U. S. DEPARTMENT OF COMMERCE LUTHER H. HODGES, Secretary WEATHER BUREAU ROBERT M. WHITE, Chief

STORM DATA

AUGUST 1964 Volume 6 No. 8



		ا ا	Ę	_		. OF		ATED†			1	ً پر ا	Ę	ا _		. OF		ATEDI	
PLACE		LOCA	OF PATH ES)	F PATH DS)	PER	SONS	t	AGE	CHARACTER OF	PLACE		LOCA	OF PATH ES)	F PATH (0S)	PER	SONS	 	AGE	CHARACTER OF
	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PAT	KILLED	INJURED	PROPERTY	CROPS	STORM		DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM
ALARAMA North and West Central Alabama	14	Afternoon and			0	1	5	0	Thunderstorms	ARKANSAS (Cont'd Newport area, Jackson County	ii.	3:30 p. to 4:00 p.	в	* 5	0	1	3	0	Wind
	Hi _l	evening h winds, vy thunde	lightn rstorm	ing and	heav	y rai n sca	n asso ttered	ciated damag	with numerous e over widespread		Mine of F	r demage i emport. I	n News	ort are	a. ntro	utom of	pbile par in	accide Wind	nt 5 miles south and hit a tractor
	gl:	as. Live ass window ages dama	stock s brok ged, s	killed en, sig mall on	by li hs bl t bui	ghtni own d Iding	ng, trown, residest	ees up crches royed	rcoted, plate, carports and or damaged, and r lines by falling yette County due ightning 5 percent	Benton area, Saline County	11	3:45 p. to 4:15 p.	큠	30	٥	3	٥	0	Lightning
	to an	lightning heavy ra	in 5 p	ercent.	Neg	perce	nt dan Le dan	age, I	erops.	Stuttgart area, Arkansas County	11	3:45 p.	18	220	0	0	5	4	Tornado and win
ALASKA			No :	eport	rece	ive	by 1	rint	ng deadline	Alzadasa comity	Wi w	to 5:00 p.	-4 -+	60			b)		
AFIZONA Southeastern & south- central parts of State	1	nd-vet or	notiv	fity cor	O	0	ol,	C	Thunderstorms (rain and wind) the southeastern		the at Stu the	county. Stuttgart Etgart are	A park at 4:0 a at 4 oa wit	ed priv 0 P.M. :00 P.M h no me	ate i	torn	une was adoes i	blown tere of a sk	rty damage most of over nearby house served in the ipping fashion in was turned on it
	an Mo ca da	d southcer st of the using dama mage was a	tral parea b ge to 150 re	etveen highway ported	the S Stand s and near	tate ield some Mesa	causi and M dama In	ng hear ricope se to : the Do	y local runoff. was flooded, armland. Highway glas area, flood- fs and utilities.	Searoy area, White County	11	3:00 p. to 4:30 P.	30	* 22	٥	0	4	0	Wind
South Phoenix	Į,	3:00 p.				1	5	0	Wind		som	disrupte led during	d elec	trical	servi	CO.	Also,	5,000	ty damage and chickens were
	pro One	perty dan woman wa	age in s inju d over	South red by	Phoer Tlyin	dx to g det	home: ris.	and i	considerable tilities. orm then moved veral aircraft	Blytheville area, Mississippi County	11 Fun Bas	5:46 p. nel cloud			O les s	0 outhe	O est of	0 Blyth	Funnel cloud
Southeastern and central Arizona		Afternoon	ł		0	0	۰5	С	Thunderstorms	Hompstead County	n	5:30 p. to 6:15 p.	12	* 3	0	0	4	0	Wind and lightn
	do	npours in	unders	areas.	Most	y pro	duced ge vas	locali water	y heavy damage to ed to crops.			derstorm	noved	south.	Dame	ge to	prope	rty an	d electrical sys
	Cas	a Grande,	Flore	nce and	Eloy	were	heavi	ly flo	oded with most north, Winslow rrounding mountains	Ashdown area, Little River County	22	2:15 a.	3	100	0	0	3	0	Tornado
	in Mer	reasing t	he flo pital	bding. and all	All high	patie way t	nts we	re eva	cuated from Winslow 11 as Santa Fe			ado repor					oks co	mmunit	y, 3 miles north
Tempe	ra:	lway traf 7:00 p.	fic wa	s halte	d in	the a	rea.	0	Rain and wind	Conway area, Faulkner County		Afternoon			0		8	0	Lightning
	Mo:	t damage	caused hour c	by flo	oding Loodi	Un ng of	usual] busir	y heav	y downpour in homes, and	M. In A Community	17 5	iles nort	ı⊸norti	meast of	Com	ay.		i	Springs community
Peoria	CA	s. Some	vind d	lamage t	o tre	es ar	d util	ities.	Hail	Marked Tree erea, Poinsett County	25	4:30.p. to 5:15 p.	6	* 3	0	1	3	2	Wind and lightmi
	Fas	rly heavy	damag	e was d	one t	o eot	ton by	a hai	lstorm. Property		Wind	caused mi c)t the cay	nor di radi	mage. antenr	Man ed au	sligh ween	tly in Marke	jured i 1 Tree	when lightning and Payneway.
Tueson	١.	age was l	ľ	1181	0	0	Lo g	0	Lightning	Evening Shade area, Sharp County	25	4:30 pe	1	880	1	2	0	0	Lightning
		itning cau ler.	sed a	fire wh	ich d	estro	yed a	large	construction						rred	4 mi	өв пот	th of	Cave City.
Tucson (4 miles WSW)	27	11:16 a.			2,	9	4	0	Tornsdo	Jonesboro area, Craighead County	25	6:00 p.	moved 40	a 30	0	0	5	4	Wind, rain, hail and lightning
	This	was the	first ropert	ornado y damag	repo	rted terms	in the	State llar v	ing four dwellings. causing a death. alue was to the	o, anguous some	844	12 Mid.	mage d	ver cou	ntv v	hith	rolon	ed the	mderatorm activi
arkansas	Xav	er, nearb	e nuns	aped wi	th on	cis. ly mi	nor st	ructur	c Mission San al damage.	Harrison area, Boone County	27	3:00 a. to 8:00 a.	20	* 10	0	0	5	3	Wind rain and lightning
Reservoir,	11	2:35 p.	2	* 2	0	0	4	0	Wind, rain and lightning	CALIFORNIA	Rai)	· 1	ve dama report		roa	is in 1	orthe	ast part of count
Cleburne County		3:20 p. derstorms oats and 1					s caus	ed con	siderablo damage	COLORADO San Miguel County	3	5:00PM			0	0	4		Heavy rain
Little Rock area, Pulaski County	11	3:00 p. to 4:00 p.		* 10	0	0	5	0	Wind and lightning		Heav cause ing with	rain in d floodin he San Mi large bou	g in n guel R lders,	umerous iver	gull Roads	ies, and	12 mi along yards	les we the hi were w	st of Telluride, ghway parallel- ashed and covered s flooded and a
	addi had port	tion to m electrical	mercu troul	build: le for f 61 m	nga :	ng p	k by 1 eriods	ightni	siderable damage in ng. 12,000 oustome ne Adams Field re- ne private sircraft	El Paso County	ų Heavi heavi	damage i	sed fl n Mani	tou Spr	ings.	Hon	es, to	Ruxtor urist	Heavy rain & hail creeks causing courts and busine d roads were wash
		3:00 p. to 4:00 p.	ł	• 10	o	0	5	3	Wind		ed on aged		ked by	rocks	and m	ud.	Hail u	p to g ldings	olf ball size dam
į	prop	_	e Plea	amty hisent Pl	t han ains	d by and i	winds lora	with nareas.	much damage to		Light Gore were	ning stru Wild Area badly daz	at 12 ed and	:55PM, shaken	injur up.	ing t	men. he aft	struct They ernoor	ion Camp in the suffered burns and lightning structured and release
Woodruff County		to 4:15 p.							find damaged. Woman		but 1 cardi	he other b ac arrest	boy su and	fered vas hos	'seco bital	nd-de ized	gree e in cri	lectri tical	cal shock and condition for sev an while he was prings. He suffe

AUGUST 1964

		T- 7		NO.	OF T	ESTIM/	TEDI				,	-		NO.	OF	ESTIM	ATEN!	
	CAL	PATH	Ŧ	PERS		DAM					CAL	РАТН	Æ	PERS		DAM		
PLACE	Sg	19.8	. PA	\Box		_		CHARACTER OF	PLACE		ន្ទ	3 (5)	4 (80			> -		CHARACTER OF
PLACE	- 20 - 10 - 10 - 10 - 10 - 10 - 10 - 10	ET .	YAR	e	e l	E	50	STORM	FLACE		. TO A.	FF	YAR R	e	8	ERT	ایا	STORM
	DATE TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERT	CROPS			DATE	TIME - LOCAL STANDARD	LENGTH OF	WIDTH OF PATH (YARDS)	KILLED	NJURED	PROPERTY	CROPS	
	5 5"			لتا						L-	F 02	لـــــــا					لت	
COLORADO (Cont'd.) Afternoor			0	0	L		Heavy rain	IDAHO Wallace	12	7:00 p.				ł			Heavy rain, hai
	leavy rain of	cloudb	ırst pr	oporti	ions	hit As	pen, f	looding parks,		l			1 22 4	nobad		n min		wind d 1.40 for enti
	streets, yards mud, rocks and	land s	wimming Which w	pools ere wa	s. Ho ashed	down	ve dan from A	age resulted from spen Mountain.		stor	n. Some d	amage	to seve	ral t	asem	nts,	nclud	ng hospital and
rimer County	6			1	0			Lightning		litt	t nouse. le to the	damage	na wina	acco	mpan	led Ta	in, bui	apparently ad
	lightning stru	ck and	killed	a wor	nan te	ourist	on Tr	ail Ridge Road,	Priest River	17	11:15 p.	[5		Lightning
•	«s standing r	ear a	es rark stone r	etaini	ing w	all al	ong th	ional Park. She e highway.	TITLES ALVES	l] ae.	etad bu	1104	tuin	-	1	large part of
stern Colorado	11	1		0	0	5		Heavy rain			er mill it					, des	royeu	rarge part or
	Local heavy ra	ins at	variou	s wes	tern	Colora	do poi	nts, caused much red roads. Sec-	Ola (near)	18	Unknown				1			Wind
	thong of the i	Mand J	anction	area	had l	bridge	and r	pad damage. At		Woma	n hospital	ized i	n criti	cal c	ondi	tion f	rom in	uries incurred
	Du ray, the flo mudslides and	odding washou	damaged ts.	the	water	syste	m and	closed roads with		when		e was						Reservoir abo
estern Colorado	12 Evening			0	0	•6	С	Heavy rain	1	1	1							n 1 011
	Heavy rain ag	ain cau	sed flo	paing	dama	ge in	the G	and Junction, med rain caused	Sandpoint	28	Late							Funnel Cloud
	some damage to	the m	alting	barle	y crd	pand	to ros			Well	-defined :	unnel mnel b	sighted ottom.	near estin	air	about	ving 1	lowly in easte et in diameter
	water and sew	er syst	ems and	to p	rivat	e prop	erty.											e reported.
CONNECTICUT		Моле	report	ed		. ;			Coeur d'Alene	30	Unknown	-		ĺ		4		Lightning
DELAWARE	26 4:00 p			0	0	ų	0	Thunderstorm		Ligh	tning was	appare	nt caus	e of ntent	fire	which	destr	yed one-story
	6:00 p.							with heavy rain	ILLINOIS			1	repor	1		1	}	}
	many streets	lwith	water 1	up to	TO 1	nches	deep	inches, flooded Downpour was	INDIANA	1	}					ļ	}	
	accompanied power service	by win	pis, ob:	serve	d at	מת כס	p. T	elephone and						_				
	property dam	age wa	в геро	rted.	Sto	rm di	1 ben	fit the	Brazil, Clay County	3	5:15 p.			0	0	3	ł	Hail, wind
1	community by	1 1	1	1 1	, ,	w wat	er su	bra.	Winchester, Randolph County	3	8 p.	Ì		1	D	4	2	Wind, rain, ha
FLORIDA	See da	ta at	end o	r tab	le	. 1		. [Tent	s collapse	d and	one man	ki 11	ed.			
GEORGIA Llanta Area	14 6-8 pm			0	0	4		Thunderstorms	Terre Haute	4	}	ļ		1	0	0	0	Heat
	Severe thund	lerstor	s hit	the me	trop	olitan	Atlar	ta area causing and considerable		Man	died of h	et st	oke.					
	wind damage.	. Ligh	tning s	truck	13 por	wer su	.pstati	.pns and also dam-	Columbia City,	11	1:45 p.	6	1 mile	0	0	4	3	Wind, hail
	to 55 miles			on Cou	enty .	arrpor	repo	rted wind gusts	Whitley County		1 -	33	100 00	at of	Colu	mbia C	tv.	wo miles fart
apelo Island	8 10:14 p						İ	Funnel Cloud		to t	the norther hail fel	st the	wind o	lamage	d ba	ns, h	ouses,	and trees. Ma
•	Reported one	mile	off sho	ne by	pilo	ŧ.				1		· An	Tumi nui	l		ŀ		
Jolumbus Area	12 6:30 -			0	0	4	0	Thunderstorm and Rain	Indianapolis, 15 miles northeast	11	2:30 p.	i	1	0	0	0	7	Hail(3/4 inch diameter
•	8:30 p Massive thu	ndersto	m caus	ed ex	ensi	ve lig	tning	damage and	Connersville, Fayette	١,,	4 p.		İ	0	1	3	0	Wind
								sts were strand- he evacuation of	County	1	1			}]	}	-bad	
		rsons f						l roads were hea-		1	son was in	jurea	nen a		l	1		
or on the desired] [1		0	0			Windstorm	Kingman, Fountain County	22	7:05 p.	1		.0	0	0	0	Tornado
ifton, Tift County				inume	rous			maged several		Tor	nado touch	ed gro	nd bri	fly	ut c	aused	no dam	age.
	buildings. wind, light					tric a	and te	lephone lines by	Fremont, Steuben	28		2		0	0	4	2	Wind, rain, h
tlanta Area	22 4-6 р			,		և	0	Thunderstorm	County	Sev	eral farm	bui l di	ngs dam	ged	dr de	troye	d. Th	ere was some h
	1 1 .				1	1		and Rain		rai	n and hail	1		l	}			
	ing widespr	ead int	rrupti	ions o	r ele	ctric	and to	tilities, caus- elephone service	IOWA Britt	10	8:00 p					5	4	Windstorm
								ge caused by I caused numer-	Dysart	111	1]	4000		İ .	4	5	Windstorm
	ous washout									1	1	1				-	4	Hail
ear Brunswick	27 12:26 p Observed of	flohan	January .	י וישום ז	Tela	hd		Waterspout	Dysart	11			1			1	4	1
		- Janore	TT OIL C	1				·	Davenport	11	2:00 a		1			4		Lightning
astern	30		-	0	0	5	L	Hurricane Cleo	SE Bremer County, near Readlyn	20	3:45 p	1	100			4	4	Tornado
	Hurricane C	leo had	l weaker	ned to	no m	rentis	an ga rai	le force winds by		20	1 1.05 -							Funnel Clo
	the storm,	caused	very he	avy d	amage	in th	sou	theast and eastern	8E LeMars	1	1	1.						1
	area by win	ds that	reache	ed 44 :	mph i	🖈 gust	ts and	numerous power	2N Lamoni	50	1	1				4		Tornado
	knocked dow	n by fa	Uli ng t	trees	and b	anche	st. S	ing blown down or torm rainfall ex-	Bonaparte	20 Mo	10:07 p	1/4	50 e \$200	Joan	F	unne1	a.lof	Tornado first sigh
	ceeded 9 in	nches i	n the c	oastal	l area	as nea	r Sava	nhah and was		10	miles S	w of	Bonapa	rte	near	10 p	m.	
	rains fell	over m	ost of	the ea	asteri	thir	d of t	ea. Excessive he State, causing	SE Bremer County	22	1:45 p							Funnel clo
	heddane an	Ann? are	nte nuo	r amol	la eta	Manme '	ubre w	nd. Numerous	Grant	24					1			Lightning
	in the Aug	e of ma usta ar	ny road eas as	flood	oput :	415 fa rs bec	m puie s ame kr	were evacuated nee deep in some action of Savannah	Garner	1	10:00 a		1	1				Lightning
	homes, 75	to 100	homes	were f	floode	ed in d in s	one se malle:	ction of Savannah communities in		İ	i	1		-		3		Hai1
	1 444 5-4		~		.4.4 4.	ah and	that .	omth of Romandek	10NW Des Moines	3/			er.	}	1	'	}	nall
	point nort	h of Ja	cksonvi	ile.	It p	assed	a few	rer water from a miles west of most due north, and mg of the 30th near	North English	24	7:00 [,				4	4	Windstorm
		notice Oc	dD am c	n the	P9th	, movi	ng ali	nost due north, and	11		1 '	İ	1	1	1	1	1	
	Savannah a entered So	uth Car	olina d	uring	the e	early	mornin	ng of the 30th near	Lockridge	25	1:00 2	. 1	ì	1	1	4	1	Lightning
	Savannah a entered So Augusta. sedure a s	a man w	as arow	mea so	օր տ	qı pru	TENTO	f Munite culture no	Lockridge 2N Atlantic	25	1:00 a		100			4		Lightning

See reference notes at end of table.

ı		CAL	PATH	£		OF SONS	ESTIM. DAM	ATED† AGE			ł	SAL.	ΑTH	₽		. OF		iated† Iage	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	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
IOWA (Cont'd.) Stratford, Hamil- ton County	27	9:00 p	1	50			4		Тогладо	KANSAS (Cont'd.) Barber and Harper Counties	1	4 - 5 p.	4 5.43	6.11			3	3	Hail, wind
7N Charles City	27	10:55 p	1	75			4		Tornado	McPherson, Brown,	29	Evening	a tieri	rell		2	ft aug Al	na ara	damage in Hazel Wind
V of Algona	29	4:30 p	10	100	l		5	4	Tornado	Shawnee and Wabaunsee Counties	McPh	erson and	Iopeka	had th	e mos	t dan	age.	Two pe	rsons were
N Fort Dodge	29	4:38 p	2	75			4		Tornado		1	red by fly	ing de	bris in	the	ì	1	7	
-		ed NE.								Newton	30					1	2		Lightning
Ames	29	5:00 p				1	5		Windstorm	Topeka	31	6:30 a. to					5		Rain, wind
Dakland	29 Hai	5:30 p 1 diamet	er 1	3/4".	•		- 4		Hai1			8:30 a.							
Joice, Worth	29	5:55 p		150	ļ		5	4	Tornado			rains ca ern portio				g, no	stly :	in nort	hern and
County						1				Franklin	Ι.	8:43 a.							Funnel aloft
15 NW Mason City	29 3 f	6:00 p unnels s		100			4	4	Tornado				wasr	enàrted	seut	n of	Missl	Site	Ne. 2 near
N Cedar Rapids	29	10:05 p	TRULE	u.					Funnel cloud			ropolis.	Mero 1	spor oed	-04	51	11301	5100	io. 2 near
7NE Washington	29	10:30 p					4		Windstorm	Russell and Ellis	31	Late				3	5		Tornade
KANSAS	ا ر			[-	ĺ	Teinhaudan	Counties		afternoon						ĺ.,	
llen County	5	2:00 a.				١	7		Lightning		that	at least	four t	prnadoe	s occ	urrec	. On	e was a	and it appears
	A ba	rn and com 2 miles we	tents	Were de	stro	red b	y ali	ghtnin	g-caused fire		5:20 for	p. about 2-1/2 mile	l mile	southe	ast c	f Gor morth	ham; east	it move and fin	d northwestward
ntral and Eastern	6	'				1	4	4	Lightning, wind		lt.he	dreamad about	ht. h m	files no	ht hes	ist of	n Gorh	om - "D	ie length of
nsas	A bo	v was init	ared b	light:	ning :	near	Belle	Plaine	and buildings		appr	eximately .	mile	s NNE o	Gor /2	nam o	ccurr	ed 30 t	nother, o 45 minutes the path of
	and	crops were	é damag	ged at 1	vario:	as lo	cation	s in C	owley, Elk,		the	first torn	ado.	A third	torn	ado o	ccurr	ed at 6	the path of :45 p. causing s northeast
ntral Kansas	9	Night		, ,			5	5	Wind, hail, rain		of H	ays and al p. 5 mile	so at	Catheri	he.	Anoth	er to	nado o	ccurred about
Motar names.	_		1 8340	h Bio	Par		´		Harvey and		1	[o oout)#EGU ()	, ide	BULL	l		W-23 -4-4 -
	Comm	anche Coui	hties i	vere af	fecte	i by	this s	torm.	Hail as large	Russell, Osborne, and Ellis Counties	31	Late afternoon					5	Ì	Hail, wind, re
		olf balls	rell:	southea	st of	FIIS		ĺ									at Vic	toria	and golf ball
rtis, Osborne County		Evening	١.,	201			2	6-11	Hail		size	stones o	curre	i near	Russe	11.		1	
			p to 1.	+1/2 1m	cnes .	ın aı	Bmeter	Terr	over a small area.	Seven miles SW of Collyer	31	3:00 p.			1				Lightning
wler, Meade County	13.	Evening	d cont	ante va	no de	et.ro.v	u hv	iohtr	Lightning, wind Ing-caused fire;	Rush County	31	7:30 p.				ĺ	ĺ		Funnel cloud
	wind	did damag	ge to	several	farm	buil	dings.	TIGHT	ing-caused life,		A fu	nel cloud	was o	pserved	betw	een C	tis a	nd Bisc	n.
isington, Barton	17	4:00 p.					4		Wind, rain										
unty	Dama	ge was abo	ut eq	ally d	vide	l bet	ween w	ind an	d flooding.		ļ			SPECIAL	HAII	SUMM	ARY		
er Milan	17	8:00 p.							Funnel aloft			Loss Clea re as foll		ouse re	ports	indi	cate 1	ail wa	s especially
skell and Grant	19	Evening	l				5	4	Wind, hail		20	Haskell C							
ounties	A ga	s drilling	grig	as blo	T do	m 18	miles	south	east of Wysses;		24	Marshall		mhingto	Con	nt 1 as		İ	
	than	3/4 inch	did d	amage t	c the	milo	crop.	un a o	lameter of less	KENTUCKY	-4	Marshall	апс на	pinzingeo	. ~.	10101			
stern one-third of	20				İ	1	5		Lightning, wind	Eastern Counties	3	Noon			0.	0	04	C	Electrical w
ne State							damag	e. A	nan was injured in	. Lacetii Councies] _	NOON]]] .	hail
own County		100sa as : 5:20 p.	resu	lt of 1	ightn	ng.		3	Two tornadoes										longitude and
own country		to 5:50 p.	Ì '						140 001		abo	ut noon un	til al	most mi	dnigi	it. i	ind d	owned	occurred from rees and utili
			L.,			,		ļ, "	auth of Warratha		lea	st 4 barn s	ord	ther bu	ildi	gs, o	lowned	a num	unroofed at er of TV aeria
	abou	t 5:20 p.	and to	ouched	down	a few	minut	es lat	orth of Hiawatha er. As it moved		at	Least 3 ba	rns an	d damag	ed 8	vera	l othe	s. A	tning destroye Air Force B-4
	grou	nd and ra:	sed o	ff the	surfa	ce; t	he len	gth of	ly touched its path was		jet and	plane at lost its	23,000 ríght	feet w wing fu	as a el ta	ruck nk n	by li ar Bo	htnin tts in	about 11:30 p Menifee County
	4 mi	les east	and 1/	nile :	orth.	of H	Lawath	a, ski	touched down		In	at least t dows and c	hree a	reas ha	il ar	d wir	d đạm	ged c	ops; hail smas
				fields;	the 1	vidth	of it	B path	, 30 yards.	Eastern Counties	4	Aftn.			0	0	04	c ·	Electrical, w
ntral Kansas		Afternoon					4		Hail									1	rain
· į									es the size of golf balls at										longitude Fires appare
	Hanc						-			1.	set	by lightn	ing bu	rned at	leas	t one	barn	and da	maged at least es. Wind and
Pherson and agwick Counties		Early morning				1	4		Heil, lightning		cau	sed consid	erable	damage	to c	orn,	tobac	o and.	fruit crops in
σ€41 <i>pV</i> ∧0πιοτ82		_	h inch	in dia	met er	fell	at IR	chita-	A lightning-	State	ı	at one loc	аттей.				05		Tail
	caus	ed fire of	ccurre	i near l	ound:	ridge	and a	boy w	as injured by	State	11	Aftn.			0	1	,	C	Hail, wind, electrical, r
***				CHILDS!	ome !	TAU	U	-ug ni	t a mirror.										age of a cold
ttsburg		10:30 p.					3				Los	ses, chief	ly to	tobacco	and	corn	due	o hail	rnoon and even and wind occu
		ball size		١.	eport	ea.				1	in rep	several ar orted. Wi	eas. nd was	In one respon	locat sible	ion t	ail ti a numi	e size	of ice cubes trees and util:
tchell County	27	3: 25 p.	20	15			4		Tornade		lin	s down.	In som	e areas	heav	y rai	n tota	led fr	om 2 to 3 inch siness distric
	A to	rnado beta	reen H	inter a	nd Ti	pton	noved 1	orthe	ast. One eye		and	streets i	none	localit	y, in	west	ern K	ntucky	. There was ashing (water
		ess descr									dee	in some	yards)	in sev	eral	areas	in n	rtherr	Kentucky. In by lightning.
,			1	I	1	1	I	ĺ	155 244	l I									
ntral and stern Kansas		Afternoon and					5	i	Wind, lightning, hail			the Stater							damaged by fir

1			_		No.	OF	EFT	ATEC+					Γ		110	05	EC7	ATER	```
	SE		РАТН	E		SONS	ESTIM. DAM	AGE			ļ	Ver	PATH	Ŧ		OF SONS		ATED†	
PLACE	DATE TIME - LOCAL	STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	NJURED	PROPERTY	CROPS	CHARACTER OF STORM
KENTUCKY (Cont'd.)) р.			0		?	4	Wind, hail	MAINE Oquossoc	8	РМ			0	0	0	1	Hail
Í	Wind and	hail	heavi	ly dama:	ged a	numb	er of	tobaco	o crops.		Ston	es 3/4 in	ch diar	eter.		Ĺ		()	
Western Counties	25						05	С	Hail, electrical, wind, rain	MARYLAND Westernport - Luke area, Allegheny	30	6:45 p. 11:00 p.			٥	0	4	0	Thunderstorm with heavy rai
	Scattered	thu num	nderst per of	orms we locati	st of	850 from	longit 1½ to	ude re 4 inch	sulted in heavy es in 4 hours.	County					١.				
j	Wind and	heil!	diá c	onsider	able	damad	e to t	obacco	in at least one		inc	hes between	en 7:	5 p. 6	weat and 9	00	oserv whi	er rep	orted 5.80 observer at
	downed to	ee a	nd uti Least	lity li	nes.	Fire	appar and co	ently ntents	sections wind set by lightning		the	same tim	e. B	Inche	es, m tswe	e f	r whi	wash	l at about outs spread
LOUISIANA	' (ĺ			,						cor	ris over tents wer	roads e dam	and st	treet	e; 8	dome bu	ilding	s and their
Plaquemines Parish	4 11:0 11:1 During ra	9 a.	ower.	waters	out 2	P Bu	rrwoo	move	Waterspout from NW toward SE.	Somerset and Worcester Counties	31	Early			0	0	3	0	Heavy rain
Southwest Division	5 3:4	5 р. 0 р.			0	٥	4	4	Thunderstorms, wind, heavy rain, funnel			norning &			j	ļ			
			dersto	rms mov	ed ac	uthwe	stwar	d. ble	clouds aloft down utility		Loc	ally heav	ry sho	vers frotals	rom d up to	1881	pating inch	hurri	cane Cleo, Ocean City
	poles and	tree	s, dan	aged ro	ofs,	and	lodged	rice.	ACADIA PARISH:		and	at Snow	H111,	brough	ht so	de r	elief	to an	area suffering damage was
	lightning	WES	estina	ted to	be or	ier 7¢	ш.р.	h. ia	gusts. Lightning			orted.				İ			
	knocked f	lat t	y wind	and re	in.	JRPF	RSON	DAVIS	ly headed rice PARISH: Some tele- CALCASIEU PARISH:	MASSACHUSETTS Northeastern	19	5-6 PM		-			4	0	Lightning
	Winds gus	ted u	p to 7	8 m.p.i	. A	tied	down	airpla	ne, Lake Charles About 5 p., three		Scat	tered power	r fail	ures.	with :	na tor	damag	es to	radio station in
	funnel cl	ouds	Aloft	were re	porte	ed ne	ir Lak	e Char	les Golf and Coun-			and a co							
	QU whine	4	dr	ind to a	4 h) ()	ndina	force	at Ro	es from the S and lly Beach, followed	Bastern	26	Afternoo	4	ŀ	0	0	4	0	Lightning, wind,
	p., it wa	8 to	dark s	treet	light	Came	on a	ng th	under. Around 5:30 ibility was reduced rom unofficial in- tornado reported way, enroute John- during terrific	{	Bui 1	dings and	ut111	v line	a dam	aged	by lia	atnins	Trees felled
	struments	ero.	5:40	p., 6 V	Hol:	ly Be	ich, r	oar of	tornado reported		and	utility 1:	ines de	maged 1	by wi	nd.	Also s	catter	d local excessive e damage through
	son's Bay	ou re	ported	auto a	lmos	mrre	ntrol	labla	during terrific		Seek	onk and the	e sout	hern p	art o	Reh	oboth	sugges	ed the passage
	ing up de	bris.	In I	owery,	Klon	dike.	and S	veetla	ke areas, a lot of	Hampden and Hampshire		Afternoo				0	4	0	Lightning, rain
	mature ri	ce wa	s blow	n down	but	great	test 1	OBS WA	to young rice in	Counties	-	ALLELMOON	1			"	*		arguening, ruin
Allen Parish	6 2:2 Pilot rep	0 p.	funne	1 cloud	3 -	4 mi	les SE	Kinde	Funnel cloud aloft		Scat a fi	tered lig	htning hicoper	damage motel	to u	tilit me wa	ies an	d buil and fl	fings, including odding damage more than two
Calcasieu Parish		4 a	-				·		Funnel clouds		inch	hes of tai	fell	in an	hour,	from	about	7 to	p.m., following one inch in the
	9:24 a9	0 a. :30 a	., 8 1	E Lake	Char	es, i	ilot	report	ed funnel cloud not			inutes en				1			
-	nel cloud		na. I	3:50 .a.	3 10	Lake	Char	les, F	ublic reported fun-	MICHIGAN	ļ			} .			5	c	Thunderstorms
Lake Pontchartrain		3 a.							Waterspout	West and Central Upper Michigan	1 -	2 4:00 p. 1st 5:00 a.	1					İ	with high winds heavy rains and
ı	waterspor	ıt; no	dt vis:					severa	1 public reports of			2nd	1	= = + = ~	dee		d 12		lightning rn and content
Lafayette Parish	12 5:	14 p.	ł	1				ĺ	Funnel cloud aloft		of 1	hay and r	achir	ery n	ear ;	ron	Rive	r and	barn with hay
	Seven -	nine ' t tow	lafa ards w	ette:	one f	unne l	cloud	alof	observed to move		ten	ts report	ted di	e to	fire	ca	sed :	by 119	homes and con- htning. High
Vermilion and	14 2:	58 p	4		0	o	0	0	Tornado, funne 1		gro	unds witi	h est:	Limated	dama	ge o	£ 20	thous	the State Fair- and dollars. to buildings
Lafayette Parishes	Pilot re	00 p. porte	d torn	do 52	ESE I	ake C	har le:	in K	cloud aloft		and	homes.	Heavy	rains	in .	exce	s of	4 in	thes caused roa
	ground a	bout	10 S K	aplan,	moved	from	S to	N 3:3	one touched p3:35 p., then		to 1	hundreds	of he	mes,	build	ding	s and	busi	desses due to t
	Youngevi	11e.	remain	ed on a	mound	l show	t thre	a min	between Meurice and ites. 3:15 p.,		lig	htning o	Lak	Mich	igan	nea	Esc	anaba	when hit by
	Lake Cha	rles roms S	radar SW at	showed 23 m.p.	thund t. R	ersto ledars	cope	100° a	and 52 nau.miles, diameter 10 miles, ortion of cell.	Entire Lower	2 -	3 2:30 p.	4		2	4	5	1	Thunderstorms with heavy rai
	1		1	and n	dtch-	shape	₫ ¥ 11	SSW 1	1	Michigan Area		6:00 a.							high winds and lightning
Richland Parish	Fifteen :	59 a. E Mon	doe (L	t. 32.	5° N,	Long	91.8	3 W).	Turbulence aloft Pilot BE 35 re-		Det	roit you	th wa	k111	ed a	nd h	1s 3	young	companions wer eking shelter
	ported e	xtrem ulenc	e ac 9	lence 000 ft	at 2,	000 f	. Pi	lot C	131 reported moder-		han	4 a 4+ca	ا مطح	dideri	ui ma	n bi	111 63	when i	struck by light
Jennings and	19 a.	-			0	0	4	С	Reavy rain,		ed :	by storm	fell	ed tre	e 11	nb a	t Uti	ca. L	troit. Man inj ightning strike at Mio with est
Eunice areas	Reavy ra	00 p. ins f	or a f	ew hour	. J	leunin	gs red	eived	Thunderstorms		ima	ted dama	ge of	\$20.0	00.0	o. F	ire d	ue to	lightning stri e to hardware
	hours and	i one ear 4	day t	ctal of ches in	5.60 a fe	inch w hou	es. I	unice offic	enofficially re-		sto.	re buile	ing a	n¢1 con	tent	s at	Rive	rdale	near Alama:
	of 6, 12	inche	s. Mos	t Eunic	e str	dets	f loods	ed; in	many cases water		Lar	ge moder	n far	m barn	and	con	tents	of 90	by lightning. O tons of hay
	age to c	iness	build	⊈ngs, o	ne ha	d a f	ot of	water	inside. Some dam-		shi	p near A	nn Arl	bor wi	th d	amag	e est	ima ted	rthfield Town- at 35 thousand
Rapides Parish	21 Aft					2			Lightning		Win	d felled	tree	s caus	ed d	amag	e to	homes	is same fire. , buildings and
,	At Cotil	e Res	ervoir	constr	uct10	n sit	e, ne	n Hot	Wells, lightning	J	Num	erous sa	all b	oats,	dock	fac	iliti	es an	ts and roads.
	ing insi										Roa	ds, stre	ets a	nd bas	emen	tis f	loode	d with	ue to high wind h considerable
Lake Pontchartrain		64 p. 50 p.							Waterspout		hom	es and b	uildi:	ngs th	roug	hout	the	upted entir	to numerous e area due most
	Thunders	torm,	to N						Airport, had leading d ENE, vicinity high	İ	to.	high win	ds an	d ligh	tinin	91.	l	1	1 .
	power li	nes c	rpasin		Ponte	hartr	ain.	1											
Tengipahoa Parish	Crystal	30 p. Lake bov	at Riv	er Oaks	C Lig	htain	g str	ick ne	Lightning swimmers, a 15- aralyzed.										

Í		ij	∄	_				ATEDI		1	ĺ	4	Ę	_	NO.		ESTIM		
.]	Ì	8_	PATH	¥	PER	SONS	DAM	AGE	CHARACTER)	8_	A	¥ (PER	SONS	DAH	AGE	CHARACTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PAT (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
	ă	- 52		*	፱	Z	£	5			ă	E.22	٦	*	ž	Z.	- E	5	
MICHIGAN (Cont'd. Central and South-	3,1	1:00 a.		1		1	5	c	Thunderstorms	MINNESOTA (Cont'e Zumbro Falls 4E	1) 28	1:00 a,	31/2	50	0	0	5	3	Tornado
ern Lower Michigan	-	9:00 a. 1:00 p.	,			-	•	,	with heavy rains, high winds, hail	Wabasha County	1	ļ	1	l	ļ		ļ		Farms. Trees
	r.i.ah	6.00 p.	I. I	numero	nus f	ires	whic	ŀ	and lightning troyed several		twi	ted off a	nd corr	field	fla	tene	i. St	orm no	ved north-northea
	lard	e modern	farm	barne	t wit	th car	ıtent	a of	hay and machinery contents.	Canby 13NW Lac Qui Parle County	29	1:15 p.	3	?	0	1	٥	0	Electrical
	- 1	Woman	treat	ed for	bur	ned it	nand	cause	d by lightning ed numerous		Man	injured s	lightly	by 11	shtni	g st	rike w	hile t	alking on telepho
	tree	s with x	esult	ant da	mage	to	ou11d	ings.	homes and cars. ue to the wind inches flooded	MISSISSIPPI South Central Division	14	Afternoon			0	0	4	0	Thunderstorms, heavy rain, light
Î	stre	ets. roa	ids. I	il ahwa i	vis ar	id bais	gemen	its wi	th resultant		MAR:	ON COUNTY	Poxw	rth, a	out	р.,	light	ping s	ning et fire to 7-room
	with	amount	damag	e unkr	own	at th	nis t	ime.	Monroe Counties Power service ngs throughout		Colu	dence, bu mbia, app	ned a	l its ely 4	onte 5 p	nts a	nd des unders	troyed torm m	cabin cruiser. oved from SW to-
	the	area due	to t	he thi	mde	stor	ns wi	th h	gh winds and		con	s NE, lig ents burn	ntning	set fi	e to	barn scCom	, 3,00 , rai	D bale n star	s hay and other ted about 2 p.,
	-	_							Funnel Aloft		fla:	h flood p bout 45 m	nt abou	t 14 i Befo	nches re it	wate stop	r in d ped, w	owntow ster h	n streets in per: ad run in severa
ESCANADA	Funn	el aloft h of Esc	sigh	ted no	ear I	apid	Rive	r and	Funnel Aloft about 10 miles		sto	es. Airp	ort re	orted	serie:	of of	thunde	storm	s 1:50 p4:45 p l precipitation
Southern Lower	22		1	ľ		6	5	i	Thunderstorms		2.10	inches.							
Michigan		9:30:p					•		with lightning, high winds, and heavy rains.	Harrison County	15 B110	9:55 a 10:00 a. xi: funne	l cloud	to NW	obse	ved ·	noving	ESE.	Funnel cloud alo
.•	Six	persons	were	cut an	nd in	jured	d by	flyin	g glass when low in a restaur-	Leflore County SE to	15-	p			0	0	5	С	Heavy rain, wind
tas	ໄກ້ຖ	attle Cr	eek.	High v	winds	rin	ped 3	cof a	nd porch off of ed damage to	Leake County	16 Many	a.	ceive	over	five :	ache	s of r	sin vi	him six and one
	nume	rous hor	фев, с	ar, a	nd bu	11ldip	ngs :	n the	area. Consider- to the high winds		hali	hours; s	dare tel	orts o	f hear	riest	rainf	#11 in	such a short ti a 11:00 p1:00
	0114	et and I	aton	Rapids	are	aa re	eport	ed he	avy damage due service disrupt-		Dame	ge done b	high	winds :	ind re	ins	to str	eets, 1	nighways, farm as of cotton, pa
	ed t	o numero	dus ho	mes di	de to	hiqh	n wir	nds ar	d flying debris ed some flooding		Some	bridges	washed	out.	10-1	t. r	ise in	the P	flooded fields arl River oc-
	of r	oads, st	reets	and 1	aser	ents	with	res	ltant damage.		7:00	ed at Edi	nburg o	n the	lóth. n wa	The 6.4	one-d inch	ay rai: es.	nfall measured a
Southeastern Hillsdale County		2:25 p.	1	100	0	0	4	İ	Tornado	Leake County	21	5:45 p.		ļ					Funnel cloud al
	lona	. Tornac	lo den	olish	ed ba	ern di	nd ga	rage	about 10 miles on Bird Lake		1	een WNW U	ion: p	ilot r	eporte	d fu	nnel c	loud.	
	Road	, silo (,n Tut	tle R	oad,	and	some	atee:	cribs on South	Newton County	23	4:05 p.							Funnel clouds eloft
	and	additio	nal b	arn ar	nd fe	ed r	oom d	amage	d on Burt Road.		Patz	ol report	ed seve						pilot and Highwa observed on
	ing	s were r	Lpped	off a	and t	pesed	i or	carr	ed by tornadic were uprooted	MISSOURI	Heri	dian rada:	1	}	}	}	}		
,	alo	ng the t a stated	en mi	le pat	t n of	the	torn	ado.	People in the	Campbell, Dunklin	14	late afternoon					lı		Thunderstorm
Lenawee County		2:35 P.		7		2	4		Tornado		Seve			d. lar	e tr	es u	proote	i Ro	ipment at power
V	R.	Moore or	Spri	hgvill	le Hi	ghway	y who	were	of Mr and Mrs inside the		plan	t registe o 90-100.	red stu	ady wi	ds o	60-	70 m11	es per	hour, with gusts
	int								ed when tossed bsequently hos-	Southeast Missouri	L	late afternoon					L L		Thunderstorm
Lenawee County	22	2:40 p.	?	2	0	0	4		Tornado		One-	inch hail	and da	maging	winds	at	Kennet	and \$	ite. Genevieve.
	era	l buildi	ngs a	hd gar	ages	Nus	merou	s tre	roofs from sev- es were uprooted		11						minor		Thunderstorm
		iler, ch							ed trees. House by the tornadic	County	Hail	, with occ	asiona	l hail:	tones	wei	ghing :	ne-ha	f pound.
Battle Creek	22	9100 p.	١,	?		3	5		Tornado	DeKalb, Daviess, Grundy and Sullivan	20	7:30 - 8:30 PM					և		Tornado
Battle Cleek	Tor	nado fir	st st	ruck i	n Pe	nnfi	eld a	nd Co	nvis Township Creek where a	Counties	Tor	ado first	touch	ed down	on a	farm	one m	ile no	rth of Amity, in
	Sma.	ll house	WAS	lifted	ll off	itsk	Found	atior	and lifted		fam	lly heard	a roar	ing noi	80, a	nd a	number	of at	ged. The farm hletic trophies
·	min	or injur demolis	les.	Two ba	rns	and lift	gar ted 1	age v	ide received ere wrecked. New he air and then		and	found lat	er in	a field	some	dist	ance f	ross th	out of the windo e house. Storm
	inc	led into luding a	pple	ground	in t	mero:	18 tr . Gre	ees v	orchard. Large		time	about 8:	ported 30 pm,	tornad	o dam	30 pm age w	in an as rep	near orted	Cameron. Some- on a farm 3 mile
	DOW	er tower	wrec	ked w	ol ch	#1 gri	ınt ad	nowe	r service to . One minor injury atment. Long		fro	or Edino	two ml	les nor	heas	i. I	There	mas a	on a farm 3 mile similar report evening, several
	wal.	l of lar	ge fa	ctory	buil	ding	blow	l tre	atment. Long n with damage		tori	ado. It	is not	possib	e, w	th t	he evi	dence	were hit by a at hand as this reports of damage resting to note to of some parent
	est.	imated a	£ 30	thouse	and d	ollar	cs.]		were	the resu	It of	singl	e ton	nado.	It i	s inte	resting to note
MINNESOTA Northington 7WNW	10	6:00 p.	2	75	0	0	4	3	Tornado		tnu	derstorms g toward	, which	n may n	a,⊽e sj	en de	d seve	ral fu	mels as they mov
Nobles County	A to	rnado, wi	th vis	ble fu	nnel	loud	, skip	ped th	rough a rural area Some livestock	St. Joseph, Buchanan	20	6:30-7:30	1				h.		Thunderstorm
	kil1								corm moved	County		PM]	İ			Lt.		mirecla folia
Murray, Nobles and	10	6:00 p.	?	?	0	0	?	4	Hail		Tree	s, power a	nd tel	ephone	lines	down	. Win	d meas	ured at 50-60 lightning
Jackson Counties	١.	ì ·	1	1	1	1 1		1	troyed crops in			ge to home			1.05				
	scat	tered are	as in	three c	dunt i	es.	dail p	րենն սլ	to three miles	Kansas City, Clay County	20	9:00 PM					Ŀ		Thunderstorm
Ada (near)	27	6:30 p.	7	?	0	0	?	4	Hail		Dema	e to powe	r, tel	sphone	lines	. S	me wit	d dama	ge to homes.
Norman County	[1	ĺ		1	1 1			h an 8 square mile	Dexter, Stoddard	21	0:40 AM							Funnel Aloft
		west, no								1. '	30	4:30 PM				. 5	minor		Thunderstorm
Fosston, Polk County	27	7:30 a.	?	?.	0	0	4	5	Hail	County	1	ler upset	by win	a.		-			
	Hail	e windows	and d	amaged	roofs	sid	ing ar	d auto	damaged crops, pmobiles. Storm	1.			,	•		•	'	'	
	0.00								th principal										

																			AUGUST 1964
PLACE		TIME - LOCAL STANDARD	OF PATH ES)	F PATH (DS)	NO. PER		ESTIM. DAM		CHARACTER OF	PLACE		TIME - LOCAL STANDARD	OF PATH ES)	F PATH (DS)	NO. PER		ESTIMA DAM		CHARACTER OF
	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM		DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM
MONTANA Tampico-Larslan- Opheim area,Valley County									Hail most damage around	NEW YORK Poughkeepsie, Dutchess County	5	4 p.m.					ħ		Electrical, hail, wind
Walf Paint,Roosevelt		ico and La ty. Some Early						to sou	thwest Daniels Tornado		sive larg	ly damaged s greenhou	by de	layed l troyed	ight: by ma	ing- rble	aused size	fire.	rea. Home exten- Class panes in Scattered power accompanying
County	Stor	Evening m small ar ted off ar	nd did	very I	ittle	dama	ge, A	few t	ree limbs were	Cheming County and Mohawk Valley		ng winds. early a.m.					5		Electrical
Sidney, Richland County	16	4 P.M.	?	5	1	0	0	0	Lightning		fire	y morning s in south	centr	al and	centr	al at	eas of	state	l lightning-caused Large dairy and/or consider-
Central Montana		e tree du Night					0	4	hding under a Lightning		able West	quantitie moreland,	s of h Oneids	ay were	dest	roye	l near sbury,	Elmira Herkia	, Chemung County, mer County.
	Gar f Was	ield, Phi north of i	lips,	Chotea	ψ, an	₿Bla	ine Co	unties	res in Musselshell, . The largest one 00 acres of range	State, except southeast	11- 12	early p.u to early					5	5	Electrical, wind, hail, rain
Wibaux, Wibaux County	29	burned. Forenoon	7	7	0	ı	2	0	Lightning		extr ridd port	ame wester led by hai Niegara	n cour l and County	ties on blown o and Ha	efte ver b mburg	rnoor y wir -Eder	and o nds in area	vening local Erie	ail struck of 11th. Crops areas near Lock- County. Winds
NÆBRASKA McCook		rvice sta a nearby (6:30 p		ng.	was	stun	ned wh	en ab	olt of lightning Lightning		conc Erie Coun	ete-block County. ty. Wides	lives Five o pread	tock sh ows kil damage	elter led t to tr	and y li ees	barn in thtning and por	mear No near mer li	rt and unroofed orth Collins, Medina, Orleans mes in belt of
	K1 eva	tor and g ning. Morning	rain t	urned a					Lightning		ALSO Thun east	ecattered derstorms central c	moved countle	e in Ja eastwar s. Lig	mesto d du htnir	ing i g-ca	ingha night i nsed f:	nton an rith da res de	o Chautauqua; ad Watertown areas. mage occurring in stroyed home near
	WOMAN	knocked the farmy	uncons					_	Damaging Winds,		earl repo burg	y morning rted to ha h about 8	of 12t ve fal a.m. c	h. Loc len in n 12th.	ally less Wic	heavi than lespre	rains two he ad flo	nrs, o	plaware County a some 2.0 inches accurred at Platts- of streets and
·	Hail to Al	5:00 p and damag len. Ind across th	ing wi ividus	nds rep	orted cell	from s mov	Clear ed sou	water theas	Hail	50 miles west of Buffalo	14 P [10		aight	ing thr	ee fi	nnel	cloud	over	Funnel clouds Lake Erie. One
	to 2 ings gener	miles wid were dama ally smal areas. D	e and ged ar L but	10-15 m nd trees ranged	iles upro up to	long. oted. 3/4"	Fari Hail diam	build was ter i	-	Erie and Broome	hour of E	earlier w rie, Pa. p.m.	aters	out rep	orte	ove:	Lake	Erie,	north northwest
	turbu and a	lent moti t least o	n rea	ulted i	n som	e voi	tex a	tivit		Counties	Coun barn	and conte	after nts ne	noon, w	hile	late	eveni	ng fire	Darien, Erie destroyed dairy e in south central
Hamilton County	10		18	1700	0	O SE of	0 Gilta	li er to	Hail	Poughkeepsie, Dutchess County	22 22	of state. 5 to 6 p.m.					lı.		Rain
Byron		9:00 a			0	0	0	0	Funnel Cloud		From utes	1.0 to 1. Widespr	5 inch	es of r	ain i	ell t Feet	rithin s and	appro:	to the city area. cimately 60 min- its of homes and
10 N McCook	1	7:15 p - 7:25 p s up to 1	? diar	? neter.	0	0		4	Ha11	NORTH CAROLINA Hertford and Ran-	laps	ed in down			ar Re	3600	3	4	pavement col-
Culbertson Omaha	Roof	7:00 p damaged, Afternoon	tree	suproot		0	0	0	Damaging Winds Lightning	dolph Counties	Lig						ed home	in As	heboro. Hail
Southeastern Nebraska	Man l	4:30 p - 6:00 p	yard		ome.	0	ļ.	ų	Damaging Winds	Catawba, Forsyth, Surry and Yadkin Counties	•	aftn & evening		4 1-433	1			4	Electrical, Hail, Wind
10 E Grand Island	near 27	ered area Beatrice 2:15 p 1 dipped	to Nea	maha.	0	0	0	0	Funnel Clouds	Alamance, Beaufort,	ove	Home sl r parts of aftn &	ightly three	damage counti	el. I	Hail a		d did	her home at New- scattered damage Electrical, Wind
Southeastern Nebraska	27	4:30 p - 7:00 p	80	5*	0	٥	5	, la	Damaging Winds	Buncombe, Cabarrus, Davidson, Durham, Guilford, Haywood,	Wid	evening espread th						ge in	many areas.
	broke easte in Je	ere winds out near ard. Tre fferson, stalks by	Fair e an Gage,	bury at d buildi Otoe, a	la:30 ing da ind Ca	pano mage tes Co	repo	norti		Hertford, Martin, Mecklenburg, Rocking- ham, Vance, Wayne, Wake & Wilkes Counties	pho a f	Atning sta ne service ew falling	sever	al plac	ės.	Numer	rous t	ees we	power and tele- re blown down,
Curtis Vicinity	31 Seve	5:00 p ral farm s ted aloft;	?	? destroye	0	o	funne		Tornado e	Forsyth, Franklin, Moore and Stokes Counties		aftn & evening	led or	wen ast	t1e -	at. Pos	4	5	Electrical, Hail
NEVADA	- Bu	No repo		1	Į.	Į	1	1	line	Alamance, Granville, Halifax, Hertford,	at						Fors		Stokes Counties. Electrical, Hail,
State	8 Scat	tered and	nost l	y minor	0 dana	0 ge to	3 utili	3 ties,	Lightning, wind trees, and crops.	Iredell, Person and Vance Counties	Man tel	killed by	light	ning in Light	Hend ning	iersor also	while	atten	pting to repair fires in widely e County. Hail
NEW JERSEY NEW MEXICO Ban Juan County	114		None	repor	ted				Lightming	Mecklenburg County	did tre	scattered es, damagi 5:45 pm	damag ng roo	e to cr is and	ops, autos	most1	toba	icco; v	and blew down Small Tornado; Ha
	1	man struc inebeto a	k and	killed	by 11	ghtmi	ng whi]e wa]	king near his home	, , , , , , , , , , , , , , , , , , , ,	She	d demolish	ed at	Mint Hi	h.	Funne	al repo	rted a	een, and roaring

		J.	PATH	Ξ		OF SONS	ESTIM.	ATED† AGE				CAL	ATH	Ξ	NO. PER		ESTIM. DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P (MILES)	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
NORTH CAROLINA (d Cabarrus, Catawba, Forsyth, Martin, Ran- dolph, Rowan, Surry,	ont 10	d.) aftn & evening			a	1	5	5	Electrical, Hail, Wind, Rain	NORTH DAKOTA (Cont Barnes and Cass Counties		Early Morning	75	*15	0	0	3	14	Hailstorm
Wayne and Yadkin Counties	lig all	htning in ey burned	Martin and se	County veral l	whil	e usi fire	ng tel s attr	ephone ibuteo	an injured by Large bowling to lightning. caused washouts.		or	lstorm wit silver dol northern	lars :	oved th	roug	rge nor	as gol th arn	r ball Barnes	•
Cabarrus, Cumberland,	Hai	damaged aftn				ntie s		3	Electrical, Hail,	Hettinger County	29 Sev	3:00PM eral funns	ıl clo	ds obse	0 rved	0 nort	0 heast	0 of Bur	Funnel clouds
Forsyth & Montgomery Counties	lin	es damaged	one o	r two a:	reas.	Hai	l caus	ed aca	Wind nston-Salem. Power ttered damage to		29 A t	3:00PM ornado was	seen	to tou	o h gro	o und	0 north	o of Mot	Tornado
Franklin and Warren Counties		aftn & evening	ntgame	ry Coun	ty.	Wind (lamage O	d roof	s and antennas.			6:20PM prnado was			0 a ba	O ura a	3 bove t	0 ne tre	Tornado es
Forsyth, Nash and		acco crop	damagə	i in tw	are	as.	0	4	Hail	Oliver County	31	7:00PM							Funnel clouds
Yadkin Counties Nash County	Tob	acco crop	damage	i sever	lar	eas,	0	4	Hail	оніо	of	eral funne Center.	l clou	ds obse	rved	in t	he vic	inity	Pa.a.1 Clauda
Cumberland, Harnett &	Tob	aftn &	ed ove:	r a thr	ee sq	nare	mile a	rea.		Northern Ohio	Num	d locatio	ns ove	r north	ern O	bio d	uring	the af	Funnel Clouds from widely scat- ternoon in con-
New Hanover Counties	Wom	evening an knocked	uncon	scious	y li	ghtni	ng whi	le har	Electrical, Hail ging out clothes		ed ·	ion with ind damag adoes.	genera e were	l thund report	ersto ed, b	rm ac	tivity ne app	. Som	e cases of localis caused by
Cumberland, Granville,	dam	r rayettev age to bul aftn &	ldings	and po	ng a ver fi	lso c acili	ties.	Hail 0	l cases of minor damaged tobacco. Electrical	London	An:	Afternoon nmate of tning whi	the Lo	ndon Co vine in	rrect	0 ional sebal	Insti	tution	Lightning was killed by a prison grounds.
Randolph & Robeson Counties	Two ter	evening mules kil ed cases o	ed by	lightn: lings de	ing in	Gra	nville	Count	y. Several scat-	Wellington	11								Large Hail n in connection
Durham, Granville, Martin, Orange, Pitt & Wayne Counties	26	aftn					. 4	4	Electrical, Hail	Alvada		general 6:30 PM	thunda		activ				
Yadkin County	27	evening					4	0	Electrical		tou	nnel clou hed down several p	mile	s west	of Al	vada	destr	ute 22 ying a	4 east of Findlay large cattle shed
Richmond and Scotland		2:30-4pm	sever 25	50 50	atock 0	burn 15	ed in	fire 0	et by lightning. Tornado	Middlefield	22 A s	9:30 PM	do str	uck in	the w	0 este	3 na edge	O of Hi	Tornado ddlefield during
	hal hou oth	mile tow se trailer ers. Skip	ard ce s and ped ab	nter of a dozen out one	or m	, dem ore f mile	olishi rame t and s	ing tw mildi struck	churches, six again in downtown		tre den	s, etc. i ial area.	cossp	letely	destr	oyed	a pri	ate ga	l damage to nearby rage in this resi-
'	dov	m again at	but 25 a home	miles and se	horth	west,	overt	urnin,	ddings. Touched a house trailer unnel seen and	Bridgewater	22 Str	1:30 PM king duri ern and se			l	, a :	mall-	C cale t	Tornado ornado demolished les northwest of gs were killed as
Robeson and Scotland Gounties		4 am	ł	narrow		1 hom	4 es in	3 Lauri	Tornado		the	gewater. bern was h was cut	blown	down.	The h	ous s	escap	ig gaze	Se put, a parrow Se Agre Effice Se
	o'c an	lock in the	e morn Lumber	ing; ma Bridge	hav seve	e bee	h the iles s	same :	storm that damaged ast at an unknown down crops.	OKLAHOMA Stillwater, near, Payne County	One	Afternoon	uffere	d burns	0 When	1 gus	? Ly win	? s caus	Wind ed a grass fire to
Martin & Pitt Counties				narrow		2	5	0	Tornado or Tor- nadoes	Farry Community,	las	h out in h ckened by 7:25p	řs dir	ection.	Abc	ut 1	ju acr	s of a	rassiand were Funnels aloft and
	pic por	rby Martin Red up and ted. Funn	Count moved el see	y. Sev some d n, but	eral istan direc	Parm ce; p tion	buildi eanut of mov	ings d harve: rement	ty and one area in molished; truck ster similarly trans- not established.	Woods County	Thr	7:50p.	aloft	t least	bserv	torn	ado wa	d belie	Tornado stward across the wed to have touch
	nor the	ght but ab thwest) ab se storms.	oput fo	ind dam ur hour	age a \$ lat	t Roa er ma	y have	been	(about 60 miles associated with		dow	n at the F	eived	chool wheavy I	here pof d	4 sc amag	hool b , bul The	ilding ed wal	s and a nearby ls, blown-out helter door was whirled overhead
	29- Sept 1						5.	5	Rain		alo	ng with tr a received	ee lin minor	bs and damage	pther	deb	ris.	ihree (ther homes in the
	acr sou par cur bas dam	dss North th central ts of the red, with ements, an	Caroli and n State breaka d wash washi	na of tortheas were ar ge of fouts of f	tern eas w erm d fiel telds	mains secti here ams, ds an Wi	of Hu ons ar flash- floodi d road nds we	rricand scatter of the control of th	ach and passage to Cleo. In the tered over other ing of streams oc- storm sewers and onsiderable crop generally strong; iremorts.	Osage County	wit 3.0 wer mil	h locally 5 inches a 6 reported	shower heavy t Pawl along st of	totals uska. Bird (Forake	of 3. Unofi reek	32 i icia with	nches 1 tota heavi	est to	Rain northeast Oklahos d at Foraker and 5.0 to 5.6 inches al indicated nine n area were
NORTH DAKOTA McIntosh County	17	32 OOPM	7		0	0	0	4	Hailstorm	East-Central Oklahoma	14- 15				0	0	0	0	Rain
Barnes County		eral inche		lay or	the O	groun	a to	dept O	h of Tornado		eas acr Lat	erate to] t-central oss Okfush imer Count	part o ee, Ol les.	f Oklah mulgee, Heavie	oma a Cree	nd t k, L als	otaled incoln of 7.7	mostly Hask	outhward over the 3 to 5 inches 11, Pittsburg, and s were received a
		rnado touc					Lite	ville		ŀ	Will	burton, 5. damage rep	32 in	hes at	Chan	ler,	and 4	10 in	hes at Bristow.

		AL.	PATH	,	NO. PERS		ESTIMA DAM			Į i		A.	РАТН	, I	NO. PERS		ESTIM/ DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PA (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PA (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED 2	PROPERTY	CROPS	CHARACTER OF STORM
OKLAHOMA (Cont.'d.)		About 6:45p.		-	0	2	0	0	Electrical	OKLAHOMA (Cont'd. Maysville, near, Garvin County		3:30p 4:45p.			0	0	3	. 0	Tornado and funnels aloft
	Two	girls wer tning str	s knoc uck an	ked unc d enter	oncio ed th	us bu eir h	t esca ome.	ped se	rious injury when		one	dropped t	the	round 1	brief	ly as	a sma	11 tor	Maysville where hado and took the Maize crops one-
Harper, Ellis, and Dewey Counties	17	5:00p Midnight			0	0	5	4	Hail, tornado, electrical, and wind	Stephens, Jefferson,	thir 26	d destroy 6:00p	45	*10	0	0	5	4	Wind, electrical hail, and rain
	5:0¢	p. to 8:0	0р., а	nd 11:0	Dp. t	o mid	night.	Scat	he area between tered hall paths southeast from	Carter, and Love Counties	Ster	hens Coun	ty, in	to the	weste:	rn pa	prt of	Love C	area from Velma, ounty. An oil we
	Cate 1000 Dewe	sby, and acres of y County.	cotto Hail	est and n and f averag	sout eed c ing 1	h of rops	Gage i were r	n Elli uined with s	s County. About in the Leedey area, one up to 2 1/2-		ligh	tning-set le large h	fire	also de oke win	stroy dows,	ed a dent	home e	ast of umber	at Velma. A that community of automobiles and ficial measurement
	3- 1 brie 6PM	y 5-mile fly 5 mil with no d	paths. ps sou smage	A sma th-sout reporte	ll to hwest	rnado of C ightr	was s atesby ing-se	ighted Elli t fire	southeast from s County. About in the Leedey area, ome up to 2 1/2- mch deep and along on the ground s County, about s destroyed a barn s 4 miles east-		of :	to 6 1/2	inche	s of ra	in we	re ir	dicate	d for	the Velma, Loco,
	sou down	heast of med power me gusts u	Harmon lines b to 6	, Ellis and tre 9 MPH w	Coun es in ere o	ty. seve bserv	High w ral pa ed at	inds of rts of Gage 4	amaged roofs and Harper County, bout 8PM, Hail		plat Dunc 58%	mobile an e glass w lee, and d of \$207,8	d wrec indows bwned 00 tot	king th , destr 9 utili al, ele	e bui oyed ty po ctric	a bar les v	n and est of hail 2	ong wi chicke Ringl	troying a new nds also blew out n house near ing. Wind damage d rain 17%.
Jennings, Pawnee	17	ge 73≸ of About Midnight	\$68,0	00 tota	1, el 0	ectri 0	cal 22	%, and	wind 3%. Electrical	Tillman and Kiowa Counties	26	6:15p 7:00p.	20	*648	0	0	°5	С	Hail
	A 1	ightning-s	et fir	e destr			ŀ		and contents.		Snyd at S	er-Mounta: nyder avei	n Park aged 1	area.	Hail size :	cov ith	ering some u	0% to to 2	heast across the 75% of the ground 5/8-inch size.
Oklahoma County	20 Ligi	About Midnight atning str	uck a	home in	0 the	2 8000	2 block	of SW	Electrical 29th Street. The	Kay County	sign 27	s, and au 9:10p.	omcbi]	es acco	untir	g fo	r most	of the	damage. Funnel aloft
	to	men expro	ged in	nto an u	Dargi	rs ar	par uner	te cau	ing minor injury ed the walls,		Blac	kwell at 9 the Citie	:10 PM s Serv	. It o	hange P. Pl	d fr ant	om as	utheas y fol	orthwest of tward movement lowed it 15 miles described as
Blackwell, Kay County	24 A f	9:38p. w hail ur	to 1	inch in	0 diam	0 eter	0 repor	0 ed 1	Hail mile west of City.	Orlando, Logan County	rea 27	11y a big 10:22p	one" t	ut neve	did 0	tou	the the	ground	Tornado
	24 T 1 ab	10:00p 10:30p.	novod.	a how l	0	0	4	0	Electrical d another near	1	Orla sout	10:35p. ndo fire o	hief c	440 bserved The fur	a fu	nnel remai	aloft ped 40	moving to 50	east 1 1/2 mile 0 yards above th 1 momentarily
	Ponc	a City who	re a l	home was	also	hea	ily d	maged	A bolt of the front door,		wher	b it tore	lout el	lectric	power	d lin	ės. S	datter	i momentarily d wind damage lamaged across th
Osage County	24	About 11:00p.	home	located	0	0	4 let of	0 Shidl	Electrical or was struck by	Ponce City, Kay County	27 A 10	Midnight	n home	locate	0	0 2 mi	4 es we	st of	Electrical the City was stru
Central Washington		tning and	destr						Hail, wind, and	Greer County	29	3:15p 4:30p.		*6	0	0	3	4	Wind and hail
		2:30a., 26th	ha had	letown 1	- agan	+	ha Day		about 10PM.		of t	he County	The	wind do	owned north	many	limbs Mangum	from	northeast quarte rees and damaged damage to awnin
	Store some tree	stones us with so	ing ab to 3 me dam	out 2-inches	in di	ze n amet and	early er. L cars.	covere aves High	d the ground with were stripped from winds buffeted the		hail	which re	eived	tors and	nga:	gever	to 50%	e stri	n the Lake Cre
	and Ligh	hail up t tning dam up to 3 h	l-in ege ca	when size	fell tensi	in t	he nor ectric	theast outag	ower lines broke, part of Bartlesville es for 3,500 custom-	Marlow, Stephens County	29 A f	6:00p 8:45p. unnel alof	, was	sighted	sout	nwes	of M	rlow j	Wind and funnel aloft ust prior to hig
Mayes and Delaware Counties	25 - 26	10:30p., 25th - 11:20a., 26th	30	*10	0	0	0	0	Rain		tra to dam	lane was ks and nu arken par ged south	pulled merous is of vest o	from i trees the Cit the C	its mo and e y up lity a	brin Lect: to 2	gs and rical 1 1/2 ho	tossed ines w	blown out, an onto railroad ere blown down A barn was heavi of pecans were
	Maye rair	s County	into t inche	he cent	ral pa and R	rt o ver	f Dela Daman	d 5.20	ortheast corner of cunty producing inches at Upper	Blackwell, Kay County	29	n from tr 7:00p.			0	0	?	,	Wind
	Spav	inaw Port les. No d Early	, Rai	r elsew	here :	in th	\$56 CO	unties	totaled over 3 Rain and wind		win est wer	s gusting imated gus uprooted	to 52 ts of and 1	MPH a 75 to 9 imbs, 1	nile MPH nes	vest in and	of Bla the Cit utility	kwell y wher poles	area produced City police a large trees were downed whi
	High	Morning wind wit	rain	totali	ng 2.	41 in	ches a	Nowe	ta caused water to	Sequoyah County	bla	the road.	treets	Driv	ors r	opor.	ted di	ficult	y in keeping car Electrical
	root	er lines w s and car	ere do	med in	the	Bers	and co	phsider	of and second floor Numerous trees and rable damage to re damaged by leak-		Lig:	tning was	belie iry ba	ved to	be th	Elk	se of Creek	a fire	which destroyed a Tankiller.
Pryor, Mayes County	26	3:30a.			0	0	1	0	Electrical	OREGON PACIFIC AREA			1	repo	1	ì			
Pawnee, Pawnee County	A 10 1 m	le north	contai	Pryor	and t	s of otall	nay wa Ly desi	royed	Funnels aloft	PENNSYLVANIA Near Butler	3	7:00 A.M					4		Thunderstorm
	head	idents one	k sout	theast.	The	funne	als car	nia dow	unnels aloft over- n about 300 feet	1		tning fir	ed and	destro	yed a	barr	and o	ntent	s valued at

	- 1	ਂ ਸ਼ੂ	PATH	I		OF SONS	ESTIMA DAM	ATED†				VI V	РАТН	ı		OF SONS		ATED†	
PLACE		ED C	OF PA	PATI DS)	PER	anua		AGE	CHARACTER OF	PLACE		LOC.	OF PA	PATE DS)	PER	SUNS	<u> </u>	AGE	CHARACTER OF
LAGE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM		DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM
PENNSYLVANIA (Cont	'd.	Afternoon					4		Wind	TENNESSEE Upper East Tennessee	3	7 - 9 p.			0	3	4	0	Windstorm and
	Str	ong gusta	of win	d colla	psed	steel	frami	ng be	ing erected at a		High	winds cau	sed on	e injur	y at	Roger	rsville	to a	thunderstorm 46-year old man when they were
		industrie Afternoon	-	t. Dam	age e	stima	ted at	i Mail,°	Thunderstorms		stru	k by fall	ing tr	ees. T	hree	airp.	lanes :	ind a h	angar were collapsed at
	i	k Night									John:	on City a	nd inj	ured on	e per	son.	Cons	derab	e damage to tree re reported.
	bar:	ns and the	ir con	tents w	dith 1	osses	place	d at	destroyed several 1 30,000. Strong and utility lines,	Columbia, Maury County	8 Hail	PM one inch		1/2 mi		0 cro		3 re in 2	Hail ion Community
	unr	ofed seve	ral bu	ildings	and'	rippe	d seve	ral f	ir tents before ted at \$40,000.		near	Columbia							
Nanticoke		Early Morning					5		Thunderstorm	Bristol, Sullivan County		PM year old athouse at					O tning	o hile t	Lightning aking shelter i
	Lig	_	uck a	bakery	which	was	comple	tely	estroyed by the	Dunlap, Sequatchie	12	3:30 a.	3/4 mi	?	0	6	4	0	Tornado
	fir	e that res	ulted.	Damag	e to	build	ing ar	d con	ents, including two than \$100,000.	County	Six dest	ersons we oyed by a	re inj torna	ured wh	ile s	leep:	ing whe	n the	r home was
PUERTO RICO		No repor	t re	eived	by 1	rin	ing o	eadl	ne	TEXAS Kirbyville,	5	3:45 p	?	7	0	0	?		Wind
RHODE ISLAND Providence, Cranston;	26	12:50 p.			0	0	5	0	Thunderstorms	Jasper Co.	Kir	yville an	i the	surroun					d buildings in mber shed was
rovidence County	Loca	l thunder	storms	caused	heav	y los	ses in	prope	rty, merchandise, eceived up to 2½	Jefferson Co.	5	damaged 6:20 p	?	?	0	6	5	0	Tornado, wind
	inch	es of raintown Prov	n in l	ess tha was es	n two pecia	hour lly h	s. Ro ard hi	ad was	houts were common. lood waters		side	ng winds rable pro	and a	damage	in th	e sou	six per utheas	sons a	nd caused con- on of Jefferson
	reac	hed depth r to 60,0	of f	ive fee	t. W	ater	seepag	e into	cables disrupted		of :	abine Pas	s hurl	ed a sm	all f	orei	gn car	into a	five miles nor ditch, injurin attered the
SOUTH CAROLINA Florence, 12-15 mi.S,	9	7:30 p	very s	mall	0	0	1	0	Тогпаdо		Port	Arthur a	rea, c	ausing rsons i	\$100, n the	Gro	damage ves com	to a g	rain elevator, . A small
Florence County	Slig	t demage							D		by t	int frame l he tornad	house o, and	near Ke a numb	ith I er of	ake i	was lii Ctops v	ted of ere bl	f its foundatio own from houses
Myrtle Beach, 19 mi.N, Horry County	25	1:15 p			0	0	0	0	Funnel Cloud		in t	he area.	Wind	gusts o	73	mph v	were r	corde	nes blown down at 6:02 P. M., nd. The Coast
South Carolina	29- 31	continuou			assoc	ated	oes 5 with	Cleo	Tropical Storm		Guaz	d station	at Sa	pine Pa	ss re	corde	ed wine	gusts	up to 109 mph. \$150,000.
	morn	ing of the	29th	near Sa	vanna	in, th	en mov	ed to	uth Carolina early near Augusta by the Greenwood about 8	Baytown, Harris Co.	5	6:30 p	? detorm	? demoli	0 shed	0 a hai	l ₄		Wind rey Airport on
	a.m.	on the 30	th and	left S	buth	Carol	ina ea	rly o	the 31st from heavy rains, es-	mails our	Bar	uloo Road he Fair g	off N rounds	orth Ma on Nor	in St th Ma	reet in E	and the	ne Yout on. In	h Fair building Baytown, new
	peci ing	ally in th	e Sava	nnah ar	d Sal	uda R	iver H hes we	asins re wi	Storm rains rang- espread, causing		Roa	was blow	h down	and t	he ro	of w	as blo	noff	1100 Cedar Bayo the Prinzel hom lines were blo
	Sumt	er and Aik	en whi	ch dama	ged r	roper	ty and	stre	nwood, Johnston, ts. Some flooding - damage from wind		down	by the w	ind, w	hile st	reets	were	d litte	atred wi	th debris. A
	was belo	negligible	. For	tornad	bes a	and fu	nnels	assoc	ated with Cleo, see	San Antonio,	6	7:30 p	2	2	٥	2	5	0	Wind
Lawton Bluff, Charles- ton County		1:10 a ciated wit			0	O Tieo.	3	0	Tornado	Bexar Co.	par	µally um	pored	peveral	othe	er ou:	quaing.	ы, отел	n apartment hou down a 407-foo indows in
Betheres, Berkeley	29	4:40 a	very s	mall	0	0	2	0	Tornado		San	Antomio. the wind.	Two p	ersons airple	vere	inju ecei	red by wed min	flying nor dar	glass, shatter age at Randolph
County Columbia, 14 mi.NW,	Asso 29	tiated wit	1		brm (leo. O	5	0	Tornado	Upper Coast	AFB 7	Plate g	lass d	Amage w	O PS 60	otens:	ive in	the do	wntown area. Tropical storm
Richland County	Movi	ng east to	west,	associ	ated	with	Tropic	al st	orm Cleo.	oppor ougus	Tro	ical stor	n Abby	develo	ped I	apid	ly aro	md noc	Abby n, August 7th,
Cassat, Kershaw County	29 Asso	late aft.	1/8 h Trop		torm (0 leo.	3	0	Tornado		jus Tex	t off the	upper gan to	Texas c	estw	abo rd a	dt 40 : Bout 1	milles o Omph	ast of Matagord ith highest inter. The smal
Darlington, Darling- ton County	29 Asso	9:30 p ciated wit	1/10 th Tro	15 pical st	o torm (2 Tleo.	3	0	Tornado		tro	pical stor	m move	d inlar The hig	nd ju nest	t no.	rtheas obser	d of M	tagorda, Texas shore was 45 mg
Timmonsville, Flo-	29	12 mid	1/10	20	0	0	3	0	Tornado .		15:0	D P. M. T	he his	hest ti	de wa	з 2.	7 feet	MSL,	at Matagorda at bserved at
rence County Darlington, North,	Asso 30	h:45 p	th Trop	ptical st	torm (0	0		Funnel Cloud		7th	The low	est ba	rometri	c pr	ssur	obse 🛊	ved w	O P. M., on the s 29.66 inches e storm moved
Darlington County		ciated wit	h Tro	cical s	torm (leo.					slo	ly westwa	rd and	by 9:0	DP. nact	M. w	ascen Ab	tered of	ver Edna, Texas inued to weaker
SOUTH DAKOTA Bison	1	6:00 - 6:30 p	?	?	0	0	4	0	Tornado		sho	ers in th	e Vict	oria-Cu	ero a	rea.	Loca	lly hea	to an area of vy rains accom- in with the
									aging 3 hangars,		lar 8th	est amoun	ts fal	ling du	ring	the	darly	norning	hours of the
NRN Perkins County	4	5:00 - 6:00 p	35	*1	0	0	4	4	Hail		Cou	nty. Ther	e were	no dea	uths (prin	juries	from	ern part of Beache storm.
		averaged p SE pass:					inch	es. S	torm moved from		\$60	0.000. Mo	st of	the pro	bert	dam	age wa	e the :	p damage at esult of flood the middle of
NN Hyde County	5	8:00 -	35	*3	0	О	4	4	Wind		the as	rice harv result,	est ar both o	near rops we	the i	egin mage	ning o	f the he win	otton harvest; and driving r
	Stor	9:00 p n moved fo	om SW	to NE 1	passi	ng SW	of Hi	hmore			\$27	damage w	as est acksor	imated County	at \$	\$50,0	do in	victor	ia County and at
NRN Half of State		Early AM t damaged	row c	ops in	scat	tered	0 low a	? reas.	Frost	San Antonio, Bexar Co.	7 A 1	afternoon	San J	ntonio	1 youth	0 was	0 kille	0 when	Lightning he was struck b
Hazel - Hayti Area	17	4:00 -	15	*7	0	0	3	4	Hail		lig	tning as chmont Str	he del						
		4:30 p averaged inches.	1/2 i	rch wit	lar	gest :	inch	and o	overed ground up	1 N Claytonville, Swisher Co.	7	5:30 p- 6:00 p	3	*12	0	0	?	5	Hail
Near Eagle Butte		8:30 -	10	*2	0	0	3	4	Hail	3,55,55	acr	ll hail re	on and	200 ac	res (of ma	ize.	Soybeau	ss to about 300 and castorbeau
	Hail W +/	10:00 p averaged	1/2 i	t .		gest :	inch	Sto	rm moved from		cro pla	ps were al	so dan e hail	aged.	The a	roun nds	d was	domple	ely covered in the hail storm
Lead - Deadwood Area	W to 21 22		4	2600	0	0	4	0	Wind and Rain	25 S Houston,	wer 8	e estimate 9:25 a	µ at 5	v 60 70	impn.				Funnel aloft
	Sto	received	o.23 two la	and Dead dslide	awood s and	exter	inche sive	a of I	ain in 24 hours. to utility	Brazoria Co.	1	1	l	1	1	I	1	I	F

																		AUGUST 1964
	CAL	PATH	Ŧ	NO. PERS		ESTIM/					CAL	АТН	ŦŦ	NO. PER		ESTIM/		
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF F	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
TEXAS (Cont'd.) Seminole, near, Gaines Co.	11 6:10 p-		?	0	1	7	?	Wind, hail	VIRGINIA Charlotte, Appomattox and Mecklenburg	2	PM					?	4	Wind and hail
	Winds accomp- block storage west of Semin building. Po- yards to the estimated at	buildingle. (ortions west by \$3000.	ng on tone man of the the hi	he Was was i build gh wi rman	yne B njure ling nds. crop	ryant d in ere bl Dama dusti	farm the co lown a ge to ng pla	cked a concrete about five miles ilapse of the s much as 300 the building was he was picked up	County	Mech	and wind of Charl lenburg. yed at 18 ed chunks	to 20	farms.	as we	e at	rected e rang	heavie Appoma with ed fro	st in the Keysville ttox, and parts of entire crops de- a 1/2 inch to
	wing. Farme marble size ranged from an area of a	rs in the	t area t accom to 75 ree squa	repor manie per c ure mi	ted : d the ent.	onsid thun	erable lersto	the right lower damage from rm. Crop damage a damage was in Tornado	South and Southwest	port a po kili	ions of the reson near ed two mu	he sou Hopew les in	th and a 11 and Meckles	a fi	vest. re wa Mi	Ligh s star nor fi	re esp ining ted by re dam	Wind and lightning ecially heavy in struck and killed lightning which age from lightning ely destroyed at
Lone Star, Morris Co.	concrete blo cafe, and a twisted off	ado tou munity ck buil truck w	ched gro and col ding und	und i laps ter c	or at	out of enting the entire ent	ne min re sou . A s large	nte in the th wall of a ervice station,		tres over upre	el Grove. injured and was obted many	High moto damage trees City.	winds rist in d at Ch damag	the arlot	red i Brist te. veral	n many ol are Wind g homes	count a. A usts i , and	tes. A falling trailer tipped n excess of 60 mph core off a church ng 9 head of
5 SW Nederland, Jefferson Co.	witness. 13 10:20 a 10:23 a							Funnel aloft	East of Patrick Henry Bluefield, Virginia	12 28 Hear	7:00 PM 4:30 PM y rain, o	ver 2	nches	in 3	hours	4 caus	0 ed fla	Waterspout Rain sh flooding in the
Beaumont, near, Jefferson Co. Lubbock, near,	13 11:11 a 11:13 a 15 3:50 p							Funnel aloft Funnel aloft	Hammpton Roads Area	and 31-1	business	baseme	ats.	3	?	6	0	ooded residential Tropical storm Cle
Lubbock Co. 15 NE Palacios Matagorda Co.	16 10:25 a							Three funnels		Vir Sep flo	inig-Bert ember 1st ding resu	a Caro Lit Lted f	lina bo tle win tom ver	rder d Was y hea	left vy ra	e 31st in th ins in	and o e syst the H	olk along the ut to sea early em but considerable empton Roads area.
E High Island Jefferson Co.	17 9:35 р							Funnel aloft		ber lef Thr	lst range nearly e e vehicle	d from very s s were	10 to treet i comple	14 in nunda tely	ted v	in the ith so rged i	immed me und n one	inued into Septem- late area. Rains er 4 feet of water- underpass and down-
Fourway, near, Moore Co.	19 6:30 p A tornado al Fourway com a chicken ho	whity i	n Moore	Coun	ty da	maged	the po	rch of a house,		att: res	ibuted to ue truck, lies were	the f and a evacu	firema ated fr	n die om lo	died fro w lyi	from maahe ng sub	carbon art at urban	e deaths can be monoxide in the tack. Numerous areas with 40 everal thousand
Gail, near, Borden Co.	nion injured	old gir i when s	rl was k struck b	l illed y lig	l , and htnin	0 her 3 g whil	7-yea: e hori	Lightning old boy compa- seback riding.		hom at spo	mere with the mooring the mooring	thout g. At to col	electri Hampto lapse.	dal p n, th The	ower. he hea	Over	50 sm ns cau s a re	all crafts damaged sed a roof of a sult of the heavy partures only about
Milford, near, Ellis Co. 20 S Fort Worth,	21 evening 21 9:37 p							Two Funnels aloft Funnel aloft	WASHINGTON King County	a f	10:45PST	8	30	0	0		0	Тотпаdо
Johnson Co. SE Fort Worth,	21 10:15							Funnel aloft		the '	icinity o es before	f Lake disin	Meridi tegrati	an. ng in	The f	unnel vicini	was vi ty of	east of Kent and in sible for several Lake Youngs. The ng up debris but
Tarrant Co.	21 night					i		Two funnels aloft		caus	d very li	ttle d	amage.	lleav	y sho	wers a	nd thu	nderstorms were ado was sighted.
Filis Co. Palestine, Anderson Co.	24 3:45 p	Ì	*\frac{1}{2}	0	0	4 hole r	0	Tornado outh of Palestine	WEST VIRGINIA Southern half of State		Afternoor evening			0	3	5		Frontal thunder- storms
	and travele houses were television	d acros unroofe antenna	s the so ed, a ba e blown	nthea rn an down.	sted ndgar	ge of age de	the c	ity. Several	What has been ter hit late Monday aftern hundreds of telephones \$50-75,000 damage alone	on. betw	More than	4000 ston a	indivio and Blue	tual p field	power d wer	outage knoc	s occi	rred and
10 S Fort Stockton, Pecos Co.	3:42 p 3:42 p A thin, rib south of Fo	4	e funnel	O L form	ed fr	om a :	o ingle	Tornado "cloud bank" a point about tockton. The	Weirton Bluefield	11 28	4:25 p.m. 3:30-6:30			0	0	2	0	Lightning Cloudburst - flasi
	tormado was	almost tween f	ive and	ten m	mph.	The to	drward drnado	moved through	Piedmont	30	8:00-10:0	0 p.m.		0	0	3	0	Thunderstorm flooding
Reklaw, Rusk Co.	25 ? A rural sch fire after	ool at being s	Reklaw, truck by	0 10 mi 1igh	0 iles é itning	ast o	0 fRusk ngat	Lightning was destroyed by hunderstorm.	WISCONSIN Fond du Lac 8E	Des	1:55 PM troyed far 3:29 PM		Narrow ldings.		0 veled	3 from	0 W to 1	Tornado E Hail
Nocona, near, Montague Co.	The metal r	nado da oo£was	maged the	off to	o cla	ssroa	s. T	Tornado cl near Nocona. wo other class- northwest to	Fond du Lac	Dia 22 Tra	neters up 3:15 PM	1 SW ta	500 NE. 1	0 Passe	2 thr	5 ough s	0 uthea	Tornado stern section of
Gorman, near, Eastland Co.	southeast. 27 7:30 p A small tor northeast o	nado di	t narrow pped down	nn to	0 earth sted t	O once ack i	on op	en pasture land	Portage County	22	mid after noon ough Town	7	Narrow	0	0	4	4	Tornado Touched down
UTAH Gumnison, Sewier Co.	28 6 P.M.	on the	o Bth a	0 smal	0 1 tor	3 ado m	O cved a	Tornado	Near Dalton	and 22	mid after	thinl;	y settle	ed ar	ea.			Hail
	the west, in 30 feet and blocks. The first contac one corner of large plate	an eas extende tornad t with on the r glass w	st south d in a lo blew the gro conf of rindows	east (hit-au out ti und au an ad; in a i	direct nd-mis he res nd pic jacen garage	ion. s fas r wal ked u buil	The prior for a prior	ath width was about or about 7 or 8 to chicken coop on the swing leaving It broke out three in damage to two	Dodge County	22 To	mid after- noon ched down	Shor	t Narro	0	0	and e	3	Tornado
	automobiles,	and st the p No inj	tripped copulate juries w	the red area	oot of as. I	f and amage	ther a	arage before was estimated at	Port Washington	Beg 22	3:55 PM an near H homes tota more than	ally d	50 22 and estroyed	trav	30 eled tensi	from S we dam	to N	Tornado B through city, 34, minor damage
U. S. VIRGIN IS.	No re		e repo	1	prin	tino	dead	line	Oak Creek		4:00 PM	2 SW tx	400 NE. 1		0 dama	5 ge to	0	Tornado

	1		ŗ			. OF		ATED†	1		1.	دا	Į.	<u> </u>		. OF	ESTIN	LATED†	AUGUST 1964
		1 8 C	F PATH	PATH SJ		SONS		AGE	CHARACTER			W	P. P.	₹ 		SONS		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 PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	NURED	PROPERTY	CROPS	OF STORM
WISCONSIN (Cont'd Barron - Burnett Counties		1:45 - 2:00 AM veled town	u³ rd NNW	50	o	o	4	0	Tomado	FLORIDA (Cont'd. Bastern third of Florida Peninsula	27 & 28		1 0, a :	mall bu	0	y de	8 struct	7	Rurricane GLEO
WYOMING FLORIDA			None	repor	ted	:					eas	d a short t coast al	distar 1 the	ce inla	nd ar near	d ro Jack	dghly sonvil	parall le, re	rm, moved north- d continued north- el to the Florida ching the Jackson-
Ft. Lauderdale Broward Co.	2	9:03 am							Formel Cloud		Mel	pourne. S or damages	resu	ntensit	ase an	th o	# Melb	durne :	nds and greatest Miami to about as such that only cometric sys
Miami Dade Co.	2	12:30 pm					i		Funnel Cloud		Bis at	cayne Bay nearby Per	at aborine a	out the and Home	36th stead	Stre	et Cau 4 west	of Bi	the west side of damage was minor of Road and 90th
Ney West Nonroe Co.	2	5:10 pm							Waterspout		the	state. T	he ste five i	rm suré eet abo	e did	not rmal	reach in Fo	four :	oding anywhere in feet in the Miami derdale and five to as no serious tidal
Ft. Lauderdale Broward Co. Lake Silver	6	After-			0	0			Lightning Lightning		dar gla not	age report as breakag els and of	ed an e in o her o	where inprotect protect	n the ted o	sta tore ass.	front Many	incip . Mia build	d damages were di Beach hotels and ings and contents
Lake Co. West Palm Beach	8	noon 4:50 pm							Funnel Cloud		dar fai	pges vere lures in t	nproo	ed tree	es, di	srup ns,	end co	munic Lasted	y. Other major stions and power buildings and cultural losses.
Palm Beach Co. Tampa	10	6:29 pm							Waterspout		It the	was estime grapefruit with the	ted al t were great	out 104 lost i	of the n the	Ind in t	anges ian Ri ie sou	and f ver ci thern	rom 20 to 30% of true producing sections. There
Hillsborough Co. Tampa Hillsborough Co.	11	1:12 pm							Funnel Cloud		1 0+0		h+4-~~	l- 14-6	4 v.	da a	40 000		nected with this als varied from 5 Broward and Palm in the coastal
Miami Dade Co.	12	5:15 pm							Funnel Cloud		1		nort	Thre	e ta	nado	es wer	repo	Broward and Palm in the coastal ted in connection
Okeechobee Co.		noon htming in						fuge i	Lightning n frame	Hillsborough Co.	30	5:22 pm			-				Funnel Cloud
Miami Dade Co.	13	7:10 pm	Short	Narro		٥		tha Pe	Tornado try airport	Brevard Co. Punta Gorda Charlotte Co.	31	6;00 pm			•				Waterspout
Elliot Key Monroe Co.	14	7:10 am	Voucino	a groui		,	1001		Waterspout	° Includes cro		nage,	ı	۱.	i	I	ł	ı	!
Gainesville Alachua Co.	16	After- noon	ļ	Narrow d down	0 hrte	0	Pavn	els Pr	Tornado	C Crop damage. * Miles instea ** Yards instea † Storm damage	d of	miles.	in c	a tegor:	ies '	vary	ing f	rom 1	to 9 as follows:
Port Charlotte Charlotte Co.	16	After- noon ug man str			1	0			Lightning	1 Less than 2 \$50 to \$5 3 \$500 to \$ 4 \$5,000 to	600 5,000			•					
Fort Myers Lee Co.	17	6;18 pm							Funnel Cloud	5 \$50,000 t 6 \$500,000 7 \$5,000,00	to \$50 to \$10 0 to	00,000 5,000,000 \$50,000	000	_					
Lake Oksechobes Oksechobes Co.	18	.5;25 pm							Waterspout	8 \$50,000,0 9 \$500,000,	000	to \$5,000	0,000	,000					
Chuluota Seminole Co.	19 L1 ₆	After- noon atning str	uck an	d kille	1 d wor	ker :	in an i	range	Lightning grove	Note: This publ due to the diffi it is not all-in	cult:	ies inher ive, Del	rent : layed	in coli data	lect:	ion corr	of th ectio	is ty ns wi	pe of data,
Brooksville Hernando Co.	19	8:55 am							Funnel Clouds (2)	ried in the June SUBSCRIPTION PRI domestic, \$2.00	CE:	15 cents	s per	copy;	yea: ney (rly orde	subsc rs sh	riptiould	be made pay-
Key West Monroe Co.	19								Waterspouts (3)	able to the Supe ence regarding s Documents, Gover	ubsci	riptions	shou	ld be's	sent	to	"Supe	rinte	ndent of
Key West Monroe Co. Gulfport	20	6:18 pm	Short	Narro	0		3		Funnel Cloud Tornado		*			usco	7 - MM C	VB−A:	shevi	lle, !	N. C. 10/5/64-1000
Pinellas Co.	Wat		me ash	ore off				and d	amaged several	I. 									
Chiefland Levy Co.	24 L16	After- noon htning in	ured t	wo cons	0 truct	2 ion	orker	on t	Lightning he job.	!									
Titusville Breward Co.			rom so	utheast	to r				Tornado associated with he storm path.										
New Smyrna Beach Volusia Co.	27	During night	Short	Narrow	0	0	3		Tornado	1									
	are	of trees	and d	amages th hurr	to he	mes CLE	along and	a nar	thwest seen in row path. This ed several hours area.										
Davie	1	Unknown				0		,	Tornado										