STORM DATA





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NATIONAL CLIMATIC DATA CENTER

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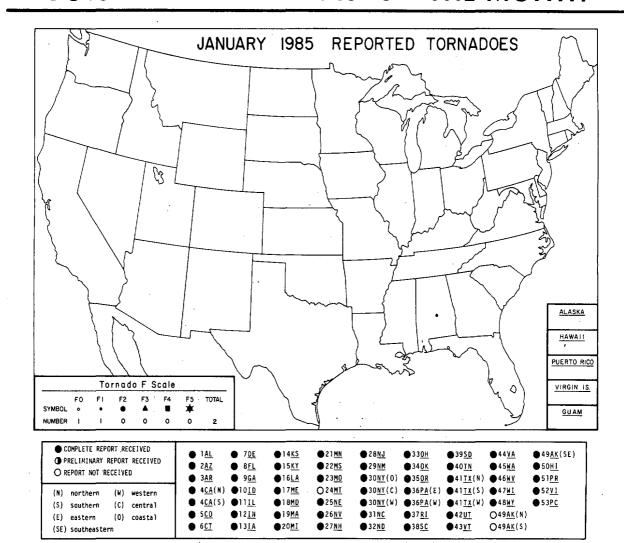
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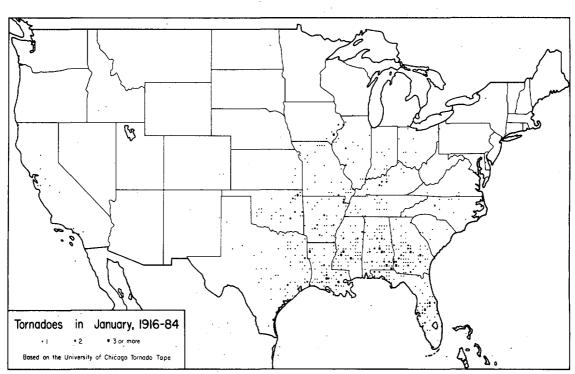
Cover: A GOES 6 satellite, visible image of the southeastern United States and surrounding waters taken at 1931GMT on January 21, 1985. A record-breaking cold air outbreak created cloud streets that emanated from the coast as frigid, continental air moved offshore over the warm waters of the Atlantic Ocean and the Gulf of Mexico. The resulting cloud pattern as seen from 23,000 miles in space closely shadowed the outline of the south and east coasts. (See Extreme Cold in the Eastern U.S., pages 6 and 7.) ---Photo from NESDIS.

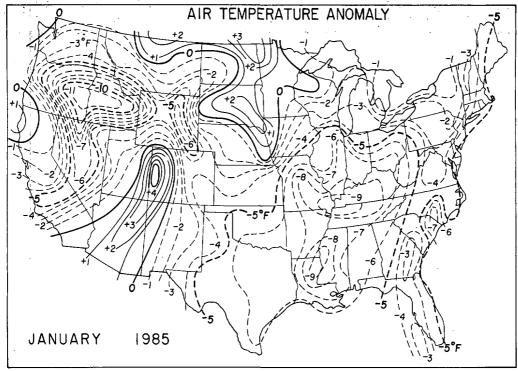
NOTE: The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, University of Chicago. The narrative descriptions of Storms by State and Summaries of Hurricanes and Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles the statistics on deaths, injuries, and damage. This publication contains our best information on Storms, but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Late reports and corrections will be carried quarterly.

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OUTSTANDING STORMS OF THE MONTH



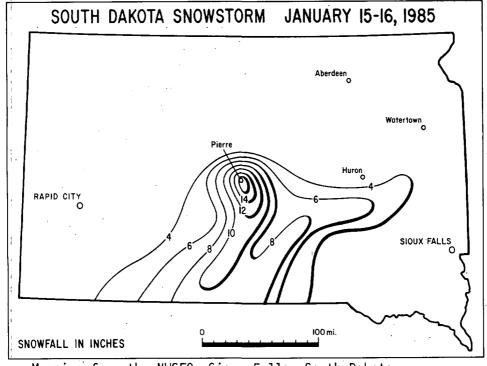




---Data base from NOAA/USDA Joint Agricultural Weather Facility.

1. LOCALLY HEAVY SNOW in SOUTH DAKOTA on January 15-16, 1985

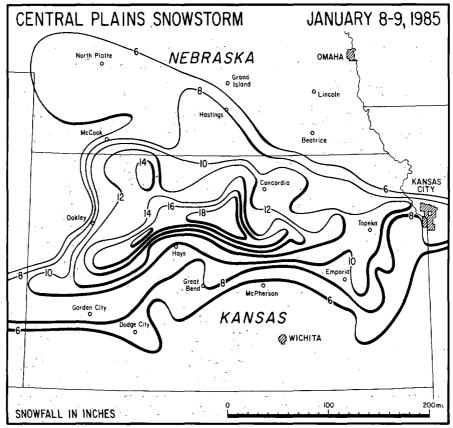
On the evening of January 15th and through most of the 16th, a small snowstorm struck the south-central portion of South Dakota, leaving up to 18 inches of snow near Pierre. The heaviest snow was very localized as amounts of a foot or more fell in an area covering only portions of three counties. Around Onida, about 25 miles north of Pierre, the snowfall quickly dropped off to 2 inches or less. In Pierre, schools, businesses and the airport were closed, and travel was not advised.

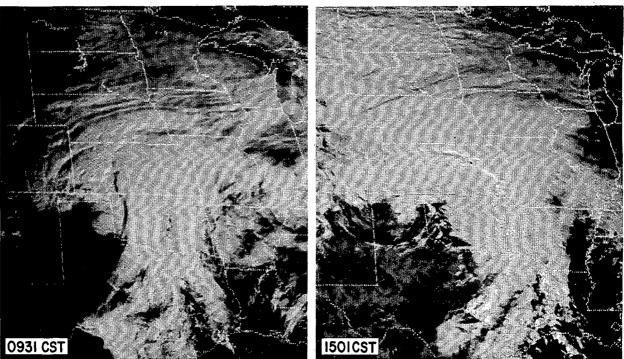


--- Mapping from the NWSFO, Sioux Falls, South Dakota.

2. SNOWSTORM in the CENTRAL PLAINS on January 8-9, 1985

Starting in the afternoon of January 8th and continuing through the following day, heavy snow accumulated in an east-west band across northern Kansas as a storm system slowly moved eastward from the Rocky Mountains into the Central Plains. Up to 20 inches of snow fell at Wakeeney, about 30 miles west-northwest of Hays. The snow closed Interstate 70 from Junction City (60 miles west of Topeka) to the Colorado border. ---Map from NWSFOs at Topeka, Kansas and Omaha, Nebraska.

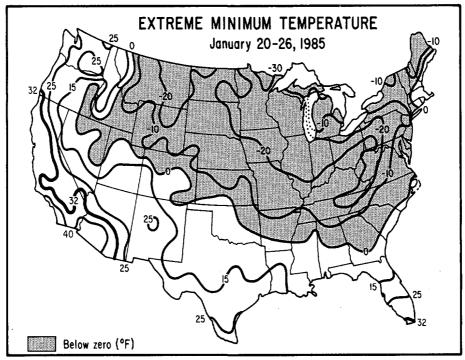




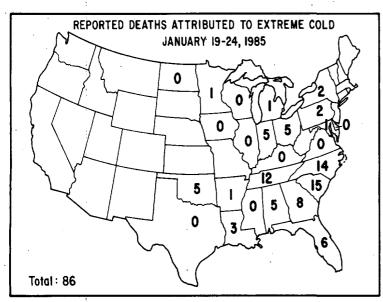
Two GOES 6 satellite, visible images of the storm as it exited the mountains and moved into the plains on January 9th. ---Photos from NESDIS.

3. EXTREME COLD in the EASTERN U.S. on January 19-24, 1985

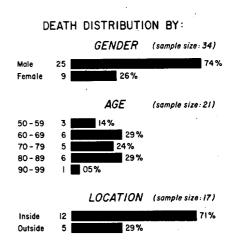
On January 19th, a bitter cold arctic air mass began to spread south and east from the upper Midwest, causing many new, all-time minimum temperature records to be set across parts of the eastern half of the U.S. At least 86 deaths were attributed to the cold, which also produced extensive damage to fruit crops in the south and caused the cancellation of Inaugural celebrations in Washington, D.C. The principal causes of death were hypothermia and exposure. Most of the victims were elderly people living in unheated homes in the southeastern states, and a large percentage were male (see bottom figures).



--- Map from the NOAA/USDA Joint Agricultural Weather Facility.

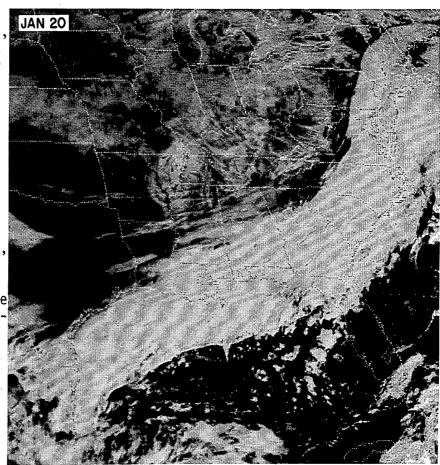


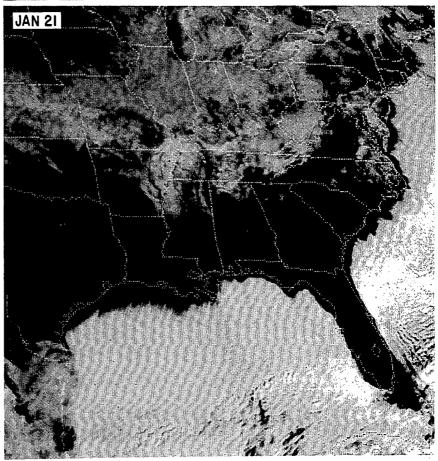
Distribution of cold-related deaths by state, shown for states that reported the cold outbreak.



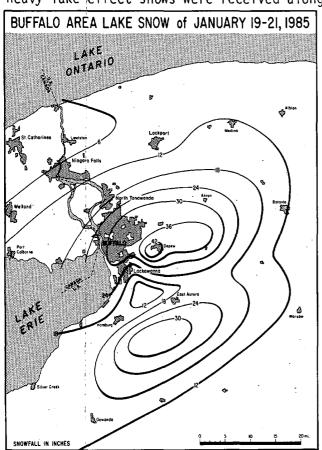
Breakdown of deaths by gender, age and location (inside or outside of house). The sample size indicates the portion of the 86 deaths for which such specific information was reported.

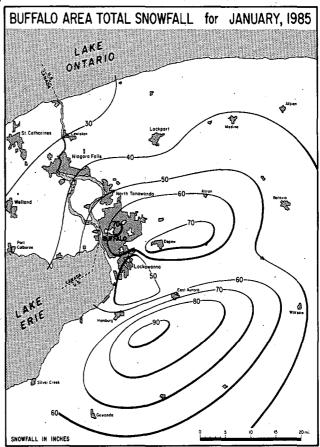
RIGHT: Two GOES 6 satellite, visible images, both taken at 1531GMT but on consecutive days, show an expansive cold front parallel to the east and south U.S. coasts as it pushed southward through northern Florida on January 20th (top), and after it exited the U.S. and passed beyond Cuba on the 21st (bottom). As the cold air spread south and east from the Midwest, it eventually moved out over the warm waters of the Atlantic Ocean and the Gulf of Mexico. The temperature and moisture contrasts produced cloud streets that filled the , ocean areas, accounting for the blanket of white in the bottom photo. ---Photos from NESDIS



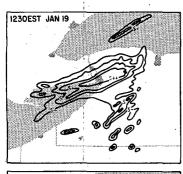


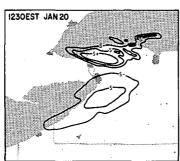
A by-product of the cold outbreak (Item 3) was a three-day period of intense, lake-effect snow squalls that moved through the Buffalo area from Lake Erie on January 19th to the 21st. The NWS at the Buffalo International Airport reported a storm total snowfall of 34.4 inches, while suburban reports were as high as 47 inches. Similar heavy lake-effect snows were received along the eastern shores of Lake Ontario.

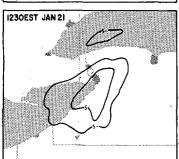


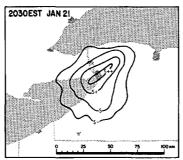


Snowfall maps of the 3-day storm (left) and the January totals (right). The snowfall patterns mirror each other, demonstrating the major impact the storm had on the monthly totals. Also note the two maxima. ---Maps courtesy of Steve McLaughlin and the Western New York Chapter of the AMS; provided by Don Wuerch, NWSFO, Buffalo, NY.





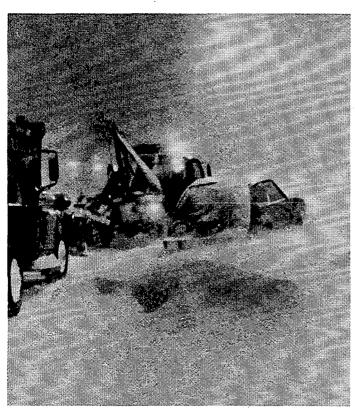




LEFT: Overlays from the Buffalo NWS radar show the area and intensity of the snowfall at 4 times during the 3-day period. Intensity levels are S-: light, S: moderate, S+: heavy and S++: very heavy. On the 19th, the snow formed an intense SW to NE band over Buffalo on SW winds off of Lake Erie. The lake, normally frozen over by this date, was abnormally warm and still had open waters due to a mild December and early January. On the 20th, winds became NW, causing snow to shift south over a hilly region. Snow also developed along the south shore of Lake Ontario. The winds returned to SW on the 21st, again bringing snow to Buffalo. These wind shifts thusly account for the two maxima noted above.

LAKE-EFFECT SNOW in the BUFFALO AREA ---- continued

---Radar overlays on the previous page from NWSFO, Buffalo, New York.





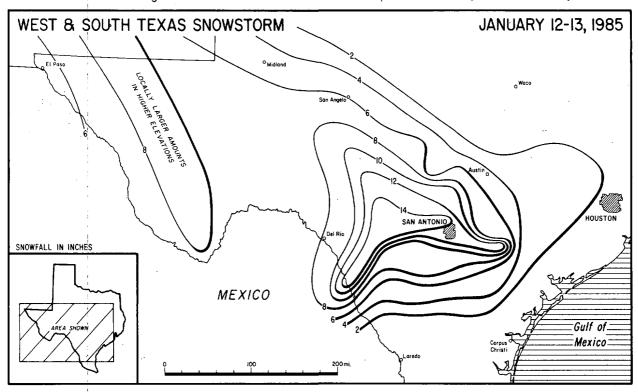
A tow truck and plow come to the aid of an auto Buffalo neighbors assist each other that became stuck in a drift during the storm. In freeing their snowbound autos.

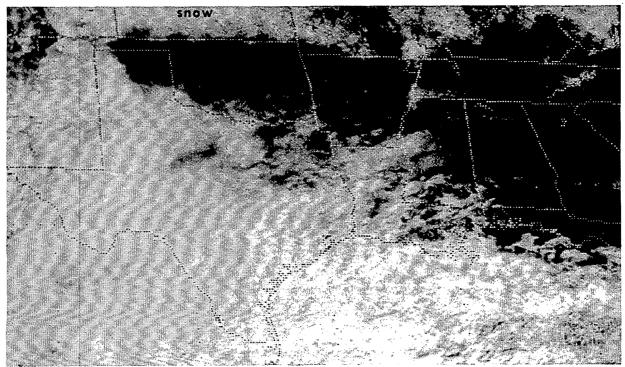


A Buffalo resident trods through a snow-clogged street made impassable to autos. ---All photos from the Buffalo News.

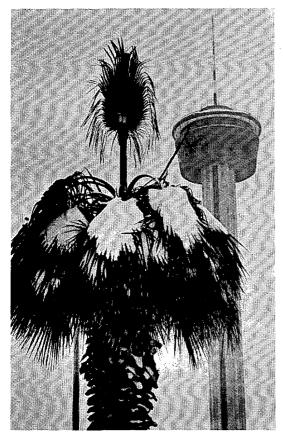
5. SNOWSTORM in WEST and SOUTH-CENTRAL TEXAS on January 12-13, 1985

A record-breaking snowstorm struck West and South-Central Texas on January 12th and into the 13th, with up to 14 inches of snow having fallen at many locations between San Antonio and the Rio Grande. The snow fell as Pacific moisture overran frigid arctic air near the surface. Although the snow melted as it accumulated, its depth was up to 10 inches in San Antonio where an all-time snowfall record of 13.5 inches was set. Traffic became snarled and numerous accidents resulted, as numerous motorists were unfamiliar with driving on snow-covered roads. ---Map from NWSFO, San Antonio, Texas.

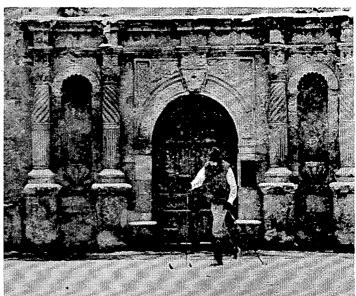




Dense clouds from the overrunning situation in Texas as seen in a GOES 6 satellite, visible image taken at 1231CST on January 12th. ---Photo from NESDIS.



Snow covers a palm near the Tower of the Americas (above), a cross-country skier passes by the entrance of the Alamo (upper right), and snow ladens the walks of the Paseo del Rio (right), all landmarks of downtown San Antonio.









San Antonians having the rare opportunity of negotiating icy steps (left) and building a snow fort (right).

---All photos from the San Antonio Express-News Corp.

	NO. DF ESTIMATED DAMAGE.			CAL	PATH	Ŧ	NO. OF PERSON		MATED! MAGE	
PLACE	TIME - LOCAL STANDARD - LOCAL WIDTH OF PATH (TAROP PAT	PLACE	DATE	TIME - LOCAL STANDARD.	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	PROPERTY	CROPS	CHARACTER OF STORM
ALABAMA		4 CALIFORNIA	, No	rthern	•		•			
Statewide	19- 5 0 ? Record cold	Southern Sierra	112	All Day			0 (0	0	Windstorm
	22 A bitterly cold air mass was destined to rewrite the record books for low temperatures in much of Alabama as it swept across the northern border of the state during the early evening of January 19th and continued its deadly southward plungs. At least five people died from exposure to the cold, which overall was the coldest	Nevada Mountains	Some 1	trees we	re blow	n down		rite Na	tional	Nevada Range. Park and gusts t a.
	of this century in Alabama. In Birmingham, a 61 year old lady died in her home where rescue officials reported that the temperature registered about 1 degree. Two Selma	4 CALIFORNIA	A, Sou	ithern						An .
	residents, a 64 year old lady and a 81 year old man died after being found unconscious in their homes. An elderly	Ontario, San Bernardino	12	0550PST			0	?	0	High Winds
	man died in his home in Henry County in southeast Alabama. In Opelika, an 87 year old man died from exposure after	County		ck pulli gh gusty			y 60 at i	\rchiba	ld Aven	ue was blown ove
,	apparently wandering from his home. Early morning low temperatures on the 21st were from	San Bernardino Valley	12	0800- 1700PST			0 1	?	0	High Winds
	14 degrees below zero at Belle Mina, Russellville and Valley Head in North Alabama to 3 degrees in Mobile and	rarrey			railer	rigs a	nd tanke	r truck	s were	toppled by 65 mp
	Dothan and 5 degrees at Fairhope on the eastern shore of Mobile Bay. Brewton, near the Florida line, in south	Ontario, San Bernardino	12	1230PST			0 -	?	0	High Winds
	Alabama had a low of 1 below zero. The afternoon high of 6 degrees in Birmingham on January	County	visib	ilities	of five	e feet.	Two ot			due to poor subsequently
•	20th under a clear sky was the lowest day time high ever recorded in the city. Temperatures moderated on the 22nd.		ŀ	ved in t	ne same	e accid			•	
	The extreme cold, accompanied by strong winds did an enormous amount of damage to plants, shrubs and fruit trees,	La Crescenta- Montrose, Los Angeles County	12 Santa	? Ana Win	ds read	ching 8	0 mph be) ? low the	San Ga	High Winds briel Mountains
	and some of the damage is not expected to be clearly evident until spring.		shatt	ered win	dows a	nd down	ed power	lines,	teleph	one poles and
•	Water lines froze in many buildings and damage was extensive,	Los Angeles County	12	?			0	?	0	High Winds
	to three inches of snow accompanied the cold over about the northern one-third of the state.		the V	entura F	reeway	caused	an auto	accide	nt that	State Freeway a resulted in one to Heights was
3 SW Prattville, Autauga County	31 1652CST .5 50 0 0 1 0 Tornado (F1) An apparent tornado touched down in a wooded swamp area			off by h				٠.		•
	near County Road 14 and the Autauga County airport. Trees were uprooted and snapped off along the storm	5 COLORADO	•	٠						
	path	Eastern	11	morning	ı		i i	1 0	. 0	Snow
		Foothills	17	inches	of sn			e, in	the f	oothills west
ARIZONA —	NONE REPORTED		1			and w		-		ne Denver area
3 ARKANSAS		Northeast Foothills		evening ind gus		72 mph	0 I was m		d at I	High wind Estes Park.
astern Half of Arkansas	03- 0530 CST- 0 0 ? - Heavy Snow 04 0600 CST Snow began falling over the southeast quarter of	Mountains, Southeast	the Vai	mounta 1 to St	ins, eambo	from W at Spr	olf Cre	at meek Pa Heavy	any sp ss nor	Snow oots throughou thward through also fell in
	the State during the daylight hours of the 3rd. Snowfall shifted to the east central and northeast portions after dark and lasted until sunrise the next day. As of 6 AM CST on the 4th, snow		in	reme so Baca Co ro Cour	unty,	stern and 7	Colora inche	lo; 14 s fell	inche at Ro	s buried Town ocky Ford, in
	depth reports ranged from 4 to 10 inches east of a line from Huttig to just east of Little Rock to Mammoth Spring. Also, 1 to 3 inches of snow fell between Harrison and Batesville in northcentral Arkansas.	Clear Creek County				h was				High wind ake, near Mou
	Some of the snow reports were: 10 inches at Saint Francis and Monticello; 8 inches at Blytheville, Arkansas City, and Newport; 6 inches at Dumsa, Mynne, and Forrest City, 4 inches at Searcy, Pine Bluff, Warren, and Rohwer.	Northeast Foothills	Ech	evening o Lake 80 mph rgreen	clock were	noted	at Est	t to	88 mph	High wind , while gusts Allenspark.
	Travel was severely hampered by the heavy snow, especially along I-40 between Lonoke and West Memphis, Travelers were housed in churches, National Guard Armories, schools, and other public buildings. Many vehicles were stranded along the highways.	Mountains	dur.	w fell ing thi 40 inch	s per es bu	iod, a	nd was ail; 3	in the frequ	Color ently es fel	Heavy snow ado Rockies heavy., A tot l at the
ell County	09 about 0 0 3 - Lightning 2300 CST	1	. Mou	ntain, ts meas	Winte ured	r Park totals	, and i	rapah o 2 f	oe Bas eet.	at Copper in. Many oth Several inche
	A Dardanelle residence was struck by lightning. It started a small fire which damaged the bedroom. Also, the circuit breaker box, a telephone, a radio, a heating pad, and the electrical meter were damaged.	Statewide	29-3	state. O			. 0) 0	. 0	n valleys of
11 of Arkansas	19- 0 0 ? - Heavy Snow and 21 Cold Outbreak A rather strong cold front moved through the State during the daylight hours on the 19th. By 6'MM CST on Sunday, the 20th, record low temperatures were reached at many locations throughout Arkansas: Mountain Home -14.		Snow which lowe Den	w fell ed in f ch was er elev ver, an ht of t	rom t the h ation d Int	he nor ighest s had erstat	of the state to tall to 5 to water to tall to 5 to	tate lf Cr repor inche s clo	as an eek Pa ted. s. 5 sed fo	arctic airmas uss had 14 inc Most spots at inches fell a or a time on t Watkins and
	Harrison -13, Fayetteville -12, Little Rock -6, Mena -1, Fort Smith -1, Hot Springs +1, El Dorado and Texarkana +11. Northeast Arkansas received 4 to 6 inches of snow from Saturday night into Sunday morning. Overnight low temperatures on Monday morning were also very cold: Batesville -6, Jonesboro -3, Little Rock +4, El Dorado +8, and Texarkana +12. Winds accompanying the cold front were strong, thus the wind chill index was around 25 degrees below zero or colder.	Statewide	som of win alm wer	e school Colorad ter set ost all e in hi	ols to lo. T tled spot gh va	close he mos in and s in t lleys	or de st seve l broug he sta in the	pipes lay clude re arc nt sub te. T north	asses tic ai zero i he col west.	Cold cars, and force in many parts rmass of the emperatures dest readings Lay dropped
an Buren County	20 unknown 1 0 - Cold A man was found dead in his home, 3 miles north of Clinton, from lack of heating at the	,	43 May mer	below a bell ch cury di	ero; ecked opped	Walder in wi to 19	shive th 40 l to 20	red at below. below	: 42 be Else zero	elow, and ewhere, the along the Fro mild southwes

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itatewide	25	2000EST		u ayencs.	. 1105) 3	n C10	Heavy Snow	12 INDIANA									
, La cen i de	26 Thui	0300EST derstorms o, followe	r sacc edab	ruptly b	by h y a s	igh v urge	winds m of arc	tic air	ickly across the . Snowfall	North Central Indiana	Min	0700EST or floodi	ng occ	urred i	0 n park:	0 s an	3 d 1ow	lying a	Flooding areas along the
	was manj	reported	by B tsas	ear (6 m wind dr	iles iven	south snow	h of th sudden	e airpo ly coat	ington and 7 inches rt). There were ed the roadways		St.	Joseph.		nd smal					ies of Elhart a
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8 FLORIDA										Southwest Indiana	1	0713EST		,		12		0	Freezing Rain
anama City Beach,	117	0615EST	2 1	10	0	0	} 4	_	Waterspout/		Ice	covered	road s	urfaces	cause	d nu	merous	traffi	ic accidents.
ay County	bloc	k area. S m across	Sever	al roofs	were	dama	igêd, a	small		Statewide	pro low	ter arcti ducing wi temperat	c air nd chi ures f	lls as or not	nto Ind low as only t	80 l he d	below ate bu	he 20th and set t for t	Extreme Cold and 21st, ting new recor this century. reency rooms
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PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	PROPERTY	CROPS	OF STORM
14 KANSAS	1 ;		<u> </u>		1			·		KENTUC	KY			·			•	
Northern Kansas	nei In bot not Cer fro Mot	2400CST avy snow forly all so terstate 70 der until th of a linter and Po om Oberling te than 15	chools a large was continued from the from to Score inches	and bro losed f ternoon m Syrac More th tt City covere y to Wa	ught to rom Juse to use to an a f , Sali d the keeney	travel inctio ne 10t n Dodg foot a ina, W groun	to a n Cit h. M e Cit ccumu amego d in	stand by to to tore th by, Gre lated and L an are	Heavy Snow The snow closed still. he Colorado an 6 inches fell at Bend, Yates north of a line ovewell Dam. a about 20 miles ina. Wakeeney		snow malfi lines were in th and (exter Servi were	difficules occurring to the country of the country	red due ee limb due to strict reside es of 0 Some pods of ons, to d with	to con s on li the ext ly due nts aff ldham, eople w time. wing se calls f	traction nes, and reme col- to the col- ected by Pike, Joi ere with rvices, or emergi	of pow line a d. Mar old. S the po nnson, out hea and plu ency se	per wire ipparati iy powe ihelter wer ou Butler it for imbers ervice.	es, us r s tages
15 KENTUCKY	:										gasol Inter Snow	al small ine due d state tra drifts me	to the avel wa easured	high de s limit up to	mand. ed to on ten feet	lane.	y area	s
Central and Northeast Kentucky	Wir cer thi	1100-1230 EST and gusts of stral and of understorms and power	f 40 to northeas 5. 53 M	st Kent MPH win in Lexi	ucky d ds sna ngton,	luring ipped (Fay	heav trees ette	y and County).		Meatl Kenti and i throi trea were	nds of 29 across re mer offic uckians to generally ughout the ument for three de- not cause-	oadways ials an o stay the wa e state frostb aths as	and ru d healt indoors rnings report ite and sociate	th agenci to avoi were hee ted only i hypothe	es ward d overded. a few o mia. he colo	ned exposur The hos cases o There i weath	e, pitals f
Statewide '	al: of 03-0	so reported Boone and DS AFTN-EVE	d over t Kenton	the nor durin	theast g heav O	Kent y thu O	ucky nders 2	counti torms.	es		Hickr shove of ca in a Coun	man Count eling snow arbon mon- closed go ty man di- ero cold.	y woman w. A 2 oxide p arage. ed whil	died o O year oisonir And ar	of a hear old Loui ng after n 82 year	t atta sville warmin old L	k while man die his c incoln	ed ar
	Jar fro ber acc der	nowstorm in nuary 3, 19 mm two to e fore exiting cumulated in creased to I then pick	985 over eleven in ng eastw five to 1 to 4	er west inches ward on nine i inches	ern Ke of sno Janua nches over	entuck w ove ery 5t over centr	y, du r the h. S the w al Ke	mped state inowfal rest, entucky	1	16 LOUISIANA								
	the rej E1 At fro sur we: as The	e east when corted over liott, Gra- times, the eezing rain rfaces. B stern Kent 3 feet, c weight o	re up to r the co yson, La e snow w n, product lowing a ucky pro losing : f ice of	o eleve bunties awrence was mix cing a and dri oduced some ro n power	n inch of Bo , Lewi ed wit glazir fting snow o lines	mes of byd, Cois, and the sleeping of snow drifts wer the sand	snow arter d Row et an expos over as h at ar trees	was , , , , , , , , , , , , , , , , , , ,		North and Central	Pre dur Far Mon 4 i are	ing the m merville roe, Bast nches. Tw	on begar norning and Hai trop and to peopl	of the ile, 7 I Jonesi le were italize	3rd. Hea inches; (boro, 5 i injured	in and viest allhou nches; from f	sleet snowfal n and Q Natchi alls in	Snow and Ice turning to snow Is occurred at uitman, 6 inches; toches and Rustor the Shreveport the other was
	Mo cor ac fa to	used scatte torists had nditions si cidents, m talities. close and heduled ga	to stratewide any with The wear the pos	ruggle e,resul h injur ather f stponem	with h ting i ies ar orced	nazard in num nd a f area	lous t erous ew wi schoo	ravel ith		Southwest	Fre		in and s	reporte		roads	with a	Ice hazardous layer in I-10 between
Statewide	1:	21 night- midday	ener ring		0	0	4	3	Subzero Cold and Snowstorm	Vermilion Parish	Ап	1800CST obile hom aged by r	ne near				0 by ligh	Lightning utning and heavily
	gri rec alr acr for	icious arc pped Kentu ord breaki eady been oss Kentuc ecasted.	cky wit ng 36 h well in ky as f The awa	th subzenours. the mainst wonerers	ero te Emergaking ord of of th	mperatency property for second the contract of	tures olann evera comin	for a ing ha l days g cold trigge	i was	Southeast	S1e Rou and	ge along	reezing I-10. I	In addi } road:	tion, [-] s and bri	0 was dges i	closed nto and	Ice lent in Baton between New Orlea lout of New Orlea ours.
	pro The dan gov	rgency pla vide relie knowledge gerous wea ernment pe	f for t of the ther an rsonnel	hose w seriou d quick , helpe	ithout usness k plan ed to	heat of th ning t save n	and personal contraction of the	power. ming y lives.		Statewide	21- 24	Morning tic air c	caused 1	record	3 2	rature	? s. Lake	Cold Wave Charles recorded 10; Monroe, 8;
	far Ken bit win Sno 19t ran nor ser	peratures southeast tucky Sund terly cold ds of 25 m ices into wfall that h, and cor ged from 3 th where a iousness c	to 26 ay morn temper siles and the 50 began stinued tinued tinued to 7 immounts of the s	degrees ing, Ja atures hour, to 70 c on Satu into Sui inches i were le	s belo anuary coupl plumme degree urday, nday, over a ess co	w zero 20, ed win ting w below night Januar 11 bum mplica	o ove 1985. th gu windc w zer , Jan ry 20 t the ating	r nort The sty hill o rang uary , 1985 extre to th	n e. me e		Bat dea wer bro the bet wat and wei Bat los	on Rouge, ths occur e hospita ken pipes ater in S ween \$10 er pressi I content: re destroj on Rouge	, 9. The red in alized to shrevept ,000 and ure comes value yed by parish t Baton	ree peo Orlean for hype etween ort. Two d \$12,0 bined t d at \$9 subfree es. In Rouge	ple died s and one othermia \$10,000 to o St. Joh 00 pipe to cause 18,000 in zing tem addition parish.	from he in Bo in Ter so \$20, in pari lamage LaPlace peratur, 1000	ypother ssier p rebonne 000 dan sh scho The si which (e. 5500 es in l acres (mmia; two of the parish. Two hunter parish. Water finage to a movie olds sustained evere cold and lo destroyed a home of a cares of rye great and West of sugar cane was strawberries were
	and can Sma dam	e major pr burst wat celled eve ll unprote age, and c ew livesto	er pipe nts, cl cted bi able te	s, cars asses, rds die levisio	that and b ed, pe on suf	would usines ach or fered	d not ss ac rchar diff	start tiviti ds sus iculti	, and es. tained es.	Lafourche Parish	Go.		zed hai		bserved		daux a	Hail and Wind t 1400CST. Roofs er at 1545CST.
	to pre Sal sou	the extrem ssure was yersville, rces. A n mneys over	e chang reduced people umber o	pe in th I in pla I had to of fires	ne wea aces t o look	ther. o the for a	Nat poin alter	ural g t wher nate h	as e, in eat	St. Charles Parish		1810CS th wind a of from a	ssociat		very he		inderst	Wind orms blew off a
	ļeng			·-						North and Central	Lou	isiana. (freezin One per	son was	injured	t fell from a	in nor	Ice th and central in Shreveport. A an icy bridge.

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		OC AL	17.40	<u> </u>	E .		OF SONS		MATED!				ļ	OCAL.	PATH	Ħ.	NO. PER		ESTIM. DAM	ATED! AGE	
PLACE	DATE	TIME - LOCAL STANDARD	ao ntons	(MILES)	(YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM		PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
17 MAINE —					NONE	REPO	RTED	.	_4	<u> </u>	, 	20 MICHIGAN		L	<u> </u>	L				٠	<u> </u>
18 MARYLAND	an	id D.C.										South of Zeeland, Portland, St. Johns, Clio, and Port Sani-	01	0000- 1500EST		6.11	3	3	7	С	Freezing Rain
Baltimore, Harford, Howard and Prince George's Counties	Le ov va Th Fa	ernight. N rious brid	in a lume lges land	erous a s along d Bridg urred a	ccid Int e wa s ca	ents ersta s clo rs co	led t te 95 sed f llide	o ten and or a ed wit	nporary the Per time ou	Winter Storm evated roadways closings at insula Expressway. er US 50. ss after		lac; and north of Port Huron, Pontiac, Manchester, Litch- field, and St. Joseph	fell Lower rain inju- which custo to be limbs	in the a Peninsu fell to red by fa a also ca mers los \$45.9 m a, and ab	rea out la to t the sou lling l used 2 t power illion. out 40	lined. he nore th of a imbs. people for l About	6 to th of the ar 2 oth to be to 10 100 10 fir	12 the ea. er d hos day vehi es w	inches area, a l pers eaths w pitaliz s. Tot cles we ere sta	of sno and 1.5 on was sere ca ed. 4 al dam ere dam	to 2 inches of
Allegany and Garrett Counties	14 15	1800~ 1000EST				0	1	4	0	Heavy Snow			which perso	n 10,000 on died a from emer	went to nd 38 w gency h	hotels ere hos eaters	s, and spital 200	115 ized aut	0 went due to o accid	to pub carbo lents r	lic shelters. One n monoxide poison esulted in 3 deat injured handling
,	A1 pro ro The we:	legany Cou oduced con ads and po ere were n stbound wa	inty isid ior iume	,as we derable visibi erous a	ll a blow litio	s ove wing es re accid	r Gar and d sulte ents	rett Irifti d in and 1	County, ng snow hazardo known	Frostburg area of Strong winds The snow-covered us conditions. injury. Route 48 s closed for the		Southwest Lower Michigan	19	0800- 1800EST			1 In Ben	0 ton	4 Harbor.	"Whi	Blizzard
Maryland & D.C.	da ₁	0200-				0	0	4	0	Heavy Snow		Entire State									ds-Kalamazoo area Cold, Wind, Snow
Garrett County	of emisc Thi 19 26 Co	Columbia. ergency pl hools were e Eastern 1200- 1800EST Id air swe	5 i Th ans cl air	nere we s were losed. Tlines	re ni put Amtra shut	umero in ef ak pa tle w O the G	us mi fect sseng as ca O reat	nor a over ers w ncell 3	ccident most of were del ed unti O	d and the District s and snow the area. Public ayed up to 2 hours 1 late afternoon. Winter Storm d in Garrett the greatest			A mar for : were 6 de ing : atta bite in pr	n died of several d damaged aths and From over k while , and one ublic war snow ac	ays, loby burs 29 inju worked shoveli of hyp ming sh cumulat	cal power water ries. heaters ng snow other milelters ed, esp	in Graver our pipe 2 per 3, and 4. Hotia. Si Windowskie Windowskie Si Wi	tage s. sons and spit ever d ch	apids. 250 aut 250 aut died c ther pe als tre al hund ill ind	red, a to acci f carb rson d ated l red pe lices w e east	roads were blocke nd 500 buildings dents resulted in on monoxide poisor ied of a heart 00 cases of frost- ople took refuge ere -40°F to -80°F shore of Lake
	ard 50 Eag equ fe 6 eag wer Al the	tic outbr mph.combi gle Rock o uivalent t ll during inches on rly in the re closed l roads we en reopene	eak ned ned the the and re	s of a l with the more erature 8 day 24th eek. Sc I no ma closed ater T	Il to temper ning es or per and a hools il de Mond hurse	ime. eratu of t f 100, iod, 25th, s wer elive day f day.	Winds res a he 21 belo 20 in and e clo ry wa ollow Potom	,aver s low st to w zer ches was c sed a s att ing n ac Ed	aging 3 as 36 a product co. Thir con the arved i all week compted iumerous lison Co	O but gusting to below zero at e wind chill ty inches of snow 21st and 22nd and nto 18 foot drifts . Banks and stores Monday or Tuesday, minor accidents, .,citing "all-time s to cut back on		Southwest of Tra- verse City-Midland- Port Huron	went floor 25 Many 34 is	through ding on t 1000- 2400EST roads we njuries. ty, where	the 1ce he St. re clos Condit	on Lit Clair F ed. 20	tle B River.	ay d o ac peci	e Noc.	An ic	. Two vehicles e jam caused mino: Snow and Blowing Snow ted in 1 death and n southern Berried inds gusted to
Allegany County east, including D.C.	Arc gus Win ove Eck fel haz Sho use wer Aru	1200EST tic air ai ting over d chill ed rnight. Re hart Mount 1 Sunday m ardous. Si re. There less, force numerous	40 quitadi tain nown wen cing s fi	mph so valent ings or n'the n ning,bu drifts re mang g high rozen u admite	ent t temp f 25 norni ut bl of 4 y min vay c pipes ted f	emper below ng of owing to s or ac rews and or tr	rature v zero f the g and feet ccider to ap many	es be dipped were 21st drif t deve nts. oply burs	low zerd to 40 e taken . About ting snieloped it anti-sk t water	Winter Storm g 20-30 mph but o Sunday evening60 below at Frostburg and an inch of snow ow made travel on the Eastern ter cold made salt id agents. There mains. An Anne nermia. Nearly all		21 MINNESOTA Bagley (Clearwater County) West and South	A wonei tem	ghbor's t peratures o. Light Afternoo	of exprailer combiners	less the	han 40 create	yar a v	ds away	/. Wir ill of	Extreme Cold walking to her dd and cold 30 to 50 below in the vicinity. Blizzard
	In tem Met lin alo One	the Distri operatures ro "Yellow es as well ng highway man was t	ict for w L' l a: ys. four	of Co rced th ine" wa s on bu PEPCO nd dead	lumbi ne ca as sh uses. repo i in	a, the ncell ut do Nume rted an ab	lation own an erous a win nandon	n of ind the disal nater ned re	the Inam ere werm bled cam peak dem ow housm	record low sub-zero ugural Parade. The g delays on other rs were abandoned mand on the 21st. g. Fuel lines were water lines burst.			nor sou con 40	thwest Mi thern Min ditions b to 60 mil	nnesota nesota rought es per	during during travel hour a	g the the e to a nd vis	afte veni star ibil	ernoon a ing. Th idstill. lities v	and spa ne onse Wind were re	ront moved into read across it of the blizzard is increased to duced to zero be closed due to
Maryland and D.C.	Thu are 1-2 gus in win The int	a, follower inches, but ted to 54 the evening defined series of the expension of the expection of the expect	s aced act ! mpi ng. snow men of	abrupti 5 inche h at Mi Cars w w rapic rous ac Reiste n Hager	ly by es fe t Air were tly c ccide ersto	by hi a su ll at y. In stall overe nts, i wn Rd n was	rge of Belliters in the control of t	inds of arc Air tate ! the road ting a	ctic air in Harfo 95 was o Baltimo iways w a 20 cau Baltimo	Heavy Snow lickly across the r. Snowfall average ord County. Winds closed for an hour re Beltway as the tha sheet of ice. pile up near the re Beltway. A air for 18 hours.	đ		dri ind las but Blo the mor in car Nat in	fts of sm ex fell t ted less condition wing and followin ning. A injuries s went in ional Gua northwest	ow. To o 30 to than as ns import drifting g morn number occurre to dit rd was ille fre ille fre	emperation 50 be in hour of coved on ag snow ing, but of challed during the san called sota.	ures d low ze lover c lover c lover c lover c lover c lover	ropp ro c entr owly nuec mair ctic bli rist to s	ped rapi overnightal and or in the dithrough n roads on car a izzard of ts becar search i	idly ar it. Bl east of east of west were of eccider conditi ine stra for stra ile try	d the wind chill izzard conditions entral Minnesota, and south. night and into lear by mid- ts that resulted ons. Innumerable inded. The randed motorists ring to walk be south of
Maryland and D.C.	inc Bal US del in	1500EST -4 inch sr hes were r timore met 40-A was c ayed at Ba	now repo tro los	orted i area. sed eas imore l	n th Ther tbou nter	e Cum e was nd ea natio	berla cons rly i	ind and and identification in the history of the hi	rea,as m able tra mornia rt. Sch	Heavy Snow rier amounts of 4-6 rell as the offic congestion. Ig. Flights were sools were closed at Laurel Race			'				•				·
19 MASSACHUS	SET	TS —		—— N	ONE	REPOR	TED														

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PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (WILES) WIDTH OF PATH (YARDS) MILLED ANOSAS CROPS RILLED CROPS CR	PLACE	CROPS
22 MISSISSIPPI		30 NEW YORK,	Coastal NOHE REPORTED
Northwest Half	3 All Day 1 0 0 Snow, Freezing Rain	,	
	Heavy snow fell across much of Northwest Mississippi, with a mixture of freezing rain, sleet and snow across the West Central part of the State. Accumulations were generally above 2 inches morthwest of a Jackson to Tuka line, and above 4 inches northwest of a Greenville to Ripley Ine with localized totals of 10 inches in DeSoto County along the Temmessee border. Freezing rain caused hazardous driving conditions in West Central Mississippi before changing to snow during the late morning and early aftermoon. A 73 year old man apparently died of exposure near Clarksdale during the winter storm. There were no significant power outages or other widespread problems as a result of the storm. 19-21 0 0 0 Now, Record Cold	30 NEW YORK, Herkimer, Oneida, Hamilton, Essex, St. Lawrence, Franklin & Clinton Counties	01 AM 0 3 6 6 Flood For the second time in a week, heavy rains fell on the Western and Central Adirondacks. Saturated ground from last week's storm was a significant factor in this week's flooding. Damages to roads
	An arctic cold front moved rapidly southward through the State on the evening of the 19th and the early morning of the 20th. Around 3 inches of snow fell in parts of extreme North Mississippi with lighter amounts elsewhere. Freezing rain preceded the snow over much of the State, and icing of bridges and some roads occurred in scattered areas all the way to the coast. Temperatures remained near zero in the extreme North all day on the 20th. Readings remained in the teems across the Central part of the State while dipping into the 20's along the coast. Lows on the morning of the 21st ranged from 13 below zero at Oxford to 12 above at Biloxi, with	Ulster & Dutchess Counties	in Oneida and Herkimer County alone were \$700,000. Some areas still were under water a week after this second round of floods. 04 PM 0 2 4 0 Freezing Rain A combination of rain, freezing rain, snow and sleet caused severa traffic accidents early Friday evening. During the storm, a busload of college students was trapped on Old Storm King Mountain Bypass.
	temperatures around zero over much of Central Mississippi, and between zero and 5 above over most of the Southern Interior.	Broome & Tioga Counties	04 1510EST 0 5 ? 0 Freezing Rain A few hours of freezing rain and light snow caused havoc on Broome
North Half	27 All Day 0 0 0 Freezing Rain, Sleet, Snow A mixture of freezing rain, sleet and snow caused widespread icing		and Tioga County roads, resulting in several traffic accidents and bodily spills.
	of roads, bridges and overpasses across North Mississippi, with the worst conditions confined to the extreme northern counties. Patchy icing of bridges and overpasses also occurred in parts of Central Mississippi.	Saratoga County	06 0800EST 0 8 5 0 Freezing Rain Below-freezing temperatures and some snow/freezing rain created slick roads in Saratoga County on Sunday morning. As a result of icy roads, several multi-car accidents occurred along 1-87
Northwest	31 1800CST- 0 0 0 Freezing Rain Midnight	Otsego County	tween Exits 8 and 12. More than 45 cars were involved. 08 Unknown 1 0 ? 0 Cold/Light Snow
	Freezing rain and freezing drizzle created hazardous driving condi- tions northwest of a Vickburg to Tupelo line, with many roads coated with ice in extreme North Mississippi.	ocsego country	A Unidila man died of a heart attack while shoveling snow. The official cause of death was a heart attack caused by cold and stress.
23 MISSOURI -	NONE REPORTED	Area Wide	15 0 10 ? 0 Cold
24 MONTANA -	NO REPORT RECEIVED	Area Wide	Winds greater than 30 MPH along with near-zero temperatures created windchill temperatures of 30 below and lower. Peek gusts at Albany on the 15th were 55 MPH. During this time, ten firefighter were injured while fighting a church fire. 20 0 3 ? 0 Cold
25 NEBRASKA North Central Nebraska Panhandle, Central	06 Afternoon 0 0 0 High Wind Winds gusted to around 56 m.p.h. in the Valentine and Ainsworth areas. No damage was reported.		High winds and artic air moved over Eastern New York, plunging many thermometers well below zero. The cold air created ice on the lower portion of the Upper Hudson River. One woman's home heating system failed and she suffered hyperthermia. Two motoris also suffered from foresthite when their car stalled and they walked for help. The high winds also added to the windchill and caused considerable drifting of snow. New York State did activat a Disaster Preparedness Commission for the cold wave. This was the first time such a commission had ever been activated for cold weather.
and Southeast Nebraska	08 Daytime -09 to Evening 0 0 0 0 Heavy Snow Snowfall of 4 inches or more was reported south of a line from Agate to Ainsworth to Auburn. Heaviest snow fell in south central areas,with 8 inches reported at Kearney, Hastings and	Oneida, Herkimer, Madison & Otsego Counties	23 AM 0 0 5 0 Snowstorm
Southwest and South Central Nebraska	Alma. 129 Night to 130 Morning 100 0 0 Heavy Snow 151 Five inches of snow was reported around McCook, and 4 inches 151 Trenton and Benkelman. Strong north winds resulted in 151 blowing and drifting snow. Lighter snow was reported in south 151 central Nebraska, but winds caused reduced visibility in blowing	30 NEW YORK,	The combination of snow and wind created near white-out condition Many roads in the area were closed due to poor visibility and drifting. Western
26 NEVADA —	NONE REPORTED	Portions of Erie, Niagara, Monroe, Orleans, Genesee, and Wyoming Countie	01 6 - Wind and Freezing Rain Strong damaging winds accompanied by freezing rain downed trees a s power lines. Thousands of homes were without electricity for mor than I hour. There were some reports of wind damages on business as well as residential establishments. There were some vehicular accidents due to slippery roads.
27 NEW HAMP	SHIRE MONE REPORTED		•
28 NEW JERSE	Y:		
29 NEW MEXIC	O		

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		CAL	PATH	Ŧ		O. OF		TIMATED [†] Damage				CAL	PATH	Ŧ		OF SONS	ESTIM/ DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH	XILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
NEW YO	RK,	Weste	rn		-	•				NORTH	DAI	ATO							<u> </u>
Erie, Niagara, Orleans, Monroe, Genesee, Wyoming, Chautauqua and Cattaraugus Counties; parts of Eastern Lake Ontario Counties; and other parts of Western and Central New York	dum up Thi sto 21s ove up Win	ong polar ped up to to 5 feet s event w rm began t and 22n r Erie, N to 5 feet	3 feet over 8 ill be on the d. Dur iagara, over p g to 50	reme 19th ing Orl arts mph	snow o rn Lak mbered and r that p eans, of Le whipp	ver mone as the eached eriod, Wyomin wis, One ed up	st o rio e "B bli up g, a sweg snow	of Wester Counties dizzard zzard pr to 3 fee and Genes to, and co to, causin	Snow, Cold warm lakes and n New York, and of 1985". The roportions on the at of snow fell see Counties, and lefferson Counties. ng frequent white-	East	81i Far Cou 60 bli bus acc	go in Ca: nty), ver below di zzard, ni inesses d	ndition ss Cour ry poor evelope umerous closed	nty and r visibi ed durin s motori early, i. Two	55 mpl lities g the sts boroads people	h at (s, and after ecame became were	Grand F d wind rnoon, strand me bloom kille	Forks A chill: Becau ded, so ked by ed wher	Blizzard ts to 59 mph at AFB in Grand Fo s of 30 below t use of the chools and drifts, and n their car was orm.
	May up Nath rem common down from and exp in store emp Gal 22r Cay	or Griffitoto the mo- ional Gua- ioval. vel acros pplete sta- n for muc m Rochest secondar e deaths osure. W the area pre collap ployees we e force w d. Over	n of Burning of rd had sthe the thinds the trible of	uffal of th to b five, I. I ne ti the P ills losed sons Gran Gran	above he. Buf me. T ennsyl e bloc	ed dri so the ed in -menti falo I he New vania ked. to th s cold he ent snow. ams al vacuat	ving e ci to a oned nter Yor Stat de st ire Abo	y in the ty could issist will counting the state to the s	aster areas. city on the 21st d be plowed. The ith the snow es came to a 1 Airport was shut Thruway was closed Other highways b of these from w zero. Schools A roof of a suburban zen customers and gara River on the town of Wheatfield, g from the	33 OHIO Entire State	low many the and of arouto at 88 nurdear Porneaman	ast of a as 25 be, parts of lowest repower in power in the state and the state and the sear old sing homethis, Also thanks however and the sear old was four reland.	elow ze f the s reading nterrup e. The state. and so s. On woman e and v o on Ja man was me. Or nd from	ero durii tate, ter is ever. ited by the cores of the nigh wandered wandered wandered in January ten to di	ng thimperate School Sc	s per ures d in maged were vies w Janua d fro il yea on a a 60 on his	riod. droppe were cl many a I fruit attrib were tr iry 19 ddleto izen to ir old hills year o porch	In d to osed reas trees outed eated an ide ld	Extreme Cold
31 NORTH CAR 7 Miles Southeast of leaufort Inlet lorth Carolina lountains orth Carolina lountains	02 A water 17 Snow moure 20 Three	1438EST aterspout 0000- 0800EST rfall of utains of 0800EST	np to s: western	ix in 1 Nor	0 iches w th Car	0 as rep olina. 0	? oorte		Waterspout Snow Snow	Entire State	Middhypo Jann 25 26 A withe cree eme 53 froot gas deat ban	death outletown.othermia jary 23. Evening Morning inter sto state. sting near gencies rear old his car. A 44 y th in his c. Sever st bite.	A Roc while orm dun Winds or bliz were c man di to hi year ol car w	ky River clearing ped seve gusted a zard col leclared ed in C s home a d Spring thich was	r man, g snow 2 eral i as hig nditio in ma irclev after gfield s stra	76, r at h ? nches h as ins. iny co ille he ra man inded	died on is how 4 of sn 60 mph Snow unties on out froze in a s	fe, 4 ow on A walkin of to now	Winter Storm
tatewide	20- 21 The the stat in t is t Alth dama tota (aro was dete esti almo mill	coldest a coldest te e. Tempe he East the lowest ough no o ge has be ls may appund 80 mi very sever mined un mated cro st 100 pe ion. Fourprothermine	emperatives or minus temper fficial en made proach although the proach although the process of t	atur atur com thos olla ough er i s at each eople	ever ged fr at Mou e on r pilati me est e of H rs). actua n the ; \$11 m crop	recorder around the material around the materi	ed,i und chel in t prop sug ne D ltur es c One ,inc alue	location nvaded t minus 5 1 which he state erty gest the iana al damag annot be source louing d at \$4-	che	34 OKLAHOMA Central and South Central Enid, Garfield County	19- 20 A s cau win and sev Thu bot Her mia	Aftern and Ni trong co sed stro dds uproo out-bui eral mar nderbird h had li ryetta, during	ght ld-fro ng win ted tr ldings inas a near fe-pre a man the ni g	ds of 50 ees, dow . Consi round La Norman w servers in Jay, ght. Da	mph med p med p derab ke Te then t on an and a mage	with ower le dar xoma. heir le die woman was es	gusts i lines a mage wa Two m boat wa d of e: n in Di stimate	pping up to and desas done were were as over xposure at a contract	Winter Storm, Strong Winds nearly 30 degre 70 mph. The stroyed many ba e to boats and re fishing on L rturned. They e. A man in died from hypot nearly \$500,000 Freezing Temperatures
Northern Sections 32 NORTH DAK	OTA		itains	of s	now fe	ern pie	ross	? ? the nt areas		South Central, Southeast	all 30- Fou Will ind	ey behin 31 r to six son, 8-1	d his inche 2 inch urant.	nome. s of sno es at At Strong	0 w wer oka, g wind	0 e com 8 incl s acc	? mon, w hes in ompanio	? ith 9- Ardmo	winter Storm Winter Storm 12 inches at re, and 7-8 storm, causing
North Central	20 Col mor . to Bli Min for	ning of t 90 mobile zzard con ot AFB),v	he 19th homes ditions ery poo and wi	in t in t wit ir vi nd c	ower w he Min h stro sibili hills	as kno ot (Wai ng wini ty (vi	cked rd C ds (sibi	lout for county) a gusts to lity zer	Cold, Blizzard and break on the a couple of hours area. 5 1 mph at at Minot AFB below developed	35. OREGON Columbia Gorge	few t	rees and	limbs dence	, causin had an e	g som ast f	e mino acing	or powe deck s	ge had er outa	wind knocked down a uges. An east over the home a r.

																JANUARY 1985
	OCAL	PATH ATH			ATED†	CHARACTER			OCAL	РАТН	ATH	NO. PERS		ESTIMA DAMA		CHARACTER
PLACE	DATE. TIME - LOCAL STANDARD	LENGTH OF PAT (MILES) WIDTH OF PATH (YARDS)	KILLED	INJURED	CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
36 PENNSYLVA	NIA, East	ern					SOUTH (CAR	OLINA							
Eastern Pennsylvanía	1200 EST	:	0	0 2	0	Snow	Northern South Carolina	repo nort	em up to one rted duri hern Sout	ng the h Carol	morning ina. T	over raffic	weste	ern and		Snow/sleet
Eastern Pennsylvania	Snowfall, whi break, accumu ways resulted injuries. 20 1200 EST to 22 1200 EST	lated 3 to 5 in automobi	inche	s. Slippe:	ry road		Cosstal South Carolina	Mont Unus to t	some school chlong sally dry the highes s, as well ion dolla	soils i t fores l as ca	n coast it fire using a	0 incident	ence :	in many ate one	<u>/</u>	Drought
	An outbreak o across Easter to below 10 d below zero by climb above 10 Strong wind g the cold air.	n Pennsylvan egrees by no 10 P.M. Ter 0 degrees unusts of 40 M The strong	ia. Ter on on i nperati il 10 PH or i winds	mperatures the 20th and ires did not A.M. on the higher according	dropped d to t e 22nd ompanie	i	39 SOUTH DAK (06	Morning	•		0	0	0	0	High Wind
	chill factors zero or lower below zero to the 21st. So set for the 2 Harrisburg 7 port 11 below	. Actual te 20 below ze me of the lo lst were: P below, Allen and Wilkes-	mperati ro on t w temp hilade: town 9 Barre :	ures reache the morning erature rea lphia 6 be below,Will Scranton 10	of cords low, liams- be-		Southwest	15 Fredit the	ions from Nebraska	produ just n border	ced ver orth of . No to	0 y slic Belle ravel	0 k roa Four was a	0 ds and che (B dvised	0 hazar utte (aroun	Freezing Rain dous driving con- county) south to d Philip (Haakon
	low. Two eld their automo bite were rep in many froze	biles and at orted. The	least	6 cases of eather resi	frost	-	Southcentral	15	nty) and n - Evening Early p.		ads wer	e repo O	rted O	as a s	0110 5	Heavy Snow
Southern Third of Eastern Pennsylvania	25 2200 EST to 26 0500 EST Two to three resulting in t	Inches of sno			0 area	Snow		amo acc (Ly the	ghes Count unts range idents rep man County 15th unt	ty) rec ed from ported. () and ' il noon	eiving (5 to 10 No tr Winner on the	up to O inch avel w (Tripp 16th.	18 in es wi as ad Coun Int	ches. th num vised ty) ar erstat	Gener erous in the eas fr e 90 h	round Pierre ral snowfall minor traffic a Pierre, Presho rom the evening of and a no travel so mile stretch
Eastern Pennsylvania			0	0 1	0	Snow		bet dri por	ween Kimba fting was t, schools	ill (Br report and b	ule Cou ed arou	nty) a nd Mur	nd Mu do an e clo	irdo (J id Pres ised un	ones (ho. l til no	County). Heavy In Pierre, the air- oon on the 16th.
	1100 ES1				v	Silov	Northeast	24	Late Afte noon - Evening	er-		U	0	0	0	Ground Blizzard
	Snow accumulat many automobil			nd resulte	d in			win Har Cou	ds gusted dest hit a	to 60 areas w th near	mph an ere eas zero v	d trav tern E isibil	el sp rown,	eeds w Day,	ere re Marsha	ike conditions as educed to 10 mph. all and Roberts I recommended from 1
36 PENNSYLVA	NIA, West	tern— NONE	REPOR	TED			40 TENNESSEE									
37 RHODE ISLA	AND	NONE	REPORT	TED			West Tennessee	3	aftn	(1	lling s	********	10-00	?		Heavy snow such of West
38 SOUTH CARG	OLINA am Sleet and gla	ze from free	0 zing ra	0 3	O	Freezing rain		Ten esp for Mil Air sno Mad	nessee with ecially discours. It ington with port reconstruction of the contract of the contra	th up t isaster The hig ith abo rded 8. als inc 7"; Fay	o 13 in ous to 1 hest sn ut 13 in 1 inche luded: 1 ette -	Ches of Memphi owfall nches. S. Ot Obion 6-8";	f sno s whe amou The her c - 8"; Tipto	ow. There tra int was Memph countie Dyer	e snot iffic to report is Int s with - 7";	ofall was became snarled
Northern South Carolina	trees and wir damage. 17 am Freezing rain closings and disruptions.	caused icy	0 oridges	0 3	0	Freezing rain	Statewide	19- Arc new and cou	tic air, t record le frozen re nties, a	riding ow temp padways first-t	the Alb erature forced ime occ	erta (s acro the c	lippe ss th ancel e. 1	ne stat lation The win	e. Ti of so iter w	Record cold fennessee, setting he record cold chools in all 95 eather put a
Statewide	20-24	y strong winen York, Rock ations in no a, but amount. Clearing he night of attremely cold 4th. The wittemperatures e effect of a record low	th Carcils. Sr Hill, rthwest s were and rec the 20th d weath ady cor on the the low was al	now was rep Lancaster: t and north generally cord cold with over all the continuaditions and e 20 and 21 w temperatures.	ne 20th ported Cheran less veather of the sing company st ares.	ring		The 22, on The Sno Kno Cit Hem Nas Cha Kno Bri	Tennesse 237 megaw record. winter o wfall amoo xville. I y Jai phis hville ttanooga xville	e Valle atts on utbreak unts we New rec n. 20 -4 -16 -9 -18 -16	y Autho the 21 was al re vari ord low Jan. 1 -17 -10 -24 -21	rity rity rist, be so accomple ritempe 21	eport lieve ompar angir ratur Jan.	ted a ped to be nied by nied by res income 22	reak e e the snow to 11: luded	inches at:
	zero over muc degrees repor established a There was an truck crops, plumbing syst	h of inland; ted by the Ronew all time extensive ki as well as moderns in many;	South (ogback low i ll of o ajor da areas.	Carolina. Mountain afor the statementals amage to he Prelimina	The -2: station ite. s and ome irv	2F	Memphis, Shelby County Portland, Summer	the	ning, die cold may	d later have c	at a r aused h	egiona is dea	i med	dical c	enter	Cold during the . Exposure to Cold
	statistics fr Statistics sh hypothermia b	ow 15 deaths	from	cold exposi	re or		County	A 7 exp		cold in	his un	heated	home	. The	cold	tly died due to contributed to

JANUARY 1985

		CAL	PATH	Ę		. OF	ESTIM/ DAM			\prod			CAL	PATH	Ę		, of Isons		ATED† IAGE]
PLACE	DATE	TIME - LC STANDARD	LENGTH OF (MILES)	WIDTH OF PA	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM		PLACE	DATE	TIME - LO STANDARD	LENGTH OF I	WIDTH OF PA (YARDS)	KILLED	INJURED	PROPERTY	CROPS .	CHARACTER OF STORM	
TENNE	SSEE		·							- -	—— TEXAS, N	Nor	thern								-

Middleton 2-year-old man died of exposure after w 's home during the early morning hours. re after wandering away from his Knoxville, Knox Cold Two people were killed by the record cold. One 55-year-old man, found in the snow near a pickup truck, died from exposure. A man was found dead in a West Knoxville apartment. County A 77-year-old woman died from exposure after she wandered away County from a nursing home Decaturville, Decatu Cold An B4-year-old woman died from the cold in her unheated home. The temperature was 10 degrees inside the home when she was found. County Chattanooga, Hamilton A 60-year-old man died from the cold in his unheated home. County Clarksville Cold A 69-year-old man apparently froze to death in his home after a portable heater fell over, causing it to shut off. Montgomery County Rogersville, Hawkins County A 75-year-old woman died in her home apparently because she was too feeble to keep coal in her coal-burning stove. Benton, Polk County AC 37-year-old man was killed when he slipped on ice and struck his head on the edge of his porch. Near Rockwood, Roane A 74-year-old woman died from the cold in her home which was heated by only one 110-volt electric heater. County ? ? Snow A snow stora brought 2 to 6 inches of snow to all of Tennessee, causing travel problems and closing schools. Snow fall was general across the state with 2 inches reported in Chattanooga and up to 6 inches across the northern counties. Statevide West Tennessee Snow began falling in West Tennessee during the morning of the 31st and moved into the middle part of the state on the 1st of February. The storm brought up to 5 inches to much of West Tennessee, snarling travel and closing schools.

41 TEXAS, Northern

North Texas

0 Winter Storm 1 0 0

A winter storm hit North Texas during the evening, first with freezing rain and sleet, then changing to snow. With snowfall amounts of 2 to 3 inches common, and some reports of 5 inches, roads became impassable. Hundreds of accidents were reported with several fatalities blamed on the icy roads. Schools and businesses were closed because of the icy conditions.

In Montague County, a woman left her stranded vehicle to seek shelter, clad only in a light sweater, shawl, jeans, and rubber boots. The 36 year old female was found in a ditch the next day, dead from exposure to winds a

North Texas

Evening-Morning

1 3 0 0

High Winds Cold Temperatures

An intense cold front blasted through North Texas during the early evening hours, causing widespread wind damage and dropping temperatures below freezing in minutes. One fatality and several injuries were reported due to the high winds.

Winds were light as the front approached, then suddenly gusted to 60 to 70 MPH, catching many people by surprise. In Comanche County, 3 duck hunters were thrown into the chilly lake waters when their boat was overturned by the winds. One man drowned, while the other two survived. In West Fort Worth, 3 persons were injured, one seriously, when a theater sign was blown down.

Temperature drops were dramatic as the front passed. At DFW airport, the temperature reading went from 67° at 6PM to 36° at 7PM, with peak wind gusts to 66 MPH.

In Rockwell, police reported at 2130CST that high winds were blowing water onto the bridge over Lake Ray Hubbard. Part of the Interstate 30 bridge had to be closed for a short time, as the water was freezing and causing hazardous driving conditions.

North Texas

31- Early AM 2/01 Early AM

Winter Storm

A winter storm packed freezing rain, sleet, and then snow into North Texas. Snowfall amounts were generally 2 to 4 inches, with Wichtta Falls receiving 8 inches. Schools and businesses were closed as roads were nearly impassable, and hundreds of accidents were reported on the slick streets.

41 TEXAS, Southern

South Central and

2 All day

1 0 0 0

2 to 4 inches of snow covered much of South Central and Southeast Texas with the heavlest amount of 6 to 8 inches in Kimble and Mason Counties. Most of the hill country west of Austin and northwest of San Antonio received 3 to 5 inches. Snowfall extended eastward to the Louisana border where 2 to 3 inches fell in Jasper County. The southern extent of the snow cover was from near Del. Rio eastward to southern Atascoss County and eastward to southern Harris County. There was considerable traffic disruption due to icy roads. There were over 500 automobile accidents in San Antonio alone. It was the heaviest snowfall in San Antonio since 1966. San Antonio's snowfall was 2.4 inches, Austin 3.4, Predericksburg 5 inches, Leaky 4 inches and Bastrop 4 inches.

There was one fatality. An elderly lady suffered a fractured skull when she slipped and fell on her front porch steps which were covered with ice. This occurred in San Antonio.

outh Central South and Southwestern Texas

12-13 All day 12th-0 early morning 13th

early morning 13th

A record winter snowstorm hit portions of South Central Texas
beginning around midnight Friday night, Jan 11, and continued until
the early morning hours of Sunday, Jan 13th. A strong low pressure
system sloft over Morthwest Maxico poured Pacific moisture sarcoss
morthern Mexico into southern Texas. This moisture was overrunning
frigid arctic air at the earths surface anchored over South Texas.
These ingredients, combined with an upper air implues that moved
from the southwest to northeast over South Texas produced the
heavlest snowfall in South Central Texas or record. Snowfall
amounts ranged from 6 to 14 inches in South Central Texas, with the
area from Eagle Pass to north of Uvalde to San Antonio receiving
the heavlest amounts. All previous snowfall records were broken at
many locations including San Antonio, Rocksprings, Stockdale,
Eagle Pass, Yorktown and Beaville to name a few. The southern
boundary of the snow cover was from northern Webb county eastward
to Mathis and northeast to the Houston area. Very little snow fell
from north of Georgetown to north of Bryan. Georgetown had one
inch while the Bryan area recorded 2 inches.

There was some melting of the snow as it fell at the beginning of the snowstorm. The most accumulation on the ground at the NNS office in San Antonio at any one time was 10 inches, while the total snowfall was 13 and a half inches. This was slao true at many other locations. Eagle Pass reported 14 and a half inches of snowfall, while the greatest depth was 10 inches. However, there were several depth reports up to 15 inches. Traffic over the area was immobilized because of the deep snow, and didn't move freely until the afternoon of the 14th. The heavy weight of the snow collapsed numerous carport roofs, parking swnings, storefront canopies and the roofs of several older buildings. Numerous automobiles were damaged that were parked under the roofs that succumbed to the unprecedented snowfall. Damage caused by the storm ran into the millions of dollars. There was some melting of the snow as it fell at the beginning of

The only fatality known, was a man that suffered a heart attack while showeling snow.

41 TEXAS, Western

Southwest Texas

12 Two Days

0 0 . ? 0 Snowstorm

13

A very heavy snownstorm hit southwest Texas beginning the 12th and ending the 13th. Snow amounts to nearly a foot fell in several places hampering travel and making school officials

The heaviest snow was south of San Angelo. San Angelo measured 6 inches; Midland and El Paso 5 inches; Lajitas, in the Big Bend, 6 inches; Alpine 9 inches; Big Lake 6 inches and El Dorado 6-10 inches. There were numerous traffic accidents as is usual under these weather conditions. Commercial airliners were stranded at the Midland Regional Airport in Midland, while schools in Odessa were closed.

This is part of what is called "Snowstorm of the Century". The "best" part hit South Texas.

	1																			JANUARY 1985
)AL	PATH	Ŧ	NO. PER		TIMAT					'AL	11.0		<u>, </u>	NO. PER		ESTIM/		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	ROPERIT	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	O HO HACKS	(MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
42 UTAH	-	1		<u> </u>						47 WISCONSIN								i		, .
Davis, Salt Lake, Summit, Uintah, and	21 8	0900MST- 0900MST			0	0 1		0	Heavy Snow	Statewide		Evenin Early				0	0	0	0	Severe Cold
Utah Counties 43 VERMONT	Nort Up t the 15 i rece Coun 7 to	thern Utah to 1 1/2 fe hardest wi niches at S rived 7 to sties, 4 to 9 inches rived 8 to	eet of ith rep Santaqu 10 ind o 6 ind of snd 10 ind	snow fe ports of in. Th thes, an thes fel ow, and thes on	11 in 16 t e eas d els 1. I Roose the a	some p o 18 in t bench ewhere n the U velt 5 verage.	laces thes area in Da intah Inche	at Pa s of vis a Basi	is 24 hour period. ah County was hit yson, and 12 to Salt Lake County nd Salt Lake n, Vernal received he mountain areas eived 12 inches.		A fiten 19t per zer wir rea col pow bus fai	frigid anperatur th, and riod, wit ro or co nds acco nds acco nds weath wer out a sinesses ilures we ectricit	rctic es we Sunda h the Ider mpani nto t er ca ges, and ere n y den	air ell be mer acro ed t he 4 used froz many oted	mass felow zerning, cury no ss the he air 0 to 85 numero en wate school, as well Saturda	ero. S the 2 ose di state mass belo bus wa er pip I clos Il as ay and	Satur Poth, iving and ow ze iter ies i sings case I Sun	day nid was the to 20 sty nor sent we ro rand main be n home: . Many s of fi day se	pht, the cold below the child	ne dest till dest till dest till dest till dest till dest dest dest dest dest dest dest dest
					•	•					of	Wiscons natural s & Elec	gas	cons	ic Powe umption	er Cor 1 was	repo	. A new	reco / Madi	rd son
44 VIRGINIA																				
Central and Eastern Virginia	04	0300-2200 EST)		0	0	4	0	Sleet/Freezing Rain	48 WYOMING					NONE R	EPORT	ED			
	fro ove beg rai exc	nt along t r New Engl inning in n began to ept the ex	the Sou land. S the ea chang ctreme	th Atla leet an irly mor le to fr southea	ntic d rai ning eezin st. T	coast w n fell a hours. I g rain a he icin	th coros ly mi over i	old h s the d aft most most	staionary igh pressure entire state ernoon the of the state ly confined	49 ALASKA, No	orth	ern —			NO REI	PORT	RECE I	.VÉD		
	sle end as Bri	trees and	ezing NE to S limbs	rain co W. Fair iced up	ntinu ly wi and	ed into desprea fell ac	the pow	night er ou power	before tages occurred	49 ALASKA, So	uthe	ern —			NO REI	PORT	RECEI	VED .		
					•	•				49 ALASKA, So	outh	eastei	'n							
Fairfax County	Sev	0200-2400 EST eral weak	lows i			a stati				Haines	Late Jan.							?		Extended Rain
	Gen	theast,sp eral accum hes through urred thro	mulatio ghout f	ns were airfax	l to Count	3 inch	es, e	xcept	for about 4		over	taxed t	he wa	ste	treatme	ent pl	ant	of Hair	ies, cai	January using it community.
Statewide	An ear dev	0200-2400 EST arctic col ly morning reloped ald spread up	ld from g hours ong the p to 4	bringi front inches	ng re in no of sn	ough th cord co rtheast ow from	ld. L ern N the	.ow pr lorth North	ressure Carolina nern Neck	50 HAWAII										
	acr at col num dan	oss the er	ntire : ions w d with ken and everal	state as ith wind high wi I frozer	temp s gus nds,c pipe	erature ting ov aused p s. Cabl	s fel er 40 ower e TV	l to mph. outag	were	All Islands	at ! occi stoi near	eep low aiian Is 50 to 60 urred or rm syste r the Bi	lands mph all m had g Isl	and loca isla mov land,	lly. I nds on ed wel resul	d stro dides; the l offs ting	ong, oread 13th shore in st	southe I, main and 14 . a me	rly wi ly min th. O soscal northw	Wind, Surf orth of the nds, gusting or wind damage n the 15th, as the e low developed esterly downslope
Northeastern Virginia	War pre spr	ead from : early mo	overum n event southwa	t on the est to r nours, S	21st orthe	. Mixed ast acr sleet a	rain oss t nd fr	i, sle the streezin	eet and snow tate during ng rain fell	Oahu	wind papa dama the	ds. The aya and aged sev 14th ca	wind macad reral sused of (ds ca damía buil some Dahu.	used and to dings. minor	n est rees. High wave surf l	imate The n sur dama neigh	d 6 mi se win f folloge and	llion ds als owing beach estima	dollars damage to o destroyed and the storm late on erosion along the ted near 30 feet.
	in	oss the so the north inty south	. About	t 5 inch Spotsy	es of Ivani	snow f a Count	ell f	from i			A h		fofr	near		t cau	sed s	everal		injuries along
	1 77									Kauai and Oahu	29-					0	0	5	0	Wind
45 WASHINGT	0 N	<u> </u>		NONE I	REPORT	red					hea Kau and on	vy rains ai and (Waianas	and ahu. area	stro Som	ng gus ne wind squall	ty win dama y win	nds m ge od ds mo	ainly curred oved th	on the in th rough	caused locally islands of e Nanakuli at around noon l others were
46 WEST VIRG	INI	Δ		- NONE I	REPOR	TED					1									
										51 PUERTO RIC	CO -				NONE F	REPORT	ED			
	i																		•	
										52 VIRGIN ISL	ANI	os —			NONE I	REPORT	rED			
										53 PACIFIC —		 		<u>-</u>	NONE R	EPORT	ED			
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SEPTEMBER 1984																												П					
Arizona			-	-	-	-	-			-	3	5	0	-					-	-	_						-	\vdash	\vdash			-	<u> </u>

LATE REPORTS

CORRECTIONS

	LA	TE RE	PORTS				CORR	EC I	ION	5	
	LOCAL	PATH S)	NO. OF ESTIMATI	E CHARACTER			LOCAL D	PATH	NO. OF PERSONS	†"T_	CHARACTER
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF PATH (MILES) WIDTH OF PATH (YARDS)	KILLED INJURED PROPERTY	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD LENGTH OF PATH	WIDTH OF PATH (YARDS)	KILLED	PROPERTY	OF STORM
16 LOUISIANA	<u> </u>				16 LOUISIANA		<u> </u>		.ll	h	· · · · · · · · · · · · · · · · · · ·
OCTOBER 198	<u>34</u>				OCTOBER 1984	1					
East Feliciana Parish	14 1500CS	ST	0 .0 3	? High Wind	DATE AND TIME CHANGE:	The i	underlined dat orrected from	e and ti	me in the	following en	try from page 18
rarish	down a tre	ee onto a road n	h winds from a heav ear Jackson in East	y thunderstorm blew Feliciana parish	East Baton Rouge		0305CST 16		0 3	5 ?	Zi, 0305031. Tornado (F3)
	around 150	DOCST.			and East Feliciana Parishes	A to	ornado occurre	i near Z	ackery and	moved to nea	r Clinton. It was
						mile	e track. Appro y acres of tim	cimately	15 homes	were damaged	e along its 16 or destroyed.
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REFERENCE NOTES

† Storm damage categories are from

- 1 to 9 as follows:
- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5 Million
- 7 \$5 Million to \$50 Million
- 8 \$50 Million to \$500 Million
- 9 \$500 Million to \$5 Billion

- Miles instead of yards
- ** Yards instead of miles
- @ Includes heavy sleet storm
- # Freezing drizzle and freezing rain, commonly known as glaze
- # Not received or incomplete
- O/c Under Estimated Damage,

Property/Crops, indicates crop

damage amount is included

in the figure given

<u>Definition of Fujita Tornado Scale (F scale)</u>

- (FO) Gale tornado (40-72 mph): Light damage Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.
- (F1) Moderate tornado (73-112 mph): Moderate damage The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.
- (F2) Significant tornado (113-157 mph): Considerable damage Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.
- (F3) Severe tornado (158-206 mph): Severe damage
 Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.
- (F4) Devastating tornado (207-260 mph): Devastating damage
 Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.
- (F5) Incredible tornado (261-318 mph): Incredible damage Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.
- (F6-F12) (319 mph to Mach 1, the speed of sound): The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

(F0+F1) Weak Tornado

(F2+F3) Strong Tornado

(F4+F5) Violent Tornado

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









USCOMM-NOAA-ASHEVILLE, NC 1984-2500

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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

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