov	va - Dane - Jefferson - Lafayet
	16	1915CST			0	0		Fog
	17 Abuno	1915CST dant low-level 1		-	led to the de	velopm	-	ch reduced visibilities to 1/8 to 1/4 ed. On December 16, 2001, Madiso

		Time Local/	Path Length	Path Width		iber of sons	Estima Dama			December 2001
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

#### WISCONSIN, Southeast

Milwaukee recorded new high mininums of 37 and 41, respectively. Through Dec 16th, Milwaukee average temperature was 40.4, or an incredible 13.5 degrees above normal, and 3 degrees above the warnest December on record (1877)! Colder air during the last week of December, 2001, lowered the monthly average several degrees. Madison recorded its latest measurable snowfall in a winter season when 2/10 of an inch of snow finally fell on December 23, 2001. By the end of December 2001, Milwaukee Mitchell Field would measure only 9.4 inches of snow for the entire calendar year of 2001, breaking the old "minimum" record of 14.5 inches set in 1922!

#### WISCONSIN, Southwest

NONE REPORTED.

#### WISCONSIN, West

NONE REPORTED.

#### WYOMING, Central and West

017>018

WYZ001-006>007-Yellowstone National Park Mt Id - Teton/Moutains - Jackson Valley - Salt River Range - Kemmerer 1200157 0 0 **Heavy Snow** 

05	1800MST
07	0400MST

A storm system produced heavy snow across parts of western Wyoming. Snowfall amounts included 19 inches at the Jackson Hole Ski Resort, 16 inches at Bondurant and Togwotee Cowboy Lodge, 12 inches at Snake River in Yellowstone National Park, 10 to 12 inches at Jackson and 7 inches at Kemmerer.

#### WYOMING, Extreme Southwest

NONE REPORTED.

#### WYOMING, North Central

NONE REPORTED.

#### WYOMING, Northeast

WYZ054>055-058 Gillette - South Campbell - Weston 1151MST High Wind (G53) M 01 0 0 1851MST

An unusual high wind event occurred this day as strong southwesterly low-level winds combined with a strong surface pressure gradient to produce high winds. High wind events usually occur behind a cold front with strong northwest winds developing, southwest winds of this magnitude have not been noted over this area for several years.

WYOMING, Southe	<u>east</u>							
WYZ063>064	Snowy Range - North Laramie Range							
		0 0 mountains of southeast Wyoming. Gusts to 83 mph r Arlington, WY, while gusts to 66 mph were recorded	High Wind (G72)	м				
WYZ063-067-069	Snowy Range - Platte - Cheyenne Foothills							
	052100MST0High Wind (G68)061600MSTStrong winds occurred across the mountains of southeast Wyoming extending into the adjacent high plains. Gusts as high as 78 mph were recorded on Interstate 80 near Arlington, WY. Gusts of 68 mph were noted on Interstate 25 near Chugwater, WY, while							
WYZ063-067		0 0 eas of southeast Wyoming over and near the mountains. ar Arlington, WY, while gusts to 67 mph were recorded		М				

## **Reference Notes:**

## **Fatality Location Abbreviations:**

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

## List of Acronyms:

WCM NWS NOAA DST LST	<ul> <li>Warning Coordination Meteorologist</li> <li>National Weather Service</li> <li>National Oceanic and Atmospheric Administration</li> <li>Daylight Savings Time</li> <li>Local Standard Time</li> </ul>
LST	
LDT	- Local Daylight Time

## **Other Notes:**

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.

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 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 destructon 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.

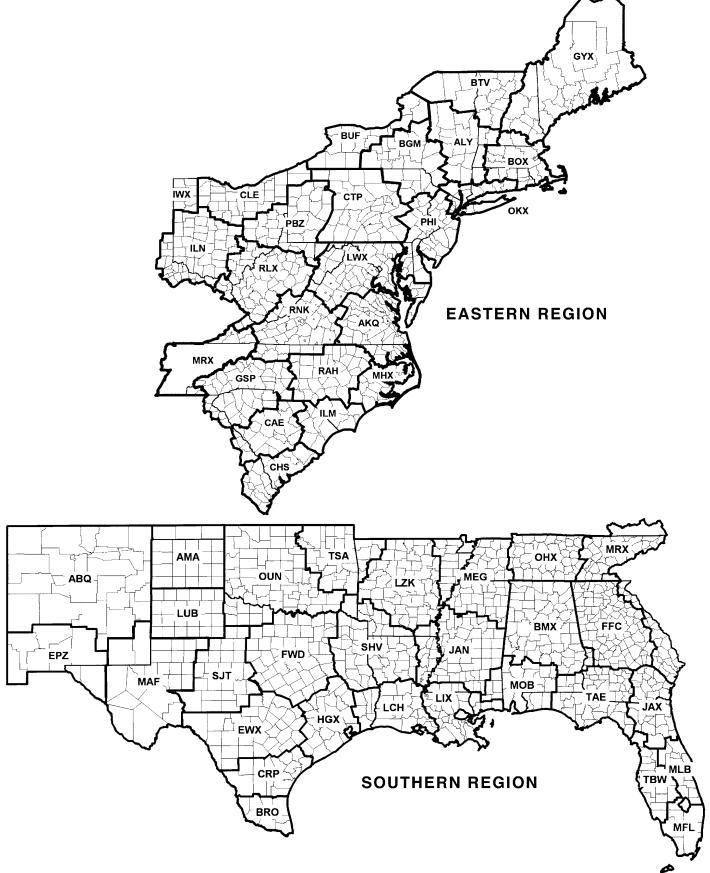
# The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage	F2
F0	Gale Tornado	40 - 72	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.	A B
F1	Moderate	73 - 112	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.	F3
F2	Significant	113 - 157	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.	
F3	Severe	158 - 206	Roof and some walls torn off well constructed houses; trains overturned; most trees in fores uprooted	F4
F4	Devastating	207 - 260	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.	A Street
F5	Incredible	261 - 318	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-inforced concrete structures badly damaged.	F5
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 mess produced by F4 and F5 wind that would surround the F6 winds.	

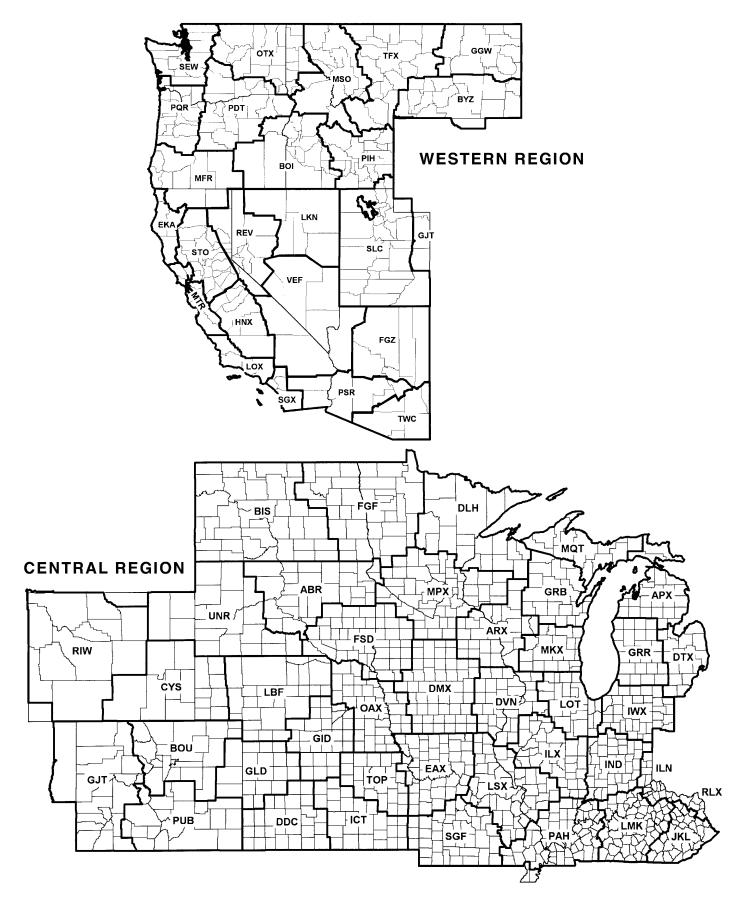


\* From the Journal of Atmospheric Science, August 1981, p. 1517-1519

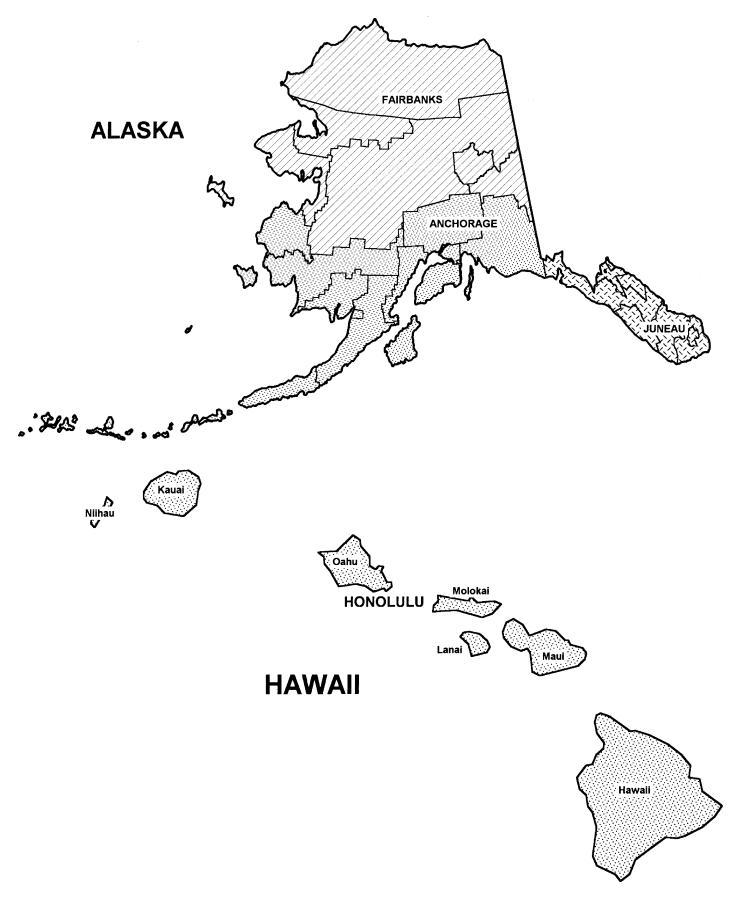
**COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS** 



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