U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION ENVIRONMENTAL DATA SERVICE

STORM DATA

FEBRUARY 1969 Volume 11 No. 2



									,	,				 -				FEBRUARY 196
	8	PATH	Į.		OF SONS	ESTIM Dan	ATED† AGE		·		CAL	¥TH.	E		. OF	ESTIM DAM	ATED† AGE	
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
Alabama NE Alahama	15- Evening	.		1		°5	c	Ice Storm	Delaware Sussex County	18	AM					4		Glaze
in atomin	16 Morning	n snow	and hi	gh wili	ods m	ved in	to NE	Alabama Saturday		Stat when	e police : glaze-co	vered h	ighways	mad	e tra	veling	gr e e e	ng one fatality, cult. Totals
	hit areas we	nd Jack	ann. Mai	rshal	1 and	DeKal	b Coun	imber. Hardest ties. Many areas imated 100,000	Statewide	19-	sleet, st	now and	ireezi	ng r	ain w	ere 11	int.	Snow
	board feet operations.	of timbe	er down.	Icy	road	i hind	ered r	escue and repair		20 The	season's l							Inches at
Aladha	} }		.}							Wilm	ington (Po	rter F	eservoi	r) ai	nd 5.	inch	s at 1	.ewes.
Alaska Nome	27/28			0	0	3	0	Blizzard	Florida Miami	12	6:00p.	1	125	0	0	4	0	Tornado .
	35 MPH and gr	isting t	to 60 MP:	H, re	ducir	g visi	bility	inds averaging to near zero.		and	113th Str	eet to	Biscay	ne Be	у пев	r 109t	h Stre	ar NE 7th Avenus et and North Bay
	There was some demolished.	ne mino	damage	and	one a	irplar	e was	completely		опе		ged, as	nd sever	ral a	ntos	damage	a. Th	plane demolished, e tornado
Arizona									Statewide	'	daytime	98 1971	iores si	0	2	96	C	Squall line
Phoenix (15 mis N)	Funnel alou	i touch	ed groun	0	0 efly	0 in one	n cour	Tornado - try near Deer		A 89	mall line	accom	enied	by th	under	storms	and s	trong winds winds were re-
	Valley Airp]	port	ed from a	il sec	ions of	the Ra	stat	e and 1 tota	gusta la ver	of 75 mph were s mostly one to
Arkansas	} }	None	repor	ted						thre	e inches. of Manat	A wa.	ll of w	ater ta Co	about untie	5 fee	t high sing c	hit the offshore omsiderable lous injury
California										repo	rted was							5 .
West of San Idego	5 9:30 am Pilot repor surface to	ted obs	erving a	Wate	0 гврот	t exte		Waterspout from the	Riverview, Hills- borough County	15	10:40a.							Funnel aloft
West of San Diego	5 2:39 pm	. '		0	0	٥	0	Funnel cloud	Havana, Gadaden County	15	11:454.				0	4	0	Tornado
	San Diego T the airport	ower pe	sonnel	repor	ted	funne	11 61 01	id west of		One wits	tobacco b	arn wa	demol:	ished do so	and unded	severa like	l dama a "roa	ged. An eye- d full of wagone."
Santa Rosa	5 9:00 pm to midn	. Lo	cal stro	o ng wi	O nds e	5 aused	or pajor	Strong wind damage to buildings	St. Cloud, Osceola	15	11:45a.							Funnel aloft
	area. Powe	utility r was o	lines a ut in so	tar mear	eas :	of po or mor	ints:	n the Santa Rosa 24 hours.	West Palm Beach (8 miles NW)	15	2:18p.							Funnels aloft (3)
Central and South Coast	5-6 Locally str the coast b damage was as well as	etween reporte	the San d to tre	Frances, b	isco uildi	Вау ат	ea and	Strong winds of points along i San Diego; lity lines	Cocoa Beach, Brevard	15	3:19p.							Funnels aloft (3)
Redwood City	6 3:00 am Locally str Redwood Ci			0 ed bu	0 11din	5 gs and	0 trees	Strong wind within the	Georgia Vienna, Dooly County	8 Smal	7:15 p	1 1		1	1	4 and up	\	Tornado •
From Monterey and Lake	20- 25 Stor	mal cover	ding a n	17	2	8	7	Wind; rain, snow.	*	a re	sidential			wn.				
the Mexican border	flooding an for varying	d slide: period:	High At 1	ways sast	and r 12 pe	ailros rsons	d line	resulted in- s were closed illed by mud- e reported	North .	14 16 A vi	nter stor	that	covered	nos	?	5 nortin	0 Heorgi	Snow, sleet and glaze with glaze,
	injured; at	Snowslid least i	des, and more a	re mi	re dr ssing	owned; and p	2 wez resume	e reported d dead. Tele- n was washed d from their		slee	t and snow the 16th	begar Ligh	late o t glaze	n the	e nig ended	nt of as fa	the ll	th and continued as Americus and
	homes. Ext	ensive :	areas of	fara	land	vere i	nundat	ed, and there		nort to u	in and two h of the A tility li	inche tlanta	s or mo Athens	area	i sno	v and ome ar Hazar	as su lous d	overed the area ffered heavy damage riving conditions
		nountair	ns excee					w depths in nd approached		exis	ted over	the nor	thern h	alf o	of th	e Stat attri	and :	numerous automobile to the icy roads.
Stockton	28 3:17 pm			0	0	0		Funnel cloud		susp	ended on :	the 16t	h and s	choo.	ls we	re clo	sed in	services were at least 25 mireds of minor
	fundel clow					repor	ted se	eing a small		inju	ries cause es of snow	d by s	ledding at Clay	ton	dent and m	s and pre th	alls naf	on the ice. Six oot was reported a
Colorado		None	repor	ted					Southwest	high 15	er elevat:	lons.	No deat	hs w	ere c	used	l	y by the storm. Windstorms
Connecticut	1							,	Botameso	Stro	ng winds, nwest Geor	gia co	mmuniti	es.	Dama	ge was	per l	nour, hit several ed at Albany where
Statewide	9- AM-AM 10	l	}	0	0	5	0	Snow, wind		powe	r lines de	dwned t	y trees	and	bran	ches.	Severa	uprooted and I buildings were m off the Doerun
	ranged from	5 inche	s along	the	extre	ne sou	theast			Hi.gh	School.	A busi	ness bu	ilai	ng wa	s demo	ished	at Attapulgus in
	where precip Litchfield (ounty.	Most of	the	state	rece	ived a	mounts between										
	thousands of	motori	sts, is	clate	1 com	uniti	es, an	ow into 5-14 ic, stranded d disrupted	Hawaii Windward (Eastern) Oahu	1	Noon to Late			0	0	6	0	Rain
	establishmer	ıt b were	closed	on t	he 10	h. M	any sc	many business hools failed to e 15th mainly			Afternoo	1						_
	because of t	he lack	of equi	ipmen hicle	t to h	andle h wer	the i e aban	mmense drifts doned on road-		uppe	r atmosph	ere and	moist	trad	e win	da bel	ow ove	ressure area in rtopped Kamooalii rrents through
	ways through	out the	state.	In '	Forri	gton,	the r	oof of a		Keag	uka Subdi 1 Defense	vision estim	in Kane	eohe,	forc	ing ev 36,000	acuati : \$285	on of many familie ,000 to 56 homes,
Statewide	23- AM-AM 25			0	0	5	0	Snow, wind		incl	uding fur les; \$80,	nishin 000 to	s and p	erso LLI S	hal e	ffects	; \$15, el inv	000 to 12 auto- ert; \$6,000 for
	The second n	wore w	to the	vest	and 6	to 14	inche	brought 3 to 6 s in the east.		Kaha es s	luu 5 m11 nd \$20.00	es to i	orthwes	cana	porte 1. B	d \$50, minfal	DOO da Latr	bris after flood. mage to 6 business ecording gages in
	Once again, lines. Many	wind pi school	led the	snow e eas	into tern	drift alf o	s and f the	downed power state were closed		1-1/	exceeded 2 inches	1 incl fell in	in esc 15 min	h 15 autes	from	tes fr 11:45	m 11 a.m.	a.m. to 12:30 p.m. to noon, 5.2 inche
	traffic acci	dents,	many mo	re in	numb	r tha	n in t	for a rash of he storm of ed and roads		bets 4 p.		and	noon,	and a	pout	ro ruc	nes ir	om 10 a.m. to

	1	¥	¥	-	NO.			ATED!]		1	13	Ŧ			. OF	ESTIM		
		200	F PATH	A T	PER	SONS	DAN	MGE	CHARACTER			000	F PATH	1 4 m	PER	SONS	DAM	AGE	CHARACTER
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 (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
Hawaii (continued		3:30 a,			1	0	3	0	Rain	Maine (continued)	19-		[0	0	4	0	WIND
	Abo	t 200,000	cubic	yards	of mu	i, ap	arent	ly loo	sened in part by			Surf dr	iven tlin	by a s	torm erel	cen y in	area	far s sou	at sea pounded th of Portland shed over sea
		ping ins		, part	lally	ouri		se kii	ling 1 of 4 persons			walls to	tea 🗘	‡ away	sec	ion	s of	roads	and damaged
Islands	20 - 21				0	0	°4	С	Wind	Central and South	24-	27		1	0	0_	7	0	SNOW
									e trade winds from damage, particu-			lofficia	l rec	ord. d	ropp	ed m	ostlv	l2 to	wstorm of 4 feet over 1s ranged down
	lar 21s	y on lees	ulu A	u, lee	ward susts	exce	rth→c ded 4	entral O mile	Maui on 20th and s an hour on 3rd,			to near 5 feet	1½ f	et in Suga	the loa	Eas Mt	port are	area in	s ranged down but up to nea the northwest. new official
•	15t	1, 16th, 2 107 a.m.	oth, 2 on 21s	et and In	22nd Waiana	wit e ar	peak a of	gust Oahu,	52 miles an hour roofing stripped sewhere numerous										
	tre	e and por	er lin	through	ed.	n le tain	ward	west M	aui gale-force			north.	Drif	s nea	laps	buri ed m	ed si	ngle ofs,	the extreme story homes. both urban are at Watervill ifficult or
	pow in	r lines : Puukolii,	n Laha cuttin	ina-Kaa home	napal in tw	are	eenho	led hu use ro	se eucalyptus tree of smashed in Paia, to have occurred	,		rural, Transpo	nclu	ding o	ne a ted	t Co or e	by C	lleg	at Watervill fficult or
*	on :	Tar betw	en mid	eight a	Mpd 4 a	a.m.,	when	planta	ion wind recorder o over 75 miles an			busines	act	vitie:	s ca	ncel	led of	e or	cial and more days, ar l deaths were
	hou	Kaana	ali an	kahul	ui A£	port	орве	rved g	usts to 50 and 53			attribu	ted t∘	exer	tion	in	storm.	Hea	y toll of tre
Idaha				-	[Total s	ow o	grou	nid 6	ft.	deep	at R	mford.
Idaho Illinois			<u> </u>	repor					ļ.	Maryland State	Ì								Snow
					1						fo1	lowing: c	a 8th-	9th, up	to i	inc	hes in	Freder	als as the ick and eastern a line extending
Indiana			Ì	repoi							fro 12t	m southerr h-13th, up	Prince to 12	e Georg	ges Co	ounty Serre	throught Cour	nty ar	ern Gecil Gount; a: 20th, up to
Iowa			None	repor	rted						4 i	traces or	none	outhern From ce	Mar	land Was	and co	ntral Count	ern Gecil Gounty a; 20th, up to Eastern Shore y westward; and
Kansas Central, Southwest	13-				0	٥	ħ.	0	Ice		tra	dara ub co	e sout	h of a	ine	exte	attio Ba	итстио:	e Counties and uthern Prince
portions	14 Many	power an	d teler	hone 11	ines w	ere d	owned	in a	ride area	Southern Eastern	18	AM	11100	Vecil			4		Glaze
	from and		nd Rust	Counti	ies so	uthwe	st to	Finne	, Haskell	Shore									accidents as ting of ice.
Kentucky										Massachusetts State	3-4				,	0	5	0	SNOW, WIND
West	1	1			0	0	5	0	Flooding	Place	3-1	Storm y Berkshi	elde	5 to	10 inis	inch	es of	BROW	in the
	sev	eral trib	ıtaries	in wes	tern i	Kentu	cky to	near	the Ohio and or above flood it had fallen to			gusts to	50 tree	and 75 down	mph ed u	wer	e rep ty li	rted nes w	in some areas
	abo	ut normal ve flood	levels tage a	by mon	ith's i	end. nd th	The G e Roug	reen A	r to just above			killed	in a i	Spring	fiel	d ar	ea co	ļlisi	Two were n when one ca veral large
	Bar	en and G	reen Ri	vers ex	cept .	at Lo	ck and	Dam 2	ttained along the at Calhoun on otal of about			plate g Schools	were	dindow close	we din	re b mos	lown Ber	in at kshir	Pittsfield.
	20, 10W	000 acres er Ohio R	floode iver on	d along	the	Green bord	and F er of	bugh E Kentud	ivers. Along the ky the water was			Most of on the	the t	enow c	ane	on t	ie 3r	d wit	highest wind
	pas	t mid-mon	th. Mo	te than	100,	000 a	cres w	ere fl	f the month until	State	9-1	For mos	of	the st	o ate,		7 was	0 the	SNOW, WIND
	min	or to mod	rate.	At som	e loc	ation	s alor	g the	ranging from lower Ohio the nce 1952. (See		İ	most de to more	than	ing s 70 mp	nows h wa	torm s an	in y	fact	Winds gusting r in the great
	Feb		issue	of ESS	3 ≰apı	ublic	ation		OLOGICAL DATA			and Cap	Cod	escap	oni ed t	he h	treme eavy	sout snow.	r in the greatestern section Excepting the
West and south	15				0	0	?	٥	Snow			more in west, w	part	of t	he B	erks es w	hires ere l	In	et and somewher central are now the snow
									st of the season buthern locations.			drier a	ua Ti	unter.	hug	e ar	iits :	accum	ulated. Across
	Amo	ng these	vere El	kton, i unoffi	in Tod icial	d Cou	nty, a ts of	hd Om falls	berland, in Harlan ranging from 12			removal Upwards	extr	mely pers	diff ons	icul died	from	almos hear	abandoned or ing and snow impossible. seizure peri
	loc Thi	ations the heavy s	in Log ese tot	an and als wer	simps realm in haz	ost t ardou	unties wice t s driv	the ave	several of these erage annual totals. onditions, closing			indirec	ng fr t sto	om sho	vell ualt	ing les	inclu	ttlin de 27	the snow. Of persons who
	of	a number	scho	018, ап	ıd in	the t	empora	ry clo	sing of some			thousand	ngers is of	in th	e sn los	dwbi t	ower o	serv	tions. Many ice. Damage t
Louisiana		Data w	111 b	dela	yed							Toward after r	the export	nd of	the mula	stor	and of ro	for an	in some decade everal days building
												collaps	es du on do	to si llar l	oss	weig was	ht invol	n a ed.	building ase at Natick Stranded
Maine State	3-4],,	10.	0	٥	4	0	SNOW, WIND			rescued	by s	domwon	illes	L	dgan J	lirpo	ighways were t was closed ses and school
•		heavie	r amou	nts ir	ı the	nor	th.	Winds	ll with a few of gale force			closed. Guard w	Dur.	ng and	d fo	llow d in	ng t	e st	ses and school rm, the Natio bandoned cars
		Numero the 3r	16 Nlq	nway a	accid	ents	. Mo	st of	y hazardous. snow fell on #th.	Coastal	19-	20			0	0	4	0	WIND
State	9-]	.0		ļ	0	0	6	0	SNOW			Surf dr	stlin	e, top	mina	sea	wall	s, wa	at sea pounded shing roadways
		closed	many	highwa	ays b	r th	b 10t	h. M	Huge drifts any business nd schools	·	ľ	lawns 1	itter	ed wit	h to	cks	hurle	d fro	streets and the beach.
		113 in	.∣ Dr1 Steep	fts up Falls	to T	9 ft he n	wer wer	e rep ow, a	orted on Rte. dded to already	State	24-		gr so	e are	o as t	2 he g	8 eate	0 stsn	SNOW wstorm of feet in many
		in some	ver,	result s sinc	ed in	n th	e dee At G	pest reenv	snow on ground 111e, that			northea	stern	secti	ons,	wit	р ало	unts	decreasing to
		Strande	d mot	orists	Wer	e re	cued	from	cars marconed			to very	litt	le in	the	extr	eme s	outhe	stern half and astern part of a rain or melt
	j	Bhovel:	ing o	t batt	ling	the	snow	er ex	ertion from	H		srow.	In th	heav	er	snow	fall	areas	this was the

FEBRUARY 1969 ESTIMATED! ESTIMATED[†] TIME - LOCAL STANDARD ME - LOCAL
ANDARD WIDTH OF PATH (YARDS) WIDTH OF PATH (YARDS) CHARACTER OF STORM CHARACTER LENGTH OF F LENGTH OF PLACE OF STORM PROPERTY INJURED KILLED NJURED 8 DATE CROPS CROPS Massachusetts (continued)

most in any storm since 1869, 100 years ago. In some sections it may have been the worst since the February 1717 storm famed by Whittier's "Snowbound." This poem title was especially apt for this storm also in parts of Essex County, as driffs up to 15 feet or even more practically buried houses and completely cut off roads in some sections for much of the week. In much of the state business and other activities ceased for one or more days. Many schools closed for the entire week. Weight of snow collapsed many buildings and roofs, both urban and rural, including schools, warehouses, and shopping centers. A roof section in Allston failed under a 102 pound per square foot measured load, while some unofficial reports of even higher loading were heard. By extreme luck, most areas were free of people at time of collapse, but two persons were injured by a roof collapse at Cits Air Force Base. Many awnings and marquees also fell. This storm added tremendously to the damage already inflicted on trees and shrubs by previous storms; Altogether, Boston suffered a 22% loss of trees. In some areas, damage to trees exceeded that of the 1938 hurridane. Falling trees cut utility lines. Power cutages lasted several days in some communities. Churches and schools were used as public shelters for those in need. Many deaths followed storm exertions and many were injured operating snowblowers. Military units aided the worst stricken communities. Farallable public and private equipment was inadequate to keep roads open. The prolonged storm brake down much equipment and exhausted their operators. At Fostor snow fell during 101 consecutive hours. 를 None | reported Montana Nebraska Nevada INEVALIA Beatty, Las Vegas, Mount Charleston Q Heavy snow, Rain 23- Through most of period Continuous snow and/or rain with snow drifts produced one of the worst storms in several years. Eighty-five families were evacuated from Kyle Canvon, near Mount Charleston as drifts 15 feet high closed power lines and supply routes. Snowmell and rain flooded tas Vegas and Beatty. Parts of Beatty were under 3 feet of water. Fifteen miles of U. S. Highway 95, main highway between Las Vegas and Reno were damaged to require major repairs. Most of State Widespread precipitation and snow drifts closed highways and isolated several ranches and livestocks. Subsequent below normal temperatures prolonged snow cover. New Hampshire Storm yielded 5 to 10 inches of snow, generally, and up to 15 inches locally in north. Roads became slippery and hazardous. Most of the snow fell on the 3rd The strongest wind was on the 4th. State Storm yielded 1 to 2th feet of show. Huge drifts marconed thousands of cars and, in many cases, motorists had to be rescued. Transportation and travel came to a near standstill. Stores and businesses shut down and schools closed. At Pinkham Notch snowfall totalled 30 inches in 124 hours and brought a total depth on ground of 100 inches. Incomplete reports of toof and building collapses included a barn full of antiques at New London, with the barn completely demolished. Six died from heart seizures after exertion battling the storm. State Michigan 0 Central and **February** 0 0 Snow Loads Northern Michiga Substantially above normal precipitation from November through January produced heavy accumulations of snow and ice on summer cottages. This accumulated weight has caused the dollapse of many cabin roofs, carports, and flat-roofed buildings during February. Total damage near Harrison in Clare County is estimated to be \$40,000. 0 0 4 a WIND 19-Surf driven by a storm centered far at the coastline, damaging sea walls and t sea pounded shore property Minnesota None reported 18 2 0 7 0 SNOW
This, for many areas the greatest snowstorm of official record, dropped 2 to 4 feet on most of the state. Totals ranged down to about one foot in some Connecticut Valley areas but soared to over 5 ft. in some White Mt. areas. A new record storm total of 97.8 inches, or over 8 ft., was reported at the Mt. Washington summit, with 77 inches at the Pinkham Notch Base Station. Tall drifts practically buried some homes and overtaxed street and highway depts. Most major highways were kept open, however. Mearly everywhere schools; businesses and other activities closed for a day or longer. Even sk; resorts were closed by too much snow. Weight of snow collapsed many buildings, both urban and rural, including schools, warehouses, industrial buildings and garages. Two were killed in separate collapses in Berlin. Many awmings and marquees fell. The storm added much to damage already inflicted on trees and shrubs by previous storms, with devastations as in a major hurricane. Falling trees caused many utility outages. A low pressure wave formed bff Texas and its movement brought strong winds, heavy rains and tides above normal along the Mississippi Gulf Coash. Some damaged reported, mostly minor; scattered power or telephone outages; no injuries or deaths. Dauphin Island Bridge, Alabama at 9 pm.s. reported winds from Est at 60 mpt. Large sections of the Mississippi Coast were covered with sand, pine comes, acorms, leaves, tree branches and trash (on 15th). HAMOCUK COUNTY: Newspaper reported winds to 50 mph. torrential rains, and 3-1 feet (above normal) tides invaded County at hight with substantial water damage several areas. Tide at Bay St. Jouis at 8:30 p.m. reported 3.7 feet above normal. Flooding reported in smaley area, at Bayou Caddy and on North and South Beach Roads in Bay St. Louis. High winds knocked out some power lines; outages ranged from about 50 minutes in parts of Bay St. Louis of Bay St. Louis police estimated 3/41 of town blacked out. County Board Fresident said many county roads flooded (some still on 15th), at least 2 small bridges washed out, several hores and at least 4 cars received flooding damages. HARRISON COUNTY: Newspaper reported winds at Oilf-Port Numicipal Airport at 7 p.m. averaged 35 mph, with gusts to 55 mph. Coast Guard Cutter reported tides reached 1-feet above normal in Gulffort inner hadror, Keeler AFF, Billott reported top wind velocity 53 mph. Particularly from Henderson Point are a to Long Beach, piers along beachfront broken apart in large sections and washed anshors. In extreme western part of County, rising waters brought by heavy winds coupled with sporadic torential rains entered several PassiChristian Isles area; roads there were covered and impassible in sems sections. In Pass christian man light cornential rains entered several respectations. In Pass christian and Craft harbor, 30-ft. Shripp boat was sunking many skiffs wave swamped, some stacked upon each other, many blom into Mc corner of harbor.

Coal-laden barges ambored when blow came up, cables snapped, 2 ran aground res Mississippi State 114 0 0 ? 0 Wind, Heavy Rain oastal Area pan. New Jersey Northern and central counties Heavy snow over the northern and central counties varied from 5 to 15 inches. Massive traffic tie-ups resulted, rail traffic was delayed, and the airlines were grounded. There was much drifting of the snow due to strong winds. Some buildings suffered damaged roofs, and trees and utility lines were downed by the combination of heavy snow and strong winds. New Mexico reported New York Lake Ontario and Mohawk Valley 2 Snow squalls Snow squalls affected the eastern lee of Lake Ortario and Mohawk Valley for 72-hour period with bonditions especially severe on L-5th. Snowfull for storm period totaled 20 to 80 inches wide area to eastern lee of Lake with thinches at Robnville. Amounts decreased to 8 to 12 inches syracuse area and eastern Mohawk Valley and to about 6 inches as far west as Rochestern Winds 20 to 30 mph. with speeds frequently up to 10 mph. caused zero visibility as blowing snow drifted highways to make travel extremely hazardcus. Two people killed when struck by cars during zero visibility rash of highway accidents injured many others. Schools closed in affected area for two to three days. High winds distructed power scattered areas. Slippery road conditions from light snow in Mudson Valley forced school closures in some communities. Missouri None reported

FEBRUARY 1969

		CAL	РАТН	Ħ	NO. PER	OF SONS	ESTIM. DAM	ATED† AGE					CAL	PATH	Ę		. OF SONS	ESTIM. DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM		PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF 1	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
New York (continu		a.m. to			3				Snow		Oklahoma (continu Northern Half of State and Panhandle	<u> </u>	6:00a Noon			0	0.	7	I	Snow
	coas 25 i inch inch mph	tal storm nches Nas: es Hudson es for gr from ever	of he sau, W Valle eatest ning o	avy snow estchest y and no snowfa I 9th th	er, eighb lin	high and Ro oring 8 yea h afte	winds cklan highl rs. rnoon	. Sno d Coun ands; Winds of 10	as paralyzed by wfall yields 19 to ties and 12 to 18 New York City 15 averaging 20 to 28 th at New York City			Okla and auto	oma. The	heavy lushy were	snow f accumul reporte	ell í atior	or the	mostly	urs at	hern half of most locations 4 inches. Minor of 65 to 70 per
	affe face effe for 1000	cted area and air cted by 1 first tim or more	Sno ravel th. in h	v accum to a h New Yor Latory Dandone	nlation of the control of the control of the control of the control of the control of the control of the contro	on and ith or uway (avelle Tapper	l seve ily pa :losed ers sn i Zee	re dri rtial New Y owboun bridge	conditions in fiting brought sur- return to normalcy ork City to Albany di entire section; which took many		Oregon Pacific				repor					
	sis at r ed a for clos	on 10th a ajor airp s City su snow remo ed from L	nd llti orts. ifered val es ong Is	h as ser Delive: great : timated land to	veral ries losse at m mid	thous of mad s of b ore the	sand p il, fo susine nan \$4 1 Vall	eople od, et ss and milli eys, t	y close to paraly- remained stranded c. greatly hamper- sustained a cost on. Schools locked roads also		Pennsylvania South Mountain, Franklin County		Early mo ezing rain age report	was r		betw	veen j	:50 a.	m; and	Freezing rain 7:30 a.m. No
	ern proj cres	New York. erty dama sed to 6 ls and to	High ge in to 9 i	winds widely nches e	cause scatt aster	d some ered n Long	powe towns. Isla	r outs Snow ind, ar	rea of southeast- ges and light fall amounts de- id north of Cat- western New York		Bucks County	200,	Night driver of and coll complaine	ided w	ith ano	ther	vehic	1e. <i>i</i>	hicle passe	Snow when it hit an icy mger in the second
North Carolina	3-4 Gene	al windy	veathe	r did s	catte	red, r	4 nostly	0 minor	Wind damage to trees,		Slatington, Lehigh County	COM	dany. Add	lapsed itions	1 damag	was	done	when	the ro	Wind and Snow snufacturing of of a neighboring on the sprinkler
Mountains	9 Blew		ral tr	ees, at	leas	t two	4 of wh	0	Wind 11 on and damaged		Puerto Rico Rincon - Aguada	sys*	em causin	flee	d dameg			04	С	Wind and Rain
Most of State	norti trem Very exter phon (in seve stee ice;	snow sou ward to 1 east. S destructi ding into a lines an the two Caral days, I towers c in one pl	ight thow action	cumulat storm Caroli c. One s) with er 2000 g high	along lons along na, powe out e men volta er re	Virgup to cent. Whole r com lectrequies for the porter to the contract of the	inia b 20 in ral So sale b pany r icity red to nes ct d dowr	order. iches s ruth Ca reakag eporte for pe repai tumpleo	Snow, sleet, glaze area, tapering off Mostly rain ex- outhern Mountains. rolina border and e of power and teled d 100,000 customers riods of one to r damage. Heavy under weight of a three mile stretd	+		A le systalor In le west project for root coff	cal wind em across g the west exric Jage coast, a certy and c. h. and sation may	the i ern a sever some c there have	sland conditioned in the solution of the solut	ing faused hern betwee and r age. e ind nland	rom thight constant sin	winds al securion a storm of the were tons the the house	and h tions and Agu aused estim at a w	a frontal eavy rains of the island, ada on the considerable ated at AO - 50 rater spout destroyed, damaged. Some e damaged by
Mountains and Piedmon	coll bird by w deat	epsed under lost. Teather, but resulted	r weig here w t trai	tht of i tere no fic acc	ce an known ident	d sno deat s wer	waccu hsor enume	mulati injur erous a	frame buildings on on roofs; many less directly caused and at least one Snow, sleet, glaze t portion of state,		Rhode Island Statewide	and Blo	snow in t	he nor but fa	th prod	inced 6 to	snow 21 i	falls on the s	of only	Snow, wind in the south y .3 inch at ed on the mainland hads drove the
North Dakota	but A fe	damage onl	y scat	tered a	nd sm	#11 d	ompare	d with	storm of 15-16. and telephone lines Severe snow and ice			sno tio 65, sec for bus	into hug n. The wi COO custom cudary ros several d iness esta	e drii nd and ers we ds wer ays ar	is which show come with the block and seven ments are	oh immoduli combination cod by ral condition	mobil ned t servi y dri ommun dustr	ized look of down ce on fts an ities in ities	and an power the 9t daban were cants w	d air transporta ~ lines so that h. Primary and doned vehicles ut off. Many ere closed on r several days.
	Slo on lar tow cep and the in pre	28th. Sev ge number ers at Dic t extreme southeast state and	ere ic of pow kinsor east 1 30 cause le sou	e storm ver and and Ma ranged u to 40 m ed wide ath of E ns and t	in s telep indan, ipward iph wi sprea evils	houthwallone Heals to Inds bad sch	est ar outage vy sno 12-15 locked ool c	nd sour es and ow over incher d road losing ow acc	moving out of state th central caused toppled television all of state ex- sin north central sin all areas of s. Train stalled unulations from any roofs and		Statewide	with income of instance was	second mathematical second	rfalls ock Is and en air ts and were were	of 12 land on ow were and grand grand grand forced rdous forced	to 23 Febr fewe ound ss, i to cl	inch ruary r tha traff ndust ose o	es on 23-25. n duri ic wer rial a n the days	Whill ng the e agai nd edu 24th a	n halted because dational nd 25th. Driving ring the storm.
Ohio			None	e repo:	rted							Sno	w in the	abrth	and int	ermit	tent	freezi	ng rai	n in the south accumulations the north re- nunities received the 26th and forms and were
Oklahoma Northeastern One- Third of State	14- 15	6:00a., 14th - 3:00p., 15th	cipita	tion tu	0	0 to sn	? ow acz	? -055 MC	Snow		South Carolina	V1:	to 30 incl tals of up rtually bu treme diff	Liter I	m arric	ow fr in t s whi	com the	ne 23rd so coas suld on	throught that stal stal stal stal stal stal stal st	gh the 26th and drms and were nemoved with
	thr in fro in	e-fourths the northe m 2 to 4 i	of the astern nches.	e State one-th Great	. Sn ird o est d	dw ac f Okl epths	tumula homa of 5	tions where to 6 i	were light except snow depths varied inches accumulated and Okmulgee		South Carolina	15 17		tern :	part of	2	state	6	8 rom two	Snow, sleet and freezing rain.
Southwestern One- Fourth of State	whe	re accumul	snowst ations	corm bru ranged ted in t	from	l to	3 inc	ches.	Snow e-fourth of Oklahoma Greatest depth of ckham County.			th po ro th Or	an a foot rehes, per ofs of whi e area fro angeburg a e greatest	of sno manent ch are m Land nd fro accur	ow. Dam sawning not to caster to om Orang mulation	mage v mage vel co vel co Dil geburg	srque 11 su 11on a g bac ice d	ainly tes, can prortect and Mark to La	to stra rports 1. The rion, i incaste reezi	tures like , etc., the e counties in From Marion to er experienced ng rain that any- amage but the

FEBRUARY 1969

		CAL	HT4	Ŧ		. OF		ATED† MGE				CAL	FAT.	Į		. OF		ATED†	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
South Carolina (co	ontini pri	ued) cipal dar	nage wa	s to te	ns of	thou	and 1	of tr	ees in the	Texas (continued)	The	storm ti	des an	d high	seas,	whi	t up by	nded i	rom northern Fadre
	cate	strophic	disrug	tion of	elec	tric	power	and to	ling trees caused elephone service. es were damaged				Jan +h	Lunnar of	+ 00	lan i	htonea	linu m	ressure center in high pressure ridge rida. Hurricane-
	and Power	steel tow r was not	ers ho	lding p	ower all c	lines the	were 45,00	crump O aff	led to the ground.		fa	ce winds	and to	rrentia	rai	ns w	ere ger	the eve	ning hours of the
	rest	ore servi	ice to ito ha	more th	out	of do	teleph ors al	bnes.	was needed to Two persons nt and frozen to					1	1			1	iana border during
	Auto		s rela	ted to	hazar	dous	drivir	ig con	ourg county. Hitions resulted		an at	\$500,000	icio (ounty a	disa	ster	area.	Dama	Odem-Sinton area ge was estimated
South Dakota Eastern S. D.	14,				0	0	?	0	Heavy snow and blowing snow		wh je	en the shi bties and	imper sank.	"Deuces Three	crew	memb	ers, u	ned in nident	sherman, drowned to the Freeport Lified, of the board eight miles
	Heav	snow ald	ong wit	h winds	of I	5 to	25 MPI	caus heav	ed blowing and test snow fell in		es Th	st of the	mouth arshal	of the	Colo	rado ed wh	River. en was	The	shrimper sank. erboard the shrimp
	the s								et of new snow		Wa we	lon Hatche st of Angl	er, 19	a Hou	ton boa	nails t ove	an, dr rturne	owned d. On	f the Brazos River. in the Brazos River e person drowned
Northern S. D.	16, 17			ĺ	0	0	4	0	Freezing drizzle and heavy fog		ne mi	ar Corpus	Chris	ti. The	shr of t	imper	"Capt	ain Ga	ljour" sank two but the two
	Free	ing driza	le and	heavy nd tele	fog :	line	a he	vy gl	ze on utility en.		\$5	.000.000.	Mari	has. Dl	asur	e boa	uts.sn	rimp b	as estimated at pats, docks, piers,
Eastern S. D.	20,				0	0	7	0	Heavy snow and blowing snow		an Mo	d homes in re than 3	n the : 00 fam	Baytown ilies f	Erow Led t	hwood heir	Addit nomes	ion su in low	lying areas in
	Heav								ed blowing and owfall amounts of		ρ.,	2 4- 0	Page 1	11100	Title and	h was	bhad a	nosk	sult of flooding of 80 miles per nternational
	from	6 to 12			mon.	1					Ai 11 Cl	rport at i 6 was und ear Greek	lousto erwate were	at 9: r at Se cartial	6 p. broo v su	n. on k and bmers	the 1 house	Bth. s on T eak ti	nternational Texas State Highway odville Hoad near des at Buffalo
Eastern and North Central S. D.	27, 28				0	0	4	0	Heavy snow and freezing rain		Ва 9.	you at Mar 2 and 8.0	n Str feet,	et and respec	at 6	oth S	treet emah r	in dow	les at Buffalo htown Houston were d a high tide of
	form	ed a glaze	on ma	ny util	ity I	ines	resul	ting i	Freezing rain n extensive		or de	the lith	Sto to 5	rm tide O homes	s sen	t wat	er up	to thr	feet at 2:00 a.m. ee to four feet tion of Baytown.
		al part			1		mage		ed in the north		In mc		a 20 Champi	on Chev	ot b				onto 15 new auto- eet, and caused an
Eastern and Northern S. D.	1- 28				0	0	5	0	Glazing and drifting snow		y ₅	nd gusts	nippe	d over	and d	lamage At t	d thre	e plan	es at Houston's Municipal Airport
	line	in spot	y ares	s causi	ng n	mero	s brol	en li	formed on utility des. Periodically g in many closed		a	hanger wa nds.	s blow	n down	and f	our a	irplar	es wer	e damaged by high
	road woul	s. Snowpi i soon clo	lows wo	uld ope roads	n the	road F	s and equen	often use	drifting snow of pusher type snow-		Le	Marmie a	mlea.k	hocked	down	traff	ic lie	hts. b	the Texas City- roke plate glass
	impr	ectical to	open	the ros	ds w	th th	is ty	e of	ds and it became snowplow. Several bases outside of		w1	ndows and	tore	boats a led a t	nd ba ravel	urges Ling (from t	their m with a	borings. The 60,000 pound weight
	the stat	tate to d	pen so	me of t	he r	ads :	n the	easte	n part of the month due to		۱ ۵	tornado d	est.rov	ad a ba	m at	Arca	dia at	out 7:	15 a.m. on the lith.
m	snow	blocked :	oada.								A Ma	350-foot tagorda I	drill:	ng bara about 4	9 w11	th a	orew o	f 32 me mornin	m went aground on g of the lith. e 95-foot crew
Tennessee Chattanooga, Hamilton County	3-4				0	0	4	0	Heavy rains	•	l p	oat "Del 1	ride" i	an agro	nna c	on ma	dagora	4 12 18	o Introconetal
	heav	rains.	The Te	nnessee	Rive	rat	the fo	ot of	wlands during Walnut Street eight inches		Ti	terway be ne Federal sported wi	shind A L Aviat ind gus	latagord ion Age its of 9	ncy l	land Ligh Les p	Servier hou	ice Sta	m. on the Lith. tion at Palacios only highway link osed after a 50-
	belot Valle	the 30-i y Authori	oot fl	ood lev ned spi	bl. llway	Authors at	rities Chicks	of the	e Tennessee Dam to prevent		1 1	tween Cor ot strip at by the	br or	hee apt	nd Po roach	at at	ansas orpus	was cl Christ	osed after a 50- i Fass was washed
State	15-16	ling. Min	br sca	ttered	water 0	dama	ge was	repor	ted. Snow, glaze		0,	ly minor	damage	occurr	ed in	the	Sabin	e Pass	Port Arthur-
									a few greater depths in southern		W b	as estimat	ted at	\$250,00	D. Veat	A pea	wind Hureau	gust of	t the total loss f 58 miles per ; a fastest mile
	count befor	ies where e ending.	preci Weat	pitation her was	n cha	nged ntrib	to fre	ezing factor	rain and rain to most auto		0	f 62 miles	ner h	bur fro	m the	e sou	theast	was of	served at 7:15 a.m. al tide was a plus rmal low tide.
	and 1		swning	s and s					ic deaths. Trees ed by the weight		T W	e Reserve	el l'Ileet	ulat Bea	dimon'	t on	the Ke	dhes K	ver reported a 9:30 a.m. on the
Texas Middle and Upper Coast	13- 14				7	0	7	?	Storm tides, torrential rains,	<u> </u> -	l e	stimated i	in exce	elss of 8	36 , 00	q , 000	as a	result.	oer Texas Coast was of storm tides, and the tornado.
l									windstorms, tornado	Houston Harris Co.	21			1	0	0	4	0	Flooding
	WOT	st since	Hurric	ane Car	la, b	atter	ed the	Middl	ous seas - the e and Upper Texas the early morning		w	ter from	two Ho	diston t	RYOU	s bac	ked up	into .	ons in Houston and bout two dozen at W. F. Hobby
	hou wea	rs of the ther and	14th. damage	Seven to pro	pers	ons 1 exce	ost th eded 1	eir li 6,000,	ves in the stormy 000. A tornado		A	rport mea	ured	2.74 in	ches	with	in a 2 imated	as mu	period on the 20th
	oth	erwise ca	used n	o damagi	b. 1	hree i	shrimp	boats	royed a barn, but sank in 20- to ached 9-2 feet in y wrecked coastal		l o	f Antoine	horth	of the	Hous	ton c	Tra Tra	MALUS.	you backed up into e York Road, east Water was 13 inches
	the ins to	Houston- tallation an estima	Kemah- s. Wi ted 10	seabroo nds gus O miles	k are ted t per	o 99 hour	Galves miles at Hid	ton Ea per ho h Isla	y wrecked coastal ur at Palacios and nd. Torrential		d W	eep in som	ne home	s. Sin	nts Ba;	you o	verflo main a	wed in rterv	to two subdivisions from Baytown to Froperty damage
	rai	ns of mor e than 6	e than inches	ll inch	nes i area	n the from	Odem- south	Edroy- of Cra	St. Faul area, and mge Grove and		w w	nterstate as estimat	ted at	\$12,000	. "	1	[
	the	1/sth and	along	Chiltik	nin O	reek li	at Sid	ton th	Nueces and San on the morning of rough the after-	Utah			None	reporte	d	!			1
	noo	n and nig m and 300 gers at t	ht. F	lood wat in Sint	ters	enter Hate	ed an	to 2	ted 75 homes in to 3 feet in										

																			FEBRUARY 1969
		CAL	PATH	Ē		. OF		ATED†				CAL	#T*	Ŧ	NO. C PERSC		ESTIM. DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
Vermont State	3-4	Storm y to 70 m power 1	nes. ost o	cally. Trav f the	Fa el c snow	lline ondi	tre ions	es and	SNOW, WIND Wind gusted I limbs downed be very hazard and the high-	° Includes cro C Crop damage. * Miles instea † Storm damage: 1 Less than	d of s ar	yards. e placed	lind	atégor	ies v	aryi	ing f	rom 1	to 9 as follows
State	9-1	Storm y the sta little snow in and str closed and num of high Brattle station were af	e ex as 2 to huce ets, store erous vays oro, and fecte	cept inches ye dri aband s and accid extrem snow many d else	fel fts. oned scho lents lely coll buil	e ex l. (The carr ols, Ma diff apsed ding	reme sale e sto s and powe roone icult d the s, bo	mort winds rm le stra r and d aut or i roof th ur	SNOW, WIND f snow across twest where as whipped the tclogged roads nded motorists, phone failures, oes made plowing mpossible. In of a service ban and rural d drifting snow of roads.	2 \$50 to \$5 3 \$500 to \$5 4 \$5,000 to 5 \$50,000 to 6 \$500,000 7 \$5,000,00 8 \$50,000,00 9 \$500,000,00 Note: This publ due to the diffitit in not all-in	00 5,00 \$50 o \$5 to \$ 0 to 000 icat	0 ,000 00,000 5,000,00 \$50,000 0 \$500,0 to \$5,00	0,000 000,00 00,000 cains erent	,000. our be	lecti	on o	of th	is ty	pe of data,
State	24-	The sectotals Johnsbuthe extonly 6 southwe	ond m broke Ty wi Teme to 12 st. M Ity a	ajor s previ th tot northe inche ost man	ous eals east. s wi	offi offi most Most th se cads	in to cial ly two st of ome lawere s and	o we recor to the esser kept othe	SNOW eks. Storm ds at St. three feet in state received amounts in the open but with r activities many areas.	ried in the June SUBSCRIPTION PRI domestic, \$2.00 able to the Supe ence regarding s Documents, Gover	and CE; fore rint ubsc	15 cent ign. Cl endent (riptions	er iss ts per necks of Doc s shou ing Of	copy; and mo uments ld be fice,	year pney o Resent washi	ly : rde: mit to '	blica subsc rs sh tance "Supe on, D	ripti nould and rinte	ons \$1.50 be made pay- correspond- ndent of
Virgin Islands	Ir ad we co	rport rum ore cancell onsiderable ops from m	fall of ays an ed unt prope	d stree il the ety dam water.	follo follo age t	Char wing o mer	lotte day at chand: ay at	the a ise occ St. Jo	flooding of All flights inport and urred in the hn reported he hotel area.										
Virginia North	in en on Au	ow late on	rthern e inte om Alb ty. S	counti rruptio emarle lick ro	es. ns we to Fa ads w	Wides re re uquie ere a	read ported r cour facto	but mi l main nties a or in n	Snow ited up to 8 for electric ly extending id also in unerous anded										
Washington West Virginia				e repo		ì									-				
Wisconsin			Non	e repo	rted														
Wyoming			Non	e repo	rted	1													