SEPTEMBER 2017 VOLUME 59 NUMBER 9

STORM DATA



AND UNUSUAL WEATHER PHENOMENA WITH LATE REPORTS AND CORRECTIONS



NCEI NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

Cover: This cover represents a few weather conditions such as snow, hurricanes, tornadoes, heavy rain and flooding that may occur in any given location any month of the year. *(Photos courtesy of NCEI)*

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STORM DATA

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National Centers For Environmental Information

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STORM DATA is prepared, and distributed by the National Centers For Environmental Information (NCEI), National Environmental Satellite, Data and Information Service (NESDIS), National Oceanic and Atmospheric Administration (NOAA).

The Storm Data and Unusual Weather Phenomena narratives and Hurricane/Tropical Storm summaries are prepared by the National Weather Service. Monthly and annual statistics and summaries of tornado and lightning events resulting in deaths, injuries, and damage are compiled by the National Centers For Environmental Information (NCEI) and the National Weather Service's (NWS) Storm Prediction Center.

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

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

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

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Mary S. Wohlpenith

Director,

National Centers For Environmental Information

	ъ.	Time Local/	Path Length	Path Width	Perso		Estim Dama	ge	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ALABAMA, Central									
ALZ017>021-027> 029-037>038-043- 047>050		ır - Blount - lph - Russell				kee - Clay	- Cleburn	e - Elmor	re - Etowah - Lee - Pike -
	11	1100CST 1900CST			0	0	0.00K	0.00K	Tropical Storm
	across F Warning the region east of Infell onto	Torida and weags were in effect on by early mor nterstate 65 wh	akened into a ct for east cen ning, with bre here peak wind book out power	tropical sto tral Alaban ezy and gust d gusts of 3 lines. Due	orm on Septina as Tropic sty winds and to 45 mph to the track	tember 11th cal Storm Irr riving south knocked do c of Irmas co	as it moved ma approache to north throu own numerous enter, there w	into south d east Alal igh the day s trees, son as no torna	he hurricane tracked northward west Georgia Tropical Storm bama. Steady rains overspread . The highest impacts occurred he of which blocked roadways, ado threat to Alabama. By the
Pike County 3 ENE Tennille	16	1648CST 1649CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	Several t	trees were upro	oted and power	er lines dow				0.0011	mandossom vina (6526)
		cluster of thun mage. Note: T						over southe	ern Pike County, and produced
Calhoun County Choccolocco	19	1557CST 1558CST			0	0	0.00K	0.00K	Hail (1.00)
Calhoun County 1 W Old Davisville	19	1600CST 1601CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	An uppe peaked	between 2500	vave trough n and 3000 J/I	noved acro KG during	ss north Ala	on. Scattere	ed to numero	us thunder	or 19th. Surface based CAPE rstorms developed during the knots is equivalent to 58 mph.
Russell County									
Crawford	22	1513CST 1514CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	Several	trees uprooted i	near the inters	ection of La	aney Road a	nd Boswell	Rood.		
	Note: T	he estimated w	ind gust of 50	knots is eq	uivalent to 5	8 mph.			
Cherokee County 1 E Broomtown	23	1613CST 1614CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	Mobile l	nome damaged	and power lin	es downed	near the tow	n of Broom	town.		
		strong to seve d wind gust o					on September	22nd and	September 23rd. Note: The
ALABAMA, North									
Morgan County 1 W Danville	05 Nickel s	1357CST ized hail was re	eported in Dan	ville.	0	0			Hail (0.88)
Jackson County 1 SE Dutton	05 Nickel s	1511CST ized hail was re	eported in Dut	ton.	0	0			Hail (0.88)

		Time Local/	Path Length	Path Width	Numbe Persons		Estimated Damage	I	September 2017
Location	Date	Standard	(Miles)	(Yards)		Injured		Crops	Character of Storm
ALABAMA, North									
Dekalb County 1 E Beaty Xrds		1528CST the sized of quaront produced a				0 ate afterno	oon hours. Two o	f the sto	Hail (1.00) orms produce nickel sized hail.
ALZ008-010	Dekalb	- Marshall							
	11 12	1600CST 2200CST	•		0	0			High Wind
	conditio	ns across north of trees and tree	east Alabama	a. North to	northeast wind	ds gusted	over 35 mph in a	few loc	e 11th. This resulted in windy cations. This resulted in a few to the downed tree limbs onto
Colbert County 1 E (MSL)Muscle Shoals A	19 A wind g	1006CST gust of 59 mph	was reported	by the ASC	0 OS at the North	0 nwest Ala	bama Regional Ai	irport.	Thunderstorm Wind (51EG)
	Note: T	he estimated w	ind gust of 51	knots is eq	uivalent to 59	mph.			
Marshall County 1 SW Scant City		1258CST nes were knock he estimated w		•		0 mph			Thunderstorm Wind (52EG)
Marshall County	Note. 1	ne estimated w	ind gust of 32	kilots is eq	urvaient to oo	ттрт.			
3 NNE Hyatt		1328CST es were knocked he estimated w				0 mph			Thunderstorm Wind (52EG)
Marshall County	11000. 1	ne estimated w	ina gast of 32	knots is eq	arvaient to oo	mpii.			
2 NE Lakeview	19 Widespr	1328CST read power outa	iges were rep	orted in the	0 Guntersville a	0 rea.			Thunderstorm Wind (52EG)
Dekalb County	Alabama	a and moving e	astward and	becoming n	nore numerou	s by early	to mid afternoor	n. Wind	hours, beginning in northwest ds gusted to 59 mph at Muscle of 52 knots is equivalent to 60
1 WNW Crossville	23 A spotte	1735CST r reported mino	or roof damag	e to barns ir	0 n the area. Als	0 so, two oa	ak trees were upro	oted.	Thunderstorm Wind (61EG)
	Note: T	he estimated w	ind gust of 61	knots is eq	uivalent to 70	mph.			
Dekalb County 1 N Lathamville	23 A tree w	1735CST as knocked dov	wn onto a hou	ıse. Side pa	0 neling of a bar	0 rn was tor	n back.		Thunderstorm Wind (61EG)
	Note: T	he estimated w	ind gust of 61	knots is eq	uivalent to 70	mph.			
Dekalb County 1 W Kilpatrick	23 Trees we	1750CST ere knocked do	wn in a field	near the inte	0 ersection of Hi	0 ghways 6	8 and 168. time i	s estima	Thunderstorm Wind (61EG) tted.
		ning thunderstoning the e						were up	prooted and roof damage was
ALABAMA, Southeast									
ALZ065>069	Coffee	- Dale - Gene	eva - Henry	- Houston	n				
	11	0400EST 2200EST			0	0	650.0K).00K	Tropical Storm

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Killed Injured Crops Character of Storm Location

ALABAMA, Southeast

Hurricane Irma brought numerous impacts to the Florida Big Bend, southwest Georgia and southeast Alabama including widespread downed trees and power lines, roads blocked by trees, power outages, and trees on homes. Two people died during the event - one due to a car crash (Liberty County, FL) and another that had a heart attack (Worth County, GA). Two indirect deaths also occurred due to carbon monoxide from a generator (Taylor County, FL). While many counties across the Florida Big Bend and southwest Georgia were impacted, the greatest impacts were across the eastern portion of the area near the I-75 corridor. There were over 6.5 million customers without power in Florida, over 930,000 customers without power in Georgia, and over 45,000 customers without power in Alabama. Total damage cost for each county was estimated when figures were not available.

For southeast Alabama, Houston county reported a few trees and power lines down.

Coffee county reported several power lines and large trees down across major highways including Highway 135 South, 441 South, and 151 South. Some trees fell on structures and one farm structure collapsed.

Henry county reported numerous trees and power lines were down across the county. Two homes sustained structural damage damage due to fallen trees. Multiple roads were blocked with fallen trees. Approximately 1200 homes were without power.

Dale county reported several trees and power lines were down in the county. Two homes suffered minor damage due to trees falling on the roofs. Power outages were also noted in the county.

Geneva county reported trees and power lines down across the county with the county removing trees from 37 sites. In addition, on County Road 60, the roof was lost off a mobile home. The ceiling of the mobile home eventually collapsed and with rain entering the mobile home, it was a complete loss.

ALABAMA, Southwest

Mobile County Mobile Bates Fld

22 1458CST 1500CST 0 0 5.00K 0.00K Thunderstorm Wind (52EG)

Winds estimated at 60 damaged power poles near the Mobile Regional Airport. Dime to penny size hail was also observed at the NWS office.

Thunderstorms moved across southwest Alabama and produced small hail and gusty winds. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

ALASKA, Northern

AKZ223-225

Deltana and Tanana - Denali

05 0051AKS 06 0500AKS 0 0 0 0.00K 0.00K High Wind

Strong pressure gradient developed in channeled areas of the Alaska range on the 5th of September. A 980 Low over the Bering Sea induced the pressure gradient and associated weather front moved across the range as well.

zone 223: Peak wind gust of 57 kt (66 mph) reported at OP5 mesonet site at Fort Greely.

Zone 225: Peak wind gust of 61 kts (70 mph) reported at the State of Alaska Department of Transportation Mesonet site named Antler Creek.

Zone 226: The U.S. Army Mesonet station Edge Creek reported a wind gust to 61 kts (70 mph).

AKZ206 North Brooks Range east of Colville River

13 0400AKS 1746AKS 0 0 0 0.00K 0.00K High Wind

Strong pressure gradient in the Brooks range produced winds near 60 mph in the passes on September 13th.

AKZ211-214 Southern Seward Peninsula Coast - Yukon Delta

18 0000AKS

 $19 \hspace{1.5cm} 1800 \text{AKS} \hspace{1.5cm} 0 \hspace{1.5cm} 0.00 \text{K} \hspace{1.5cm} 0.00 \text{K} \hspace{1.5cm} \text{High Surf}$

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Date (Yards) Killed Injured Property Crops Character of Storm Location

ALASKA, Northern

Strong westerly winds created high surf and minor beach erosion for the coastal areas near Emmonak. Waves and surf built to 6 to 11 feet offshore with runup above the normal high tide line. Also high surf in Norton Sound with waves 4 to 6 feet offshore.

AKZ207 Chukchi Sea Coast

30 0000AKS 2359AKS 0 0 0 0.00K 0.00K High Surf

Strong southerly winds 25 to 40 mph with gusts to 50 mph created high surf and minor beach erosion for the coastal areas near Kivalina and Point Hope. Waves and surf built to 3 to 8 feet offshore with runup above the normal high tide line.

ALASKA, Southeast

Taiya Inlet 4 NNW Skagway

06 2300AKS 07 1200AKS 0 0 0 0.00K Flood

The Taiya River started a steep rise in the mid afternoon of September 6th and went above minor flood stage of 16.5 feet during the evening hours. There was about ankle deep water in the lower portions of the Chilkoot Trail within the Klondike Gold rush Historical Park near Skagway. There was a slight lull in the rain rates the water level remained above minor flood stage but leveled out in the evening hours. The rain increased in the headwaters of the basin overnight on September 6th and the Taiya River began another steep rise and went up above moderate flood stage of 17.0 feet just before midnight. The Taiya River crested at a stage of 17.78 feet around 0400AKDT and water levels started to fall as the rain rates tapered off. The river level went below minor flood stage by the mid afternoon on September 7th. There was flooding impacts along the Chilkoot Trail as the National Park Service closed the trail due to impacts associated with the high waters. The main reason for this is that trail orientation and navigation begins to become difficult and may hinder route-finding for several hundred meters. Water will be knee deep or higher in places along the lower portions of the trail. The NPS also advise against boating and other recreational water-based activities on the Taiya River.

A very strong and moist weather front moved over Southeast Alaska and produced 2 shots of moderate to heavy rainfall. Soils were already saturated from an event a day prior and the base flow of the Taiya River near Skagway remained at bankful stage. The river started to rise a few hours after the rain started in the afternoon hours of September 6th and went about moderate flood stage in the early morning hours of September 7th. The rain rates began to relax through September 7th and went back below minor flood stage in mid afternoon.

Rain amounts across the area of Skagway and in the headwaters of the Taiya River ranged from one and a half inch to two inches.

Taiya Inlet 3 NNW Skagway

27 1630AKS 28 0800AKS 0 0 0 0.00K 0.00K Flood

The Taiya River continued to rise at a steep rate for 36 hours from the moderate rainfall. The river went above moderate flood stage of 17 feet in the late afternoon hours on September 27th and did not go below that threshold until the early morning of September 28th. The Chilkoot trail within the Klondike Gold Rush Historical Park near Skagway Alaska was impacted by flooding along the lower portions of the trail. The river crested at a level of 17.59 feet and in doing so produced flood waters of knee deep or higher in places. In the morning hours of the 28th the National Park Service advised boaters and other recreational water based actives on the Taiya River to be suspended until the water level went down. The water levels receded through the day on the 28th and was below flood stage by the early afternoon.

A strong atmospheric river moved over Southeast Alaska from September 26th through the 28th. There was a long southwest fetch of subtropical moisture that was pointed at the region. This stream of moisture produced moderate to heavy rain over most of the area but there was moderate flooding along the Taiya River near Skagway and impacted the Chilkoot trail. The Taiya River rose about 4 feet and went above minor flood stage at 0600AKDT on September 27 and then above moderate flood stage at 0830AKDT. The river remained above flood stage until 1100AKDT on September 28th.

48 hour rain amounts for this event over the Skagway area and in the high elevations ranged from one and one half inches to two and one quarter inches in the headwaters of the Taiya River.

Path

Width

Number of

Persons

Estimated

Damage

September 2017

Path

Length

Time

Local/

Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ALASKA, Southern									
AKZ101	Ancho	rage Muni to	Bird Creek						
	06	0120AKS 0420AKS			0	0	0.00K	0.00K	High Wind
		g low pressure s sage of the front						led front or	shore in the Southcentral area.
AKZ195	Pribilo	of Islands							
	15 16	2205AKS 0353AKS			0	0	0.00K	0.00K	High Wind

AKZ181 Alaska Peninsula

16 0745AKS 1600AKS 0 0 0.00K 0.00K High Wind

A low pressure system moved from the Aleutian Islands to just off the Kuskokwim Delta coast, while intensifying rapidly to 970mb. Cold air advection and a tight pressure gradient on the backside of the low brought hurricane force winds to the Bering Sea.

Kenai Peninsula 47 E Soldotna

21 1304AKS

7 0010AKS 0 0 5000.00K 0.00K Flood

Flooding in many yards and at least one cabin along Snug Harbor Road. The lake edge is normally about another 30 feet off the deck. NWS survey crews found flooded boat launches at both Cooper Landing Boat Launch and Quartz Creek Campground Boat Launch. The public also reported flooding of various parking lots around the Cooper Landing area via Social Media.



A picture of flood waters from the Kenai River that flooded the Cooper Landing boat launch in Soldotna, Alaska during the period of September 21st-27th, 2017 from the outburst of Snow Glacier Dammed Lake. Photo courtesy of Social Media.

Wrn P.w. Snd & Kenai Mtns

10 S Moose Pass 22 1730AKS

27 0010AKS 0 0 1000.00K 0.00K Flood

NWS Survey team as well as photos and reports from residents along Primrose Spur road on south end of Kenai Lake confirm several days of flooded yards and road closed by state Dept. of Transportation. Resident reported flooding on the high end of normal for this biennial flooding event.

Snow Lake, a glacier-dammed lake in the Kenai Mountains, released on September 16th. The draining of the lake caused the Snow River, Kenai Lake, and the Kenai River to rise significantly. Flow measured on the Snow River was measured to be about 15 times the normal flow expected for September. Snow glacier-dammed lake typically releases every 2 years, usually during the fall.

Path Number of September 2017 Time Path Estimated Local/ Standard Length (Miles) Width Persons Damage (Yards) Property Date Injured Character of Storm Location

ALASKA, Southern



A picture of moose looking out over flooding along Primrose Spur Rd. on the Kenai Peninsula, Alaska from an outburst of Snow Glacier Dammed Lake during the period of September 22nd -September 27th, 2017. Photo courtesy of Ben Faust.

ARIZONA, Central and Northeast

Navajo	County
--------	--------

 2 E Snowflake
 09
 1558MST

 8 S Woodruff
 1600MST
 0
 0.00K
 0.00K
 Flash Flood

A thunderstorm with heavy rain caused a flash flood in the normally dry Dry Silver Creek Wash. A video submitted by weather spotter showed the water to be around six feet deep.

Moisture associated with an increase in southerly winds brought showers and thunderstorms to northern Arizona. One of the thunderstorms brought heavy rain and flash flooding close to Snowflake.

Coconino County

1 ESE Page (PGA)Page Arpt 14 1238MST 1255MST

0 0 20.00K 0.00K Thunderstorm Wind (49MG)

A thunderstorm produce damaging winds in the Page area. The hanger at the Page Airport was damaged. The Jet Center windows were blown out by the winds. A few trees were uprooted. The Page ASOS recorded a peak wind gust of 56 MPH at 1238 PM MST.

Multiple homes in the Champan Village area were damaged by flying debris and falling trees. Two power poles were destroyed when wind blown trees fell on them. This caused power outages in the area.

Note: The measured wind gust of 49 knots is equivalent to 56 mph.

Apache County

1 NE Sunrise Spgs 14 1315MST 4 ENE Ganado Greasewood Ar 1515MST

0 0 0.00K 0.00K Flash Flood

Thunderstorms with heavy rain washed mud and rocks over Navajo Route 15 between Greasewood and Ganado.

Coconino County

4 NNE Marble Canyon 15 0000MST

0200MST 0 0 0.00K 0.00K Flash Flood

Heavy rain from thunderstorms caused flash flooding in the Paria River. The USGS gauge on the Paria River near Lees Ferry rose over four feet to over 1500 CFS.

A low pressure system moving through the region brought cooler, windy, and showers day to northern Arizona. A few thunderstorms became strong to severe.

Location	Date	Local/			Path Number of Width Persons				September 2017	
		Standard	(Miles)	(Yards)	Killed	sons Injured	Dama Property	ge Crops	Character of Storm	
ADIZONA Northweet										
ARIZONA, Northwest Mohave County										
2 N (IGM)Mojave Co Arpt	02	1810MST			0	0	0.00K	0.00K	Thunderstorm Wind (50MG)	
	Note: The	e measured win	d gust of 50 l	knots is equ	ivalent to	58 mph.				
Mohave County										
5 NNE Dolan Spgs	02	1910MST								
		2000MST			0	0	1.00K	0.00K	Flash Flood	
	A vehicle	was stuck in flo	ooding on Pie	erce Ferry F	Road at Ar	chibald Wash				
Mohave County	0.5	10153 fgm								
Kingman 11 NNW Dolan Spgs	05	1815MST 2033MST			0	0	15.00K	0.00K	Thunderstorm Wind (57MG)	
11 MW Dolah Spgs		2033WIST			Ü	U	13.00K	0.001	Thunderstorm wind (37MG)	
	customers		ng dust and	shingle dar	nage were	reported 11			ing out power to about 12,000 springs. Severe outflow winds	
	Monsoon		ng west and i	north broug			nderstorms to	the Mojav	re Desert. Note: The measured	
Mohave County										
3 SSE (IGM)Mojave Co Arpt	08	1656MST 1900MST			0	0	5.00K	0.00K	Flash Flood	
	h Road was clo	Mountain Ro	ad due to all	the washes	flowing over the road.					
Mohave County										
23 SSE Littlefield	08	1733MST			0	0	0.00K	0.00K	Thunderstorm Wind (53MG)	
	Note: The	e measured win	d gust of 53 l	knots is equ	ivalent to	61 mph.				
Mohave County										
4 W Golden Valley	08	1900MST								
		2030MST			0	0	2.00K	0.00K	Flash Flood	
	Chino Dr	and Shinarump	Dr were clos	sed due to f	looding.					
Mohave County										
Willow Beach	08	1929MST								
		2130MST			0	0	1.00K	0.00K	Flash Flood	
	Willow B	each Access Ro	oad was close	d due to flo	ooding.					
Mohave County										
5 E (LHU)Lake Havasu Cit	09	1345MST								
		1500MST			0	0	1.00K	0.00K	Flash Flood	
	The inters	ection of Mario	copa and Oro	Grande wa	s flooded	and impassabl	e.			
Mohave County										
1 W Getz	09	1514MST								
		1700MST			0	0	1.00K	0.00K	Flash Flood	
	Kino Road was closed where it crosses the wash, and water flowed over Stockton Hill Road.									
	A strong push of monsoon moisture plus low pressure moving in from the west triggered an outbreak of thunderstorms of Mojave Desert. Several storms produced flash flooding and severe weather.									

9

		Time Local/	Path	Path Width		mber of	Estim Dama		September 2017
Location	Date	Standard	Length (Miles)	(Yards)	Killed	rsons Injured	Property	Crops	Character of Storm
ARIZONA, South									
Pima County 86 W Mescal	05 RAWS s	1514MST site in Sells mea	sured a thun	derstorm wi	0 nd gust of	0 60mph.	0.00K	0.00K	Thunderstorm Wind (52MG)
		d thunderstorned wind gust o					produced a	severe win	d gust near Sells. Note: The
Pima County 5 NE Sahuarita	16	1902MST 1905MST			0	0	0.00K	0.00K	Funnel Cloud
	A short-	lived funnel clo	oud was obser	ved near the	e Arizona	Motorplex on	Los Reales R	d.	
		e of small storr loud just befor		Santa Cruz	county ar	nd moved nort	theast toward	Tucson. O	ne cell produced a short-lived
ARIZONA, Southwest									
Gila County 1 W Globe	stronger with a di Advisor	storms productions ameter of three	ed large hail quarters of a at the time o	which fell in the second which fell in the large has been second with the large has been seco	n the tow out 1439N nail; no Se	n of Globe. A MST. No dama evere Thunder	trained weat age was repor storm Warnin	her spotter ted due to t ng was issu	Hail (0.75) September 4th and one of the in Globe measured hailstones he hail. A Significant Weather ed however. In addition to the tide of Globe.
	stronger Globe, a weather hail. The	storms affecte as is typical wit spotter in Glob e hail was not	d the area are h monsoon the measured l large enough	ound Globe hunderstorm nail with a do n to meet se	and Clayp ns, but it a liameter of evere crite	pool. The storm lso managed to f three quarter ria and no Se	m produced late produce late sof an inch. vere Thunde	ocally heav rge hail wh No damage rstorm War	a September 4th and one of the ry rain over the eastern side of ich is less common. A trained e was reported due to the large rning was issued. However, a d hail along with gusty winds.
La Paz County 21 S Quartzsite	some of labeled	the stronger s YP010 measure	torms product d a wind gus	ced gusty o t to 66 mph.	utflow wi The static	nds in excess on was located	of 60 mph. 18 miles wes	At 1712MS st of Palm C	Thunderstorm Wind (57MG) on hours on September 7th and ST a mesonet weather station Canyon, to the west of the Kofa strong wind gust.
	hours or along wi River V Mountai spotter j	n September 7t th patchy dense alley, measured ns measured a	h. They affect blowing dust d gusts as hig gust to 66 mp Tacna repor	cted both Yest. Automate gh as 64 mp ph. No dama ted dense b	uma and I ed weather h. Shortly age was re lowing du	La Paz Counti stations in far after 1700M sported due to st that reduced	es as they browstern Yungs ST another nother the strong with	ought stron na County, nesonet we inds. Finally	the late afternoon and evening g and gusty winds to the area just east of the lower Colorado ather station west of the Kofa y, at about 1900MST a trained arter of a mile in a dust storm.
AZZ023-026	Greate	r Phoenix Ar	ea - Southy	west Deser	ts				
	07	1845MST 2030MST			0	0	0.00K	0.00K	Dust Storm
	during the during the dust store quarter r	ne early evenin The gusty wind rm conditions to nile in Chandle Storm Warning	g hours on Seds stirred up hat affected or to about zero.	eptember 7t significant a communitie ro miles in (h and som amounts of s from Q Queen Cre	ne of the stron f dust and dirt queen Creek to ek, as reported	ger storms ge , resulting in o Chandler to I by a trained	enerated gus areas of der East Mesa spotter and	ater Phoenix metropolitan area, sty outflow winds in excess of ase blowing dust and localized Visibilities ranged from one I broadcast media respectively. s, no accidents or injuries were
Pinal County 6 SE Palm Spgs	07	1900MST 2130MST			0	0	0.00K	0.00K	Heavy Rain

		Time	Path	Path		nber of	Estima	ated	September 2017
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

ARIZONA, Southwest

Scattered thunderstorms developed over the eastern portion of the greater Phoenix area during the early evening hours on September 8th, and some of the stronger storms produced locally heavy rain in the Apache Junction and Gold Canyon area. Peak rain rates as shown by radar and local rain gages were in excess of one inch per hour, and this was sufficient to produce areas of street flooding in Gold Canyon. At 1910MST a report was received from an amateur ham radio operator and it indicated that there was 4 inches of water across the Superstition Freeway (Highway 60) between Gold Canyon and Peralta Road. The street flooding created hazardous driving conditions but fortunately no accidents were reported. A Flood Advisory was issued shortly after the street flooding report was received.

Scattered thunderstorms developed across the eastern portion of the greater Phoenix area during the evening hours on September 8th, and some of the stronger storms produced locally heavy rains with peak rain rates in excess of one inch per hour. Heavy rains the far east valley community of Apache Junction; area washes such as the Weekes Wash began to flow heavily and shortly afterward flash flooding and flooding occurred. At about 2030MST Apache Junction Police reported that barricades were being erected at the intersection of State Route 88 and Tomahawk Road due to flash flooding. In addition, about one hour earlier several inches of water were reported to be across U.S. Highway 60 between Gold Canyon and Peralta. A Flash Flood Warning was issued for the area beginning at 1954MST and continuing through 2300MST. No accident or injuires were reported.

Yuma County 6 ESE Fishers Lndg

0 0 0.00K 0.00K Thunderstorm Wind (51MG) Scattered thunderstorms developed across portions of western Yuma County during the evening hours on September 7th and some of the stronger storms produced very gusty outflow winds. At 2012MST the mesonet weather station YP017, located 5 miles east-southeast of Martinez Lake, measured a wind gust to 59 mph. The station was also located to the west of highway 95. No damage was reported due to the strong wind gust.

Note: The measured wind gust of 51 knots is equivalent to 59 mph.

La Paz County 28 SE Cibola

0 0 0.00K 0.00K Thunderstorm Wind (56MG) Scattered thunderstorms developed across the western portion of La Paz County during the evening hours on September 7th and some of the stronger storms generated outflow wind gusts in excess of 60 mph. A mesonet weather station in far southern La Paz County, labeled YP013, measured a peak gust to 64 mph at 2016MST. The station was located 5 miles northeast of Martinez lake, northeast of Castle Dome Landing and west of Highway 95. No damage was reported due to the strong wind.

Scattered thunderstorms developed over the southwestern and western deserts of Arizona during the late afternoon and evening hours on September 7th. They affected both Yuma and La Paz Counties as they brought strong and gusty winds to the area along with patchy dense blowing dust. Automated weather stations in far western Yuma County, just east of the lower Colorado River Valley, measured gusts as high as 64 mph. Shortly after 1700MST another mesonet weather station west of the Kofa Mountains measured a gust to 66 mph. No damage was reported due to the strong winds. Finally, at about 1900MST a trained spotter just northeast of Tacna reported dense blowing dust that reduced visibility below one quarter of a mile in a dust storm. Note: The measured wind gust of 56 knots is equivalent to 64 mph.

Yuma County 2 E El Pueblecito

0 0 12.00K 0.00K Thunderstorm Wind (61EG) Scattered thunderstorms developed in the Yuma area during the afternoon hours on September 9th, and some of the stronger storms produced gusty and damaging microburst winds estimated to be as high as 70 mph. At 1540MST an amateur radio operator reported that strong winds had downed multiple trees at the intersection of U.S. Highway 95 and Pacific Avenue. The radio operator was a ham radio trained spotter. No injuries were reported due to the downed trees.

Note: The estimated wind gust of 61 knots is equivalent to 70 mph.

Yuma County 2 E El Pueblecito

08 1545MST 0 0 75.00K 0.00K Thunderstorm Wind (61EG) Scattered thunderstorms developed in the city of Yuma during the afternoon hours on September 8th, and one of the stronger storms produced gusty and damaging microburst winds estimated to be as high as 70 mph. According to the local APS utility company and relayed through a trained weather spotter, gusty microburst winds downed 9 power poles at the Yuma Palms Mall. Some of the downed poles trapped people in their cars; fortunately no injuries were reported.

Note: The estimated wind gust of 61 knots is equivalent to 70 mph.

Yuma County 2 SW El Pueblecito

08 1600MST 1730MST 0 0 0.00K 0.00K Heavy Rain

Scattered thunderstorms developed across the community of Yuma during the afternoon hours on September 8th, and some of the stronger storms produced locally heavy rainfall that led to an episode of street flooding in town. Rainfall rates and amounts were not extreme and flash flooding did not occur. However, at 1640MST a trained spotter reported that streets were flooded on 24th Street and Avenue B in Yuma. The street flooding presented hazardous driving conditions to motorists during the rush hour in Yuma but fortunately no accidents were reported.

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location

ARIZONA, Southwest

Scattered thunderstorms developed in the Yuma area during the afternoon hours on September 8th and they brought typical albeit somewhat garden-variety hazards to the area. Moderate hail, heavy rain and gusty and damaging winds were all present; strong storms in Somerton produced hail with a diameter of one half inch and heavy rain in west Yuma led to street flooding. One of the strongest storms produced damaging microburst winds that downed 9 power poles at the Yuma Palms Mall and some people were trapped in their cars due to the downed poles. This occurred at 1545MST. At roughly the same time, and about one mile further east, multiple trees were reported downed as well. No injuries were reported fortunately. A Severe Thunderstorm Warning was issued shortly thereafter, at 1607MST.

Pinal County 1 NW Goldfield 2 E Palm Spgs

08 2000MST 2230MST 0 0 3.00K 0.00K Flash Flood

Scattered thunderstorms developed east of Phoenix during the evening hours on September 8th and some of the stronger storms produced heavy rain in the area around Apache Junction. Peak rain rates as shown by radar and flood control district gages were in excess of one inch per hour, and given the flashy nature of the terrain this was sufficient to lead to an episode of flash flooding. At 2029MST the Apache Junction Police Department indicated that barricades were going up at the intersection of Tomahawk Road and State Route 88 because of the flash flooding. A Flash Flood Warning was issued for the area at 1954MST and it remained in effect until it was cancelled at 2241MST.

Scattered thunderstorms developed across the eastern portion of the greater Phoenix area during the evening hours on September 8th, and some of the stronger storms produced locally heavy rains with peak rain rates in excess of one inch per hour. Heavy rains the far east valley community of Apache Junction; area washes such as the Weekes Wash began to flow heavily and shortly afterward flash flooding and flooding occurred. At about 2030MST Apache Junction Police reported that barricades were being erected at the intersection of State Route 88 and Tomahawk Road due to flash flooding. In addition, about one hour earlier several inches of water were reported to be across U.S. Highway 60 between Gold Canyon and Peralta. A Flash Flood Warning was issued for the area beginning at 1954MST and continuing through 2300MST. No accident or injuires were reported.

La Paz County 5 SSW Harcuvar 4 SSW Vicksburg

08 2015MST 2300MST 0 0 4.00K 0.00K Flash Flood

Thunderstorms developed across the central portion of La Paz County during the evening hours on September 8th and some of the stronger storms produced locally heavy rains with peak rain rates approaching 2 inches per hour. The intense rain led to an episode of flash flooding north of Interstate 10 and east of Quartzsite. At 2040MST a public report was received indicating that flash flooding was occurring near the intersection of Highway 60 and State Route 72. A Flash Flood Warning had been issued earlier at 2009MST and was in effect at the time of the flooding. No accidents or injuries were reported.

Thunderstorms developed across the central portion of La Paz County during the evening hours on September 8th, and some of the stronger storms produced very heavy rainfall with peak rain rates approaching 2 inches per hour. The intense rainfall led to an episode of flash flooding to the east of the town of Quartzsite and north of the Interstate 10 corridor. At 2040MST public reports indicated that there was flash flooding near the intersection of Highway 60 and State Route 72. No accidents or injuries were reported due to the flooding. A Flash Flood Warning was issued at 2009MST and remained in effect through 2300MST.

Maricopa County 1 S Guadalupe

24 1300MST 1305MST 0 0 0.00K 0.00K Dust Devil

During the early afternoon hours on September 24th, an impressive dust devil developed over the southern portions of Tempe and this was captured on camera by local broadcast media. The dust devil formed over open, dusty ground during the early afternoon on a warm day under sunny skies, and quickly formed a very impressive rotating funnel which grew several hundred feet high. The dust devil formed near the intersection of Interstate 10 and Elliot Road, at about 1300MST. The devil was captured on camera by AZ Family TV3 / CBS Channel 5. No damage occurred despite the impressive nature of the rotating funnel.

Even though high temperatures had cooled to well below 100 degrees, sunny skies combined with mid 80 degree high temperatures and modest afternoon breeziness set the stage for an impressive dust devil to develop. The dust devil developed over hot and dusty ground, and persisted for several minutes, growing to a height of several hundred feet. It was caught on camera and made it onto the local news. The dust devil formed in the southeast portion of the greater Phoenix area, over southern Tempe. No damage was reported due to the dust devil.

		Time Local/	Path Length	Path Width	Num Perso	iber of	Estim Dama		September 20
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ARKANSAS, Central and N	North Cen	<u>itral</u>							
Woodruff County									
1 WSW Riverside 1 N Cavell	01 06	0000CST 1100CST			0	0	0.00K	0.00K	Flood
1 N Caven									1400d
	Heavy ra	ain in August led	l to flooding	along the C	ache River	that continue	ed into early S	September.	
	Heavy ra	ain brought flood	ling to the Ca	ache River	at Patterson	in Septembe	er 2017.		
ARKANSAS, East									
Mississippi County									
2 NNE Armorel	18	1610CST							
		1615CST			0	0		0.00K	Thunderstorm Wind (50EG)
	A trucki	ng business had	extensive str	uctural and	roof damag	ge on Highwa	ay 137 east of	Blytheville	e.
	afternoo		nunderstorms	s. A thunder	rstorm over				airmass to produce scattered th damaging winds. Note: The
ARKANSAS, Southeast									
Chicot County									
2 S Norcross	Above n	1115CST cloud occurred ormal temperatures to the region.	res for mid-S	-			0.00K ure in place o	0.00K ver the regi	Funnel Cloud ion, brought afternoon showers
ARKANSAS, Southwest									
Hempstead County									
1 NW Bingen	05 Quarter	1340CST size hail fell in t	he Bingen co	mmunity.	0	0	0.00K	0.00K	Hail (1.00)
Hempstead County									
2 W Doyle	05 Half doll	1350CST lar size hail fell :	a few miles e	ast of Nash	0 ville.	0	0.00K	0.00K	Hail (1.25)
Miller County									
2 WNW Mandeville		1515CST of large hail just ia Facebook pag		n golfballs t	0 hat fell in th	0 ne Sugar Hil	0.00K l area of North	0.00K h Texarkan	Hail (1.50) a, were posted on several local
Miller County									
2 WNW (TXK)Texarkana A	•	1515CST of half dollar siz	ze hail that fe	ll in Texark	0 ana, were p	0 posted on sev	0.00K veral local TV	0.00K media Fac	Hail (1.25) ebook pages.
	Plains de extreme instabilit and thun forcing vertions	uring the late m Northeast Texas ty developed alouderstorms during was strongest ah	s during hours of during the rang and ahead of the late aff ead of the troud and Miller Cound	s of Septen mid and late I of the fror ternoon and bugh. Some bunties. The	the afternoon, at, with incr d evening a of these sto	he accompand before mover reasing fronts cross Southworms became	nying cold from the ing into North al convergence west Arkansan e severe, resul	ont moved n Louisiana e yielding s and Nortl ting in vari	Midwest and Central/Southern into Southwest Arkansas and during the evening. Moderate scattered to numerous showers h Louisiana, where large scale ous reports of large hail across is cooler and drier air began to

CALIFORNIA, Extreme Southeast

CAZ033	Imperi	ial County except the Lower	· Colorado River	Valley			
	07	1530PST					
		1700PST	0	0	0.00K	0.00K	Dust Storm

		Time	Path	Path	Nun	nber of	Estimated		September 2017
		Local/	Length	Width	Pers	ons	Damag	ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

CALIFORNIA, Extreme Southeast

Scattered monsoon thunderstorms developed across the northern Baja California mountains as well as far northwest Mexico, during the late afternoon hours on September 7th and they generated very strong and gusty outflow winds in excess of 50 mph. The strong winds spread to the north and into portions of Imperial County, moving across the Interstate 8 corridor and into the Imperial Valley. The strong wind stirred up significant amounts of dust, dirt and sand which led to patchy dust storm conditions. Visibility lowered to zero miles in a dust storm in the town of Seeley at about 1520PST. A Dust Storm Warning was issued due to the dense blowing dust; fortunately no accidents or injuries were reported as a result of the very hazardous driving conditions.

Imperial County 4 E Calexico

08 1300PST 0 0 200.00K 0.00K Thunderstorm Wind (61EG) Very strong thunderstorms developed across the higher terrain of northern Baja during the early afternoon hours, and then moved north into south-central Imperial County. Some of the storms generated gusty and damaging microburst winds estimated to be as high as 70 mph. According to a local emergency manager, at 1300PST gusty winds blew down 20 to 23 power poles along Carr Road, approximately 4 miles east of the town of Calexico and just north of the Mexican border. This caused the road to become closed from California Highway 7 to Barbara Worth Road.

Note: The estimated wind gust of 61 knots is equivalent to 70 mph.

Imperial County 1 E Calipatria

0 0 200.00K 0.00K Thunderstorm Wind (61EG) Thunderstorms developed across the central portion of Imperial County during the early afternoon hours and they moved quickly to the north, producing strong gusty and damaging outflow winds which impacted portions of the Imperial Valley as well as the town of Calipatria. According to local emergency managers, at 1300PST gusty microburst winds estimated to be as high as 70 mph blew down 23 power poles in the town of Calipatria. The poles were downed on Young Road, near Highway 111. No injuries were reported due to the downed poles.

Note: The estimated wind gust of 61 knots is equivalent to 70 mph.

Imperial County 2 S Meloland

0 0 2.00K 0.00K Thunderstorm Wind (52EG) Thunderstorms with gusty damaging winds developed across the central portion of Imperial County during the early afternoon hours on September 8th and some of the stronger storms affected the Imperial Valley including the area around the town of Holtville. At 1300PST, gusty winds estimated to be at least 60 mph blew down a tree near the intersection of Barbara Worth Road and Interstate 8. The downed tree was about 4 miles southwest of the town of Holtville. This was reported by the California Highway Patrol.

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

Imperial County 3 E Calexico

3 E Calexico 08 1315PST **4 WSW Bonds Corner** 1600PST

A line of thunderstorms developed across central Imperial County during the early afternoon hours and some of the stronger storms produced very heavy rainfall which impacted areas from the Imperial Valley south to the Mexican Border. Peak rain rates were in excess of 2 inches per hour and led to episodes of flash flooding. At 1339PST a local emergency manager reported significant flooding on California Highway 98 to the east of Calexico and west of Highway 7. A Flash Flood Warning

was in effect at the time of the flooding; it was issued at 1316PST and remained in effect through 1600PST.

5.00K

0.00K

Flash Flood

Imperial County 2 W Date City

 2 W Date City
 08
 1315PST

 2 SSE Holtville
 1600PST
 0
 0.00K
 0.00K
 Flash Flood

Scattered to numerous thunderstorms developed across the central portion of Imperial County during the afternoon hours and some of the storms produced very heavy rainfall with peak rain rates in excess of 2 inches per hour. The intense rains led to episodes of flash flooding, some of which affected the Imperial Valley and areas around the town of Holtville. According to the California Highway Patrol, at 1358PST, flash flooding occurred about 2 miles southeast of Holtville, to the northeast of Bonds Corner Road. No injuries were reported. A Flash Flood Warning was in effect at the time of the flooding.

Imperial County 2 WSW Meloland

08 1330PST 1600PST 0 0 100.00K 0.00K Flash Flood

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Location (Yards) Injured Crops Character of Storm Date

CALIFORNIA, Extreme Southeast

Scattered to numerous thunderstorms developed across the central portion of Imperial County during the afternoon hours on September 8th, and some of the stronger storms produced very heavy rainfall with peak rain rates in excess of 2 inches per hour. The intense rain led to episodes of flash flooding in the Imperial Valley, including the town of Holtville. According to a local emergency manager, heavy rain caused excessive flow in area canals, and one canal was breached near the intersection of Meloland and Evan Hewes roads. As the canal breached, flash flooding occurred which inundated nearby homes. The flooded homes were located about 4 miles west of Holtville. A Flash Flood Warning was in effect at the time of the flooding. No injuries were reported.

Imperial County 1 N Niland

08 1340PST 0 0 40.00K 0.00K Thunderstorm Wind (56EG) Scattered thunderstorms developed across portions of central Imperial County during the afternoon hours on September 8th, and some of the stronger storms produced gusty and damaging outflow winds which impacted the town of Niland located to the north of the Imperial Valley. At 1340PST a local emergency manager reported that gusty winds estimated to be as high as 65 mph blew down 5 power poles. The downed poles were located along Highway 111 in Niland. Power in town was reported to be out due to the downed poles. A Severe Thunderstorm Warning was in effect at the time of the damage; it was issued at 1323PST.

A long north to south oriented line of thunderstorms developed during the early afternoon hours on September 8th; it ran from the Baja spine northward through central Imperial County and into eastern Riverside County. The individual storms moved rather quickly to the north and most of the storms in the line were very strong, producing gusty damaging microburst winds along with intense rainfall which led to multiple episodes of flash flooding. Much of the damage and flooding occurred from the Imperial Valley south to the Mexican border. For example, just north of the Mexican border and east of Calexico, 23 power poles were downed on Carr Road. Further north, in the town of Calipatria, 23 power poles were downed on Young Road at about 1300PST. Flash flooding occurred in the vicinity of the town of Holtville; about 4 miles west of town a canal was breached resulting in the flooding of nearby homes. Multiple Flash Flood and Severe Thunderstorm Warnings were issued during the afternoon. Note: The estimated wind gust of 56 knots is equivalent to 64 mph.

Riverside County 8 SW Desert Center

08 1345PST 1700PST 0 0 5.00K 0.00K Flash Flood

Scattered to numerous thunderstorms developed across portions of eastern Riverside county, mainly east of Joshua Tree National Park, during the afternoon hours on September 8th. Some of the stronger storms produced very heavy rainfall with peak rain rates in excess of 2 inches per hour. The intense rains led to episodes of flash flooding that primarily affected the Interstate 10 corridor west of Desert Center and through Chiriaco Summit. At 1405PST the California Highway Patrol reported that Interstate 10 was flooded eastbound at Red Cloud. About forty five minutes later at 1450PST the California Highway Patrol reported that Interstate 10 was flooded at Chiriaco Summit. A Flash Flood Warning was then issued but was not in effect when these flooding reports occurred. Fortunately no accidents or injuries occurred as a result of the flash flooding.

Riverside County 16 NE Eagle Mtn

08 1400PST 1700PST 0 0 25.00K 0.00K Flash Flood

Scattered to numerous thunderstorms developed across portions of eastern Riverside County during the afternoon hours on September 8th, and some of them produced very heavy rains with peak rain rates in excess of 2 inches per hour. The intense rains led to flash flooding in locations to the east of Joshua Tree National Park, along Highway 177 across the far north portion of the county and near the intersection of Highway 62. As of about 1600PST, multiple reports were received from the California Highway Patrol of debris and mud near the intersection of Highway 177 and Highway 62. The reports also indicated multiple cars and trucks stuck in a nearby wash. The intersection was closed as a result of the flooding. A Flash Flood Warning was not in effect at this time. Radar indicated that most of the significant, flash flood producing rains had occurred well to the south of this intersection, closer to Interstate 10 and communities such as Eagle Mountain. It is most likely that the heavy rain to the south of the flooded intersection flowed through various washes towards the north and in a roundabout fashion the floodwaters eventually reached the intersection of highways 177 and 62 and caused the flash flooding and debris over the roads.

Scattered to numerous thunderstorms developed over portions of eastern Riverside County during the afternoon hours on September 8th and some of the stronger storms produced very heavy rainfall with peak rain rates in excess of 2 inches per hour as shown by local radar. The intense rainfall led to episodes of flash flooding, especially along the Interstate 10 corridor from west of Desert Center westbound past Chiriaco Summit. The California Highway Patrol reported at least 2 locations where flooding was occurring across Interstate 10; fortunately no accidents were reported due to the very hazardous driving conditions. Flash Flood Warnings were issued at times during the afternoon due to the high risk of flooding.

CAZ032 Riverside County Eastern Deserts

08 1430MST 1600MST 0 0 0.00K 0.00K Dust Storm

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location

CALIFORNIA, Extreme Southeast

Scattered thunderstorms developed across portions of eastern Riverside County during the afternoon hours on September 8th; most of the storms formed across areas to the east of Joshua Tree National Park and west of the lower Colorado River Valley. The stronger storms produced gusty outflow winds over 40 mph which overspread the lower deserts, picking up dust and dirt and generating areas of dense blowing dust and sand. For the most part visibilities were above 1 mile, but in some locales visibilities lowered to one quarter mile or below signifying dust storm conditions. For the most part the blowing dust occurred over open desert but there was a report at 1435PST from a trained spotter who indicated that a dust storm was occurring along Interstate 10 to the west of the Blythe airport. A Dust Storm Warning was then issued for eastern Riverside County from 1440PST through 1600PST. Despite the very hazardous driving conditions on Interstate 10 due to the dust storm, no accidents were reported.

Imperial County 14 WNW Picacho 14 NE Glamis

Scattered thunderstorms developed over the eastern portion of Imperial County during the morning hours on September 9th, and some of the stronger storms produced locally heavy rains with peak rain rates in excess of one inch per hour. Much of the heavy rain fell over open country, but some of the intense rain fell along Highway 78, between Glamis and Palo Verde. At 1000PST, local law enforcement reported that Highway 78 was closed west of Ogilby Road due to flash flooding and radar indicated that over 2 inches had fallen in the area at the time of the flooding. A Flash Flood Warning had been issued at 0837PST for the area and the warning remained in effect through about 1136PST. Despite the flash flooding, no accidents were reported.

Thunderstorms developed across the eastern portion of Imperial County during the morning hours on September 9th and some of the stronger storms produced locally heavy rains with peak rain rates well in excess of one inch per hour. Most of the rain fell over open country and did not pose an impact, but some of the heavy rain managed to fall across roads such as Highway 78 between Palo Verde and Glamis, leading to localized flash flooding. At 1000PST local law enforcement reported that flash flooding had resulted in the closure of Highway 78 west of Ogilby Road; a Flash Flood Warning had been issued earlier in the morning and was in effect at the time of the flooding.

Riverside County 2 NNW Blythe 5 NNE Mesaville

09 1015PST 1315PST 0 0 75.00K 0.00K Flash Flood

Scattered thunderstorms developed along the lower Colorado River Valley during the morning hours on September 9th, and some of the stronger storms produced locally heavy rainfall which affected areas around the town of Blythe. Peak rain rates were in excess of one inch per hour and were sufficient to cause an episode of flash flooding. According to local law enforcement, at 1023PST U.S. Highway 95 was closed about 7 miles north of Blythe due to flash flooding. Water was reported to be 3 feet deep in the road and 2 water rescues were needed as a result of the flooding. Fortunately no injuries were reported in association with the water rescues. A Flash Flood Warning had been issued prior to the flash flooding; it was issued at 1014PST and was in effect until 1315PST.

Scattered thunderstorms developed across far eastern Riverside County during the morning hours on September 9th; some of the strongest storms focused along the lower Colorado River valley and they produced locally heavy rains with peak rain rates in excess of one inch per hour. The intense rainfall led to an episode of flash flooding near the town of Blythe; shortly after 1000PST local law enforcement reported that Highway 95 north of Blythe was closed due to the flash flooding. Water was reported to be 3 feet deep in the road and 2 water rescues were performed north of Blythe due to the flash flooding. No injuries were reported in association with the water rescues. A Flash Flood Warning was issued less than 30 minutes prior to the flash flooding.

CALIFORNIA, North Central

Shasta County

2 NNW Hat Creek 06 1600PST 0 0 0.00K 0.00K Hail (0.88)

Nickel size hail, strong gusty wind and lightning strikes reported. Event time estimated by radar.

Amador County 3 WSW Kirkwood

08 1525PST 1530PST 0 0 0.00K 0.00K Hail (1.00)

Hail stones accumulated on Highway 88, as large as an inch in diameter.

Afternoon thunderstorms with large hail developed in the mountains and foothills.

Stor	m D	ata an	u c n	uyuu	.1	athe	1 1 11		ТСПИ
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Perso Killed	ber of ons Injured	Estin Dam Property	nated age Crops	September 2017 Character of Storm
CALIFORNIA, North Cen	tral								
CAZ069	West S	Slope Norther	n Sierra No	evada					
	21 22	0900PST 0000PST			2	0	0.00K	0.00K	Winter Weather
	An unu M?Unk	•	m system b	rought accu	ımulating sı	now to the	Sierra, impa	cting travel	and closing seasonal passes.
CAZ018	Carqu	inez Strait an	d Delta						
	23	1300PST 1700PST			0	0	2.0M		Wildfire
	Buildin	g high pressure o	over the area	brought dry	ing northerl	y winds to the	he area, creat	ing critical	fire weather conditions.
CALIFORNIA, Northeast									
CAZ073	Mono								
	01 11	0000PST 2359PST			0	0			Wildfire
	and far								fire starts in northwest Nevada was not 100% contained until
El Dorado County 1 NW South Lake Tahoe	08	1405PST 1415PST			0	0			Hail (0.88)
	Public r	eported nickel si	ize hail via F	acebook.					
El Dorado County 4 SSE Meeks Bay	08	1425PST 1435PST			0	0			Hail (1.00)
	Ranger	at DL Bliss State	e Park report	ed quarter s	ize hail accu	ımulating up	to a half inc	h on ground	l.
		area of low pre							gh the Great Basin, enhancing sich in diameter.
CALIFORNIA, South Cent	<u>tral</u>								
CAZ096-097	South	Sierra Mount	ains - Tula	re County	Mountair	ns			
	01 15	0000PST 1300PST			0	11	0.00K	0.00K	Wildfire
	Yosemi and the commu contain historic attached	te National Park south entrance nities evacuated ed on Septembe locomotive that	near the cone of Yosemi, including Ter 15, 2017. It wasnt being part of the Y	nmunity of State National Tenaya Lodg Cost of congused, as wo Yosemite Mo	Sugar Pine. 'I Park was ge that serve tainment was ell as a passountain Sug	The fire spre closed in b es visitors to as \$20.8 mi senger car, s ar Pine Rail	ead rapidly in both direction of Yosemite. Ilion. There nowplow, sid	dry brush. ns for abou The fire bur were 17 stru de dump can	north of Oakhurst, just south of Highway 41 between Oakhurst at a week with several small med 12,407 acres before being uctures destroyed, including a r and refrigerator car that were oden railroad ties also burned.
CAZ089>094		entral San Jo in Valley - Tu							in Valley - Southwest San
	01 03	1000PST 2000PST			0	0	0.00K	0.00K	Excessive Heat

f	ъ.	Time Local/	Path Length	Path Width	Perso		Estin Dam:	age	September 201
ocation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
CALIFORNIA, South C	<u>Central</u>								
	normal tocation	emperatures bet	ween Augus een August	t 26 and Sep 26 and Sept	otember 3. l tember 3 ac	High temper cross the Sar	atures rangeo n Joaquin Va	d mainly fro lley, the so	d period of much warmer than om 106 to 112 degrees at many uthern Sierra foothills and the
Tulare County 5 E Lodgepole	03	1130PST 1230PST			0	3	0.00K	0.00K	Lightning
	A family	y of three were s	truck by ligh	tning and in	jured while	wilderness	backpacking	at Sequoia l	National Park.
	Mountain the Fraz	ins during the la ier Park and Pin	te afternoon e Mountain (of Septembe Club areas.	er 3. These The thunde	thunderstori rstorms spre	ms produced ad northward	heavy rain I through th	erstorms over the Kern County which caused flash flooding in the San Joaquin Valley along an which reduced visibility to near
CAZ093	South 5	Sierra Foothil	ls						
	03 13	1206PST 1800PST			0	0		0.00K	Wildfire
	Nevada residend southea	The Mission faces and damage	ire began 2 ı d 4 other str in Mariposa	miles east or ructures bef a county an	of North For Fore being of d burned 6	rk in Made contained o 80 acres ar	ra county and notes and notes and notes are no	d burned 10 13, 2017.	th in the foothills of the Sierra 035 acres and destroyed three The Peak fire began 9 miles es before being contained on
Kern County Pumpkin Center	03 Californ Castle F		rol reported 1	road floodin	0 ag and debr	0 is due to he	0.00 K avy rainfall n	0.00K ear Compa	Debris Flow gnoni St. and Taft Highway in
Kern County 1 SE Weed Patch	Route 1	1619PST nia Highway Pat 84 near Sunset he estimated wir	Blvd 3 miles	s south of L	amont.	·	10.00 K nderstorm wi	0.00K nds across	Thunderstorm Wind (43EG) the northbound lanes of State
Kern County 1 E Oil Jet	03	1629PST ia Highway Patr		•	0	0	1.00K to strong win	0.00K ds 4NW Ba	Thunderstorm Wind (35EG) kersfield.
	Note: T	he estimated wir	nd gust of 35	knots is equ	ivalent to 4	10 mph.			
Kern County 1 ENE Venola		1631PST nia Highway Pat White Ln. in B		a mud slide	0 e and road	0 flooding du	0.00K e to heavy ra	0.00K iinfall on so	Debris Flow outhbound State Route 99 just
Kern County 2 E Oil Center	03 Californ Bakersf		rol reported	several tree	0 branches d	0 own on Stat	1.00K te Route 178	0.00K due to stro	Thunderstorm Wind (35EG) ng thunderstorm winds in East
T. C. 1	Note: T	he estimated win	nd gust of 35	knots is equ	ivalent to 4	10 mph.			
Kern County 7 WSW Claraville	03 Californ	1631PST ia Highway Patr	ol reported tr	ree branches	0 downed from	0 om thunders	1.00K torm wind gu	0.00K usts 13 ENE	Thunderstorm Wind (35EG) Keene.
	Note: T	he estimated wir	nd gust of 35	knots is equ	ivalent to 4	10 mph.			
Kern County 1 W Kern City	03 Califori Bakersf		atrol reported	d a mud sli	0 de in the r	0 ight lane o	0.00K f State Route	0.00K e 99 at Min	Debris Flow ng Ave. to State Route 58 in

		Time	Path	Path	Number	of	Estima		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Persons Killed I	njured	Damaş Property	ge Crops	Character of Storm
CALIFORNIA, South Centra	<u>al</u>								
Kern County 3 SE Calders Corner	03 California winds.	1652PST Highway Patro	ol reported p	ower lines d	0 owned across	0 Stockdal	10.00K le Highway we	0.00K est of Rosed	Thunderstorm Wind (43EG) lale from strong thunderstorm
	Note: The	e estimated win	d gust of 43	knots is equ	ivalent to 49 1	nph.			
Kern County 4 NNE Tupman		1708PST Highway Patro willow. The do				0 ower line	50.00K s near Interstat	0.00K te 5 just sou	Thunderstorm Wind (43EG) th of Stockdale Highway 1SE
	Note: The	e estimated win	d gust of 43	knots is equ	ivalent to 49 1	nph.			
Kern County 1 N Pumpkin Center	near State	1721PST a public report Route 99 and 1	Berkshire Rd	l. in Bakersf	ield.		10.00K nder construct	0.00K ion damage	Thunderstorm Wind (43EG) d by thunderstorm wind gusts
Kern County	Note. The	estimated win	d gust of 43	Kilots is equ	ivaicht to 47 i	прп.			
1 E (BFL)Meadows Field Ap	03 California Bakersfie		ol reported	a downed to	0 ree from thun	0 derstorm	10.00K winds on Air	0.00K port Dr. an	Thunderstorm Wind (35EG) and West China Grade loop in
T. C. 1	Note: The	e estimated win	d gust of 35	knots is equ	ivalent to 40 i	nph.			
Kern County 1 SSW Lamont	03 California	1734PST Highway Patro	ol reported fl	ooding and	0 debris on San	0 Emidio S	0.00K St. in Lamont.	0.00K	Debris Flow
Tulare County 1 E Pixley		1748PST Highway Patr Court Ave. in l		large tree b	0 ranch downed	0 I by thun	1.00K derstorm wind	0.00K I gusts in th	Thunderstorm Wind (35EG) to right lane of State Route 99
	Note: The	e estimated win	d gust of 35	knots is equ	ivalent to 40 ı	nph.			
Kern County 8 NNW McKittrick		1808PST Highway Patr rn Rd. 1NW M		downed pow	0 ver lines from	0 thunders	10.00K storm wind gu	0.00K sts across th	Thunderstorm Wind (43EG) he roadway on Lost Hills Rd.
	Note: The	e estimated win	d gust of 43	knots is equ	ivalent to 49 ı	nph.			
Kern County 1 SE Venola	03	1817PST 1917PST			0	0	50.00K	0.00K	Debris Flow
		Highway Patrorm wind gu							ar due to power poles downed
CAZ091-092	Southeas	st San Joaqu	in Valley -	Southwes	t San Joaqu	in Valle	e y		
	03	1830PST 1858PST			0	0	12.0K	0.00K	Dust Storm
Kern County 1 NNW Delano	03 California	1902PST Highway Patro	ol reported ro	oad flooding	0 and mud deb	0 ris near C	0.00K Cecil Ave. and	0.00K State Route	Debris Flow 99 in Delano.
CAZ092	Southeas	st San Joaqu	in Valley						
	Mountains the Frazie	s during the lat r Park and Pine	e afternoon o Mountain C	of Septembe Club areas. T	r 3. These thu	ınderstorı orms spre	ms produced head northward	eavy rain w through the	Dust Storm storms over the Kern County which caused flash flooding in s San Joaquin Valley along an nich reduced visibility to near

		Time Local/	/ Length Wi		Numb Persor	Estima Dama		September 2017		
ocation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
CALIFORNIA, South Centi	ral									
Kern County Inyokern	09 Nine tree	1415PST es were reporte	d blown dowr	ı in Inyoker	0 n from a thur	0 nderstorm (10.00K downburst.	0.00K	Thunderstorm Wind (52EG)	
	Note: T	he estimated w	ind gust of 52	knots is equ	uivalent to 60) mph.				
Kern County 6 SW Ridgecrest	09	1500PST 1613PST			0	0	0.00K	0.00K	Flash Flood	
		ia Highway Pa n. South Brow				Brown Rd	between Wik	nich Rd. a	nd U.S. Highway 395 south of	
Kern County 1 E Garlock	09	1619PST 1717PST	ii Ru. was ere	sed due to	0	0	0.00K	0.00K	Flash Flood	
	C-1:f		41 d	-1£ D						
	flash flo	oding and debr	ris on the road	1.		Ü			and U.S. Highway 395 due to	
		f upper low dri d thunderstorm							of sub-tropical moisture which ember 9.	
Tulare County 2 SSW Camp Nelson	11 A Weath	1530PST ner Service fore	caster providi	ing onsite su	0 apport at the	0 Pier Fire re	0.00K eported penny	0.00K sized hail a	Hail (0.88) at Pierpoint Springs.	
Kings County										
1 NE Corcoran	11 Public re	1628PST eport of nickel s	sized hail in C	Corcoran.	0	0	0.00K	0.00K	Hail (0.88)	
Kings County 1 NE Corcoran	11 Public re	1628PST	an of Thunder	rstorm wind					Thunderstorm Wind (61EG) veral trees. Beams from a wood	
	Note: T	he estimated w	ind gust of 61	knots is ear	uivalent to 70) mph				
Kings County 2 SSW Hanford Blair Arpt	11	1642PST	-	·	0	0	100.00K n extensive roo		Thunderstorm Wind (52EG) from thunderstorm winds.	
	Note: T	he estimated w	ind gust of 52	knots is equ	uivalent to 60) mph.				
Tulare County 1 SSE Tipton	11 Californ intercha		atrol reported	d several tr	0 ees down or	0 n northbou	10.00K and State Rou	0.00 K te 99 just	Thunderstorm Wind (43EG) south of the State Route 190	
	Note: T	he estimated w	ind gust of 43	knots is equ	uivalent to 49	mph.				
Kings County 1 SE Armona	11 Californ	1652PST ia Highway Pat	trol reported to	ree debris o	0 n State Route	0 198 near	1.00K Hanford-Armo	0.00K ona Rd.	Thunderstorm Wind (43EG)	
	Note: T	he estimated w	ind gust of 43	knots is equ	uivalent to 49	mph.				
Kings County 1 S Hanford	11 Californ	1653PST ia Highway Pat	rol reported a	fence blew	0 onto State R	0 oute 198 n	10.00K near 11th Ave i	0.00K n Hanford.	Thunderstorm Wind (43EG)	
	Note: T	he estimated w	ind gust of 43	knots is equ	uivalent to 49	mph.				
Kings County 2 SSE Armona	11 Californ	1655PST	rol reported a	tree fell on	0 to a vehicle r	0 near the int	10.00K	0.00K	Thunderstorm Wind (43EG) d Houston Ave. near Hanford.	
	Camon	ia iligiiway i at	ioi reported a	dec len on	to a venicie i	icai the int	ersection of 13	tii zive. uii	a frousion rive. hear framora.	

		Time Local/	Path Length	Path Width	Nur Pers	nber of	Estima Damas		September 201		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
CALIFORNIA, South Cent	ral										
Kings County 2 S Hanford Blair Arpt	11 Californ	1658PST ia Highway Patr	ol reported 8	s telephone p	0 poles were	0 downed on .	8.00K Jackson Ave. no	0.00K ear 9th Ave	Thunderstorm Wind (52EG) south of Hanford.		
	Note: T	he estimated wir	nd gust of 52	knots is equ	uivalent to	60 mph.					
Kings County Short Acres	11 Report r Dr.	1700PST received on socia	al media of	damage to o	0 outdoor fur	0 niture in Ha	1.00K nford near the	0.00K intersection	Thunderstorm Wind (43EG) of Peralta Way and Monroe		
	Note: T	he estimated wir	nd gust of 43	knots is equ	uivalent to	49 mph.					
Fresno County 8 W Caruthers	11 Broadca	1723PST st Media report o	of a chicken	barn blown	0 down by th	0 nunderstorm	50.00K downburst out	0.00K flow winds.	Thunderstorm Wind (61EG)		
	Note: T	he estimated wir	nd gust of 61	knots is equ	uivalent to	70 mph.					
Fresno County 3 NE Kerman Bland Arpt	11 Californ City.	1733PST ia Highway Pati	rol reported	power lines	0 downed b	0 y thundersto	10.00K orm winds on V	0.00K Vest Manni	Thunderstorm Wind (43EG) ng Ave. to the west of Raisin		
	Note: T	he estimated wir	nd gust of 43	knots is equ	uivalent to	49 mph.					
Fresno County 1 ESE Camden	11 Californ	1747PST ia Highway Patr	ol reported a	downed po	0 wer line an	0 ad a downed	10.00K tree on East St.	0.00K at the inter	Thunderstorm Wind (43EG) resection of Wood Ave.		
	Note: T	he estimated wir	nd gust of 43	knots is equ	uivalent to	49 mph.					
Fresno County 1 N Mendota	11	1800PST osted video shov		•	0	0	30.00K microburst.	0.00K	Thunderstorm Wind (61EG)		
	Note: T	he estimated wir	nd gust of 61	knots is equ	uivalent to	70 mph.					
Fresno County 5 WSW Firebaugh	11	1815PST RS station 5WSV			0	0	0.00K a thunderstorm	0.00K	Thunderstorm Wind (51MG)		
	Note: T	he measured wir	nd gust of 51	knots is equ	uivalent to	59 mph.					
Fresno County 4 SW Raisin City	11 Californ	1820PST ia Highway Patr	ol reported p	oower lines i	0 in the road	0 on Westlaw	10.00K n Ave. near the	0.00K intersection	Thunderstorm Wind (43EG) n of Nebraska Ave.		
	Note: T	he estimated wir	nd gust of 43	knots is equ	uivalent to	49 mph.					
Fresno County 5 SW Firebaugh Arpt	11	1844PST iia Highway Pat		•	0	0	10.00K vay on West Je	0.00K errold Ave.	Thunderstorm Wind (43EG) near West Bullard Ave near		
	Note: T	he estimated wir	nd gust of 43	knots is equ	uivalent to	49 mph.					
Kings County 1 E Short Acres	11 A report	1900PST of lightning stri	king a house	near Hanfo	0 ord High Sc	0 hool was rep	10.00K ported on social	0.00K l media.	Lightning		
Kings County 2 W Hardwick	11 Californ Hardwic		ol reported l	arge tree lim	0 nbs on the 1	0 oad on Map	10.00K le Ave. betwee	0.00K n Excelsior	Thunderstorm Wind (43EG) Blvd. and Lewiston Ave near		
	northwa	rd into central C	California. S	ome deep tr	opical moi	sture associ	ated with a fair	rly strong u	ued to pull tropical moisture apper level shortwave pushed g the afternoon and evening.		

quarter inch and a half inch of rain. Note: The estimated wind gust of 43 knots is equivalent to 49 mph.

Numerous reports of downburst winds exceeding 60 mph were reported and the impacts form these thunderstorms included downed power lines, damage to roofs; and large objects being knocked over and damaged. Rainfall amounts were generally a quarter of an inch or less with a few locations in the Southern Sierra Nevada and Tehachapi Mountains receiving between a

		Time	Path	Path					September 2017				
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm				
CALIFORNIA, South Cent	ral												
Tuolumne County 4 SE Tuolumne Meadows	A Yosemite National Park employee reported a rock slide over Park Road near Hetch Hetchy. A Yosemite National Park employee reported a rock slide over Park Road near Hetch Hetchy. Kern County (BFL)Meadows Field Ap 13	Debris Flow											
	A Yoser	nite National Pa	rk employee	reported a 1	ock slide	over Park Roa	d near Hetch	Hetchy.					
Kern County (BFL)Meadows Field Ap	13				0	0	0.00K	0.00K	Heavy Rain				
		The ASOS at Meadows Field in Bakersfield measured half an inch of rainfall between 2143 PST and 2254 PST on September 13. The rain produced localized street flooding and set a new daily record for September 13.											
	Californ thunders depth wh	ia on Septemb storms to develonile flash flooding	er 13 and proper your op over Yos ng was repor	oduced end emite Natio ted in Hetch	ough insta nal Park. Hetchy.	bility over ce One cell prod Meanwhile, ar	entral Califorduced pea size	rnia during zed hail wh	the late afternoon for strong ich accumulated to an inch in				
CAZ095	Kern C	County Mount	tains										
	18	2327PST			0	0	0.00K	0.00K	High Wind				
CAZ095-098-099	Indian	Wells Valley	- Kern Co	unty Mou	ntains - S	Southeast K	ern County	Desert					
(BFL)Meadows Field Ap CAZ095 CAZ095-098-099 CAZ095 Mariposa County	19				0	0	0.00K	0.00K	High Wind				
CAZ095	Kern C	County Mount	tains										
	20	2127PST			0	0	0.00K	0.00K	High Wind				
	21	0132PST			0	0	0.00K	0.00K	High Wind				
	21				0	0	0.00K	0.00K	Debris Flow				
						ark reported a	rock slide at	Dog Rock	that closed State Route 140 2				
CAZ097-098	Indian	Wells Valley	- Tulare C	ounty Mo	untains								
	21				0	0	0.00K	0.00K	High Wind				
	widespro area aga	ead precipitation in on the evening	n, increased ng of Septen	winds and not not and notes and	nuch coole continued	er than normal through the a	temperature fternoon of S	s to the area September 2					

A cold and moist upper low which originated in the Gulf of Alaska pushed into California on September 21 bringing widespread precipitation, increased winds and much cooler than normal temperatures to the area. Winds picked up across the area again on the evening of September 20 and continued through the afternoon of September 21 with the strongest observed gusts being observed at the indicator ridge top sites in the Kern County Mountains. In addition, widespread precipitation impacted to area on the 21st with several locations in the San Joaquin Valley measuring a few tenths of an inch of rainfall while several locations in the Southern Sierra Nevada from Yosemite Park southward to Fresno County picked up between an inch and an inch and a half of liquid precipitation. The precipitation fell as snow above 11000 feet during the early morning hours of the 21st. the snow level lowered to around 7000 feet in Yosemite Park by late morning. Tuolumne Meadows measures three inches of new snowfall while State Route 120 through Tioga Pass was shut down due to accumulating snow.

		Time Local/		Path Path Length Width		mber of	Estima		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Dama; Property	Crops	Character of Storm
CALIFORNIA, Southeast									
Inyo County 1 E (BIH)Bishop Arpt	03 Note: The	1423PST measured wind	gust of 50 k	enots is equ	0 iivalent to	0 58 mph.	0.00K	0.00K	Thunderstorm Wind (50MG)
San Bernardino County									
1 E Yucca Vly Arpt	03	1452PST 1630PST			0	0	10.00K	0.00K	Flash Flood
		washed out jus noisture pushing			-	round of thun	derstorms to	the Mojave	Desert and Owens Valley.
San Bernardino County 9 ESE Bush	07	1531PST 1730PST			0	0	2.00K	0.00K	Flash Flood
	Highway 62	2 was flooded a	nd impassat	ole at mile	marker 62				
San Bernardino County 1 ENE (NXP)Mcaf Twentynine		1426PST 1800PST	•		0	0	65.00K	0.00K	Flash Flood
	A large am		nd debris cr	ossed High					e other vehicles became stuck.
									177 for three days for repairs.
Inyo County 4 WNW Tecopa	08	1536PST 1700PST			0	0	1.00K	0.00K	Flash Flood
	Highway 12	27 was flooded	at Old Span	ish Trail.					
San Bernardino County 4 SE Desert City	08	1706PST 2000PST			0	0	20.00K	0.00K	Flash Flood
		nd was closed a booded washes.							nately 12 vehicles were stuck a.
San Bernardino County 2 WNW Vidal Jct Arpt	08	1953PST 2130PST			0	0	2.00K	0.00K	Flash Flood
	Highway 9	5 was closed du	e to floodin	g and debri	is in the ro	oad.			
San Bernardino County 2 W Hayden Station 2 ESE Kelso	09	1337PST 1530PST			0	0	1.00K	0.00K	Flash Flood
2 202 1100	Kelso Cima	Road was clos	sed from Mo	orning Star					1 11001
	A strong pu		moisture pl	us low pres	ssure mov	ing in from the	e west trigger		reak of thunderstorms over the
Inyo County 2 SW Park Vlg	11	1630PST 1640PST			0	0	50.00K	0.00K	Thunderstorm Wind (87EG)
	Thundersto	rm winds blew	the roof off	one buildii	ng, damag	ed five other re	oofs, and blev	w windows	out of four vehicles.

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An upper level low pressure system lingered near the California coast, helping to force isolated thunderstorms over the Mojave Desert. A couple of storms produced severe weather. Note: The estimated wind gust of 87 knots is equivalent to 100 mph.

		Time Local/	Path Length	Path Width	Nur Pers	nber of	Estim Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
CALIFORNIA, Southwest									
CAZ043-048-050- 554		e County Inla ego County V		Bernardin	County	Valley/Th	e Inland Ei	npire - S	an Diego County Coasts -
	01	1100PST 1600PST			0	0	0.00K	0.00K	Excessive Heat
	02	1100PST 1600PST			0	0	0.00K	0.00K	Excessive Heat
CAZ048-050	San Be	rnardino Cou	inty Valley	/The Inlar	ıd Empir	e - San Die	ego County	Valleys	
	02	1100PST 1600PST			0	0	0.00K	0.00K	Excessive Heat
	during t Septemb	he end of Augu	ust and early Unified Scho	September ol District of	r. The hot closed mor	test tempera e than 70 scl	tures west of nools early on	the mount the 1st du	ught a heat wave to the region trains occurred on the 1st-3rd te to the excessive heat. A flex Brd.
Riverside County 2 SSW Thousand Palms	07	1550PST 1620PST			0	0	10.00K	0.00K	Thunderstorm Wind (52EG)
	irrigatio	n system was al	so damaged.				ldren's Discov	very Museu	um in Rancho Mirage, CA, the
	Note: T	he estimated wi	nd gust of 52	knots is equ	iivalent to	60 mph.			
Riverside County Palm Desert	07 A lightn	1600PST ing strike struck	a palm tree,	catching the	0 e tree and a	0 residence or	10.00K n fire.	0.00K	Lightning
San Diego County 2 SE Ocotillo Wells	07	1700PST 1900PST			0	0	5.00K	0.00K	Flash Flood
	A atota		etad water ve	to 6 foot d					Salt Wash and Cutagrass Trail

A state park ranger reported water up to 6 feet deep and 100 yards wide near the intersection of Salt Wash and Cutacross Trail. An additional photo from twitter showed minor road damage at Highway 78 and Fault Wash near Ocotillo Wells.



A picture of angry flood waters that surged through Fault Wash in San Diego County, California on September 7th, 2017. Photo courtesy of Kent Miller.

		Time Local/	ocal/ Length Widt			mber of	Estimated Damage		September 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
CALIFORNIA, Southwest										
San Diego County 6 NNE Desert Lodge	07	1815PST 1845PST			0	0	15.00K	0.00K	Flash Flood	
	Flash flo	ooding washed o	out the should	ler of the S2	2 (Borreg	o Salton Seaw	ay) near Borre	ego Spring	s.	
Riverside County (TRM)Thermal Arpt	08	1715PST 1800PST			0	0	5.00K	0.00K	Thunderstorm Wind (54MG)	
	Multiple		d a fence we						at between 1740 and 1746 PST. tial for additional severe gusts	
	Note: T	he measured wi	nd gust of 54	knots is eq	uivalent to	62 mph.				
San Diego County 2 E Ocotillo Wells	08	1730PST 1800PST			0	0			Thunderstorm Wind (52EG)	
	A state j	park ranger repo	rted strong o	utflow wind	s from a tl	hunderstorm w	vith estimate p	eak gusts	of 60 mph.	
	Note: T	he estimated wi	nd gust of 52	knots is equ	uivalent to	60 mph.				
San Diego County 37 NNE Warner Spgs	09 A lightn	0600PST ing strike knock	ted out power	r to 1000 cu	0 stomers in	0 Palm Springs	5.00K	0.00K	Lightning	
San Diego County 9 NNW Borrego Spgs	09	1500PST 1630PST			0	0	0.00K	0.00K	Flash Flood	
		of water and debit of water and debi							500 PST, by 1515 PST several	
Riverside County 1 ESE Palm Spgs	09	1545PST 1615PST			0	0	15.00K	0.00K	Thunderstorm Wind (48MG)	
	_	downburst winds en stronger else					~		ernational Airport. Winds may ges.	
	Note: T	he measured wi	nd gust of 48	knots is eq	uivalent to	55 mph.				
Riverside County										
3 S (PSP)Palm Spgs Arpt	09	1600PST 1800PST			0	0	400.00K	0.00K	Flash Flood	
		wall of water a							Multiple homes were damaged,	

Santa Monica Street was filled with debris and several residents were stranded in their homes.

Path Path Number of September 2017 Time Estimated Local/ Standard Length (Miles) Width Persons Damage (Yards) Injured Date Property Character of Storm Location

CALIFORNIA, Southwest



A picture of debris deposited by a flash flood that rumbled through Safari Mobile Home Park in Palm Springs, California on September 9th, 2017. Photo courtesy of KIMR.

Riverside County

2 WSW (PSP)Palm Spgs Arpt 09 1600PST

1800PST

100.00K 0.00K Flash Flood

Palm Springs High School suffered major flood damage for the second time in a month. A total of 31 classrooms were flooded.

Riverside County

2 S Palm Spgs 5 WSW Cathedral City 09 1615PST 1815PST

1.00M 0.00KFlash Flood

The second intense thunderstorm of the day rolled over Palm Canyon and Palm Springs producing a daily rainfall record. Intense runoff through Palm Canyon Creek and the Whitewater River resulted in a closure of Cathedral Canyon Road and a swiftwater rescue and closure at Golf Club Drive. South Araby Drive was also closed. Other sections of the city were inundated with standing water and street flooding. Numerous homes suffered flood damage, cars were water logged and streets covered in debris.

The month picked up where August left off, with an active monsoon pattern bringing periods of showers and thunderstorms to the mountains and deserts. The storms were confined to the deserts where intense isolated strong/severe thunderstorms on the 7th, 8th and 9th produced damage and impacts. Flash flooding was especially intense in Palm Springs and Cathedral City on the 9th, where structures throughout the city were flooded and roads were covered in debris. At Palm Springs High School 31 classrooms were inundated. Major flood damage also occurred at the Safari Mobile Home Park. Palm Springs set a daily record with 1.19 inches of rainfall. Many trees were toppled on September 8th when 62 mph winds occurred at Thermal Airport.

Path Path Number of September 2017 Time Estimated Local/ Standard Length (Miles) Width (Yards) Persons Killed I Damage Property Injured Date Character of Storm Location

CALIFORNIA, Southwest



A picture of crews working to remove mud and debris from South Araby Drive after flash flooding in Palm Springs, California on September 11th, 2017. Photo courtesy of Anjila Lebsock.

Santa Ana Mountains and Foothills **CAZ057**

25	1300PST				
27	2300PST	0	0	1.0M	Wildfire

The canyon fire began shortly after 1300 PST on the 25th near Highway 91 in Orange County. The fire spread rapidly due to dry fuel conditions and very low humidity, and fire fighting efforts were hindered by a transition from light Santa Ana Winds to onshore flow. This initially pushed the fire into the foothills before sending it back eastward toward Corona. By 2100 PST on the 25th the fire was estimated at 1700+ acres and was threatening residences. Winds calmed over the ensuing days and the fire was quickly contained at 2662 acres. The cause of the wildfire was determined to be a roadside flare.

CAZ043	San D	iego County Coasts					
	27	0300PST 0600PST	0	0	50.0K	0.00K	Dense Fog
	28	0200PST 0300PST	0	0	0.00K	0.00K	Dense Fog
CAZ043-552	Orang	e County Coastal - San Die	go County Coasts				
	28	0500PST 0630PST	0	0	120.0K	0.00K	Dense Fog
CAZ043-552	Orang	e County Coastal - San Die	go County Coasts				
	29	0200PST 1800PST	0	0	0.00K	0.00K	Dense Fog

In the wake of a weak trough of low pressure an upper level ridge built in over Southern California. This warming aloft compressed the marine layer along the coast. The result was night and morning dense fog over the coastal waters and within 2-4 miles of the coast, some of which lingered into the early afternoon along the beaches.

		Time	Path	Path	Nu	mber of	Estin	nated	September 2017				
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dama Property	age Crops	Character of Storm				
CALIFORNIA, Upper													
CAZ080	Wester	n Siskiyou C	ounty										
	01	0000PST											
	30	0330PST			0	0	0.00K	0.00K	Wildfire				
	fires. Al on 09/30	l were started b	y lightning, t	he earliest s	tarting on	7/25/17 at arc	ound 12:45 Pl	M PDT. As	r, Fourmile, Young, and Clear of the last report at 03:30 PST llion dollars had been spent on				
CAZ084-085	Modoc	County - No	rtheast Sis	kiyou and	Northwe	st Modoc C	Counties						
	21	0100PST 0700PST			0	0	0.00K	0.00K	Frost/Freeze				
		d significant fro g temperatures t				air mass to th	e area. This,	combined v	vith clearing skies, brought sub				
CAZ080-084-085	Modoc	County - No	rtheast Sisl	kiyou and	Northwe	st Modoc C	Counties - V	Vestern Si	skiyou County				
	22	0100PST 0700PST			0	0	0.00K	0.00K	Frost/Freeze				
		d significant fro g temperatures t			-		e area. This,	combined v	vith clearing skies, brought sub				
CAZ084-085	Modoc County - Northeast Siskiyou and Northwest Modoc Counties												
	23	0100PST 0800PST			0	0	0.00K	0.00K	Frost/Freeze				
		d significant fro g temperatures t			-		e area. This,	combined v	vith clearing skies, brought sub				
CALIFORNIA, West South	h Central												
CAZ547	Los An	gesles Count	y San Fern	ando Vall	ey								
	01 09	1400PST 1700PST			0	0	0.00K	0.00K	Wildfire				
		September, the in the city of L							94 acres, making it the largest				
Santa Barbara County 1 S Santa Barbara	03	1354PST 1400PST			0	2	0.00K	0.00K	Thunderstorm Wind (70MG)				
	80 MPF uproote	I were reported	. With such ascual Stree	strong wind t, a high vol	ls, widesp tage powe	read significa er line was kr	ant damage v nocked down	vas reporte , resulting	Thunderstorm wind gusts up to d, including many trees being in major burn injuries for one jured.				
	Note: T	he measured wi	nd gust of 70) knots is eq	uivalent to	81 mph.							
Los Angeles County 4 SW Hi Vista (PMD)Palmdale Arpt	03	1356PST 1418PST			0	0	0.00K	0.00K	Thunderstorm Wind (53MG)				
,p		hunderstorm w			across the	Antelope Va	illey. The RA	WS sensor	r at Saddleback Butte reported orm wind gusts up to 58 MPH.				

		Time	Path	Path	Number of		Estimated		September 2017
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

CALIFORNIA, West South Central

Monsoonal moisture brought severe thunderstorms and flash flooding to parts of Southern California. In the city of Santa Barbara, a thunderstorm microburst generated 80 MPH wind gusts which resulted in significant damage in the city as well as the harbor. In the Antelope Valley, severe thunderstorm wind gusts up to 61 MPH were reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph.

CALIFORNIA, Western

CAZ006-509	San Fra	ncisco - San Francisco Peninsula C	Coast								
	01	1300PST 1600PST	9	0	0.00K	0.00K	Excessive Heat				
	Weekend	upper level ridge brought widespread. Numerous daily and monthly records wided as a result of the heat. ??Unknown.	ere broken	as well as a	a few all tim	e record m	ax temperatures. Six Bay Area				
CAZ509-513-530	San Fra Sur Coa	ncisco Peninsula Coast - Santa Cla est	ara Valley	Includin	g San Jose	- Southe	rn Monterey Bay and Big				
	11	0100PST 0337PST	0	0	0.00K	0.00K	Strong Wind				
San Mateo County											
Sharp Park	11	0649PST 0654PST	0	0	0.00K	0.00K	Lightning				
	Lightning	strike caused damage to a residence on T	Γablot Ave i	n Pacifica.							
Santa Cruz County											
5 N Watsonville	11	1526PST 1531PST	0	0	0.00K	0.00K	Hail (0.25)				
		(4.1)									
	Pea sized	Pea sized hail reported by spotter near Watsonville.									
San Mateo County 1 WNW Half Moon Bay Arpt	11 1700PST										
1 WNW Hall Moon Bay Arpt	11	1700PST 1705PST	0	0	0.00K	0.00K	Lightning				
	News rep damage a	ort from KRON showed lightning struct home.	k a tree in S	an Mateo	County on P	earl Ave c	ausing a tree to crash into and				
CAZ512	Santa C	ruz Mountains									
	11	1730PST									
		2230PST	0	0	0.00K	0.00K	Wildfire				
San Francisco County											
1 WNW San Francisco	11	1736PST									
		1741PST	0	0	0.00K	0.00K	Lightning				
	Trained s	potter reported lightning.									
San Mateo County											
1 NW Daly City	11	1746PST 1756PST	0	0	0.00K	0.00K	Hail (0.25)				
	Social media post on twitter from the public reports small hail as well as lightning near San Francisco.										
San Mateo County											
1 NE Daly City	11	1746PST									
		1748PST	0	0	0.00K	0.00K	Lightning				
	G : 1	1'	11.1 '1	11 1		c F	•				

Social media post on twitter from the public reports small hail as well as lightning near San Francisco.

		Time Local/	Path Length	Path Width		mber of sons	Estim Dama		September 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
CALIFORNIA, Western										
CAZ512-517	Santa C	Cruz Mounta	ins - Santa	Lucia Mo	untains a	and Los Pac	dres Nation	al Forest		
	11	1800PST 2230PST			0	0	0.00K	0.00K	Wildfire	
		2200101			Ü	v	0.0011	0.0011	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
San Francisco County 3 NE San Francisco	11	2018PST								
5 NE San Francisco	11	2018PST 2048PST			0	0	0.00K	0.00K	Flood	
	Roadway	flooding at 45	55 8th St.							
San Francisco County										
8 SSE Ocean View	11	2030PST			0	0	0.001/	0.0017	T 1 1 4 1	
		2032PST			0	0	0.00K	0.00K	Lightning	
									Francisco International Airport lay-12191284.php.	
									n activity to the Bay Area on ts and strong wind gusts. It has	
	been rep		e were over 4	40,000 light	ning strike				rnia during this event. Several	
	orașii în	es were arso re	sinted due to	inginiming st	incs.					
COLORADO, Central and N	Northeast	1								
Weld County 2 N Firestone	15	2145MST			0	0	0.00K	0.00K	Hail (0.75)	
2 IV Pirestone		thunderstorm p	produced dim	e size hail n	-		0.001	0.00K	Hair (0.73)	
Arapahoe County										
4 W Peoria	17 Strong w	1548MST inds gusts snap	oped small tre	e branches.	0	0			Thunderstorm Wind (50EG)	
	A strong	dust devil de	veloped brie	fly on the l			ont. Minor	tree dama	age was observed. Note: The	
	estimate	d wind gust of	I 50 Knots is	equivalent	to 58 mp.	п.				
COLORADO, East Central										
Kit Carson County										
7 N Peconic	14 Mostly p	1700MST ea to dime size	hail fell. The	ere were a fe	0 ew quarter	0 size hail ston	0.00K	0.00K	Hail (1.00)	
					•					
	A thunde	rstorm produce	ed nan up to c	quarter size i	iortneast o	or Burnington.				
COLORADO, South Central	l and Sou	ıtheast								
El Paso County										
2 NW Falcon	09	1345MST 1349MST	0.28	50	0	0	0.00K	0.00K	Tornado (EF0)	
	The two	brief landspout	s caused no k	nown dama	ge from wl	hich the NWS	S could assign	ı an EF-sca	le rating.	
		1					C		Č	
	A bound	ary served as th	ne catalyst for	two closely	spaced lai	ndspouts to d	evelop northy	vest of Falc	con.	
Las Animas County										
5 SE Ville Green	17	1451MST 1456MST			0	0	0.00K	0.00K	Hail (1.50)	
	A severe storm produced hail up to ping pong ball size.									
Otomo Cometer	11 50 1010	otorni produce	a nun up to p	Pong oa	5120.					
Otero County Cheraw	23	0730MST								
		0735MST			0	0	0.00K	0.00K	Hail (0.88)	
	A strong	storm produce	d hail up to th	ne size of nic	ekels.					

		Time Local/	Path Length	Path Width		nber of	Estim Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
COLORADO, South Cent	tral and So	utheast							
Bent County									
1 W Las Animas	30	1528MST							
		1533MST			0	0	0.00K	0.00K	Hail (1.75)
Bent County									
1 W Las Animas	30	1534MST							
		1539MST			0	0	0.00K	0.00K	Hail (0.75)
	A severe	e storm produced	l hail up to tl	he size of go	lfballs.				
COLORADO, West									
COZ005	Upper	Yampa River	Basin						
	01	0515MST							
		0615MST			0	0	0.00K	0.00K	Dense Fog
	ake of a dep	parting upp	er level distu	rbance allow	ed dense fo	g to form in the Upper Yampa			

A strong microburst snapped several power poles in the desert north of Grand Junction where the outflow winds were most intense. Over 5200 homes were without power for almost two hours. A pickup truck received minor damage from the downed power lines. The ASOS weather station at the Grand Junction Regional Airport measured wind gusts to 60 mph from the winds that flowed out beyond the main microburst impact area where the winds were likely stronger.

10.00K

0.00K

Thunderstorm Wind (52MG)

Showers and thunderstorms across the area produced strong outflow winds enhanced by a dry low level air mass. Note: The measured wind gust of 52 knots is equivalent to 60 mph.



A picture showing one of several power poles snapped off by a microburst in the desert just north of Grand Junction, Colorado on September 4th, 2017 that resulted in a widespread power outage. Photo courtesy of Grand Junction Daily Sentinel.

Mesa County 5 NW Mack

Mesa County

7 NW (GJT)Walker Arpt

04

1650MST 1700MST

14 1400MST 1415MST 0 0 0.00K 0.00K Thunderstorm Wind (52MG)

A peak thunderstorm wind gust of 60 mph was measured by a trained spotter near Mack.

Note: The measured wind gust of 52 knots is equivalent to 60 mph.

		Time	Path	Path		ber of	Estim		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	ge Crops	Character of Storm
COLORADO, West									
Rio Blanco County 20 ESE Rangely Arpt	14	1515MST 1535MST			0	0	0.00K	0.00K	Thunderstorm Wind (58MG)
		hunderstorm wi	nd gust of 6	7 mph was i	measured by	the Pinto R	AWS automa	ated weathe	er station between Rangely and
		sulted in some s							red thunderstorm development ust of 58 knots is equivalent to
COZ014	Upper	Gunnison Riv	er Valley						
	19	0000MST 0700MST			0	0	0.00K	0.00K	Frost/Freeze
		air mass filtered tures that dropp							ed cold front. This resulted in .
COZ003	Roan a	nd Tavaputs	Plateaus						
	21	0915MST 2300MST			0	0	0.00K	0.00K	High Wind
	Strong v surface.	vinds ahead of a	cold front v	were enhanc	ed by 110 k	not upper le	evel jetstream	winds whi	ch partially mixed down to the
COZ009-013	Flattop	Mountains -	Grand an	d Battlem	ent Mesas				
	23	0300MST 0200MST			0	0	0.00K	0.00K	Winter Weather
		ront and associa and central mor				nrough west	ern Colorado	and brough	nt high elevation snow to some
COZ002	Centra	l Yampa Rive	r Basin						
	24 25	2300MST 0730MST			0	0	0.00K	0.00K	Frost/Freeze
COZ005-008-020> 022	Anima Valley/	s River Basin Lower Dolore	- Central es River B	Colorado asin - Upp	River Bas er Yampa	in - Four (River Ba	Corners/Up sin	per Dolo	res River Basin - Paradox
	25	0000MST 0730MST			0	0	0.00K	0.00K	Frost/Freeze
		skies behind a orn Colorado.	departing cl	osed upper	low resulted	in tempera	tures that to p	lummeted	to below freezing across much
COZ019	Southv	vestern San Ju	ıan Mount	tains					
	27	1300MST 2000MST			0	0	0.00K	0.00K	Winter Weather
	A low p Mountai	•	noved over	the region a	nd produce	d significant	t snowfall at l	nigh elevati	ions in the southwest San Juan
COZ006-011-017	Centra Divide		and Uncor	npahgre l	River Bas	in - Gran	d Valley -	Uncompa	hgre Plateau and Dallas
	28	0500MST 0945MST			0	0	0.00K	0.00K	Dense Fog
		of low pressure			n and also d	ropped temp	peratures resu	lted in areas	s of dense fog which formed in

		Time Local/	Path Length	Path Width	Nun Pers	nber of	Estim Dama		September 2017		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
COLORADO, West											
Archuleta County 4 ENE Lonetree	30 Lightning	1140MST struck the Oak	c Brush comr	nunications	0 site and da	0 maged law e	20.00K nforcement co	0.00K ommunicat	Lightning ions equipment.		
		thunderstorm n property dar		County pro	oduced a n	umber of clo	oud-to-ground	l lightning	strikes, with at least one that		
COZ010	Gore and	d Elk Moun	tains/Centr	al Mounta	ain Valley	ys					
	30	2100MST 2359MST			0	0	0.00K	0.00K	Winter Weather		
	A cold front associated with a strong and moist upper level disturbance produced significant snowfall in the somountain areas of western Colorado.										
CONNECTICUT , Northwest	:										
Litchfield County 1 SE Flanders		1604EST I a wire were re e estimated wire			0 ivalent to	0 58 mph.			Thunderstorm Wind (50EG)		
Litchfield County											
1 NNW Goshen	05 Estimated	1609EST quarter-size h	ail was repor	ted via Face	0 book.	0			Hail (1.00)		
Litchfield County 1 NE West Torrington	05 Wires wer	1618EST re reported dov	vn on Horele	Boulevard.	0	0			Thunderstorm Wind (50EG)		
	these stori		ere in northy	vestern Con					orms on September 5. A few of ted. Note: The estimated wind		
CONNECTICUT, Southern											
Fairfield County Brook Field	05 Numerous	1834EST s trees and pow	ver lines were	e reported do	0 own in Bro	0 okfield.	7.00K		Thunderstorm Wind (56EG)		
		aching cold fro quivalent to 64		an isolated s	severe thun	derstorm in	Fairfield Cour	nty. Note:	The estimated wind gust of 56		
New London County Groton		0852EST rees were repo reet, trees dow						_	Thunderstorm Wind (56EG) tree falling into a building at 1 es Street.		
	Note: The	e estimated win	nd gust of 56	knots is equ	ivalent to	64 mph.					
New London County 1 N Ridgewood									Thunderstorm Wind (56EG) ing one tree falling onto a car, lding. M65VE		
	Note: The	e estimated win	nd gust of 56	knots is equ	ivalent to	64 mph.					
New London County Ledyard Center	A passing	0901EST rees were repo cold front trig knots is equiv	gered isolate	d severe thu		0 s, which imp	5.00K acted New Lo	ondon Cour	Thunderstorm Wind (56EG) nty. Note: The estimated wind		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of sons Injured	Estim Dama Property		September 2017 Character of Storm
DELAWARE									
Sussex County 1 S Fenwick Is	safely ou A slow rainfall	ut of the vehicle moving cold fro	on their own ont produced county, Dela	n. heavy show ware. Rainf	wers with e	embedded th	understorms.	This was t	Flood but occupants were able to get he second and heaviest day or outhwest of Lewes, DE to 4.01
DEZ003-004	Delawa	re Beaches - 1	Inland Sus	sex					
	19 20	1930EST 0045EST			0	0	0.00K	0.00K	Coastal Flood
		te coastal flooding was reported in							mber 19. Widespread roadway
FLORIDA, East Central									
St. Lucie County 1 W Ft Pierce Nelson Arp 1 SW Ft Pierce Beach	10	0200EST 0400EST			0	0	30.00M	0.00K	Flash Flood
	between Weather feet of st	6 and 11 inches Underground s tanding water in Drive and near	es of rain in ite measured front of the	less than 4 1 10.46 inch Ft. Pierce Po	hours duri es. Numero olice Statio	ng the very ous roadways n on US Hig	early morning quickly flood hway 1. Wate	g hours, af ded and bed r breached	om the Atlantic and produced fecting much of Ft. Pierce. A came impassible, with nearly 4 several homes, including on El om their flooded home due to
FLZ059	St. Luc	eie							
	10 11	0600EST			0	0	25.0M	0.00K	Tropical Storm
Brevard County 1 E Melbourne Beach	second f		nes. The brie	f EF-0 torna					Tornado (EF0), causing minor damage to the nued inland and dissipated just
FLZ059	St. Luc	eie							
	10	1000EST 2000EST			0	0	0.00K	0.00K	Storm Surge/Tide
Brevard County Palm Bay	10	1000EST 1002EST	1.33	75	0	0		0.00K	Tornado (EF1)
	residenc The EF- tornado destroye	es on Worth Co 1 tornado (estim then impacted ed. The tornado	urt in Palm I nated 100 to over a doze continued w	Bay, including 110 mph) con mobile he est, just to the same and the same are to the same are to the same are to the same are to the same are the sam	ng a waterf ontinued ac omes with he north of	Front home weross US-1, coin Palm Bay Turkey Cree	those second fausing minor: Estates, sevek, damaging	floor was re roof damageral of wh many trees	onshore and damaged several emoved and carried downwind. ge to a university building. The ich were heavily damaged or s and several additional homes DOD6, LB-EXP.
Brevard County 1 NNE Indialantic 1 ENE Melbourne Vlg	10	1024EST 1026EST	1.21	75	0	0		0.00K	Tornado (EF1)

		Time	Path	Path	Nun	nber of	Estimated		September 2017
		Local/	Length	Width	Pers	ons	Dama	ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

FLORIDA, East Central

A NWS storm survey revealed that a waterspout moved onshore the barrier island in Indialantic near Highway A1A and 1st Avenue. The EF-1 tornado (winds estimated 90-100 mph) removed part of the roof of a beachfront condo and carried it across the highway, where it landed on a bank. The tornado then weakened as it traveled west-northwest, producing damage to trees and roof shingles and soffits of several homes along a narrow path across the barrier island, exiting to the Indian River near Cedar Lane and West Riveria Boulevard. DI5, DOD3, LB.

FLZ064	Martir	1							
	10	1200EST 1800EST			0	0	0.00K	0.00K	Storm Surge/Tide
FLZ041-047-054- 058-064	Brevai	d - Indian River	· - Inland V	V olusia - 1	Martin -	Okeechob	oee		
	10	1400EST							
	11	0400EST			0	0	524.8M	0.00K	Tropical Storm
Brevard County 1 NNW Mims	10	1648EST							
T TATA AA TATHIIIS	10	1650EST	1.55	125	0	0		0.00K	Tornado (EF2)

Based on a NWS storm survey, a tornado developed just west of the intersection of Brockett Road and Hammock Road in Mims. The tornado snapped many trees and partially removed the roof from a mobile home on Brockett Road (strong EF-1 strength), then moved through a wooded area before reaching near the north end of Nab Street and the east end of Benson Court. A pickup truck near the corner of Benson Court and Lisa Drive rolled about 30 feet west into the fence of an adjacent yard. The tornado strengthened to EF-2 intensity with estimated wind speeds of 115 to 125 mph as it affected homes on Kilbee Street, Turnbull Road, and Brevard Road. Numerous homes were impacted and several were left uninhabitable due to severe roof damage. A number of trees were snapped and uprooted as the tornado continued west northwest across Old Dixie Highway. The tornado dissipated shortly after crossing US Highway 1 near Roosevelt Road. DI2, DOD6, EXP. DI27, DOD4,

Brevard County 2 NW Mims

10	1700EST						
	1701EST	0.48	60	0	0	0.00K	Tornado (EF1)

Based on a NWS storm survey, an EF-1 tornado, with estimated wind speeds between 90 to 95 mph, snapped and uprooted several trees as it developed near Old Dixie Highway in Mims. The tornado continued across US Highway 1 and the northern portion of the Northgate Mobile Home and RV Park, damaging over a dozen homes, several of which experienced partial roof removal. In addition, several power poles snapped in the development and one landed on a home. The tornado also rolled several unoccupied RV's onto to their sides, which were being stored in a parking lot between US Highway 1 and the mobile home park. DI28, DOD3, EXP; DI24, DOD4, LB; DI3, DOD3, EXP.

FLZ045-053	Orang	Orange - Osceola									
	10 11	1700EST 1000EST			0	0	210.0M	0.00K	Tropical Storm		
Lake County 1 NNW Turpentine	10	1728EST									
2 WNW Umatilla		1730EST	3.84	500	0	0		0.00K	Tornado (EF1)		

A NWS storm survey revealed an EF-1 tornado with estimated wind speeds between 95 and 100 mph developed near East 8th Avenue in Umatilla, uprooting and snapping several trees in an open field. The tornado moved toward a residential neighborhood between East 8th Avenue and East Collins Street and peeled back the roofs from several homes and uprooted numerous trees. Damage continued into North Lake Community Park where a scoreboard was toppled and three power poles were snapped. The tornado moved across Lake Pearl and into the Olde Mill RV resort where it destroyed approximately ten recreational vehicles and damaged at least 25 others. The tornado continued west toward downtown Umatilla and damaged the roofs of the Umatilla Inn, an elementary school, and a home on Babb Road. DI24, DOD4, LB-EXP; DI28, DOD4, LB-EXP; DI3, DOD7, LB.

		Time Local/	Path	Path Width		mber of sons	Estim Dama		September 2017
Location	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
FLORIDA, East Central									
FLZ054	Indian	River							
	10	1800EST							
		2300EST			0	0	0.00K	0.00K	Storm Surge/Tide
FLZ044-046	Lake -	Seminole							
	10	1800EST				0	550 51 5	0.00**	m
	11	1100EST			0	0	579.7M	0.00K	Tropical Storm
FLZ047	Brevar	d							
	10	1900EST				0	0.0077	0.00**	a. a. m.i.
		2300EST			0	0	0.00K	0.00K	Storm Surge/Tide
Indian River County									
1 WNW Fellsmere	10	2000EST 2115EST			0	0	50.00K	0.00K	Flash Flood
	Police re		e from flood	waters and	transporte	ed them in a h	igh-water vel	nicle to the	County Sheriffs and Fellsmere nearby Fellsmere Elementary
FLZ041	Inland	Volusia							
	10 11	2000EST 0200EST			0	0	0.00K	0.00K	Storm Surge/Tide
Brevard County									
(COF)Patrick Afb	10	2004EST 2005EST	1.23	50	0	0		0.00K	Tornado (EF1)
	across the small but of partial contained free star	ne barrier island, ilding east of Hi I loss of roof co rs within the tor	affecting Pa ghway A1A verings and nado path we d to some s	trick Air Fo , then produ broken glas ere rolled 10 mall trees a	orce Base. ced minor s in some 00+ feet do	The EF-1 torn to moderate deast and north ownwind (north	ado (estimate amage to sev facing wind hwest). Dama	ed 85 to 95 eral storagows. Sever age also oc	rnado damage as it continued mph) removed the roof from a e buildings, mainly in the form al, large steel CONEX storage curred to antennas mounted on approached the Banana River.
Volusia County									
1 NNW Ormond Beach	10	2004EST 2005EST	0.78	175	0	0		0.00K	Tornado (EF1)
	in Ormo inland a Hernand tornado commer	nd Beach, causing produced straight lez Avenue, No then downed tree	ng tree dama ong EF-1 d rth Ridgewo ees and prod	ge and mind amage (esti ood Avenue uced debris	or siding a mated 100 and Rose impact at	nd shingle dan 0 to 110 mph ewood Avenu the Ormond	nage to a few) to several h e. Several ho Beach Fire S	two story nomes and omes susta tation 93 a	evenue and North Beach Street homes. The tornado continued trees near the intersection of ined major roof damage. The and damaging the roofs of two twest of US Highway 1. DI2,
Brevard County 1 NW Bonaventure	10	2014EST 2015EST	0.3	60	0	0		0.00K	Tornado (EF1)

A NWS storm survey confirmed that a waterspout moved onshore along Rockledge Drive near River Woods Drive in Rockledge and produced EF-1 tornado damage (winds estimated 95-105 mph) along a short track. Approximately six homes sustained significant roof damage and numerous trees were snapped or uprooted. A portion of one roof was removed and at least one other home had a portion of its metal roof peeled back. Several homes adjacent to the area of most significant damage also experienced a lesser degree of shingle damage. At least one screen patio was destroyed, several others were damaged and some fences were blown over and carried downwind. DI2, DOD4, EXP; DI27, DOD4, EXP.

		Time Local/	Path Length	Path Width		mber of sons	Estim Dama		September 201	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
FLORIDA, East Central										
Brevard County 4 NE Indianola 3 ENE Sharpes	10	2048EST 2050EST	3.36	60	0	0		0.00K	Tornado (EF1)	
	subdivision dozen ho trees were roof dame EF-1 stree and many The tornat Tree dame	on, producing s mes sustained s e snapped. The age to a few hor ngth (estimated of others sustained ado then weake	trong EF-1 of ignificant slignificant sligni	damage (winingle dama tinued north nado then to to 105 mp to major da pled the ste occurred al	age and ap nwest and raveled the h) and imp mage (the eeple at the	ated 100-110 oproximately crossed East leading the sough the sou pacted over 25 neighborhoode Orsino Bap	mph) to num six pool scree Hall Road nea thern portion 5 mobile hom d was nearly tist Church, a	erous home en enclosur ar Leilani L of the Islan es. Several completed of after crossin	southeast of The Savannahs es on Savannahs Trail. Over a res were destroyed. Numerous ane, producing tree and minor d Lakes Mobile Home Park at mobile homes were destroyed evacuated for Hurricane Irma). ng North Courtney Boulevard. iver was reached. DI2, DOD4,	
Brevard County										
1 WSW Scottsmoor 2 NW Lake Poinsett	10 11	2100EST 0200EST			0	0	0.00K	0.00K	Flood	
	poor drai reached c	nage flooding.	Numerous ro lowed. See t	oadways we the separate	ere impacto	ed by signific	ant levels of	standing w	esulting in areas of urban and ater and many retention ponds h impacted portions of Port St.	
Indian River County										
Sebastian 7 WSW Blue Cypress Lake	10 11	2100EST 0200EST			0	0	0.00K	0.00K	Flood	
	poor drain levels of	nage flooding, e	specially act	ross the sou retention p	thern port	ion of the cou hed capacity	inty. Numero	us roadway	esulting in areas of urban and s were impacted by significant e separate entry for the more	
Lake County										
5 W Lady Lake 1 WSW Altoona	10 11	2100EST 0200EST			0	0	0.00K	0.00K	Flood	
	poor drai		Numerous ro						esulting in areas of urban and ater and many retention ponds	
Okeechobee County										
11 NW Ft Drum 2 NNE Basinger	10 11	2100EST 0200EST			0	0	0.00K	0.00K	Flood	
	poor drai reached o	inage flooding.	Many road flowed. Th	ways were	impacted	by significan	nt levels of st	anding wa	esulting in areas of urban and ter and many retention ponds er the northeast portion of the	
Orange County										
3 WSW Walt Disney World 14 ESE Wewahatee	10 11	2100EST 0400EST			0	0	0.00K	0.00K	Flood	
	poor drai reached o	nage flooding. I capacity or over	Numerous ro	oadways we highest ra	ere impacto in totals o	ed by signific ccurred over	ant levels of the northern	standing wa portion of	esulting in areas of urban and atter and many retention ponds the county, however the most	

Rainbands associated with Hurricane Irma produced rainfall totals between 7 and 18 inches, resulting in areas of urban and poor drainage flooding. Numerous roadways were impacted by significant levels of standing water and many retention ponds reached capacity or overflowed. The highest rain totals occurred over the northern portion of the county, however the most significant impacts occurred within Orlo Vista. Heavy rain and associated run-off caused Lake Venus and two adjacent retention ponds to gradually overflow, flooding several hundred homes within the surrounding community. Over 200 residents were rescued by National Guard and Orange County Fire Rescue personnel as rising water began to enter their homes during the early morning hours of September 11. Two-to-three feet of water reportedly breached some homes adjacent to the lake and ponds. This area in a 10-year floodplain.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Perso Killed		Estima Dama; Property		September 2017 Character of Storm
FLORIDA, East Central									
Osceola County 13 WSW Yeehaw Jct 9 WNW Shingle Creek	10 11	2100EST 0200EST			0	0	0.00K	0.00K	Flood
	poor drain		umerous roa						esulting in areas of urban and ater and many retention ponds
St. Lucie County Ft Pierce Nelson Arp	10 11	2100EST 0200EST			0	0	0.00K	0.00K	Flood
	poor drain reached ca	age flooding. N	Many roadw owed. More	ays were i	mpacted by	y significant	levels of sta	anding wat	esulting in areas of urban and eer and many retention ponds ne county, including Ft. Pierce
Seminole County									
Sanford 1 NNW Osceola Park	10 11	2100EST 0200EST			0	0	0.00K	0.00K	Flood
	poor drain	age flooding. N	umerous roa	ıdways wei	re impacted	by significa	nt levels of s	tanding wa	esulting in areas of urban and atter and many retention ponds , Casselberry, Longwood and
Volusia County Seville 2 W Deltona	10 11	2100EST 0200EST			0	0	0.00K	0.00K	Flood
	poor drain		Many roadw	ays were i	mpacted by	y significant	levels of sta	anding wat	esulting in areas of urban and er and many retention ponds

Brevard County

3 SSW (TIX)Space Cntr Exec 10 2130EST **3 SSW Cocoa West** 2245EST

Flash flooding affected many locations within central and north Brevard County due to 8-12 inches of rain with isolated totals up to 15 inches which occurred in 12-18 hours. Heavy rain which fell during the morning and afternoon set the stage for flash flooding during the evening when several additional inches of rain occurred. US Highway 1 at Fay Boulevard in Port St. John became impassable, as did portions of North Courtney Parkway near the 3100 block, and at/on Hall Road, West Cristafulli Road, Horseshoe Bend and Lucas Road in north Merritt Island. South Courtney Parkway at Cone Road also became impassible and water was reported up to mailboxes in Rockledge. Many areas experienced standing water at/above 3 feet above ground

100.00K 0.00K

Flash Flood

level and water approached or entered several homes.

Hurricane Irma moved northward over the far western Florida peninsula between the afternoon of September 10 and the morning of September 11 at Category 1-2 strength. During the closest point of approach to east-central Florida during the early morning hours of September 11, rain bands associated with the inner core elongated west-to-east and lifted through northwest Osceola County, Lake County and western Orange County. Due to the large size of the wind field, a long duration of damaging tropical storm force winds with gusts to hurricane force was experienced across all of east-central Florida. There were no direct hurricane-related fatalities, however 10 indirect fatalities occurred during the evacuation and recovery phases of the hurricane. Preliminary damage estimates across east central Florida exceeded \$1.3 billion.

A storm surge of 2-3 feet affected the coast of Martin, St. Lucie and Indian River Counties, and 3-4 feet of storm surge impacted the coast of Brevard and Volusia Counties. Moderate to major beach erosion occurred along the entire east-central Florida coastline. Water levels rose within the coastal lagoon system generally rose between 1 and 3 feet (although locally up to 4.5 feet within a few constricted areas of the lagoon, primarily within north Brevard and Volusia Counties) due to coastal surge and run-off from heavy rain and slow drainage to the Atlantic through the inlets. River flooding caused to enter some homes adjacent to the Halifax River, primarily in Ormond Beach, Holly Hill and north Daytona Beach. Many docks and boat houses along the Indian, Banana and Halifax Rivers were damaged from the combination of high water and wave action.

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location

FLORIDA, East Central

Rainfall totals of 10-15 inches were widespread across east-central Florida. The highest totals occurred in a swath from northern St. Lucie County to far southern Indian River County, where accumulations reached 15 to nearly 22 inches. A significant portion of this rain fell during the early morning hours of September 10 as excessive rain bands trained onshore ahead of the main rain area associated with Hurricane Irma. Flooding entered several homes and many roadways became impassible. Hurricane rain bands also resulted in flooding of homes and roadways in many other areas later on September 10, including Fellsmere (Indian River County) where a dozen people were rescued from flood waters and north Merritt Island (Brevard County) where water approached or entered several homes. During the early morning hours of September 11, flooding breached several hundred homes and resulted in the rescue of 200 residents in Orlo Vista (Orange County) when a lake and adiacent retention ponds overflowed.

Widespread heavy rain fell within the St. Johns River basin and caused the entire river (from Cocoa in Brevard County to Astor in Lake County) to reach flood stage. The Astor area was the first to reach flood stage during the afternoon of September 10, then Cocoa very early on September 11 and Lake Harney that evening, Deland very early on September 12 and Sanford very late on September 14. All points along the river eventually reached moderate to major flood stage, impacting adjacent homes, structures, property and roadways. The river remained in flood for well over one month.

Ten tornadoes were confirmed, including eight within Brevard County (one EF-0, six EF-1, and one EF-2), one in Volusia County (EF-1) and one in Lake County (EF-1). Additional tornadoes likely occurred, however it was impossible to distinguish weak, short track tornado damage from the overall widespread, background wind damage of similar velocities.

Indian River County 1 SSE Cummings

29 1902EST 0 0 0.50K 0.00K Thunderstorm Wind (52EG) A cluster of thunderstorms moved onshore from the Atlantic and spread inland, affecting the town of Sebastian. On Gilbert Street, some homes lost shingles and a fence was blown town. Nearby on Canal Circle, a home experienced minor roof damage and several surrounding homes lost some shingles.

A cluster of thunderstorms which moved onshore and affected northeast Indian River County produced isolated wind damage to a few homes in the town of Sebastian. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

FLORIDA, Extreme Southern

FLZ076>078	Monroe/Lower Keys - Monroe/Middle Keys - Monroe/Upper Keys
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FLZ076-078 Monroe/Lower Keys - Monroe/Upper Keys

09 2100EST 11 1600EST 0 0 0.00K Storm Surge/Tide

FLZ077 Monroe/Middle Keys

10 0000EST 2 0 0.00K Storm Surge/Tide

11

Hurricane Irma made landfall over the Lower Florida Keys as a category 4 hurricane on the Saffir-Simpson Hurricane Wind Scale, with the eye crossing directly over Cudjoe Key. Due to the large radius of hurricane-force winds, destructive hurricaneforce winds and storm surge impacts all of the Florida Keys. Extensive damage to residences, businesses, electric, water and communications utilities resulted. The eye of Hurricane Irma moved ashore in the Lower Florida Keys over Cudjoe Key at 9:10 am EDT Sunday, September 10, with a minimum central pressure of 929 mb and maximum sustained winds near 115 knots (130 mph). The highest sustained winds in the Lower Florida Keys were measured at 61 knots (70 mph) at the Key West Harbor, with a peak measured gusts at 120 mph at the Key Deer National Wildlife Refuge and a private residence on Big Pine Key. Storm survey evidence estimated the highest 3-second wind gusts on Big Pine Key and Scout Key, at 150 to 160 mph. Maximum storm surge in the Lower Florida Keys was measured at 5 to 8 feet from Sugarloaf Key through Duck Keys, with total water height reaching a maximum of 5 to 6 feet above ground level in eastern Big Pine Key, and wave wash marks up to 20 feet above mean high water along Long Beach Road on the south side of Big Pine Key. Rainfall totals of 6 to 12 inches were measured at available rain gauges, with a maximum of 12.54 inches at the Key Deer Wildlife Refuge on Big Pine Key. A total of 10 fatalities were attributed in the Florida Keys attributed to Irma, 4 directly related to hurricane impacts. More than 40 direct injuries were officially totaled across the entire Florida Keys. More than 1300 vessels were damaged or destroyed, requiring removal from the coastal waters. Additional information on number of residences and businesses damaged or destroyed is pending. Financial damage estimates are also pending as costs related to business loss and community recovery are continuing to accrue. M?OT

Location	Data	Time Local/	Path Length	Path Width	Numbe Person	S	Estin Dama	age	September 2	.017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	_
FLORIDA, Northeastern Alachua County										
Archer	Storm D						1.00K damage was	0.00K estimated	Thunderstorm Wind (45EG for the event to be included in	
Duval County				1		1				
Cedar Hills	01 A home	1244EST was struck by li	ghtning. No f	ire observe	0 d at time of re	0 eport. Cos	0.50K of damage u	0.00K nknown bu	Lightning t estimated for Storm Data.	
Duval County 1 W Duval	01 Several t	1310EST rees were blown	n down near tl	he UF Heal	0 th Center. Th	0 te time of o	0.00K lamage was b	0.00K ased on rac	Thunderstorm Wind (50EG lar.)
	Note: Th	ne estimated wir	nd gust of 50	knots is equ	uivalent to 58	mph.				
Duval County 1 ESE Cosmo	01 Penny si	1312EST ze hail was obse	rved.		0	0	0.00K	0.00K	Hail (0.75)	
Duval County 1 W Duval	01 Power lii	1316EST nes were blown	down on Woo	odland Driv	0 ve. The time o	0 of damage	0.00K was based on	0.00K radar.	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50	knots is equ	uivalent to 58	mph.				
Duval County 1 N Duval	01 Power lin	1316EST nes were blown	down near Ca	astleberry F	0 Road and Holl	0 lings Stree	0.00K t. The time of	0.00K damage w	Thunderstorm Wind (50EG as based on radar.)
	Note: Th	ne estimated wir	nd gust of 50	knots is equ	uivalent to 58	mph.				
Duval County 1 W Dunn Creek	01 Power li	1320EST nes were blown	down on Dun	nn Creek Ro	0 oad. The time	0 of damag	0.00K e was based o	0.00K on radar.	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50	knots is equ	uivalent to 58	mph.				
Duval County 1 N Duval	01 An off-d	1320EST uty NWS emplo ne estimated wir	yee estimated	d wind gust	0 s of 60 mph.	0	0.00K	0.00K	Thunderstorm Wind (52EG)
Marion County										
1 N Ocala	01 Power lii	1400EST nes were blown	down at the in	ntersection	0 of NE 9th Str	0 reet and N	0.00K E 8th Avenue	0.00K The time	Thunderstorm Wind (50EG of damage was based on radar.	
	Note: Th	ne estimated wir	nd gust of 50	knots is equ	uivalent to 58	mph.				
Marion County 2 NW Montague	radar.						0.00K d SE 25th Av	0.00K venue. The	Thunderstorm Wind (50EG time of damage was based or	
a	Note: Th	ne estimated wir	nd gust of 50	knots is equ	uivalent to 58	mph.				
St. Johns County 2 SSE Moultrie	-	1421EST line was blown ne estimated win		-	0 nivalent to 58	0 mph.	0.00K	0.00K	Thunderstorm Wind (50EG)
St. Johns County 2 N St Augustine Beach		1435EST ire was observe d for use in Sto		Road and	0 Lee Drive d	0 ue to a liş	0.50K ghtning strike	0.00K e. The cost	Lightning of damage was unknown bu	t
Putnam County										
2 E Georgetown		1512EST amaged trees alone estimated wir	•		0 aivalent to 58	0 mph.	0.00K	0.00K	Thunderstorm Wind (50EG)

		Time			Numb		Estim		September 2017	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Persor Killed	ns Injured	Dama Property	ge Crops	Character of Storm	
FLORIDA, Northeastern										
Flagler County Flagler Beach	01 An obser	1630EST ver measured 1	.96 inches of	rainfall in 9	0 90 minutes.	0	0.00K	0.00K	Heavy Rain	
Nassau County 2 SE Hedges	The time	2215EST re blown down of damage was	s based on ra	ıdar.			0.00K len debris an	0.00K d at least o	Thunderstorm Wind (50EG) ne home had a tree fall onto it.	
Nassau County 1 SE Yulee	01 Trees and damage v	2215EST	vere blown d adar.	own along l	0 Miner Road 1	0 near Hickon	0.00K y Village. So	0.00K ome homes	Thunderstorm Wind (50EG) had roof damage. The time of	
Nassau County Hedges	01 Trees and reported (2215EST If power lines we to the roofs. The	vere blown done time of da	own near th mage was b	0 e intersection ased on rada t west coast	0 n of Harts I r imagery. sea breeze	across the r	egion thro	Thunderstorm Wind (50EG) b. Some structural damage was ugh the day. The sea breezes tt produced wind damage and	
Gilchrist County 4 NW Bell	04 The Flori	1500EST da Fish and Wi	ildlife reporte	ed a funnel o	0 cloud east of	0	0.00K	0.00K	Funnel Cloud Inty Road 340 bridge.	
St. Johns County 4 N South Ponte Vedra Bc	08	0000EST 1939EST			0	0	0.00K	0.00K	Heavy Rain	
St. Johns County 2 NW Palm Vly	08 About 1 f A frontal Georgia. heavy rai of St. Joh	An inverted tro nfall along por	stalled acrosough axis strettions of the N	eported aloness central F. engthened o NE Florida of heavy rainf	0 Ig North Rose Iorida with senshore convectost. Floodinall, and wind	trong high ergence and ng started to Is increased	pressure wed focused strong to occur during along the St	ng gusty El g the eveni t. Johns, Di	Flood th of the region across central NE winds and waves of locally ng of Sept. 8th across portions uval, and Glynn county coasts th.	
FLZ025-033-038- 124-125	Coastal	Duval - Coa	stal Nassau	ı - Duval -	Flagler - S	t. Johns	J	•		
	10 11	0521EST 1215EST			0	0	0.00K	0.00K	Tropical Storm	
Bradford County 1 SSW Starke 1 NNE Lincoln City		0935EST via social meditime that the cr							Flood ra Street. This was occurring at nway 301.	
FLZ022-030>032-	Baker -	Bradford - (Clay - Colu	mbia - Gil	lchrist - Un	ion				
035	10 11	0935EST 1100EST			0	0	4.0M	0.00K	Tropical Storm	

.	ъ.	Time Local/	Path Length	Path Width	Pers	nber of	Estim Dama	ige	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
FLORIDA, Northeastern									
St. Johns County 2 SSW Vilano Beach 1 N Moultrie Jct	10	1240EST 1245EST	1.2	50	0	0		0.00K	Tornado (EF1)
	toward I	Huguenot Cemetonity of Orange S	ery. Multiple	trees were	uprooted a	and snapped	in the cemeter	ry. The torr	engthening to EF1 and moving hado continued moving west in likely began as a water spout
St. Johns County 1 N Vilano Beach	10	1850EST							
2 W Araquey		1856EST	4.99	200	0	0		0.00K	Tornado (EF1)

This tornado may have initiated as a water spout that moved onshore at Vilano Beach. Minimal damage was reported in Vilano Beach with greater tree damage discovered west of Vilano Beach where a few trees were snapped and uprooted. Roof damage was reported on 5th Avenue near Vilano Beach. Multiple trees were damage and there was minor roof damage observed along Jackson and North Blvds. The tornado then crossed Highway 1 and caused additional tree and roof damage from 4th Street toward Porter Road before dissipating in the 12 Mile Swamp Conservation Area. Radar indicated a tornado debris signature. This tornado had peak winds of 85-100 mph.



A picture showing EF-1 tornado damage in Vilano Beach located in St. John's County, Florida on September 10th, 2017. Photo courtesy of NWS.

FLZ036-040	Alachua	- Marion							
	10 11	2115EST 1100EST			0	0		0.00K	Tropical Storm
Putnam County 1 W Palatka Kay Arkin Ar	10 A nursing	2249EST home was being f	looded. Patie	ents had to	0 be evacuate	0 ed to a near	0.00K by hospital.	0.00K	Flash Flood
FLZ030	Union								
	10 11	2300EST 1100EST			0	0		0.00K	Tropical Storm
Flagler County 1 S Marineland	10	2320EST 2330EST	4.12	200	0	0		0.00K	Tornado (EF0)

This tornado touchdown in northern Flagler county just south of Marineland. Damage was limited to trees. Structural damage was not reported. A tornado debris signature was detected along the path. The tornado remained over the Pellicer Creek Conservation Area before dissipating just west of Interstate 95.

Path Path Number of September 2017 Time Estimated Local/ Standard Length (Miles) Width Persons Damage (Yards) Date Injured Property Crops Character of Storm Location

FLORIDA, Northeastern

Duval County

2 ESE Marietta 10 2353EST 0 0 0.00K 0.00K Flash Flood A social media post showed standing water in a home off of Ellis Road near the Murray Hill area of Jacksonville.

St. Johns County

2 NNW Summer Haven 11 0015EST

0020EST 1.2 300 0 0 0.00K 0.00K Tornado (EF2)

Significant structural damage occurred at Summer House vacation rentals in Crescent Beach. There were definitive signs of circulation in the debris field. Tree damage extended inland to A1A. The tornado appeared to dissipate over the Intracoastal Waterway. Peak winds were estimated at 110-130 mph.



A picture of the Summerhouse Condo vacation rentals' damage from an EF-2 tornado in Crescent Beach, Florida on September 11th, 2017. Photo courtesy of NWS.

FLZ037 Putnam

11 0055EST 1100EST 0 0 0.00K 0.00K Tropical Storm

 Nassau County

 2 NNW Fernandina Beach
 11
 0125EST

 2 NNW Becker
 0135EST
 10.69
 100
 0
 0.00K
 0.00K

This weak tornado touched down on the northern end of Amelia Island and tracked west across open marsh areas. Damage was limited to trees and shrubs and damage was not reported. The path width was estimated at 100 yards as the circulation tracked generally over open marsh land then dissipated over rural marsh land. There was a clear tornado debris signature on radar.

Tornado (EF0)

Nassau County

 2 ENE Hedges
 11
 0125EST

 1 S Fernandina Beach Arp
 0130EST
 5.95
 100
 0
 0.00K
 0.00K
 Tornado (EF0)

Another tornado developed south of the northern Amelia Island Island tornado at the same time. This tornado touched down just south of Fernandina Beach and tracked westward with damage limited to trees and shrubs. The tornado dissipated over marsh areas. A tornado debris signature was noted on radar. Damage was not reported.

Flagler County

1 WNW Palm Coast 11 0213EST 0 0 0.00K 0.00K Flash Flood

Waist deep water was reported along Emerson Drive in Palm Coast.

	D .	Time Local/	Path Length	Path Width	Pers		Estim Dama	ge	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
FLORIDA, Northeastern									
Duval County 2 S Simpson Yard	11 Water wa	0335EST as covering the	Interstate 10	ramps at Ca	0 assat Avenu	0 e.	0.00K	0.00K	Flash Flood
Duval County 1 SE Neptune Beach	11 Water wa	0346EST as flooding 3rd	Street near Pi	ta Pit in Jac	0 eksonville H	0 Beach with ac	0.00K Iditional flood	0.00K ling reports	Flash Flood just west on 5th Street.
Duval County 2 WNW (NZC)Nas Cecil Fld	11 Yellow W	0400EST Vater Creek wa	s overflowing	g and cover	0 Normandy	0 Blvd. The ro	0.00K oad was closed	0.00K	Flash Flood
Nassau County 1 NNE Hilliard Hilliard Airpark	11	0600EST			0	0	0.00K	0.00K	Flash Flood
	Water wa	s covering stre	ets and appro	aching hom	es. Picture	relayed via s	ocial media.		
St. Johns County Sampson Church 6 WNW Palm Vly	11	0615EST 0700EST			0	0	0.00K	0.00K	Flash Flood
	interchan	ge due to floo	ded roads. A	t 7:52 am,	the public	reported that	at multiple ca	rs were sta	re closed at the Interstate 95 alled in flood waters on Lane water was flowing over Lem
Columbia County 1 N Lake City	11	0630EST 0735EST			0	0	0.00K	0.00K	Flash Flood
	County D		ker county re	layed to N	WS Jackso	nville that th			7:30 am. At 8:35 am, the 911 le reports of flash flooding in
Alachua County 2 ESE Arredonda Micanopy	11	0700EST 1130EST			0	0	0.00K	0.00K	Flash Flood
	enforcement NW 8th Adue to floo car was loo over Mus Street off miles SW	ent. At 9 am, la Avenue to Rad coding from Ho ost due to floo seum Road and of 156th Aver	aw enforceme io Road due ogtown Creek ding at Hogto I the road had nue. At 1202 j ater was over	ent reported to flooding. , about 1 m own Creek. to be close pm, SE Wac the road at	NW 34th S At 912 an ile WNW of Another voted. At 1037 cahoota Ro Waldo Ro	Street about I n, West Univer of the Univer chicle could am, a road v ad collapsed ad and State	mile NW of ersity Blvd w sity of Florida not be reache was washed o , about 2 mile Road 24. At	the Universe as closed for the A. At 913 and d. At 1020 art about 5 in some some some some some some some some	eets were reported to local law iity of Florida was closed from rom 20th Street to 38th Street m, one law enforcement patrol am, Lake Alice was flooding miles SSE of Brooker, on 21st licanopy. At 1208 pm, about 4 Furkey Creek was overflowed
Duval County 3 NW Bowden 2 S Jacksonville				ng was repo	0 orted in Sar	0 n Marco. Pur	0.00K mps under wa	0.00K ter. Water	Flash Flood in homes. Water rescues from
St. Johns County 1 SW Switzerland	11	er rescue team 1358EST swift water rese		nducted by l	0 law enforce	0 ment due to	0.00 K river flooding	0.00K	Flash Flood

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Killed Injured Crops Character of Storm Location

FLORIDA, Northeastern

Hurricane Irma's eye passed west of the local forecast area, with the region on the storm's turbulent east side. Widespread tropical storm force winds with gusts to hurricane force were felt across much of the area, with the strongest winds surging up the Florida east coast during the pre-dawn hours of Sept. 11th. Extensive tree and power line damage occurred across the local area from the winds. One of the greatest local impacts exacerbated by Irma's rainfall and storm surge was river flooding. Prior to Irma's arrival, a local nor'eastern developed 3 days prior, with strong onshore flow pumping water into the St. Johns River basin. Elevated water levels of 1-2 ft above normal tidal departure were already ongoing for several tidal cycles before Irma's surge and rainfall. The nor easter also brought localized heavy rainfall bands, with some areas near the coast realizing 4-6 inches in 24 hrs the days prior to Irma. In addition, precursor conditions to the nor'easter included an above average rainfall across the region during the summer months. Major, historic river flooding was forecast along Black Creek and the Sante Fe a week prior to Irma. Realized river values along the St. Johns surpassed prior record levels set by Hurricane Dora in 1964, during low tide the morning of Sept. 11th. The St. Johns River basin continued to rise with the combination of trapped tides due to the nor easter, astronomically high tides heading into the spring tide season, storm surge of up to 5 ft in some areas, fresh water rainfall of 7-11 inches, and strong southerly winds pushing the water across the basin on the east side of Irma. Historic river flooding occurred across much of NE Florida Sept 11th through the following week as water levels were slow to funnel out of the St. Johns basin. Coastal infrastructure that was already weakened about 1 year ago due to Hurricane Matthew suffered the most damage from Irma's storm surge.

Alachua County 3 SSW Arredonda

15 1746EST 0 0 0.00K Thunderstorm Wind (52EG)

The public estimated a wind gust of 60 mph.

An isolated severe thunderstorm developed along the sea breezes across the Suwanee River Valley that produced severe wind gusts near Archer. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

FLZ124 Coastal Nassau

24 1600EST 2 1 0.00K 0.00K Rip Current High and rough surf contributed to more frequent rip currents with a high risk of rip currents in effect. M49IW

FLORIDA, Northwest

FLZ008>019-026> 029-034-107>108-112-114>115-118-127>128-134 Bay - Calhoun - Coastal Bay - Coastal Dixie - Coastal Franklin - Coastal Gulf - Coastal Jefferson - Coastal Taylor - Coastal Wakulla - Coastal Walton - Dixie - Franklin - Gadsden - Gulf - Holmes - Jackson - Jefferson - Lafayette - Leon - Liberty - Madison - North Walton - South Walton - Taylor - Wakulla - Washington

11

Hurricane Irma brought numerous impacts to the Florida Big Bend, southwest Georgia and southeast Alabama including widespread downed trees and power lines, roads blocked by trees, power outages, and trees on homes. Two people died during the event - one due to a car crash (Liberty County, FL) and another that had a heart attack (Worth County, GA). Two indirect deaths also occurred due to carbon monoxide from a generator (Taylor County, FL). While many counties across the Florida Big Bend and southwest Georgia were impacted, the greatest impacts were across the eastern portion of the area near the I-75 corridor. There were over 6.5 million customers without power in Florida, over 930,000 customers without power in Georgia, and over 45,000 customers without power in Alabama. Total damage cost for each county was estimated when figures were not available.

Dixie county experienced trees and power lines down across the county. Roughly 40 to 50 homes sustained major damage with 55 suffering minor damage.

Leon county experienced tropical storm force wind gusts for approximately 8 hours. The highest wind gust recorded was 55 mph at the Tallahassee International Airport. The highest recorded sustained wind was 43 mph at the FSU WeatherSTEM site. Numerous trees and power lines were downed across the county. At the peak, approximately 70,000 customers were without power. There were 200 obstructions cleared from roadways. There were 88 homes that sustained some level of damage with one house destroyed, 4 sustaining major damage, and 29 sustaining minor damage. There were 11 shelters that hosted 3,000 people including local residents and evacuees from other parts of the state. FSU, FAMU, and TCC were closed for 6 days. County public schools were closed for 4 days.

In Taylor county, damage was primarily to trees and power lines with a few trees on houses causing damage. Three homes sustained major damage and two homes sustained minor damage. There were 10,941 power outages with some not restored for 6 days. There were blow out tides but no surge flooding. Two indirect fatalities occurred due to carbon monoxide from a generator.

In Washington county, there were a few trees and power lines downed. One tree blocked traffic on I-10 at mile marker 124.

In Liberty county, there were downed trees and power lines, but minimal to no damage to structures. There were 250 residents housed in shelters. Five car crashes during the event resulted in one fatality.

In Wakulla county, U.S. Highway 98 was blocked from SR267 to SR363 because of downed trees. A total of 98 trees were felled with 50 of those entangled in lines. All 98 downed trees were blocking roadways or presented a danger to traffic on roadways. Three trees fell on structures and two on vehicles. There were 8700 power outages and 317 evacuated to shelters. There were 10 homes damaged in total with 6 having major damage and 1 destroyed.

		Time	Path	Path	Number of		Estimated		September 2017
		Local/	Length	Width	Pers	ons	Damag	ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

FLORIDA, Northwest

In Lafayette county, there were numerous trees and power lines down across the county with extensive damage to transmission and feeder lines resulting in power loss to 100 percent of county residents and businesses. Two residential structures were destroyed with three others sustaining major damage and nine sustaining minor damage.

In Madison county, trees and power lines were down across the county, two of which blocked traffic on I-10 at mile marker 253 and 246. Two roofs were damaged due to trees. A total of 12 homes were damaged, 3 of which sustained major damage.

In Jackson county, numerous trees and power lines were blown down and blocking roads. Two homes sustained major damage from falling trees.

In Bay county, 55 people were sheltered. Sporadic power outages occurred due to downed trees. Minor damage was sustained to one county fire station.

In Calhoun county, downed trees and power lines occurred with sporadic power outages, but there were no road closures or major structural damage reported.

In Franklin county, there were several trees downed with some damaging homes along with several power outages.

In Jefferson county, there were several trees downed with one falling on a home and three on cars. Barns, fences, and farms were damaged.

In Holmes county, there were a few trees and power lines downed. There were 35 evacuees from outside the county that were housed in shelters.

In Gulf county, a few trees and power lines were down across the county with around 2,000 people without power.

FLORIDA, Southern

CLORIDA, Southern								
FLZ075	Mainlar	nd Monroe						
	09 10	0600EST 2000EST			0	0		Hurricane
Broward County 2 ESE Miramar	09	0710EST 0711EST	0.1	50	0	0		Tornado (EF1)
							ng SW 172 Avenue b were completely rip	etween Memorial Hospital and ped apart.
FLZ073-174	Far Sou	th Miami-Dade	e County -	Inland M	Iiami-Dad	le		
	09 10	0800EST 2100EST			0	0		Hurricane
FLZ074-173	Metrope	olitan Miami-D	ade - Mian	ni-Dade				
	09 10	0900EST 2100EST			0	0	255.24	5M Tropical Storm
Collier County 2 W Ochopee	09	1120EST 1123EST	0.25	50	0	0		Tornado (EF1)
		rm survey determinated by radar.	ined damage	e including	g leaning w	ood power	poles along US 41 ar	nd SR 29 were due to a tornado.
FLZ072-172	Coastal	Broward - Met	tro Browar	d				
	09 10	1200EST 2200EST			1	0		Tropical Storm
FLZ069-070	Coastal	Collier - Inland	d Collier					
	09 11	1600EST 0600EST			0	0	222.5M	Hurricane

Time Path Path Number of Local/ Length Width Persons on Date Standard (Miles) (Yards) Killed Injured				September 2017 Character of Storm				
Coasta	l Palm Beach	- Palm Bea	ıch					
09 11	1700EST 0200EST			0	0	300.0M		Tropical Storm
09	1735EST 1739EST	1.93	100	0	0			Tornado (EF0)
						a discontinuou	s track of a	tornado from Fort Lauderdale
09	1820EST 1822EST	0.5	75	0	0			Tornado (EF0)
A tornad	lo was reported l	oy a member	of the publi	ic around I	Homestead M	lotor Speedwa	y.	
Inland	Broward							
09 10	2200EST 2100EST			0	0	0.00K	0.00K	Tropical Storm
Inland	Palm Beach							
10 11	0500EST 0200EST			0	0			Tropical Storm
10	0640EST 0642EST	0.25	50	0	0			Tornado (EF1)
Glades	- Hendry							
10 11	0700EST 0500EST			0	0			Tropical Storm
Coasta	l Broward - C	oastal Coll	lier - Miar	ni-Dade	- Palm Bea	ch		
10	0930EST 2300EST			0	0		0.00K	Storm Surge/Tide
10 14	2100EST 1000EST			0	0	50.00K	0.00K	Flood
	Coasta 09 11 09 During a Beach to a Beach	Coastal Palm Beach	Date Local/ Standard Coastal Coastal Palm Beach - Palm Beach	Coastal Palm Beach - Palm Beach 99 1700EST 11 0200EST 09 1735EST 1739EST 1.93 100 During a NWS storm survey for Hurricane Irma and Beach to Wilton Manors. Multiple trees were dark 09 1820EST 1822EST 0.5 75 A tornado was reported by a member of the public street of the public s	Coastal Palm Beach - Palm Beach 1	Coastal Palm Beach - Palm Beach 99	Coastal Palm Beach - Palm Beach	Coastal Palm Beach - Palm Beach Palm Bea

Glades County Emergency Management reported the closure of State Road 29 due to flooding from State Road 78 halfway up to Palmdale, as well as State Road 78 east from State Road 29 to U.S. 27. Extensive sheet flow flooding affected western and southern Glades County to Muse and the Hendry County line. Also, flooding from Fisheating Creek affected the campground adjacent to U.S. 27 in Palmdale.

Rainfall amounts of 8 to 12 inches were widespread across the area, with estimates of 16 to 20 inches over parts of western Glades County.

		Time	Path	Path	Number of		Estimated		September 2017
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

FLORIDA, Southern

Hendry County 6 NW Denaud

10 2100EST 14 1000EST 0 0 20.00K 0.00K Flood

Extensive sheet flow' flooding caused by heavy rain from Hurricane Irma affected parts of Hendry County. A total of 9 to 11 inches of rain fell in the area during a 48-hour period leading up to and through the event. Estimated amounts of up to 16 inches or higher may have fallen in parts of Hendry County. No major roads were affected, however many properties remained under water for days.

Major Hurricane Irma made landfall in Southwest Florida on Marco Island as a Category 3 hurricane around 330 PM EDT on September 10th. The storm traveled north through southwest Florida through the evening. Effects from Irma were felt across South Florida from September 9th through September 11th. Irma had reached Category 5 strength and a minimum central pressure of 914 MB east of the Bahamas, maintaining Category 5 intensity until landfall along the north coast of Cuba on September 9th. Irma made its first Florida landfall in the Lower Florida Keys early on September 10th as a Category 4 hurricane.

The strength and size of Hurricane Irma allowed for impacts to be felt across all of South Florida. Irma brought widespread wind damage, heavy rainfall and storm surge to all areas. Hurricane-force sustained wind were measured in much of Collier County, as well as far southern and inland Miami-Dade County, with the possibility of additional hurricane-force sustained wind in more isolated areas over the remainder of South Florida where widespread tropical storm force sustained wind occurred. Gusts to hurricane force were felt over all of South Florida, with the maximum measured wind gust of 142 mph in Naples in Collier County. Widespread tree damage and some structural damage occurred across all of South Florida, with most structural damage on the minor side.

Irma brought a significant storm surge on both coasts of South Florida. Storm surge of 6 to 8 feet was observed in the Everglades City and Goodland areas of Collier County, with 3 to 5 feet from Marco Island to Naples. Along the east coast, observed storm surge values of 4 to 6 feet were noted along Biscayne Bay from south of Miami to Homestead, and 2 to 4 feet elsewhere along the east coast from Key Biscayne to Palm Beach.

Hurricane Irma brought widespread rainfall and some flooding across the region. From the period between 8 AM EDT September 9th and 8 AM EDT September 11th, 8 to 15 inches of rain were measured over interior portions of Southwest Florida, with estimated amounts of 16 to 20 inches in southwestern Hendry County. This rainfall near the end of a wet summer led to significant flooding over these areas. 5 to 10 inches of rain were noted elsewhere across South Florida, with areas of minor to moderate flooding.

32 deaths were attributed to Irma in southern Florida, all but one indirect. The only direct death was an 86-year-old man who was knocked down by a gust of wind while opening the front door of his home in Broward County. Most of the deaths occurred during cleanup after the storm, as well as several as a result of carbon monoxide poisoning from misuse of generators. Initial and incomplete damage estimate across the area is estimated to be around \$800 million, but in all likelihood will be much higher once damage assessments are completed. \$222.5 million in damage came in from Collier County, and about \$300 million from Palm Beach County. About \$255 million came from the agricultural community in Miami-Dade County.

Total number of people who were at county evacuation shelters were as follows: Miami-Dade County - 31,092, Palm Beach County - 17,263, Collier County - 17,040, Broward County - 17,000, Hendry County - 3,000

Total number of customers without power were as follows: Miami-Dade County - 888,530, Broward County - 689,000, Palm Beach County - 566,240, Collier County - 197,630, Hendry County - 9,700, Glades County - 1,670.

Miami-Dade County

19 1650EST 0 0 0.00K 0.00K Funnel Cloud Multiple reports from the public and photos on social media reported a funnel cloud in northern Miami-Dade County west of US.27

Sea breeze driven showers and thunderstorms were prevalent throughout the afternoon and evening hours. One of these storms along a colliding boundary was able to produce a funnel cloud in Miami Dade County.

Collier County 4 ESE East Naples

29 1700EST 2200EST 0 0 10.00K 0.00K Flood

The Collier County Sheriffs Office reported multiple intersections in the Lely area closed due to flooding. Two to three feet of standing water in the roadways with vehicles stranded was reported throughout the area, including the following locations: St. Andrews Boulevard at Warren Street, Rattlesnake Hammock Road from US 41 to Hawaii Boulevard, and Pebble Beach Boulevard and Big Springs Drive.

A mid to upper level trough associated with a low centered over the northeast Gulf waters combined with the western edge of the Atlantic high. This brought southerly flow and deep tropical moisture from the Caribbean and southeastern Gulf of Mexico to Florida. This allowed for moderate to heavy rainfall across portions of Collier county leading to flooding of roadways.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Perso Killed	oer of ns Injured	Estima Damag Property		September 2017 Character of Storm	
	Date	Standard	(Willes)	(Tarus)	Killed	Injuicu	Troperty	Crops	Character of Storm	
FLORIDA, West Central Hillsborough County 2 SSE Nowatney							50.00K ge to an apartm ire. No injuries		Lightning ng that was likely caused by a orted.	
Levy County 2 ENE Gulf Hammock	estimated	1845EST County 911 c by radar. se estimated wi				_	1.00K nes near SE 42	0.00K Court and	Thunderstorm Wind (45EG) County Road 326. Time was	
Charlotte County 1 WSW Charlotte Harbor	01	1909EST		-	0	0	0.00K of 60 mph, 52 k	0.00K nots.	Thunderstorm Wind (52EG)	
	Note: Th	e estimated wi	nd gust of 52	knots is equ	ivalent to 6	0 mph.				
Pinellas County 1 SSE Saint Petersburg Beach	01 A 16 year	2036EST r old was strucl	k by lightning	in Saint Pe	0 te Beach. H	1 e was trans _l	0.00K ported to a loca	0.00K ll hospital a	Lightning and later released.	
	strikes. O		on the beach	was struck					inds and numerous lightning area had flooding issues when	
FLZ149	Coastal	Pasco								
	08 11	2300EST 0900EST			0	0	7.0M	0.00K	Hurricane	
FLZ056-061-160- 162-165-260-262- 265		l Charlotte LOTTE - I					De Soto - 1	Hardee -	Highlands - INLAND	
	10 11	0500EST 0900EST			1	0	716.65M	226.2M	Hurricane	
Hardee County 1 NNW Wauchula	10	0759EST 0801EST	0.03	50	0	0	40.00K	0.00K	Tornado (EF1)	
	difficulty received	differentiating	g tornado dam e tropical sto	age from th	ne surroundi ricane force	ng hurricar	ne damage, but	given that	NWS storm survey crew had the initial damage report was hat a brief tornado more than	
FLZ052-151-155- 251-255	Coastal	Hillsboroug	h - Coastal	Manatee ·	- Inland H	illsborou	gh - Inland N	/Ianatee -	Polk	
	10 11	0800EST 0900EST			1	0	101.23M	145.5M	Hurricane	
Polk County Lakeland McCollum Ar	10	1019EST 1021EST	0.59	50	0	0	20.00K	0.00K	Tornado (EF2)	
	An NWS storm survey crew found 7 wood power poles snapped halfway up along Old Polk City Road, hinting at a strong rotation just aloft of the surface. Winds were estimated at 115 MPH/EF-2. Timing of the tornado touchdown was estimated from radar.									
FLZ050	Pinellas									
	10	1100EST								
	11	0900EST			0	0	594.45M	0.00K	Hurricane	

		Time	Path	Path		mber of	Estima		September 2017			
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	sons Injured	Dama; Property	ge Crops	Character of Storm			
FLORIDA, West Central												
FLZ162	Coasta	l Charlotte										
	10	1200EST										
	12	0000EST			0	0	20.0M	0.00K	Storm Surge/Tide			
De Soto County												
1 ENE Bunker	10	1800EST										
1 S Lansing	28	1200EST			0	0	1.00M	0.00K	Flood			
	Heavy rains from Hurricane Irma caused the Peace River at Arcadia to rise above flood stage on the 10th, with flooding continuing through the 28th. The water level crested at 19.20 feet on the 15th, 3.20 feet above the major flooding threshold. This marks the third highest crest in history for the Peace River at Zolfo Springs. On the nearby Horse Creek, flooding began on the 10th at the river gage near Arcadia, and continued through the 22nd. The water level crested at 17.07 feet on the 11th, 1.07 feet above the major flood stage. This marks the 5th highest flood stage on record for the Horse Creek near Arcadia. The waters were reported to have flooded homes in the River Acres neighborhood, as well as the Peace River Campground. The flood damage cost is unknown, but was guessed to be around \$1 million.											
Hillsborough County 3 SE Gulf City	10 16	1800EST 1200EST			0	0	2.00M	0.00K	Flood			
	flooding threshol	continuing thr d. od waters entere	ough the 16	th. The wat	er level cr	ested at 17.69	9 feet on the 1	2th, 0.69	e flood stage on the 10th, with feet above the major flooding age to homes was estimated at			
Lee County 1 N Bonita Spgs	10 13	1800EST 0000EST			0	0	500.00M	0.00K	Flood			
	Heavy rains from Hurricane Irma on the 10th and 11th cause water levels to rise on the Imperial River in southern Lee county to rise, resulting in flooding of hundreds of homes in Imperial Bonita Estates and the surrounding areas. Flood damage from Irma in Lee County was roughly estimated at \$500 million.											
FLZ043-142-148- 242-248-249	Coasta	l Citrus - Coa	nstal Herna	ındo - Inla	nd Citru	s - Inland F	Hernando - I	nland Pa	asco - Sumter			
	10 11	2000EST 0900EST			0	0	28.88M	7.9M	Tropical Storm			
FLZ139-239	Coasta	l Levy - Inlan	nd Levy									
	11	0100EST 0900EST			0	0	260.0K	0.00K	Tropical Storm			
Hernando County	11	0.000000										
1 SE Croom 3 S Rital	11 30	0600EST 0000EST			0	0	5.00M	0.00K	Flood			

Farther upstream on the Withlacoochee River, flooding begin at Croom on the 13th and continued through the rest of the month. The river level crested at 11.27 feet on the 22nd, 0.47 feet above the moderate flood stage.

continuing through the rest of the month. The water level crested at 17.67 feet on September 21st, 1.17 feet above the major

flooding threshold. This marks the 5th highest river crest on record for the Withlacoochee River at Trilby.

		Time	Path	Path	Nun	Number of		ated	September 2017
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

FLORIDA, West Central

The flood waters entered numerous homes, with Hernando County reporting that 4000 residents were impacted by the flooding. Flood damage to homes was estimated at \$5 million.

Hillsborough County 3 E Bloomingdale

11 0600EST 18 1200EST 0 0 2.00M 0.00K Flood

Heavy rains from Hurricane Irma caused the Alafia River at Lithia to rise above flood stage on the 11th, with flooding continuing through the 18th. The water level crested at 22.79 feet on the 12th, 3.79 feet above the major flooding threshold. This marks the 5th highest crest in history for the Alafia River at Lithia.

The flood waters entered several homes in near Lithia Pinecrest Road. Flood damage to homes was estimated at \$2 million.

Pasco County 1 ESE Elfers

11 0600EST 18 1200EST 0 0 460.00K 0.00K Flood

Heavy rains from Hurricane Irma caused the Anclote River at Elfers to rise above flood stage on the 11th, with flooding continuing through the 18th. The water level crested at 24.87 feet on the 12th, 0.87 feet above the major flooding threshold. The flood waters entered several homes in the Anclote River Estates and Anclote River Acres neighborhoods. Flood damage to homes was estimated at \$460,000.

Hardee County

 2 SE Torrey
 12
 0600EST

 1 NE Wauchula
 24
 1200EST
 0
 0
 1.64M
 0.00K
 Flood

Heavy rains from Hurricane Irma caused the Peace River at Zolfo Springs to rise above flood stage on the 12th, with flooding continuing through the 24th. The water level crested at 23.85 feet on the 13th, 1.85 feet above the major flooding threshold. This marks the third highest crest in history for the Peace River at Zolfo Springs.

The waters were reported to have flooded the Little Charlie Creek RV Park near Wauchula. Flood damage to homes was estimated at \$1.64 million.

Hillsborough County 2 N Clarkwild

12 1200EST 0 0 2.00M 0.00K Flood

Heavy rains from Hurricane Irma caused the Hillsborough River at Morris Bridge to rise above flood stage on the 12th, with flooding continuing through the 20th. The water level crested at 34.66 feet on the 14th, 0.66 feet above the moderate flooding threshold. This marks the highest crest in history for the Hillsborough River at Morris Bridge.

The flood waters entered mobile homes in the Pine Ridge Estates neighborhood. Flood damage to homes was estimated at \$2 million.

Monetary losses do not include insured losses. Fatalities are preliminary until the Florida Medical Examiner releases the official information. This document will be updated once released.

Hurricane Irma made landfall on Marco Island as a Category 3 hurricane on the afternoon of the 10th and traveled north through southwest Florida through the morning of the 11th. Prior to making landfall in southwest Florida, Irma had previously reached Category 5 strength and made landfalls in Cuba and the Florida Keys. At it's peak, Irma had a central pressure of 914 mb.

The maximum storm surge in southwest Florida was 3.88 feet in Fort Myers at midnight EST on the 11th. Subtracting the astronomical tide of 0.04 feet, the maximum storm tide was calculated from the tide gauge as 3.28 feet MHHW at 2:36 PM EST on the 11th. Farther north, the storm surge was generally less than 3 feet. Due to the track making landfall south of the area then moving north and parallel but inland of the coast, strong offshore flow north of the eye produced in even stronger negative storm surge before the positive surge in most areas as water was pushed away from the coast.

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location

FLORIDA, West Central

Rain from Irma started to accumulate over southwest Florida and interior parts of west central Florida on the morning and afternoon of the 10th, with most of the area seeing the highest rain totals during the early morning hours of the 11th. The rain then largely ended by mid morning on the 11th. Most of the area saw rainfall accumulations of 5-10 inches, with some isolated spots seeing totals of over 15 inches. The highest rain total reported was 18.65 inches at the home weather station D1496 in Beverly Hills in Citrus County. The widespread heavy rain caused significant river flooding issues across west central and southwest Florida, with major flooding being observed at points on the Withlacoochee, Anclote, Hillsborough, Alafia, Little Manatee, and Peace Rivers as well as the Horse Creek.

The collective effects of Hurricane Irma in west central and southwest Florida during the period of September 10 and 11 resulted in 2 direct fatalities, 14 indirect fatalities, an estimated \$2.2 billion in property damage (adding individual assistance claims and public assistance claims, not including the cost of debris removal and emergency protective measures when known), and \$379 million in crop damage. A total of 509 homes and businesses were destroyed, 5,589 had major damage, 18,834 sustained minor damage, and 61,920 were affected by Hurricane Irma in west central and southwest Florida.

County-by-County Impacts

Lee County - In inland portions of Lee county, the highest wind reported from Hurricane Irma was a gust to 77 knots at the ASOS at Southwest Florida International Airport during the late afternoon on the 10th. Rainfall was generally around 5 inches or greater, with the highest rain total being 11.59 inches at a mesonet site at the waste plant on Buckingham Road in Fort Myers. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines, while heavy rain also causing flood damage to many homes. Lee County Emergency Management reported that 92 homes or businesses were destroyed by Irma, 2088 sustained major damage, 1721 had minor damage, and an additional 20426 were affected throughout Lee County. The total property damage from Irma in Lee County was estimated at \$826.28 million in individual damage assessments, of which, \$163.14 million was estimated to be caused by wind damage in inland portions of Lee County. Additionally, crop damage to citrus plants in Lee County was roughly estimated at \$9.6 million. In coastal portions of Lee county, the highest wind reported from Hurricane Irma was a gust to 73 knots at the ASOS at Fort Myers Page Field during the late afternoon on the 10th. Rainfall was generally around 4 inches or greater, with the highest rain total being 10.60 inches at the ASOS at Fort Myers Page Field. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines, while heavy rain also caused flood damage to numerous homes. Lee County Emergency Management reported that 92 homes or businesses were destroyed by Irma, 2088 sustained major damage, 1721 had minor damage, and an additional 20,426 were affected throughout Lee County. The maximum storm surge was 3.88 feet in Fort Myers at midnight EST on the 11th. Subtracting the astronomical tide of 0.04 feet, the maximum storm tide was calculated from the tide gauge as 3.28 feet MHHW 1436EST on the 11th. The total damage from Irma in Lee County was estimated at \$826.28 million in individual assistance assessments, of which, \$163.14 million was estimated to be caused by wind damage in coastal portions of Lee County. There was one direct fatality reported in Bonita Springs, when a 74 year old man fell down stairs near his home on the 11th. Due to the hurricane conditions, paramedics were not able to reach him for several hours, and he died on the 16th.

Charlotte County - In coastal portions of Charlotte County, the highest wind reported from Hurricane Irma was a gust to 64 knots at the ASOS at Punta Gorda Airport during the early evening on the 10th. Rainfall was generally around 5 inches or greater, with the highest rain total being 8.08 inches at the CoCoRaHS station FL-CH-13 in Port Charlotte. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Charlotte County Emergency Management reported that 5 homes or businesses sustained major damage and an additional 200 were affected by hurricane Irma throughout Charlotte County. The total property damage from Irma in Charlotte County was estimated at \$23 million, including \$3 million in individual assistance claims, and \$20 million in public assistance claims including for debris removal and emergency protective measures. An estimated \$2.9 million was caused by wind damage in coastal portions of Charlotte County. Emergency management reported that sea walls collapsed when water left the Charlotte Harbor during the negative storm surge ahead of the storm, causing an estimated \$20 million in damage. Timing was estimated by using the nearby tide gauge in Fort Myers, where the negative surge bottomed out at around -4 feet MLLW at around 1800EST on the 10th, then surged to a positive surge of just over 3 feet at about 0500EST on the 11th, before slowly receding through the rest of the day. Charlotte county emergency management reported that the negative surge caused sea walls to collapse, causing an estimated \$20 million in public assistance claims. In inland portions of Charlotte County, winds from Hurricane Irma were estimated to be around 60 to 70 knots based on surrounding observations. Rainfall was generally around 5 inches or greater, with the highest rain total being 9.76 inches at mesonet station at Whidden Properties (WHID) near the eastern border of Charlotte County. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Charlotte County Emergency Management reported that 5 homes or businesses sustained major damage and an additional 200 were affected by hurricane Irma throughout Charlotte County. The total property damage from Irma in Charlotte County was estimated at \$23 million, including \$3 million in individual assistance claims, and \$20 million in public assistance claims including for debris removal and emergency protective measures. An estimated \$100,000 of that damage was caused by wind damage in inland portions of Charlotte County. Additionally, crop damage to citrus plants in Charlotte County was roughly estimated at \$15.9 million.

Sarasota County - In coastal portions of Sarasota County, the highest wind reported from Hurricane Irma was a gust to 70 knots at the home weather station AP859 in Sarasota during the evening on the 10th. Rainfall was generally around 4 inches or greater, with the highest rain total of 10.32 inches at the CWOP station C7986 in Laurel. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Sarasota Emergency Management reported that 4 homes sustained major damage, 10 had minor damage, and 438 were affected. The total property damage from Irma in Sarasota County was estimated at \$10.73 million, including \$2.47 million in individual assistance claims and \$8.26 million in public assistance claims. In inland portions of Sarasota County, winds from Hurricane Irma were estimated to be around 60 to 70 knots using surrounding observations. Additionally, crop damage to citrus plants in Sarasota County was roughly estimated at \$2.2 million.

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location

FLORIDA, West Central

Manatee County - In coastal portions of Manatee County, winds from Hurricane Irma were estimated to be around 60 to 70 knots based on surrounding observations. The highest wind gust reported in coastal Manatee County was 61 knots at the ASOS at Sarasota Bradenton International Airport. Rainfall was generally around 5 inches or greater, with the highest rain total being 6.86 inches at the GOES station LWDF1 in Lake Ward. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Manatee County Emergency Management reported that 14 homes or businesses were destroyed, 170 sustained major damage, 196 had minor damage, and an additional 2061 were affected by hurricane Irma throughout Manatee County. The total damage from Irma in Manatee County was estimated at \$18.3 million in individual assistance claims, of which, \$15.3 million was estimated to be caused by wind damage in coastal portions of Manatee County. One direct fatality was reported in Manatee County when an 89 year old man told his wife he was going out to secure their boat to their dock during the storm and was later found unresponsive in the canal. In inland portions of Manatee County, winds from Hurricane Irma were estimated to be around 60 to 70 knots based on surrounding observations. Rainfall was generally around 4 inches or greater, with the highest rain total being 6.65 inches at the HADS station MKHF1. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Manatee County Emergency Management reported that 14 homes or businesses were destroyed, 170 sustained major damage, 196 had minor damage, and an additional 2061 were affected by hurricane Irma throughout Manatee County. The total property damage from Irma in Manatee County was estimated at \$18.3 million in individual assistance claims, of which, \$3 million was estimated to be caused by wind damage in inland portions of Manatee County. Additionally, crop damage to citrus plants in Manatee County was roughly estimated at \$23.5 million.

DeSoto County - The wind gusts from Hurricane Irma were estimated to be around 60 to 70 knots based on surrounding observations. Rainfall was generally around 6 inches or greater, with the highest rain total being 11.34 inches at the CoCoRaHS station FL-DS-1 in Arcadia. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Additional damaged occurred due to the high rain totals causing flooding on the Peace River and the Horse Creek. The total property damage from DeSoto County is unknown at this time. Additionally, crop damage to citrus plants in DeSoto County was roughly estimated at \$71 million.

Hardee County - The highest wind reported from Hurricane Irma was a gust to 69 knots at the Hardee County Emergency Operations Center in Wauchula. Rainfall was generally around 6 inches or greater, with the highest rain total being 10.58 inches at a mesonet station in Zolfo Springs. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Hardee County Emergency Management reported that 10 homes or businesses were destroyed by Irma, 20 sustained major damage, 71 had minor damage, and an additional 59 were affected. Additional damage occurred due to the high rain totals causing flooding on the Peace River. An EF-1 tornado was also found to have briefly touched down in Wauchula along US Highway 17 causing roof and power pole damage. The total property damage from Hardee County was estimated at \$3.32 million, of which, \$1.64 million was estimated to be caused by wind damage. Additionally, crop damage to citrus plants in Hardee County was roughly estimated at \$57.5 million.

Highlands County - The highest wind reported from Hurricane Irma was a (3 second average) gust to 85 knots at Archbold Bio Station during the evening on the 10th. Elsewhere, the AWOS in Sebring registered a 5 second average gust to 75 knots. Rainfall was generally around 5 inches or greater, with the highest rain total being 10.31 inches at the CoCoRaHS station FL-HL-13 in Sebring. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Highlands County Emergency Management reported that 144 homes or businesses were destroyed by Irma, 963 sustained major damage, 2408 had minor damage, and an additional 9623 were affected. The total property damage from Highlands County was estimated at \$360 million in individual assistance claims, most of which was estimated to be caused by wind damage. Additionally, crop damage to citrus plants in Highlands County was roughly estimated at \$70 million. There were four indirect fatalities from Irma in Highlands County. On the 9th, a 55 year old man fell off a ladder in Lake Placid while preparing his home. The man hit his head and died at a Tampa hospital on the 10th. A 56 year old man in Sebring collapsed while trimming trees on the 12th and died. The medical examiner determined that heart disease was the primary cause of death. A 62 year old man was found dead in his garage in Sebring on the 15th with a generator in the on position and out of gas. The medical examiner determined he died of carbon monoxide poisoning. A 23 year old man was electrocuted and died while trimming trees and clearing storm debris in Sebring on the 26th.

Polk County - The highest wind reported from Hurricane Irma was a gust to 75 knots at the APRS station AR663 near Bartow. Rainfall was generally around 6 inches or greater, with the highest rain total being 17.61 inches at the CWOP station E1114 in Davenport. The wind resulted in damage to numerous homes and businesses, as well as knocking over trees and power lines. Most notably, the wind removed a 7 story tall section of facade from the Winter Haven Senior Living Center. Polk County Emergency Management reported that 96 homes or businesses were destroyed by Irma, 1604 sustained major damage, 7710 had minor damage, and an additional 18537 were affected. The total property damage from Polk County was estimated at \$69 million in public assistance claims, including from debris removal and emergency protective measures, most of which coming from wind damage. Additionally, crop damage to citrus plants in Polk County was roughly estimated at \$93.5 million. One tornado was found to have touched down near Old Polk City Road near Lakeland, causing EF2 damage. Three indirect fatalities were reported in Polk County from Irma. A 7 year old girl died from carbon monoxide poisoning on the 13th in Lakeland due to a gas generator being run indoors. A 63 year old man died in Winterhaven on the 13th while conducting post hurricane work on his home. The medical examiner listed the primary cause of death as heart disease. A 77 year old died in Lakeland on the 17th after he fell while staying at a hurricane shelter.

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location

FLORIDA, West Central

Hillsborough County - In coastal portions of Hillsborough County, the highest winds reported from Hurricane Irma was a gust to 79 knots at the WeatherFlow station XEGM at Egmont Key. Rainfall was generally around 5 inches or greater, with the highest rain total being 16.18 inches at the CWOP site D3252 in Tampa. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Hillsborough County Emergency Management reported that 41 homes or businesses were destroyed, 130 sustained major damage, 166 had minor damage, and an additional 93 were affected by hurricane Irma throughout Hillsborough County. The track of Irma resulted in a much stronger negative surge north of the eye, causing extremely low water levels. A couple of manatees got beached in the mud, and there was a lot of media coverage showing people walking out into the dry part of the bay to rescue them. No significant damage was reported from either the negative surge or the weak positive surge. The total damage from Irma in Hillsborough County was estimated at \$19.95 million, including \$17.86 million in individual assistance claims and \$2.09 million in public assistance claims, of which, \$7 million was estimated to be caused by wind damage in coastal portions of Hillsborough County. Three indirect fatalities were reported in Hillsborough County from Hurricane Irma. A 55 year old man in Town N' Country was trimming a damaged tree with a chainsaw when a branch fell on the chainsaw, causing it to kick upward and strike him in the neck. A 60 year old man fell from a ladder in Tampa while cutting branches and died on the 14th. A 61 year old man also died on the 14th while cleaning up yard debris when a branch knocked the ladder out from under him, causing him to fall to the ground. In inland portions of Hillsborough County, winds from Hurricane Irma were estimated to be around 60-70 knots based on surrounding observations. Rainfall was generally around 6 inches or greater, with the highest rain total 7.62 inches at the COOP site PLCF1 in Plant City. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Hillsborough County Emergency Management reported that 41 homes or businesses were destroyed, 130 sustained major damage, 166 had minor damage, and an additional 93 were affected by hurricane Irma throughout Hillsborough County. Heavy rains across the area also resulted in widespread river flooding, with rising water levels damaging houses on the Hillsborough River, the Alafia River, and the Little Manatee River in Hillsborough County. The total damage from Irma in Hillsborough County was estimated at \$19.95 million, including \$17.86 million in individual assistance claims and \$2.09 million in public assistance claims, of which, \$6.95 million was estimated to be caused by wind damage in inland portions of Hillsborough County. Additionally, crop damage to citrus plants in Hillsborough County was roughly estimated at \$28.5 million.

Pinellas County - In Pinellas County, the highest winds reported from Hurricane Irma was a gust to 77 knots at Pier 60 Park. Rainfall was generally around 4 inches or greater, with the highest rain total 5.98 inches at the the GOES station BTRF1 in Tarpon Springs. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. Pinellas County Emergency Management reported that 77 homes or businesses were destroyed, 533 sustained major damage, 5761 had minor damage, and an additional 11,935 were affected by hurricane Irma throughout Pinellas County. The track of Irma resulted in a much stronger negative surge north of the eye, causing extremely low water levels in the Tampa Bay. No significant damage was reported from either the negative surge or the weak positive surge. The total damage from Irma in Pinellas County was estimated at \$594.45 million, including \$588.08 million in individual assistance claims and \$6.37 million in public assistance claims, most of which was caused by wind damage. One indirect fatality was reported in Pinellas County from Hurricane Irma. A 53 year old man was repairing cable lines in Feather Sound on the 16th when he fell 20 feet from a ladder. The medical examiner ruled that heart disease was a contributing factor.

Pasco County - In coastal portions of Pasco County, winds from Hurricane Irma were estimated to be 60-70 knots based on surrounding observations. Rainfall was generally around 4 inches or greater, with the highest rain total 6.83 inches at the GOES site LWOF1 near Port Richey. The wind resulted in damage to numerous homes, as well as knocking over trees and power lines. The total damage from Irma in Pasco County was estimated at \$860,000 in public assistance claims, including debris removal and emergency protective measures, of which, \$200,0000 was estimated to be caused by wind damage in coastal portions of Pasco County. One indirect fatality was reported in Port Richey on the 8th when a 69 year old man evacuating ahead of Irma crashed into a tree. In Inland Pasco County, winds from Hurricane Irma were estimated to be around 40-60 knots, with the highest wind reported was a gust to 48 knots at the WeatherFlow station XLOL in Land O' Lakes. Rainfall was generally around 6 inches or greater, with the highest rain total being 9.64 inches at the GOES station WRCF1 in Richland. The wind resulted in damage to numerous homes and businesses, as well as knocking over trees and power lines. The non-insured property damage in Pasco County was estimated at \$10,303,487, including for debris removal and emergency protective measures. Additionally, crop damage to citrus plants in Pasco County was roughly estimated at \$7.3 million.

Hernando County - In coastal portions of Hernando County, winds from Hurricane Irma were estimated to be around 34 to 50 knots, with the highest wind reported being a gust to 36 knots at the WeatherFlow station XWKI in Weeki Wachee. Rainfall was generally around 5 inches or greater, with the highest rain total being 10.31 inches at a mesonet station near the Withlacoochee River at Trilby. The wind resulted in damage to numerous homes and businesses, as well as knocking over trees and power lines. Hernando County Emergency Management reported that 26 homes or businesses were destroyed by Irma, 45 sustained major damage, 103 had minor damage, and an additional 112 were affected. The total damage from Hernando County was estimated at \$6.1 million, including \$800,000 in individual assistance claims, and \$5.3 million in public assistance claims. Roughly \$500,000 of that was estimated to be caused by wind damage in coastal portions of Hernando County. In inland portions of Hernando County, winds from Hurricane Irma were estimated to be around 34 to 50 knots based on surrounding observations. Rainfall was generally around 6 inches or greater. The wind resulted in damage to numerous homes and businesses, as well as knocking over trees and power lines. Hernando County Emergency Management reported that 26 homes or businesses were destroyed by Irma, 45 sustained major damage, 103 had minor damage, and an additional 112 were affected throughout the county. The total property damage in Hernando County was estimated at \$6.1 million, including \$800,000 in individual assistance claims and \$5.3 million in public assistance claims. Roughly \$600,000 of that was estimated to be caused by wind damage in inland portions of Hernando County. Additionally, crop damage to citrus plants in Hernando County was roughly estimated at \$600,000.

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location

FLORIDA, West Central

Citrus County - In coastal portions of Citrus County, winds from Hurricane Irma were estimated to be around 40 to 60 knots based on surrounding observations. Rainfall was generally around 5 inches or greater. The wind knocked over numerous trees and power lines throughout the county. The total damage from Hurricane Irma in Citrus County was estimated at \$5.9 million in public assistance claims, including debris removal and emergency protective measures, roughly half of which was estimated to be for wind damage in coastal Citrus County. In inland portions of Citrus County, winds from Hurricane Irma were estimated to be around 40-60 knots, with the highest wind reported being a gust to 56 knots at the CWOP station D1496 in Beverly Hills. Rainfall was generally around 6 inches or greater, with the highest rain total being 18.65 inches at the CWOP station D1496 in Beverly Hills. The wind resulted knocked over numerous trees and power lines. The total damage from Hurricane Irma in Citrus County was estimated at \$5.9 million in public assistance claims, including debris removal and emergency protective measures, roughly half of which was estimated to be for wind damage in inland Citrus County.

Sumter County - Winds from Hurricane Irma were estimated to be tropical storm force around 40-60 knots, with the highest wind reported being a gust to 53 knots at the CWOP station D5322 in The Villages. Rainfall was generally around 8 inches or greater, with the highest rain total being 11.34 inches at a mesonet station in Compressco. The wind resulted in damage to numerous homes and businesses, as well as knocking over trees and power lines. Sumter County Emergency Management reported that 5 homes or businesses were destroyed by Irma, 27 sustained major damage, and 688 had minor damage. The total damage in Sumter County was estimated at \$19 million, which included \$5 million in individual assistance claims, and \$14 million in public assistance claims including debris removal and emergency protective measures.

Levy County - In coastal portions of Levy County, winds from Hurricane Irma were estimated to be around 34 to 50 knots, with the highest wind reported being a gust to 48 knots at the RAWS station SWNF1 near Yellow Jacket. Rainfall was generally around 4 inches or greater, with the highest rain total being 6.33 inches at a mesonet station in Yankeetown. The wind knocked down trees and power lines throughout the county. The total damage in Levy County was estimated at \$260,000 in public assistance claims, including debris removal and emergency protective measures, half of which was estimated to be caused by wind damage in coastal Levy County. In inland portions of Levy County, winds from Hurricane Irma were estimated to be around 34 to 50 knots based on surrounding observations. Rainfall was generally around 5 inches or greater, with the highest rain total being 7.92 inches at the CoCoRaHS site FL-LV-9 in Chiefland. The wind knocked down numerous trees and power lines. The total damage in Levy County was estimated at \$260,000 in public assistance claims, including debris removal

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	and em	ergency protective measures, l	half of which was estima	ated to be caused by win	d damage in inland Levy Co
GEORGIA, East Central					
Burke County					
3 SW Waynesboro	11	0000EST			
	12	0800EST	0	0	Heavy Rain
	A total	rainfall amount of 6.67 inches	was measured 3.3 miles	SW of Waynesboro.	
Columbia County					
Appling	11	0000EST			
	12	0800EST	0	0	Heavy Rain
	NWS L	ARC near Appling measured	a total rainfall amount of	5.00 inches.	
McDuffie County					
Thmson McDuffee Arpt	11	0000EST			
	12	0800EST	0	0	Heavy Rain
	AWOS	unit at Thomson McDuffie Co	o Airport measured a tota	al of 5.37 inches of rain.	
Richmond County					
(AGS)Bush Fld August	11	0000EST			
	12	0800EST	0	0	Heavy Rain
	ASOS	unit at Augusta GA Bush Field	l Airport measured a tota	d rainfall amount of 4.11	l inches.
Richmond County					
Augusta Daniel Arpt	11	0000EST			
riugustu Duinei rii pe	12	0800EST	0	0	Heavy Rain
					·
	ASOS	unit at Augusta GA Daniel Fie	ad Airport measured a to	tai rainfall amount of 3.9	92 inches.

GEORGIA, East Central GAZ064-077 E GAZ077 E GAZ064 1 GAZ064 1	Burke Columbi I I frma mado beninsula Florida M weakening	1535EST 1540EST e landfall in so during the da	Length (Miles)	Width (Yards)	Pers Killed 0	Injured 0	Dama Property	Crops 0.1K	Character of Storm High Wind Strong Wind
GAZ064-077 E GAZ077 E GAZ064 C III	Burke Columbi I I frma mado beninsula Florida M weakening	0800EST 1415EST 1433EST 1535EST 1540EST e landfall in seduring the da	Richmond				0.1K	0.1K	-
GAZ077 E GAZ064 G I II	Burke Columbi I I frma mado beninsula Florida M weakening	0800EST 1415EST 1433EST 1535EST 1540EST e landfall in seduring the da	Richmond				0.1K	0.1K	-
GAZ077 E GAZ064 C II	Burke 11 Columbi 11 Irma madoeninsula Florida M weakening	1415EST 1433EST 1433EST 1535EST 1540EST e landfall in soduring the da					0.1K	0.1K	-
1 GAZ064 C	Columbi I 1 Irma mado peninsula Florida M weakening	1535EST 1540EST e landfall in so during the da			0	0	0.1K	0.1K	Strong Wind
GAZ064 C	Columbi I 1 Irma mado peninsula Florida M weakening	1535EST 1540EST e landfall in so during the da			0	0	0.1K	0.1K	Strong Wind
1 Ii p	II Irma mado peninsula Florida M weakening	1535EST 1540EST e landfall in so during the da							8
Iı p	Irma mado peninsula Florida M weakening	1540EST e landfall in so during the da							
p	peninsula Florida M weakening	during the da			0	0			High Wind
w A tt S	he 11th, a SW, and h	g to a Depressi RA) of GA and and into the ea	y and night of September ion. Copious if the Midland rly morning to our north,	while gradual 11th, and so rainfall amoust of SC, which hours of Tuprovided states.	hifted NW ounts associated general esday the arong wind	ening. Irma over SW Greated with the ally fell from 12th. In add gusts over t	weakened to eorgia and in e cyclone occ late Sunday r ition, the pres	Tropical S to Alabama curred acro night, throu sure gradie	en moved north up the Florida Storm status while over north a through Monday night while less the Central Savannah River igh Monday and Monday night ent between the cyclone to our a downed numerous trees. The
Richmond County 1 ESE Augusta 2	22	1340EST 1344EST			0	0			Hail (1.00)
	•	uarter size hail		•	•				
L	Daytime h	eating allowed	l isolated sev	ere thunder	storms to d	evelop in the	afternoon, w	nich produc	ced hail.
GEORGIA, Lower									
)1 Γrees were	1710EST e blown down	along Schlatt	terville Roa	0 d. The time	0 e of damage v	0.00K was based on i	0.00K adar.	Thunderstorm Wind (50EG)
C	converged		d the Atlanti	c in the afte	ernoon, wi	th a few stro	ng to severe	storms tha	ugh the day. The sea breezes at produced wind damage and a.
GAZ136-150>152- 154-163>164-166	Brantley	- Charlton	- Clinch - C	Coastal Ca	mden - C	Coastal Gly	nn - Pierce	- Ware -	Wayne
	10 11	1000EST 1200EST			0	0	0.00K	0.00K	Tropical Storm
2 SSE Nahunta	l l Multiple r	0700EST	sed across Bra	antley count	0 by due to fla	0 ash flooding.	0.00K	0.00K	Flash Flood
3 SSE Shea	l l Multiple r	0800EST	ed across Br	antley count	0 av due to fla	0	0.00K	0.00K	Flash Flood

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons (Yards) Property Date Injured Crops Character of Storm Location

GEORGIA, Lower

Hurricane Irma's eye passed west of the local forecast area, with the region on the storm's turbulent east side. Widespread tropical storm force winds with gusts to hurricane force were felt across much of the area, with the strongest winds surging up the Florida east coast during the pre-dawn hours of Sept. 11th. Extensive tree and power line damage occurred across the local area from the winds. One of the greatest local impacts exacerbated by Irma's rainfall and storm surge was river flooding. Prior to Irma's arrival, a local nor'eastern developed 3 days prior, with strong onshore flow pumping water into the St. Johns River basin. Elevated water levels of 1-2 ft above normal tidal departure were already ongoing for several tidal cycles before Irma's surge and rainfall. The nor easter also brought localized heavy rainfall bands, with some areas near the coast realizing 4-6 inches in 24 hrs the days prior to Irma. In addition, precursor conditions to the nor easter included an above average rainfall across the region during the summer months. Major, historic river flooding was forecast along Black Creek and the Sante Fe a week prior to Irma. Realized river values along the St. Johns surpassed prior record levels set by Hurricane Dora in 1964, during low tide the morning of Sept. 11th. The St. Johns River basin continued to rise with the combination of trapped tides due to the nor easter, astronomically high tides heading into the spring tide season, storm surge of up to 5 ft in some areas, fresh water rainfall of 7-11 inches, and strong southerly winds pushing the water across the basin on the east side of Irma. Historic river flooding occurred across much of NE Florida Sept 11th through the following week as water levels were slow to funnel out of the St. Johns basin. Coastal infrastructure that was already weakened about 1 year ago due to Hurricane Matthew suffered the most damage from Irma's storm surge.

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Chattooga County 1 SSW Cloudland	05	1420EST				
2 NE Summerville		1440EST	0	0	4.00K	Thunderstorm Wind (50EG)
		attooga County Emergency M way 27 north of Summerville.	anager reported a few t	trees and po	wer lines blown do	wn from highway 48 near Cloudland
	Note: 7	The estimated wind gust of 50	knots is equivalent to 5	58 mph.		
Pickens County 1 WNW Ruden	05	1645EST				
		1700EST	0	0	5.00K	Thunderstorm Wind (50EG)
		kens County 911 center reportreet in Jasper.	rted trees and power li	nes blown	down around Old F	ederal Road, McEntire Place and N.
	Note: T	The estimated wind gust of 50	knots is equivalent to 5	58 mph.		
Cherokee County						
1 N Sutallee	05	1705EST				
3 W Mica		1725EST	0	0	8.00K	Thunderstorm Wind (50EG)
	portions		s include Fincher Road	l near Ôakw	vind Parkway, aroui	orn across the western and northern and the intersections of Hornage Road Mountain Parkway.
	Note: 7	The estimated wind gust of 50	knots is equivalent to 5	58 mph.		
Dawson County						
Dawsonville	05	1740EST				
1 SW Lumpkin		1755EST	0	0	20.00K	Thunderstorm Wind (55EG)

Highway 19 and struck a vehicle, no injuries were reported

Note: The estimated wind gust of 55 knots is equivalent to 63 mph.

Fulton County Union City

05 1810EST

0 0 4.00K 1820EST Thunderstorm Wind (50EG)

The Fulton County 911 center reported large tree limbs and power lines blown down in the 7000 block of Goodson Road.

Thunderstorms developing along a cold front that pushed into north Georgia during the afternoon produced isolated reports wind damage across northwest and north-central Georgia. Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

10.00		Time Local/	Path Length	Path Width	Numl Perso		Estim		September	201		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Dama Property	Crops	Character of Storm			
GEORGIA, North and Ce	<u>ntral</u>											
GAZ001>009-011> 016-019>025-027- 030>039-041>062- 066>076-078>086- 089>098-102>113	Chatto Dodge Green Jeffer Monro Pauldi Stewa Union	ooga - Cheroko - Dooly - Doo e - Gwinnett - son - Johnson oe - Montgomo ing - Peach - P rt - Sumter - T	ee - Clarke 1glas - Em Hall - Ha - Jones - ery - Morg ickens - Pi Falbot - Ta ker - Walt	e - Clayton anuel - Fa ancock - H Lamar - I gan - Mur ike - Polk aliaferro -	n - Cobb - (annin - Fa Iaralson - Laurens - (ray - Mus - Pulaski - Taylor - T	Coweta - yette - Fl Harris - Lumpkin cogee - N Putnam Felfair - T	Crawford - loyd - Forsy Heard - Hen 1 - Macon - lewton - Nor - Rockdale - Foombs - To	Crisp - D th - Gilm nry - Hou Madison th Fultor Schley - owns - Tr	atoosa - Chattahoochee Dade - Dawson - De Kalb Her - Glascock - Gordon Histon - Jackson - Jasper - Marion - Meriwether In - Oconee - Oglethorpe South Fulton - Spalding Heutlen - Troup - Twiggs White - Whitfield - Wilco	- - - -		
	11	0400EST 2300EST			2	5	28.515M		Tropical Storm			
Gordon County 3 WSW Hunts Corner 1 ESE Echota	11 13	2300EST 0600EST			0	0	0.00K	0.00K	Flash Flood			
		Numerous roads became flooded the evening of September 11th, 2017. The roadways remained closed overnight and through much of the day on September 12th, 2017. 12 roads were closed across Gordon County.										
	Verde I 31st. H Saffir-S the Sep through before so over so Florida Tropica north A	Islands. Tropical urricane Irma co timpson scale as tember 5th Hurrin the northern A turning north over uthwest Florida before weakenid Storm Irma crelabama early on	Irma quick ntinued to m it approache icane Irma l ntilles and a or the Florida as a categor ng to a cate ossed southy the morning the day of	y strengthe nove steadil d the northe nad reached approached a Straits, and gory 1 hurr west Georgi of the 12th. September	med as it moy westward a category 5 the Bahama d crossing the evicane as it c a through th Tropical sto 11th and in	wed west, across the Islands of t and remai s. Irma co e Florida I rening of the rossed into e day of the rm strength	reaching hurri Atlantic Ocear he Lesser Anti ned so into the ntinued movin Keys on the 9th he 10th and tra o southwest G ne 11th before h winds produc	cane stren n, intensify lles on Sep e morning ng west no n and 10th. avelled not eorgia the weakening ed widespi	c Ocean, just west of the Cap gth by the morning of Augus ing to category 4 storm on the tember 4th. By the morning of of September 8th as it move rthwest as a category 4 storn Hurricane Irma made landfarth northwest through wester afternoon of September 11th g to a tropical depression over read damage across central an 12th. Isolated flash floodin	st of od m ll m h. er		
Dodge County 2 W Dubois 2 SW Gresston	21	1725EST 1745EST			0	0	5.00K		Thunderstorm Wind (50EC	3)		
	Road n	ear Hardy Road.					y Road near I	Oubois Chu	arch Road to Gresston Baptis	st		
Telfair County	Note:	The estimated win	id gust of 50	Kilots is eq	uivaient to 3	о шрп.						
1 W Milan	21	1725EST 1735EST			0	0	1.00K		Thunderstorm Wind (45EC	3)		
	The Te	fair County 911	center report	ed a tree blo	own down in	Milan nea	r Highway 280).				
	Note:	The estimated win	nd gust of 45	knots is eq	uivalent to 5	2 mph.						
Pulaski County 3 WNW Finleyson	21	1835EST 1845EST			0	0	20.00K		Thunderstorm Wind (55EC	3)		
		laski County 911 lds/Noble Road.							e intersection of Highway 25 orted.	7		
									aves to produce isolated sever equivalent to 63 mph.	·e		
Johnson County 1 E Wrightsville	22	1423EST 1433EST			0	0			Hail (1.00)			

 $The Johnson County \ Emergency \ Manager \ reported \ quarter \ size \ hail \ along \ Highway \ 319 \ 1/2 \ mile \ outside \ of \ Wrightsville.$

		Time	Path	Path		mber of	Estim		September 2017				
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	rsons Injured	Dama Property	Crops	Character of Storm				
GEORGIA, North and Co	entral												
Upson County													
1 N Paynes Mill	22	1705EST											
		1715EST			0	0			Hail (1.00)				
	The pub	olic reported qua	rter size hail	in Thomasto	on.								
Bibb County													
2 WNW Terra Cotta	22	1713EST											
		1723EST			0	0	0.50K		Thunderstorm Wind (45EG)				
	The Bib	b County 911 ce	enter reported	d a tree blow	n down o	n Mikado Ave	enue on the so	uth side of	Macon.				
	Note: T	The estimated wi	nd gust of 45	knots is eq	uivalent to	52 mph.							
Crawford County			C	•		•							
5 ESE Sandy Point	22	1740EST											
5 NE Lee Pope		1810EST			0	0	6.00K		Thunderstorm Wind (50EG)				
		The Crawford County 911 center reported several trees blown down from around the intersection of Marshall Mill Road and Pottery Road to around the intersection of Walton Road and Union Church Road.											
									upper-level waves to produce				
	mph.	severe munders	torins across	portions of	central Ge	orgia. Note:	The estimated	i wilia gus	t of 50 knots is equivalent to 58				
GEORGIA, Northeast													
GAZ010-017-026- 028>029	Elbert	- Franklin - H	Habersham	ı - Hart - F	Rabun - S	Stephens							
0207 02 9	11	0900EST 2100EST			0	0	60.0K	0.00K	High Wind				
	over no	rtheast Georgia.	Although god soils result	usts only oc ing from he	casionally avy rainfa	exceeded 50	mph in these	areas, the	eorgia, strong winds developed e prolonged nature of the event, oads, power lines, vehicles, and				
GEORGIA, Southeast													
GAZ141	Coasta	l McIntosh											
	11	0100EST 1600EST			0	0	967.0K	0.00K	Storm Surge/Tide				
GAZ140	Inland	McIntosh											
	11	0500EST											
		1700EST			0	0	966.0K	0.00K	Tropical Depression				
GAZ141	Coasta	al McIntosh											
	11	0500EST											
		1700EST			0	0	967.0K	0.00K	Tropical Storm				
GAZ116-137	Inland	Bryan - Long	3										
	11	0600EST											
		1800EST			0	0	650.0K	0.00K	Tropical Depression				
GAZ117>119	Coasta	ıl Bryan - Coa	stal Chath	am - Inlar	nd Chath	am							
	11	0600EST											
		1800EST			0	0	10.45M	0.00K	Tropical Storm				

		Time Local/	Path Length	Path Width			Estimated Damage		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
GEORGIA, Southeast									
Meintosh County 2 SSW Darien	11	0645EST 1400EST			0	0	25.00K	0.00K	Flash Flood
		s submerged d							rma. Pictures showed several ly up to the windows on one
GAZ087-099-114	Bulloch	- Candler - J	enkins - Ta	attnall					
	11	0700EST 2000EST			0	0	1.55M	0.00K	Tropical Depression
GAZ118-139	Coastal	Chatham - C	Coastal Lib	erty - Inla	nd Chath	ıam			
	11	0900EST 1500EST			0	0	12.9M	0.00K	Storm Surge/Tide
Chatham County									
1 SSE Burnside 1 ENE Beaulieu	11	1300EST 1500EST			0	0	25.00K	0.00K	Flash Flood
1 PAR Deaulieu		1200E31			U	U	23.00K	AUU.U	1 1a511 F1000

Chatham County Emergency Management reported 11 people and 2 dogs were rescued from a home on Beaulie Farm Bend.

Irma first developed into a tropical storm on August 30th about 420 miles west of the Cabo Verde Islands, and within 24 hours strengthened into a hurricane. Irma continued to intensify and became a major hurricane over the eastern Atlantic on September 1st. After undergoing a brief period of weakening on September 2nd, Irma once again strengthened into a major hurricane on September 3rd and maintained major hurricane status through September 10th when it made landfall on the southwest Florida coast. During this extended period as a major hurricane, Irma set numerous intensity records for a hurricane in the Atlantic basin. Maximum sustained winds reached 185 mph, making Irma the strongest storm on record to exist in the Atlantic Ocean outside of the Caribbean and Gulf of Mexico. Also, Irmas 185 mph maximum sustained winds are tied for the second strongest maximum winds all time in an Atlantic hurricane. The minimum central pressure reached during Irmas life cycle was 914 mb which is the lowest pressure on record by an Atlantic hurricane outside of the western Caribbean and Gulf of Mexico. Furthermore, Irma maintained Category 5 status for 3 consecutive days which is the longest on record for an Atlantic hurricane. Irma stayed on a general westward track through September 5th when it began a gradual turn to the west-northwest. On this west-northwestward track, Irma eventually skirted along the north coast of Cuba on September 9th before turning northward toward Florida on September 10th. Irma officially made landfall at Marco Island, FL at 3:35 pm September 10 as a Category 3 hurricane. Following landfall, Irma tracked to the north-northwest and eventually the northwest as it progressed up the western side of the Florida peninsula. Irma steadily weakened during this time and was downgraded to a tropical storm near the big bend of Florida at 8:00 am on September 11th. Through the rest of September 11th, Irma tracked to the northwest into southern Georgia and widespread impacts occurred across the Southeast.

Despite the fact that the center of Irma tracked well to the west of the southeast Georgia and southeast South Carolina region, it still caused significant impacts due to heavy rainfall, strong winds, tornadoes, and storm surge. Feeder bands around Irma continuously moved onshore on September 11th and produced very heavy rainfall rates with rainfall totals generally ranging from 3 to 9 inches. The peak storm total rainfall of 9.07 was recorded by a CoCoRaHS observer near Beaufort, SC. Daily record rainfall totals for September 11th were recorded at all 3 climate sites in the area: 5.51 at the Charleston International Airport (KCHS), 4.53 at Downtown Charleston (KCXM), and 4.74 at the Savannah-Hilton Head International Airport (KSAV). This widespread heavy rain resulted in several reports of flash flooding with water entering homes and businesses. Wind damage produced numerous power outages across the region with some damage to structures and numerous downed trees. The strongest winds were confined to coastal locations, but frequent gusts into the 40-50 mph range occurred well inland. The maximum sustained wind recorded was 59 mph by the Weatherflow site on the Folly Beach Pier (XFOL) and the maximum wind gust recorded was 76 mph by the Weatherflow site near Beaufort (XBUF). One fatality and 1 injury occurred from trees falling on homes and across roadways in southeast South Carolina. The entire southeast Georgia and southeast South Carolina coast was impacted by storm surge generally ranging from 3 to 6 feet. This storm surge produced numerous reports of 4 to 6 feet of inundation above ground level, mainly along the southeast South Carolina coast. A peak surge of 4.87 feet occurred at the Charleston Harbor tide gauge at 2:00 pm while a peak surge of 5.63 feet occurred at the Fort Pulaski tide gauge at 5:42 am. Significant beach erosion occurred at area beaches with widespread damage to docks and piers all along the coast, as well as numerous reports of inundated roadways.

According to data received from the Georgia Emergency Management Agency, total damages from Irma in southeast Georgia were \$29,150,000. This includes \$20,000,000 in Chatham County, \$2,900,000 in Liberty County, \$2,900,000 in McIntosh County, \$900,000 in Bryan County, \$900,000 in Bulloch County, \$300,000 in Effingham County, \$250,000 in Candler County, \$200,000 in Evans County, \$200,000 in Jenkins County, \$200,000 in Long County, \$200,000 in Screven County, and \$200,000 in Tatmall County. However, it should be noted that no explicit reports of damage from Irma were received from Effingham, Evans, or Screven counties. As such, no events were recorded in Storm Data for these counties. For all other counties, the total dollar damage amounts were divided equally across all Tropical Depression, Tropical Storm, and Storm Surge/Tide events.

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Killed Injured Crops Location Character of Storm

GEORGIA, Southwest

GAZ120>131-142> 148-155>161 Baker - Ben Hill - Berrien - Brooks - Calhoun - Clay - Colquitt - Cook - Decatur - Dougherty - Early - Grady - Irwin - Lanier - Lee - Lowndes - Miller - Mitchell - Quitman - Randolph - Seminole - Terrell - Thomas - Tift - Turner - Worth

10 2200EST 0 0 34.015M 20.0M Tropical Storm

11

Hurricane Irma brought numerous impacts to the Florida Big Bend, southwest Georgia and southeast Alabama including widespread downed trees and power lines, roads blocked by trees, power outages, and trees on homes. Two people died during the event - one due to a car crash (Liberty County, FL) and another that had a heart attack (Worth County, GA). Two indirect deaths occurred due to carbon monoxide from a generator (Taylor County, FL). While many counties across the Florida Big Bend and southwest Georgia were impacted, the greatest impacts were across the eastern portion of the area near the I-75 corridor. There were over 6.5 million customers without power in Florida, over 930,000 customers without power in Georgia, and over 45,000 customers without power in Alabama. Total damage cost for each county was estimated when figures were not available.

Seminole county reported \$150,000 in damage to structures, trees, and power lines. There were 42 evacuated locals and 74 evacuees from Florida.

Mitchell county reported 200 trees downed onto roadways and power lines. There was little known property damage. However, agricultural damage may have been significant to pecans and cotton.

Colquitt county reported 200 trees downed and many power lines downed resulting in road closures. Some trees fell on homes and one tree fell on a car. Half of the city of Moultrie lost power.

Lowndes county reported over 500 trees downed with 34 homes damaged and 60,000 customers without power. More than 5,000 pecan trees were destroyed. There was approximately 25,000 CY of vegetative debris on public and private property. The total estimated property losses were around \$9 million. Agricultural losses due to the pecan trees was estimated around \$12.5 million based on one pecan tree being values at around \$2500.

Tift county reported many trees and power lines downed and blocking roads including U.S. Highway 19.

Early county reported a peak wind gust of 63 mph at the EMA office.

Dougherty county reported widespread trees and power lines downed in the Albany area with many power outages and blocked roads. One tree fell on a car in the Shoreham apartment complex.

Worth county reported widespread trees and power lines down with damage to roofs and vehicles reported. Some large oak trees were among the trees toppled by the storm. A man died of a heart attack while sheltering in a homemade shelter. A sustained wind of 42 mph with a peak gust to 70 mph was measured at the EMA office.

Lanier county reported trees and power lines down across the county including a few large oak trees. Five trees were down on homes. The county sheltered 97 people.

Berrien county reported trees down across the county with power outages. There was one report of structural damage. In the city of Nashville, trees fell onto two residences causing significant roof damage.

Turner county reported trees and power lines down with roofs blown off several homes. Several barns were also blown down.

Decatur county reported trees and power lines down with Faceville Highway blocked.

Lee county reported many trees down across the county. Trees fell onto or into several mobile homes. Downed power lines blocked U.S. Highway 19. The city of Smithville had no potable water for a period of time from Monday into Tuesday.

Thomas county reported numerous traffic signals out. Downed trees on power lines left 750 residents without power.

Terrell county reported several power lines and large trees downed, damaging several homes. At least one home in Dawson was severely damaged by a large pecan tree.

Quitman county reported trees and power lines downed across the county. The estimated damage to the county was \$15,000.

Randolph county reported widespread trees and power lines down across the county. Forty percent of the county was without power. A two story house caught on fire from a downed tree on a line.

Miller county reported numerous trees and power lines down throughout the county. One house and one outbuilding fire occurred due to downed power lines.

Baker county reported trees and power lines down across the county. Approximately 2,400 people lost power.

Grady county reported more than 225 trees and power lines down across the county. Seven to eight homes sustained minor damage due to falling trees. Approximately 11,000 people were without power. A voluntary evacuation was ordered for mobile homes and approximately 550 people in the county evacuated.

Irwin county reported numerous trees and power lines down across the county. Eight homes sustained minor structural damage due to fallen trees. Approximately 70 people evacuated from their mobile homes. There was one indirect injury from the storm as one lineman was electrocuted.

		Time Local/	Path Length	Path Width	Numb Perso	ns	Dam		September
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
GEORGIA, Southwest									
									ures. These impacts lasted 4 to losed for the whole week.
	damage	e. Several roads	were washed	d out. Pow	er outages l				naged, including 2 with major with several thousand power
	Calhou couple	of days. A comp fort center. Ten	d numerous fort station w	trees and po as set up fo	ower lines d r people in i	mobile hon	nes to stay at	during the	re 250 power outages lasting storm, and 70 people stayed a siness in Arlington lost its roo
<u>HAWAII</u>									
HIZ013-021-024> 027	Big Isl Big Isl		Big Island	North an	d East - K	Kohala - L	eeward Ha	leakala -	Molokai Leeward - Sout
	01 30	0000HST 2359HST			0	0	0.00K	0.00K	Drought
		nditions continue Island were D3,			aii. Most ar	eas were in	n the D2 cate	gory of sev	ere drought, but small areas o
HIZ001>003-005> 006-012>014-016- 018>021-023>026	Makai	i - Leeward H	aleakala -	Maui Cen	tral Valle	y - Maui	Leeward V	Vest - Mo	- Kohala - Kona - Lana olokai Leeward - Moloka Windward Haleakala
	01	0700HST							
	03	1000HST			0	0	0.00K	0.00K	High Surf
		from the southe rts of significant				9 feet alon	g the south-fa	icing shores	s of all the islands. There were
Hawaii County	0.4	22201107							
1 SW Waikoloa Village 1 E Captain Cook	01 02	2320HST 0427HST			0	0	0.00K	0.00K	Heavy Rain
									cipitation caused small stream te were reported.
Hawaii County									
2 NNW Puuanahulu 3 ENE Captain Cook	09	1853HST 2116HST			0	0	0.00K	0.00K	Heavy Rain
		g showers fell ov e ditch flooding.							padways, and small stream an
Honolulu County									
1 WSW Punaluu Woodlawn	11	1500HST 1631HST			0	0	0.00K	0.00K	Heavy Rain
	Island.		oduced small			nerate heav			s of Oahu, Kauai, and the Bi dways. No serious injuries o
HIZ019	Maui	Central Valley	7						

Dry conditions developed over a small area in Maui's Central Valley. Severe drought, or the D2 level, was the result.

0

0.00K

0.00K

Drought

0200HST

2359HST

12

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Pers Killed	nber of sons Injured	Estim Dama Property		September 2017 Character of Storm
HAWAII									
Kauai County 1 NE Wailua 1 SE Kalaheo	14	1319HST 1610HST			0	0	0.00K	0.00K	Heavy Rain
Hawaii County 1 NW Kealakekua 5 S Kona Village Resort	14	1441HST 1708HST			0	0	0.00K	0.00K	Heavy Rain
		0			1 0		•		s of Oahu, Kauai, and the Big dways. No serious injuries or

property damage were reported.

HIZ019-024

Maui Central Valley - South Big Island

21	0515HST					
25	0200HST	0	0	0.00K	0.00K	Wildfire

A blaze charred 1645 acres of mainly dry brush in the Kau District on the Big Island of Hawaii. The fire did not threaten any homes or other structures, and its cause was not determined. No significant injuries were reported.

A fire burned about 100 acres of dry brush east of Kahului on the Valley Isle of Maui. The blaze began off the side of Haleakala Highway near North Firebreak Road and spread to a fallow sugar cane field. The cause of the fire was unknown. It did not threaten any homes or other structures, and there were no serious injuries reported.

A blaze scorched 215 acres of dry brush near Poipu on Kauai. The fire damaged heavy machinery, trucks, and other equipment stationed at a green waste base-yard. The cause of the fire was under investigation. There were no reports of significant

Another fire blackened about 100 acres of dry brush and other vegetation on the cliffs of Makana mountain on the North Shore of Kauai. The area was between Haena State Park and Limahuli Gardens. A fire-throwing ceremony to honor the longdistance voyaging vessel Hokulea was suspected in starting the blaze. No serious injuries or property damage were reported.

Hawaii County 3 WSW Waikoloa Village 4 NW Kamuela

2043HST 23 2243HST

0.00K0.00KHeavy Rain

An area of heavy showers developed over leeward Kohala on the Big Island of Hawaii. The precipitation caused ponding on roadways, and small stream and drainage ditch flooding. No significant property damage or injuries were reported.

HIZ002

Kauai Windward

24 25	1245HST 0015HST	0	0	20.0K	0.00K	Wildfire
25 27	2000HST 1700HST	0	0	0.00K	0.00 K	Wildfire

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		Time	Path	Path		mber of	Estin		September 201
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dam Property	age Crops	Character of Storm
HAWAII									
HIZ003	Kauai	Leeward							
	26	0200HST							
	30	2359HST			0	0	0.00K	0.00K	Drought
	A small Monitor		vard Kauai, l	acking susta	aining rain	fall, deterior	ated to the D	2 status of	severe drought in the Drought
HIZ013-021-024> 027	Big Isla Big Isla		- Big Island	d North ar	nd East -	Kohala - L	eeward Ha	leakala -	Molokai Leeward - South
	01	0000HST							
	30	2359HST			0	0	0.00K	0.00K	Drought
		ditions continuo Island were D3			aii. Most	areas were in	the D2 cate	gory of sev	ere drought, but small areas of
HIZ001>003-005> 006-012>014-016- 018>021-023>026	Makai	- Leeward H	[aleakala -	Maui Cer	ntral Val	ley - Maui	Leeward V	Vest - Mo	- Kohala - Kona - Lanai olokai Leeward - Molokai Windward Haleakala
	01	0700HST							
	03	1000HST			0	0	0.00K	0.00K	High Surf
		from the southerts of significant				to 9 feet alon	g the south-fa	ncing shores	s of all the islands. There were
Hawaii County									
1 SW Waikoloa Village 1 E Captain Cook	01 02	2320HST 0427HST			0	0	0.00K	0.00K	Heavy Rain
									cipitation caused small stream e were reported.
Hawaii County 2 NNW Puuanahulu 3 ENE Captain Cook	09	1853HST 2116HST			0	0	0.00K	0.00K	Heavy Rain
		showers fell over ditch flooding							padways, and small stream and
Honolulu County									
1 WSW Punaluu Woodlawn	11	1500HST 1631HST			0	0	0.00K	0.00K	Heavy Rain
	Island.		oduced smal						s of Oahu, Kauai, and the Big dways. No serious injuries or
HIZ019	Maui (Central Valley	y						
	12 30	0200HST 2359HST			0	0	0.00K	0.00K	Drought
	Dry con	ditions develope	ed over a sma	all area in M	aui's Centr	al Valley. So	evere drought	, or the D2	level, was the result.
Kauai County 1 NE Wailua 1 SE Kalaheo	14	1319HST 1610HST			0	0	0.00K	0.00K	Heavy Rain
Hawaii County 1 NW Kealakekua 5 S Kona Village Resort	14	1441HST 1708HST			0	0	0.00K	0.00K	Heavy Rain

		Time	Path	Path	Nun	nber of	Estima	ated	September 2017
		Local/	Length	Width	Persons D		Damag	ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

HAWAII

With a light wind regime, sea breeze conditions helped generate heavy showers over sections of Oahu, Kauai, and the Big Island. The rainfall produced small stream and drainage ditch flooding, and ponding on roadways. No serious injuries or property damage were reported.

HIZ019-024

Maui Central Valley - South Big Island

21	0515HST					
25	0200HST	0	0	0.00K	0.00K	Wildfire

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Hawaii County 3 WSW Waikoloa Village

4 NW Kamuela

23	2043HST					
	2243HST	0	0	0.00K	0.00K	Heavy Rain

An area of heavy showers developed over leeward Kohala on the Big Island of Hawaii. The precipitation caused ponding on roadways, and small stream and drainage ditch flooding. No significant property damage or injuries were reported.

HIZ002

Kauai Windward

24 25	1245HST 0015HST	0	0	20.0K	0.00K	Wildfire
25 27	2000HST 1700HST	0	0	0.00K	0.00K	Wildfire

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HIZ003

Kauai Leeward

26	0200HST					
30	2359HST	0	0	0.00K	0.00K	Drought

A small portion of leeward Kauai, lacking sustaining rainfall, deteriorated to the D2 status of severe drought in the Drought Monitor.

		Time Local/	Path Length	Path Width	Num Perso	iber of	Estin Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
IDAHO, North									
IDZ010	Easter	n Lemhi Coun	ıty						
	15	0600MST 2300MST			0	0	0.00K	0.00K	Heavy Snow
	6000 fee	et across the Nor	thern Rockie	es impacting	g back-cour	itry hunters	, wildfire crev	ws and trave	nd snow accumulations above el across mountain passes. The greater than normal impacts.
	24	0400MST 0800MST			0	0	0.00K	0.00K	Frost/Freeze
	Sub-free	zing temperature	es were repo	rted in the S	almon area	which is the	e largest popu	lation cente	er in Lemhi County, Idaho.
IDAHO, Northwest									
IDZ001>004-026> 027		al Panhandle ern Panhand					and South	ern Nez	Perce - Lewiston Area -
	04 08	1000PST 0600PST			0	0	0.00K	0.00K	Dense Smoke
	4th thro of this p outdoor	agh the 8th. Air eriod, with loca	Quality sense l reports of a ctivities. A w	ors through Hazardous	out north Id air quality.	aho recorde Public Hea	d Unhealthy a lth Advisorie	and Very Un s were issu	ed north Idaho from September nhealthy readings during much ed by state authorities to limit e the region and partially clear
IDAHO, Southeast									
Lincoln County 8 N Shoshone	30	1445MST 1500MST			0	0	0.00K	0.00K	Funnel Cloud
	funnel p A thund	rovided by a Tw	in Falls telev Shoshone co	vision meteo reated a fun	orologist. nel cloud at			•	er 30th with photographs of the er 30th with photographs of the
ILLINOIS, Central									
Sangamon County 2 N Beamington	04	1538CST 1543CST			0	0	0.00K	0.00K	Hail (0.88)
Sangamon County 2 SSE Toronto	04	1540CST 1545CST			0	0	0.00K	0.00K	Hail (1.00)
Macon County Mt Zion	04	1626CST 1631CST			0	0	0.00K	0.00K	Hail (1.25)
Macon County Mt Zion	04	1626CST 1631CST			0	0	0.00K	0.00K	Hail (1.00)
Macon County Long Creek	04	1628CST 1633CST			0	0	0.00K	0.00K	Hail (1.00)

		Time	Path	Path	Numb		Estim		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso: Killed	ns Injured	Dama Property	ge Crops	Character of Storm
ILLINOIS, Central									
Champaign County 1 N Sidney	04	1650CST 1655CST			0	0	0.00K	0.00K	Hail (0.75)
	early eve		ber 4th. The	storms wer	re mainly co	ncentrated	along the I-72		s during the late afternoon and com Springfield to Champaign.
ILLINOIS, South									
Franklin County Thompsonville	04	2120CST			0	0	0.00K	0.00K	Hail (1.00)
Williamson County Spillertown	04	2140CST			0	0	0.00K	0.00K	Hail (0.75)
Saline County Galatia	04	2142CST			0	0	0.00K	0.00K	Hail (0.75)
Saline County Carriers Mills	04	2220CST			0	0	0.00K	0.00K	Hail (0.88)
Alexander County Olive Branch	05	0410CST			0	0	0.00K	0.00K	Hail (0.75)
Pulaski County 3 E Villa Ridge	produced		a few repor	ts of large h	ail. The atm	osphere rei	mained moder	ately unsta	Hail (1.25) ern Illinois. Some of the storms able through the early morning northwest.
ILZ075-080-084- 088-092	Alexand	ler - Franklir	ı - Jackson	- Jefferso	on - Perry -	Union			
000 002	14	0500CST 0800CST			0	0	0.00K	0.00K	Dense Fog
	mile or le	ess. The dense on the back sid	fog was mai	inly along a	and west of l	Interstate 5	7, including l	Mount Ver	lity was reduced to one-quarter non and Cairo. The dense fog flow of humid air contributed
Jackson County 1 W Carbondale	18 A report	1933CST of golf ball size	hail in west	Carbondale	0 was relayed	0 by a local	television stat	ion.	Hail (1.75)
Jackson County 3 ESE Murphysboro	18	1937CST			0	0	0.00K	0.00K	Hail (1.00)
Jackson County De Soto		1951CST ed severe thund air mass ahead					0.00K e area. The st	0.00K orm occur	Hail (1.00) red in a moist and moderately
ILLINOIS, Southwest Macoupin County 4 W Standard City	04	1608CST 1614CST			0	0	0.00K	0.00K	Hail (1.50)
Macoupin County 1 SSW Macoupin Station	04 Golfball	1645CST sized hail was re	eported at Be	eaver Dam S	0 State Park.	0	0.00K	0.00K	Hail (1.75)

		Time Local/	Path Length	Path Width		mber of sons	Estim Dama		September 20
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ILLINOIS, Southwest									
Montgomery County Litchfield Muni Arpt	04 Note: 7	1715CST The measured wi	nd gust of 50	0 knots is eq	0 aivalent to	0 58 mph.	0.00K	0.00K	Thunderstorm Wind (50MG
Macoupin County 1 N Bunker Hill	04	1727CST 1733CST			0	0	0.00K	0.00K	Hail (2.00)
Madison County Wood River	04	1759CST			0	0	0.00K	0.00K	Hail (0.88)
Madison County Wood River	04 Thunde	1805CST rstorm winds ca	used minor d	lamage to a s	0 store as deb	0 oris was blow	0.00K around, incl	0.00K luding shop	Thunderstorm Wind (52EG) pping carts.
	Note: T	The estimated wi	nd gust of 52	2 knots is eq	uivalent to	60 mph.			
St. Clair County 1 WNW Lebanon	04 Thunde	1845CST rstorm winds blo	ew down sev	eral power li	0 nes around	0 d town.	0.00K	0.00K	Thunderstorm Wind (52EG
	Note: T	The estimated wi	nd gust of 52	2 knots is eq	uivalent to	60 mph.			
Clinton County Trenton	04 Thunde	1847CST rstorm winds blo	ew down two	trees blocki	0 ng a road i	0 in the city.	0.00K	0.00K	Thunderstorm Wind (52EG
									me of the storms were severe quivalent to 60 mph.
NDIANA, Central									
Howard County 6 WSW Kappa Corner	04 A tree v Twitter		wn across Co	ounty Road	0 1250 West	0 due to dama	1.00K aging thunders	0.00K storm wind	Thunderstorm Wind (52EG gusts. Report was relayed via
	Note: 7	The estimated wi	nd gust of 52	2 knots is eq	uivalent to	60 mph.			
Delaware County 1 NNW Muncie	04	2005EST 2007EST			0	0		0.00K	Hail (0.75)
Randolph County 2 SE Windsor	04 An estin	2040EST mated 60 mph th	understorm	wind gust wa	0 as observed	0 1 in this locat	ion.		Thunderstorm Wind (52EG
	central		he evening h	nours of Sept	ember the	4th. A coupl	e storms with		through northern portions of produced damaging wind and
NDIANA, Northeast									
Kosciusko County 1 E Enchanted Hills	19	0500EST 0501EST			0	0	75.00K	0.00K	Lightning
	Shortly	nts of a home or	as noted and	the resident	ike Wawas s evacuate	see reported a	a loud crack a	around 6 aı	Lightning n EDT during a thunderston ne with the greatest damage

the second story and garage areas. Damage is estimated at around \$75,000.

An area of non-severe thunderstorms moved across northern Indiana during the early morning hours of the 19th. A few of the storms produced frequent lightning that struck at least one home.

		Time Local/	Path Length	Path Width		nber of sons	Estim Dama		September 201			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm			
IOWA, Central												
Crawford County												
5 SSE Vail	15	0535CST			0	0	20.00K	0.00K	Thunderstorm Wind (50EG)			
	_	was done to ou	_				h with one st	orm produ	icing some wind damage to a			
									ivalent to 58 mph.			
Adair County												
Fontanelle	16	2145CST										
	17	0100CST			0	0	0.00K	0.00K	Heavy Rain			
	Public re	eported heavy r	ainfall of 3.30) inches stor	rm total.							
		A fairly typical cold frontal passage moved through Iowa during the evening of the 16th and into the 17th of September. The antecedent conditions were generally temperatures in the mid to upper 70s, dew points in the upper 60s, resulting in MUCAPE										
									ed for and resulting in MUCAPE			
	progress	sive storms with	the cold from	nt ushering	them throu	gh, but with	flow parallel t	o the front	, storms were able to train over			
	areas 101	r a short while.	No severe w	eatner was	reported, b	ut neavy rain	itali did occur	•				
Wapello County												
2 NE Rutledge	20	2145CST										
	21	0328CST			0	0	0.00K	0.00K	Heavy Rain			
	A person	nal weather stat	ion on the SV	V side of Ot	tumwa reco	orded heavy i	rainfall of 5.30) inches.				
Wapello County												
2 NE Rutledge	20 21	2145CST			0	0	0.0017	0.0017	и в			
	21	0533CST			0	0	0.00K	0.00K	Heavy Rain			
	Personal	l weather station	n recorded he	avy rainfall	of 6.08 inc	hes on the S'	W side of Ottu	ımwa.				
Wapello County 1 SW Ottumwa	20	21.45.000										
1 SW Ottumwa	20 21	2145CST 0520CST			0	0	0.00K	0.00K	Heavy Rain			
								0100-				
	River ga	ige along the Do	es Moines riv	er measured	l heavy rair	ıfall of 6.20 i	nches.					
	During	the day of the	20th, a cold f	ront made i	its way sou	thward thro	ugh Iowa befo	ore stalling	g out during the evening of the			
									APE environment of 1000-2000 ne received the heaviest rainfall			
		to east from ro					ei oi nouis. I	ne areas u	ie received the heaviest rannan			
D. II. G												
Dallas County 2 WSW De Soto	25	1230CST										
2 WSW De Solo	23	1900CST			0	0	0.00K	0.00K	Heavy Rain			
	D11:		4-11) :1 14	E11	1 D - C - 4	_				
	Public fo	eported storm to	otai neavy ran	man or 2.00	menes bet	ween Earma	iii and De Sou).				
Webster County												
1 S Dayton	25	1300CST										
		1930CST			0	0	0.00K	0.00K	Heavy Rain			
	Public re	eported storm to	otal heavy rain	nfall of 3.00) inches.							
Polk County	1 40110 1	eponed storm to	yuu nouvy run	01 0.00	, 111011031							
1 NW Clive	25	1315CST										
		1930CST			0	0	0.00K	0.00K	Heavy Rain			
	Public re	eported storm to	otal heavy rais	nfall of 3.50) inches nea	r 128th and	Meredith in II	rhandale				
	1 done it	-roma storm to	1 1111	01 3.30		120th and		- Juniouit.				
Polk County												
Polk City	25	1330CST										
		1930CST			0	0	0.00K	0.00K	Heavy Rain			

Public reported storm total heavy rainfall of 3.47 inches.

		Time Local/	Path Length	Path Width		nber of	Estim Dama	ge	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
IOWA, Central									
Dallas County 2 S Hadden Hill	25	1415CST 2000CST			0	0	0.00K	0.00K	Heavy Rain
	Trained	spotter reported	storm total l	neavy rainfal	1 of 2.10 ii	nches.			
Polk County Oralabor	25	1415CST 1930CST	tal haayy rai	nfall of 2.50	0	0	0.00K	0.00K	Heavy Rain
	Public re	eported storm to	iai neavy rai	man oi 2.30	menes on	the west side	of Alikelly.		
Polk County 1 E Alleman	25	1430CST 1930CST			0	0	0.00K	0.00K	Heavy Rain
	Public re	eported storm to	tal heavy rai	nfall of 2.60	inches.				
Madison County 1 NE St Charles	25	1500CST 1900CST			0	0	0.00K	0.00K	Heavy Rain
	Public re	eported heavy ra	ainfall of 2.00	0 inches.					
Hardin County 2 E Iowa Falls	Time an	1521CST eported wind da d location estimated wi	ated based of	on radar.			10.00K aches and pov	0.00K ver pole da	Thunderstorm Wind (56EG) mage. This is a delayed report.
Butler County									
Clarksville	25	1600CST 2145CST			0	0	0.00K	0.00K	Heavy Rain
	A slow is slow mot over period of	oving nature, it was ely conducive for of time. Otherway e air mass, and	ont worked in was a decent or severe weak wise, the over	ts way acros setup for ar ather, a clust rall setup p	s Iowa fro eas to see er of storn roduced tr	repeated roun ns near Iowa aining storms	nds of rainfall Falls was abl s and heavy r	. While the to production that	4th through the 26th. With its e convective environment was ce damaging winds for a short nks to the slow moving front, eived in excess of 3 inches of
IOWA, East Central and So	outheast								
Scott County 1 SE Blue Grass	20	1841CST			0	0	0.00K	0.00K	Hail (0.75)
Scott County 2 NNW Davenport	20	1902CST			0	0	0.00K	0.00K	Hail (0.75)
Scott County 2 NNW Davenport	20 A local s	1936CST state official rep	orted a large	tree down o	0 n Kirkwoo	0 d Blvd. Time	0.00K of the event	0.00K was estima	Thunderstorm Wind (52EG) ted using radar.

Local law enforcement reported vehicles stalled due to water up to the doors at the intersections of Fairmount and Locust Streets, and Clark and Denison Streets.

0.00K

0.00K

Flash Flood

A cold front passed across the region replacing record warm and moist air. Thunderstorms produced by the cold front produced isolated severe storms of damaging winds, hail and locally heavy rainfall and flash flooding.

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

Scott County

4 WSW Davenport Arpt

1 NE Credit Island

21

0044CST

0344CST

		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage		September 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
IOWA, Northeast										
IAZ011	Allamakee									
	12	0600CST								
	30	2359CST			0	0	0.00K	0.00K	Drought	
	Persistent below normal precipitation since July 2017 allowed severe drought conditions to develop across portions of northeast Iowa, including Allamakee County. These conditions continued into October 2017.									
	10ma, metading Anamarce County. These conditions continued into October 2017.									
IAZ010	Winnes	shiek								
	19	0600CST								
	30	2359CST			0	0	0.00K	0.00K	Drought	
	Persistent below normal precipitation since July 2017 allowed severe drought conditions to expand across portions of northeast Iowa. By late September, the drought conditions also covered a portion of northeast Winneshiek County. These conditions continued into October 2017.									
KANSAS, East										
Jefferson County										
1 E McLouth	16	2135CST 2136CST			0	0			Hail (1.00)	
		2130031			O	O			Haii (1.00)	
Ottawa County 1 W Culver	10	1642CCT								
1 w Cuiver	18	1643CST 1644CST			0	0			Hail (1.75)	
Ottawa County 1 W Culver	18	1643CST								
		1644CST			0	0			Thunderstorm Wind (56EG)	
	Reports of tree limbs down. Sizes were unknown. Wind gust was estimated.									
	Note: The estimated wind gust of 56 knots is equivalent to 64 mph.									
Ottawa County	1,000, 17	no ostiniatod wil	au gust of s	<i>y</i> 1111013 13 0 4	ar varont to					
4 ENE Culver	18	1645CST			0	0			11-:1 (0.99)	
		1646CST			0	0			Hail (0.88)	
	An abnormally benign weather pattern in September resulted in only a few severe weather reports during mid-September.									
KANSAS, Extreme Southeas	· t									
Cherokee County	<u>.</u>									
1 W Columbus	16	1645CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
		There were small tree limbs blown down in Columbus. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.								
Cherokee County			_	_						
1 N Weir	16 There wa	1652CST	ees and som	e power line	0 s blown d	0 own in Weir	2.00K	0.00K	Thunderstorm Wind (52EG)	
	There was a couple of trees and some power lines blown down in Weir.									
	An isolated severe storm produced a couple reports of wind damage. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.									
KANSAS, Northwest										
Rawlins County										
McDonald	13	1430CST			0	0	0.00K	0.00K	Hail (0.88)	
Rawlins County McDonald	13	1430CST			0	0	3.00K	0.00K	Thunderstorm Wind (74EG)	
	A power line was blown down and three six inch diameter tree limbs, along with several smaller limbs, were broken off. At the baseball field, the roof of one of the dugouts was blown off and landed about a block away.									
	A thunderstorm over McDonald produced nickel size hail and damaged some structures in town from the straight-line wind Note: The estimated wind gust of 74 knots is equivalent to 85 mph.								n from the straight-line winds.	

Location		Time Local/	Path	Path Width	Number of Persons		Estimated Damage		September 2017	
	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
KANSAS, Northwest										
Norton County 10 NNE Reager	15 Hail up t	1905CST to nickel size wa	s reported no	ortheast of N	0 Norcatur.	0	0.00K	0.00K	Hail (0.88)	
KANSAS, Southeast										
Elk County 14 NNE Longton	16	1417CST 1419CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
	Also had half inch diameter hail with the wind. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.									
Wilson County Fredonia	16	1433CST 1434CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
	Several trees were blown down in town. Note: The estimated wind gust of 56 knots is equivalent to 64 mph.									
Neosho County 1 W (CNU)Johnson Arpt Ch	16 Note: Ti	1451CST 1453CST he measured wir	nd gust of 51	knots is eq	0 uivalent to	0 59 mph.	0.00K	0.00K	Thunderstorm Wind (51MG)	
Neosho County 1 SE Chanute	16	1454CST 1456CST	C	•	0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
	Wind ranged between 50 and 60 mph. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.									
Chautauqua County Sedan	16	1500CST 1505CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
									ility pole was leaning over and ut of the businesses downtown.	
	Note: T	he estimated wir	nd gust of 56	knots is eq	uivalent to	64 mph.				
Chautauqua County 4 WSW Hale	16	1510CST 1512CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
	Three 18 to 24 inch trees were blown down. Note: The estimated wind gust of 56 knots is equivalent to 64 mph.									
Chautauqua County Chautauqua	16	1512CST 1514CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
	An 8 inch diameter tree limb was blown down. Note: The estimated wind gust of 56 knots is equivalent to 64 mph.									
Chautauqua County Chautauqua	16	1512CST 1514CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
	An 8 inch diameter tree limb was blown down. Note: The estimated wind gust of 56 knots is equivalent to 64 mph.									

	Time Path Path Number of Local/ Length Width Persons		Estim		September 2017				
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dama Property	ge Crops	Character of Storm
KANSAS, Southeast									
Allen County									
1 NNE Iola	16	1515CST			0	0	0.0017	0.0017	T 1 (W' 1/56EC)
		1517CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	•	r pole was blow							
	Note: 1	he estimated wi	nd gust of 56						
Montgomery County 6 S Elk City	16	1524CST							
o o zan eng	10	1526CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	Winds v	vere estimated b	v a trained sr	ootter.					
		he estimated wi			uivalent to	60 mph.			
Montgomery County									
1 NE Havana	16	1526CST			0	0	0.0017	0.0017	Thomas 4. 1. 1. (70FC)
		1528CST			0	0	0.00K	0.00K	Thunderstorm Wind (70EG)
	The win	d gusts ranged f	from 70 TO 8	0 mph. Rep	ort came i	from a broadc	ast media par	tner in Kan	sas City via social media.
	Note: T	he estimated wi	nd gust of 70	knots is equ	uivalent to	81 mph.			
Labette County				•		•			
1 S Parsons	16	1610CST							
		1612CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		vere estimated b							
	Note: T	he estimated wi	nd gust of 52	knots is equ	uivalent to	60 mph.			
Labette County 1 WSW Parsons	16	1616CST							
1 WSW 1 arsons	10	1618CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	Power li	nes were blown	down on the	west side o	f town				
		he estimated wi				64 mph.			
Mcpherson County									
4 NE Inman	16	1911CST 1912CST			0	0	0.00K	0.001/	H-:1 (1 00)
		1912CS1			U	U	0.00K	0.00K	Hail (1.00)
Marion County									
5 NW Durham	16	1911CST			0	0	0.0017	0.0017	II-:1 (0.75)
		1912CST			0	0	0.00K	0.00K	Hail (0.75)
Allen County									
Moran	17	0700CST			0	0	0.0017	0.0017	и в
		0701CST			0	0	0.00K	0.00K	Heavy Rain
	Rain fal	l amount over th	ne previous 24	4 hours.					
Labette County									
1 W Mound Vly	17	0915CST 1302CST			0	0	0.00K	0.00K	Flood
	***			*** 1					
	Water w	as reported to b	e running acr	oss Highwa	y 160.				
Montgomery County Coffeyville Arpt	18	0600CST							
concy the Aipt	10	0601CST			0	0	0.00K	0.00K	Heavy Rain
	Rain fal	l amount for the	previous 24	hours					
					ansas caus	sing damage t	o trees and n	ower lines	. A few hail reports were also

oted.

Winds up to 80 mph moved across southern Kansas causing damage to trees and power lines. A few hail reports were also noted.

		Time Local/	Path Length	Path Width	Num Perso	ons	Estim Dama	ge	September 20
ocation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ANSAS, Southeast									
Lincoln County 3 N Beverly	18	1615CST 1617CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	E-timeter	1 : 1	1 1	50 1 60	1.				
Saline County	A high w	d wind gust ranging wind report was not to 60 mph.				ross the co	anty. Note:	Γhe estima	ated wind gust of 52 knots is
1 WSW Salina	18	1840CST 1841CST			0	0	0.00K	0.00K	Hail (1.50)
	Winds up	to 80 mph m	oved across	southern K	ansas causii	ng damage t	to trees and p	ower lines	. A few hail reports were also
Sedgwick County 1 N Clearwater	25	1232CST							
		1234CST			0	0	0.00K	0.00K	Thunderstorm Wind (57MG
	_	was measured l e measured wi	•			66 mph.			
Sedgwick County									
3 NNE (ICT)Wichita Arpt	25	1245CST 1247CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG
		diameter limb							
	Note: Th	e estimated wir	nd gust of 52	knots is eq	uivalent to 6	00 mph.			
Sedgwick County 3 NNE (ICT)Wichita Arpt	25	1245CST							
r (- 0 -)		1246CST			0	0	0.00K	0.00K	Thunderstorm Wind (52MC
	On the a		e 25th, a sev						ck County, more specifically sured wind gust of 52 knots is
Reno County 3 ESE Sylvia	25	1826CST							
3 ESE Sylvia	26	0953CST			0	0	0.00K	0.00K	Flood
	Olcott Rd	l. was closed be	etween Red I	Rock and Lo	ngview Rds	due to high	water.		
Kingman County									
2 N Nashville	25	1939CST 1940CST			0	0	0.00K	0.00K	Heavy Rain
	This was		to this point	. Though no	t reported, f	looding sho	uld have occu	rred. The tl	nreat for additional heavy rain
	On the ex Southwes	vening of the 2s st Kingman Co	ounty, 5.10	inches were	measured	3 miles nor	th of Nashvil	le. The on	Kingman Counties. In extreme ly flooding that was reported Kingman County as well.
ANSAS, Southwest									
Finney County 1 ESE (GCK)Garden City Arpt	: 01	2110CST			0	0			Hail (1.00)
Stevens County									
2 NW Hugoton									Thunderstorm Wind (48M0 ding from the great lakes into heast by the afternoon. A few

mph.

	Time Path Path Number of Local/ Length Width Persons	of Estimated Damage		September 2017					
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed	ns Injured	Dama Property	rge Crops	Character of Storm
KANSAS, Southwest									
Morton County 2 N Elkhart	A strong Meanwh		w that move el ridge ren	ed into the nained center	ered over the	Southern 1	Plains. Weak	disturbanc	Hail (0.75) rd into the Northern Rockies. es around the periphery of the
Ellis County 1 NW Ellis			_	•		0 ave trough	0.00K helped to pro	0.00K	Heavy Rain ered thunderstorms late in the
Scott County 6 SSW Grigston	24	1740CST			0	0			Hail (0.75)
Scott County 7 E Shallow Water	24 Most of	1744CST the hail was sma	ıller than qua	arter sized.	0	0			Hail (1.00)
Scott County 7 E Shallow Water	24 Note: T	1744CST he measured wir	nd gust of 59	knots is eq	0 uivalent to 68	0 8 mph.			Thunderstorm Wind (59MG)
Scott County 1 SW Grigston	Unstable	1745CST ged hail fell during a air with MLC severe around s	APE of aro	und 1500 J					Thunderstorm Wind (52EG) ts was enough to help storms 50 mph.
Pratt County 1 NW Preston	25	1238CST 1638CST			0	0	0.00K	0.00K	Flash Flood
Pratt County 1 N Preston	25	as around six ind 1410CST 1810CST as over highway			0 ring three hor	0 nes with wa	0.00K ater encroachi	0.00K ng on the 4	Flash Flood th home.
Barber County 7 WSW Medicine Lodge	25	1420CST 2320CST			0	0	0.00K	0.00K	Flood
Barber County 1 W Medicine Lodge	Water w	as reported over 1509CST 2309CST	a few of the	roads.	0	0	0.00K	0.00K	Flood
Pratt County 3 E Preston	25 26	as significant str 1800CST 0830CST	eet flooding.		0	0	0.00K	0.00K	Heavy Rain
			•				helped to pro	duce scatte	ered thunderstorms late in the

		Time Local/	Path Length	Path Width	Perso		Estim Dama	ige		eptember 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
KENTUCKY , Central										
Simpson County 1 N Neosheo	01 Local law	0107CST v enforcement i	reported that	Kentucky F	0 Highway 100	0 at mile ma	0.00K rker 16 was cl	0.00K osed due to	Flash Flood high water over the	bridge.
Logan County 2 NW Auburn	01 Local law	0242CST v enforcement i	reported Higl	hway 103 no	0 ear Lashley l	0 Road near A	0.00K Auburn was im	0.00K apassable d	Flash Flood ue to high water.	
Simpson County 2 E Highland Franklin Whak Arpt		0306CST v enforcement that multiple cl							Flash Flood ed due to high water. well.	Highway
Simpson County 1 W Franklin	01 The Simp	0518CST	nergency Ma	anager repo	0 rted numero	0	0.00K	0.00K	Flash Flood bassable due to high v	vater. The
Hart County 1 E Horse Cave	01 The Hart flood wa		gency Manag	ger reported	0 that a water	0 rescue was	10.00Ks performed in	0.00K Horse Cav	Flash Flood ve after a vehicle stal	led out in
Barren County 2 SE Glasgow	01 State offi	0652CST cials reported t	hat one wate	r rescue was	0 s performed	0 along Burke	10.00K esville Road n	0.00K ear Siloam	Flash Flood Road.	
Barren County 1 N Glasgow	01 The Barro	0715CST en County Eme	ergency Mana	ager reporte	0 d a car was s	0 submerged i	10.00K in flood water	0.00K s on Shamr	Flash Flood ock Court.	
Logan County 2 WSW Russellville	01 State offi	0715CST cials reported a	ı water rescu	e and evacu	0 ation took pl	0 lace from a	10.00K duplex on Em	0.00K erson Bypa	Flash Flood ass.	
Metcalfe County 1 W Edmonton	01 Metcalfe	0730CST officials report	ed several ro	oads closed	0 due to floodi	ong.	0.00K	0.00K	Flash Flood	
Logan County 1 S Halo	01 State offi	0740CST cials reported a	ı water rescu	e of a perso	0 n trapped in	0 a vehicle or	10.00K n Stevenson M	0.00K Iill Road.	Flash Flood	
Metcalfe County 1 W Edmonton	01 An anima	0830CST	be evacuate	ed due to ris	0 ing flood wa	0 ter.	0.00K	0.00K	Flash Flood	

Powerful and slow moving Hurricane Harvey made landfall along the Texas Gulf Coast as a Category 4 hurricane. After the storm stalled along the coast, producing extreme and unprecedented amounts of rainfall along the Texas and Louisiana coasts that resulted in catastrophic flooding in the Houston metro area. The system then lifted toward the Tennessee and lower Ohio River Valleys on Friday September 1. Heavy rain spread across central Kentucky with amounts ranging from 4 to 6 inches. There were localized amounts of 7 to 8 inches across Warren, Barren, Allen, Simpson, and Logan counties. Many roads became flooded with high water and there were reports of high water rescues performed.

		Time Local/	Path Langth	Path Width	Num Pers	iber of	Estim Dama		September 2017
Location	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
KENTUCKY, Southwest									
Todd County									
2 WSW Guthrie	01	0347CST							
3 S South Zion		1200CST			0	0	350.00K	0.00K	Flash Flood
									ooding before sunrise. Rescue
									businesses were flooded in the
									feet of water covered the low- ed traffic, but the roads were
	passable	e. All county sch	nools were c	closed due to	flooding.	A storm tota	al rainfall of 7	.81 inches	was reported at the Kentucky
		t site five miles stail, and Snow) n						I. A Cocora	ahs (Community Collaborative
	144111, 11	, und 5110 11 11	erwork oose	arver in Guin	iro mousur	ou //10 mon			
Mahlankana Cameta									
Muhlenberg County Paradise	03	0500CST							
	05	2100CST			0	0	0.00K	0.00K	Flood
	Minor f	looding occurred	on the Gree	en River I o	v-lying wo	ods and field	le were inunds	nted	
	WIIIOI I	looding occurred	on the orec	II KIVCI. LO	w-iying wo	ous and nere	is were munda	iicu.	
									e region of western Kentucky.
									ed catastrophic flooding over ortheast through the Tennessee
	Valley	as a tropical dep	pression. Se	veral bands	of heavy r	ain moved	north from Te	ennessee th	rough Todd and Muhlenberg
		es in Kentucky. Aberg County.	Around 8 inc	ches of rain	fell in south	hern Todd C	County. Minor	flooding o	occurred on the Green River in
McCracken County	1,14111011	oeig county.							
3 WNW Lamont	05	0500CST							
	03	0505CST			0	0	0.00K	0.00K	Hail (1.25)
	Ouarter	to half-dollar siz	e hail fell in	extreme we	stern McCr	acken Coun	ty near the Ba	llard Count	v line.
	Quarter	to hair donar siz	e nan ien m	cationic we	stern wie er	acken coun	ty near the Bu	nara coun	y mie.
Christian County									
2 N Hopkinsville	05	0802CST			0	0	0.00K	0.00K	Hail (0.75)
									er Ohio Valley. The strongest tely unstable through the early
									from the northwest.
LOUISIANA, Northwest									
Union Parish	05	1630CST			0	0	0.0017	0.0017	There do not a way Wind (50EC)
5 WNW Bernice	05 A tree v	vas blown down	in the Weldo	on communit	0 .v.	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		The estimated win			•	60 mph.			
Union Parish									
3 NNW Farmerville	05	1645CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		vas blown down							
~	Note: 1	The estimated win	nd gust of 52	2 knots is equ	iivalent to 6	50 mph.			
Caddo Parish	05	1653CST			0	0	0.0017	0.0017	11-:1 (1.00)
1 NE Mooringsport	05 Quarter	size hail fell in I	Mooringspor	t.	0	0	0.00K	0.00K	Hail (1.00)
Union Parish									
4 SW Farmerville Arpt	05	1705CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	Trees a	nd power lines w	ere blown do	own on Mos	eley Bluff I	Road near Hi	ighway 15 nea	r the Boy S	Scout Camp.
	Note: 7	The estimated win	nd gust of 56	6 knots is equ	ivalent to 6	64 mph.			
Union Parish				1					
3 NW Rocky Branch	05	1715CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		vas blown down	-			-0 -			
	Note: T	The estimated win	nd gust of 52	2 knots is equ	ivalent to 6	50 mph.			

		Time Local/	Path Length	Path Width	Numb Person		Estim Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
LOUISIANA, Northwest									
Caddo Parish 2 SE La Chute		1803CST cy fence was blo cy Academy in ex						0.00K of at the Cad	Thunderstorm Wind (56EG) ddo Parish's Sheriff's Regional
	Plains de extreme instabilit and thun forcing across po	uring the late n Northeast Texa ty developed alcorderstorms duri- was strongest a ortions of North	norning hours during the long and ahea and the late a head of the lawest and No	rs of Septem mid and late and of the from fternoon and trough. Som orthcentral L	aber 5th. The afternoon, but, with incred evening acte of these souisiana. The	e accompa before mo asing from ross South torms bec ese storms	anying cold fr ving into North tal convergence hwest Arkansa ame severe, res s began to dim	ont moved h Louisiana ce yielding s and North esulting in cinish by mice	Midwest and Central/Southern into Southwest Arkansas and during the evening. Moderate scattered to numerous showers a Louisiana, where large scale downed trees and power lines d to late evening as cooler and knots is equivalent to 64 mph.
LOUISIANA, Southwest									
Cameron Parish 7 SW Sabine Lake	01 07	0000CST 2359CST			0	0	0.00K	0.00K	Flood
	depth in	some locations	was around	waist deep a	and kept res	idents awa	ay from their h	omes durin	drained toward the gulf. Water g the first week of September. you and Port Arthur.
		from heavy rai							ron Parish. Several secondary
MAINE, North									
Penobscot County Glenburn	05 Several t	1855EST trees were toppl	ed or snappe	d around tov	0 vn by wind g	0 gusts estim	nated at 60 mpl	n. The time i	Thunderstorm Wind (52EG) is estimated.
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	ivalent to 60) mph.			
Penobscot County Old Town	05 Some ha	1900EST iil possibly large	er than an inc	ch. The time	0 is estimated	0			Hail (1.00)
Penobscot County									
Old Town	time is e	stimated.			-	_		_	Thunderstorm Wind (52EG) r lines were also downed. The
									moving cold front. An isolated ust of 52 knots is equivalent to
Aroostook County 3 SW Allagash	27	1805EST trees were toppl	ed south of t	he Allagash	0 Gate by win	0 d gusts est	timated at 60 n	nph. The tim	Thunderstorm Wind (52EG) ne is estimated.
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	ivalent to 60) mph.			
Aroostook County 2 ESE Mc Nally	27 Several t	1844EST trees were toppl	ed along Rou	ute 11 near S	0 oucy Hill by	0 wind gus	ets estimated at	60 mph. Th	Thunderstorm Wind (52EG) ne time is estimated.
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 60) mph.			
Penobscot County 11 W Augustine Pond Arpt	27 Several t	1850EST trees were toppl	ed near the N	Aatagamon V	0 Wilderness C	0 Campgrour	nd by wind gus	ts estimated	Thunderstorm Wind (52EG) at 60 mph.
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	ivalent to 60) mph.			

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		umber of ersons Injured	Estin Dama Property		September 2017 Character of Storm	
MAINE, North			, ,			J	. ,	•		
Aroostook County 3 SW Masardis	estimate	ed.	-				bowby wind	l gusts esti	Thunderstorm Wind (52EG) imated at 60 mph. The time is	
Aroostook County New Sweden	27	he estimated w 1905EST us trees were to			0	0	usts estimated	at 60 mph.	Thunderstorm Wind (52EG) The time is estimated.	
Aroostook County New Sweden	27	1906EST ees were topple		•	0	0	oh. The time is	estimated.	Thunderstorm Wind (52EG)	
Aroostook County 2 NNW North Lyndon	27	he estimated w 1910EST trees were topp		•	0	0	60 mph.		Thunderstorm Wind (52EG)	
Aroostook County 2 E Connor	27	he estimated was 1915EST 18 trees were to		•	0	0	one Country C	lub by wind	Thunderstorm Wind (52EG) d gusts estimated at 60 mph.	
Aroostook County 1 N Bridgewater	27	he estimated w 1935EST yas toppled on to		•	0	0	1.		Thunderstorm Wind (52EG)	
	evening	in the unseas	onably warn	n humid air	mass in a	dvance of th	ne front. Seve	ral of the	d during the late afternoon and thunderstorms became severe tts is equivalent to 60 mph.	
MAINE, South										
Oxford County East Hiram	05	1605EST 1610EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)	
	A severe	e thunderstorm	downed trees	and wires o	n Route 1	13 at the Bal	dwin/Hiram to	wn line.		
	Note: T	he estimated w	ind gust of 50) knots is eq	uivalent t	o 58 mph.				
Cumberland County 1 W Naples	05	1610EST 1615EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)	
	A severe	e thunderstorm	downed a tre	e on State Pa	ark Road	in Naples.				
	Note: T	he estimated w	ind gust of 50) knots is eq	uivalent to	o 58 mph.				
Androscoggin County 1 E Auburn	05	1630EST 1635EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)	
	A severe	e thunderstorm	downed pow	er lines on S	witzerlan	d Road in Au	burn.			
	Note: The estimated wind gust of 50 knots is equivalent to 58 mph.									

		Time	Path	Path		nber of	Estim		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	age Crops	Character of Storm
MAINE, South									
Androscoggin County 1 SSW Howes Corner	05	1745EST 1750EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	A severe	e thunderstorm d	lowned trees	on Pleasant	Pond Road	l in Howes C	orner.		, ,
	Note: T	he estimated wi	nd gust of 50	knots is equ	ivalent to	58 mph.			
Somerset County 1 N Fairfield	05	1820EST 1825EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	A severe	e thunderstorm d	lowned a tree	on West St	reet in Fair	field.			
	environi down to	ment was in pla	ce ahead of tronger cells.	the front. As Numerous	s instability	y built during	g the afternoo	on, strong 1	5th. A high shear, low CAPE ow- to mid-level winds mixed rms. Note: The estimated wind
MARYLAND, Central									
Washington County Clear Spg		1420EST rees and wires w				0			Thunderstorm Wind (50EG)
Washington County	Note: 1	he estimated wi	na gust of 50	knots is equ	iivaient to	58 mpn.			
1 W Spickler	•	1421EST wer poles were d the estimated with			0 iivalent to	0 58 mph.			Thunderstorm Wind (50EG)
Washington County 1 S (HGR)Hagerstown Rgnl	05 A wind	1428EST gust of 63 mph v	was reported	at the Hager	0 estown Airj	oort.			Thunderstorm Wind (55MG)
	Note: T	he measured wi	nd gust of 55	knots is equ	ivalent to	63 mph.			
Frederick County 1 NW Harmony Grove	05 A tree w	1517EST as down along I	Hayward Roa	nd.	0	0			Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50	knots is equ	ivalent to	58 mph.			
Frederick County 2 NW New Market		1526EST vas down along Y	-		0	0 58 mph			Thunderstorm Wind (50EG)
Montgomery County 1 ENE Goshen	05	1609EST		Î	0	0 0			Thunderstorm Wind (50EG)
	A cold f level wi		ough the area per shear pro	. A southerl files. The sl	near profile	es combined	with lift fron	n the front	e atmosphere. Stronger upper- and an unstable atmosphere to t to 58 mph.
MDZ017	St. Ma	ry`s							
	20	1235EST 1507EST			0	0			Coastal Flood
	21	0042EST 0322EST			0	0			Coastal Flood
	An onsh	ore flow led to 1	noderate tida	al flooding a	t Straits Po	int in St Mar	ys County.		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Pers Killed	nber of ons Injured	Estim Dama Property		September 201 Character of Storm
			(Willes)	(Tarus)	Kilicu	Injured	Troperty	Crops	Character of Storm
MASSACHUSETTS, Centra Bristol County South	06	ast 1000EST M EST, an ama	ateur radio op	erator report	0 ed a tree do	0 own on a car	8.00K on Tuttle Stre	0.00K et in Fall F	Thunderstorm Wind (50EG) River.
	Note: T	he estimated w	ind gust of 50) knots is eq	uivalent to	58 mph.			
Plymouth County 1 N Hanover	06 At 1020	1020EST AM EST, an a	mateur radio	operator rep	0 orted a tree	0 down due to	1.00K o a lightning st	0.00K rike on Hi	Lightning ghfield Lane in Norwell.
Norfolk County 1 WNW Holbrook	Union S	Street.		•	•		1.00K Holbrookon	0.00K Weston A	Thunderstorm Wind (50EG) evenue at the intersection with
Norfolk County 1 NNW South Weymouth	06	The estimated w 1024EST AM EST, an a		-	0	0	1.00K e road near the	0.00K Stop and S	Thunderstorm Wind (50EG) Shop store in Braintree.
Mallion Conta	Note: T	he estimated w	ind gust of 50) knots is eq	uivalent to	58 mph.			
Middlesex County 1 WSW Cambridge	Cambrio	dge.					8.00K a car between	0.00K n Howard	Thunderstorm Wind (50EG) Street and Western Avenue in
Essex County	Note: T	he estimated w	ind gust of 50) knots is eq	uivalent to	58 mph.			
1 SSW Lawrence	06	1045EST 1430EST			0	0	0.00K	0.00K	Flood
	11 AM		ection of Sal	em Street ar	nd South U	nion Street	was reported f	looded and	rimack and Market Streets. At d impassable. The Community nches.
Barnstable County 2 NE Newtown 1 ESE Marstons Mills Arpt	06	1105EST 1400EST			0	0	0.00K	0.00K	Flood
	routes 6.		Vest Barnstab	le was flood	ed and nea	rly impassal	ole. Total stor		09 AM the intersection of state in West Barnstable, as reported
Essex County									
Lawrence	06	1124EST 1430EST			0	0	0.00K	0.00K	Flood
									Partham Elementary School in d a storm total rainfall of 2.62
Barnstable County 1 NNW West Dennis	06	1350EST 1700EST			0	0	0.00K	0.00K	Flood
									s flooded and impassable. The all of 3.57 inches.

A cold front stalled over Southern New England on Wednesday the 6th with several waves of low pressure moving up along the front. The cold front then moved offshore Wednesday night. Thunderstorms moved across parts of Eastern Massachusetts during Wednesday producing damaging winds and heavy downpours.

				iyuu					
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Person Killed		Estima Dama; Property		September 201' Character of Storm
MASSACHUSETTS, Central			(initial)	(Taras)	11	injureu	Troperty	Сторо	Character of Storm
	and Eas	<u>st</u>							
Suffolk County Boston	14	1746EST 1748EST			0	0	25.00K	0.00K	Thunderstorm Wind (57EG)
	Also, two		vn on Hamle						am's Corner section of Boston. rn on Willis Street. A tree was
	Note: The	e estimated win	d gust of 57 l	enots is equ	ivalent to 66	mph.			
Suffolk County 1 WSW (BOS)Logan Intl Arpt	At 546 PM	1746EST M EST, the Auto to 66 MPH.	omated Surfa	ce Observa	0 ation System	0 platform a	0.00K t Logan Intern	0.00K national Ai	Thunderstorm Wind (57MG) rport in East Boston reported a
	Note: Th	e measured win	d gust of 57 l	enots is equ	ivalent to 66	mph.			
Suffolk County 1 SSW Boston 1 NNE Grove Hall	14	1807EST 2100EST			0	0	25.00K	0.00K	Flood
		M EST Columbin flood waters.	a Road near	Ceylon Str	eet and Hami	lton Street	In Boston wa	s flooded a	and impassable. Four cars were
Essex County 1 ENE South Lawrence	15	1655EST			0	0	10.00V	0.0017	
	car nearby		et was trappe	ed in flood	waters. At 52	24 PM EST			Flood uth Lawrence was flooded. A reet flooding at Cutler Avenue
	The remn	ants of Hurricar lerstorms. A few	ne Irma move v showers an	ed across S d thunders	outhern New torms brough	England of the damaging	on Thursday th g winds and h	ne 14th, br eavy dowr	inging scattered showers and a appours.
MAZ005-007-013- 017>023	Barnsta Souther	ble - Dukes n Bristol - S	- Eastern Southern P	Essex -	Eastern Pl - Western	ymouth Middle	- Northern sex - Westo	Bristol ern Norf	- Southeast Middlesex - olk - Western Plymouth
	20 22	0520EST 1720EST			0	0	263.0K	0.00K	Tropical Storm
MAZ012-015-024	Nantucl	xet - Southern	Worceste	r - Suffoll	k				
	21	0400EST							
	22	2247EST			0	0	74.0K	0.00K	Tropical Storm
	north of t diminishe then slow Jose brou reached a	the Leeward Isled to a Tropical Ty drifted south ght strong wind	ands, then tu Storm during by Friday the I gusts and he In Nantucket,	rned on a g Tuesday le 22nd and leavy down wind gusts	northward pa the 19th and d started to d npours, prima	oth north of then stalled issipate. arily to the	of the Dominical about 150 received about 150 received and seed about 150 received and seed about 150 received about 150 receiv	can Repub niles south south coas	Major Hurricane. Jose passed lic. As he moved north, Jose least of Nantucket. The storm ts of Massachusetts. Rainfall and storm surge brought minor
Essex County 1 WSW Carletonville	30	0505EST 0905EST			0	0	4.00K	0.00K	Flood
		M EST, an ama				pped in flo	ood waters on	Pope Stre	et in Salem. At 515 AM EST,
Essex County 1 NNE East Saugus Lynn	30	0524EST 1000EST			0	0	100.00K	0.00K	Flash Flood

		Time	Path	Path	Nun	nber of			September 2017
		Local/	Length	Width	Pers	ons	Dama	ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

MASSACHUSETTS, Central and East

In Lynn at 530 AM EST, Boston Street was flooded and impassable at Stetson Street. A car was trapped in flood waters at the intersection of Boston and Bridge Streets. At 536 AM EST, a car was trapped in flood waters at Lynn Commons; people in the car needed to be rescued. At 542 AM EST multiple cars were trapped in flood waters at the intersection of Boston Street and Cottage Street; the road was closed. Also multiple cars were trapped in flood waters at Washington and Johnson Streets. At 550 AM EST, Western Avenue, Liberty Street, and North Common Street were closed due to flooding. At 555 AM EST Alley Street was flooded and impassable. At 558 AM EST, a car was trapped in flooding on Commercial Street at Fenwick Street. At 649 AM EST, multiple cars were trapped in flood waters on Monroe, New Park, and Federal Streets as well as Western Avenue. At 8 AM EST, Ainsworth Place at Boston Road experienced flooding into buildings. An amateur radio operator in Lynn reported a storm total of 3.79 inches of rain.

	Lynn rep	ofted a storm total of 3.79 litelies of 1a	111.				
Essex County							
1 W Lynn	30	0535EST	0	0	0.00K	0.00K	Hail (1.00)
•	At 535 A	M EST, one-inch diameter hail was repe	orted in Lyni	n.			,
Suffolk County							
2 NW Winthrop	30	0701EST					
2 1 () () () () () () () () () (50	1000EST	0	0	25.00K	0.00K	Flood
	flood wa impassab AM EST	AM EST in Winthrop, an apartment bas atters on Crest Avenue. At 720 AM E ble. At 735 AM EST, Governors Drive of, basement flooding was also reported ones in Winthrop.	ST a portion was flooded.	n of Walde At 750 AM	n Street and I EST, a base	adjacent p ment was f	parking lot were flooded and looded on Bank Street. At 820
Suffolk County							
2 E Revere	30	0720EST					
1 NNW Winthrop	50	1100EST	0	0	25.00K	0.00K	Flood
Barnstable County	EST, am	M EST in Revere, a car was trapped in ateur radio reported a flooded basemen the Revere Beach Parkway.					
1 SW Falmouth Hgts	30	0730EST					
15 W 1 umouth 11gts	50	0740EST	0	0	0.00K	0.00K	Funnel Cloud
	At 730 A	M EST in Falmouth, the Cape Cod Tim	es reported t	wo cold air	funnel clouds	s over Falm	outh Harbor.
Suffolk County							
1 S Revere	30	0748EST					
		1100EST	0	0	0.00K	0.00K	Flood
	At 748 A	M EST in Chelsea, the intersection of S	tockton Stree	et and Easte	rn Avenue w	as closed d	ue to flooding.
Suffolk County							
1 ENE Chelsea	30	0749EST					
1 N (BOS)Logan Intl Arpt		1100EST	0	0	40.00K	0.00K	Flood
		AM EST in the Orient Heights section of backyards had 3 to 4 feet of water.	f Boston, mu	ıltiple baser	nents on Ash	lley and Be	nnington Streets were flooded
Norfolk County							
Wollaston	30	0915EST					
		1300EST	0	0	10.00K	0.00K	Flood

At 915 AM EST, the Wollaston MBTA (Rapid Transit) Station in Quincy was flooded. At 920 AM EST, the intersection of Centre Street and Vernon Street was flooded and impassable. At 925 AM EST, Cedar Street was flooded and impassable. The Automated Surface Observation System platform in Milton reported a storm total rainfall of 2.44 inches.

.	Б.,	Time Local/	Path Length	Path Width	Pers		Estim Dama	ge	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MASSACHUSETTS, Cer	ntral and Ea	<u>ast</u>							
Norfolk County 1 NNW Milton	30	0930EST 1230EST			0	0	0.00K	0.00K	Flood
	At 930 A	AM EST in Milt	on, Lincoln S	Street at Bro	ok Road w	as closed due	e to flooding.		
	morning		e 30th. Seve	ral of the sh	owers in E	astern Mass	achusetts con	ained loca	Southern New England on the lly heavy downpours, and one
MICHIGAN, East									
Bay County 1 NE Pinconning	04	1327EST			0	0	0.00K	0.00K	Hail (1.00)
Bay County 4 SW Pinconning	04	1405EST			0	0	0.00K	0.00K	Hail (0.75)
Washtenaw County 3 ENE Dover	04	1630EST			0	0	0.00K	0.00K	Hail (1.25)
Washtenaw County 3 ENE Dover	04	1630EST			0	0	0.00K	0.00K	Hail (1.00)
Oakland County 2 SE Milford	04 A powe	1630EST r pole was blow	n over, along	with 3 inch	0 diameter to	0 rees limbs do	0.00K own.	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50	knots is eq	uivalent to	58 mph.			
Livingston County 2 WSW Rushton	04	1635EST			0	0	0.00K	0.00K	Hail (1.00)
Oakland County 3 SW South Lyon	04	1637EST			0	0	0.00K	0.00K	Hail (2.00)
Macomb County 1 N Sterling Hgts	04	1703EST			0	0	0.00K	0.00K	Hail (0.75)
Monroe County 1 SE Dundee	04 Lightnir	1730EST	full of bay o	aucina a fire	0 which end	0	12.00K	0.00K	Lightning
	Ligitum	ig struck a barri	iun oi nay, c	ausing a me	willen eng	uned the su	acture.		
Lenawee County 5 E Ogden Center	04	1750EST			0	0	0.00K	0.00K	Hail (1.00)
Wayne County 2 NW Woodhaven	04 A strong	1759EST g cold front mov	ed through s	outheast Mic	0 chigan duri	0 ng the late at	0.00K ternoon hours	0.00K, producing	Hail (0.75) g several reports of large hail.
Genesee County 1 NW Brent Creek	21 A large	1516EST tree was reporte	d blown dow	n.	0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		he estimated wi			uivalent to	60 mph.			
Shiawassee County 1 N Vernon		1613EST e 6 to 8 inch dian e of severe thun				0 lint. Note: 7	0.00K The estimated	0.00K wind gust	Thunderstorm Wind (50EG) of 50 knots is equivalent to 58

		Time Local/	Path Length	Path Width		mber of	Estim Dama		September 2017					
Location	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm					
MICHIGAN, North														
Charlevoix County														
1 SSW East Jordan	04	1026EST												
		1031EST			0	0	0.00K	0.00K	Hail (0.88)					
	A broke	n line of thunde	rstorms cross	sed northern	Michigan	at around mic	dday. One sto	rm produce	ed hail.					
								1						
MIZ016	Emmet	ŧ												
1/112010														
	22	1540EST 1550EST			0	0	2.0K	0.00K	High Wind					
									_					
	A gust front associated with long-decayed thunderstorms over upper Michigan, crossed into northern lower Michigan late in the afternoon of the 22nd. Wind gusts of 35 to 50 mph were common. One report of wind damage was received.													
	anternoo	n of the 22nd. V	vilia gusts oi	1 33 10 30 111]	pii were co	ommon. One r	eport of willd	damage w	as received.					
MICHICAN II														
MICHIGAN, Upper														
Gogebic County	22	0025CCT												
1 E Hurley	22	0935CST 0939CST			0	0	0.50K	0.00K	Thunderstorm Wind (50EG)					
									, ,					
	The Gog from rad	•	neriff reporte	ed a tree dov	vn across	a road just sou	itheast of Iroi	nwood. Ti	me of the report was estimated					
		Note: The estimated wind gust of 50 knots is equivalent to 58 mph.												
Gogebic County	riote. I	ne estimated wi	ina gust of se	o knots is eq	arvarent te	oo mpii.								
8 ENE Marenisco	22	1010CST												
		1014CST			0	0	1.00K	0.00K	Thunderstorm Wind (55EG)					
	Local la	w enforcement	roported pou	or lines dou	in and trac	s saross tha re	and 9 miles El	NE of More	onicao					
	Local la	w emorcement	reported pow	er intes dow	ii and tree	s across the re	du o lilles El	INE OF MAIN	enisco.					
	Note: T	he estimated wi	nd gust of 55	5 knots is eq	uivalent to	63 mph.								
Houghton County														
2 SW Stanwood	22	1021EST												
		1025EST			0	0	0.00K	0.00K	Hail (0.75)					
	The spot	ter four miles s	outheast of R	Redridge rep	orted penn	y sized hail.								
	•			0 1	•	•								
Houghton County														
Laurium	22	1037EST												
		1040EST			0	0	0.00K	0.00K	Hail (1.00)					
	A traine	d spotter in Lau	rium reporte	d hail up to t	the size of	quarters.								
Houghton County														
1 SSE Centennial Hgts	22	1040EST												
		1044EST			0	0	0.00K	0.00K	Hail (0.75)					
	There wa	as a public repo	rt of one half	f to three qua	arter inch	diameter hail a	at Centennial	Heights ne	ar Calumet.					
Houghton County														
8 SE Tamarack	22	1045EST			0	0	0.0017	0.0017	II '1 (0.00)					
		1050EST			0	0	0.00K	0.00K	Hail (0.88)					
	A trained	d spotter six mi	les southwes	t of Gay rep	orted pea t	o nickel sized	hail.							
Iron County														
2 WSW Stambaugh City Arpt	22	1120CST				0	0.0077	0.0077	Thursday W. 1755DC					
		1125CST			0	0	2.00K	0.00K	Thunderstorm Wind (55EG)					
						l medium to	large diamet	er trees do	owned. Downed trees blocked					
	_	rtner road in t		_	•	62 1								

Note: The estimated wind gust of 55 knots is equivalent to 63 mph.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Perso Killed	ber of ons Injured	Estin Dama Property		September 201' Character of Storm
			(11)	(,		J	1.0		
MICHIGAN, Upper Iron County 3 NE Scott Lake	22	1140CST						0.00**	
		1147CST			0	0	3.00K	0.00K	Thunderstorm Wind (56EG)
		rere multiple tree These reports we						Golf Course	several miles southeast of Iron
	Note: T	he estimated wir	nd gust of 56	knots is equ	uivalent to 6	4 mph.			
Baraga County	22	1150ECT							
7 ESE Nestoria	22	1150EST 1155EST			0	0	0.00K	0.00K	Hail (0.88)
	A spotte	er just northwest	of Michigam	me reported	l mainly pea	a to dime siz	ed hail with a	a few stones	s the size of nickels.
Marquette County									
3 WNW Austin	22	1316EST 1320EST			0	0	1.00K	0.00K	Thunderstorm Wind (50EG)
	Local la	w enforcement r	eported powe	er lines dow	n three mile	es northwest	of Gwinn.		
	eastware hail and	d throughout the	morning and	l early after	noon hours.	. This line o	f strong to se	vere storms	fichigan and continued to track s brought nickel to quarter size estimated wind gust of 50 knots
MINNESOTA, Central	and South C	<u>entral</u>							
Hennepin County 1 NE Tonka Bay	04 A few b	1530CST oats on Lake Min	nnetonka wer	re capsized	0 due to an in	0 tense outflo	10.00K w boundary f	0.00K rom thunde	Thunderstorm Wind (52EG) erstorms in Hennepin County.
	Note: T	he estimated wir	nd gust of 52	knots is equ	uivalent to 6	60 mph.			
Waseca County 1 E Janesville	04 A large	1635CST tree was blown o	over in the cit	y of Janesv	0 ille.	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wir	nd gust of 50	knots is equ	uivalent to 5	8 mph.			
Steele County 1 N Owatonna	04 Several	1655CST power poles wer	e blown dow	n in the city	0 of Owaton	0 na.	0.00K	0.00K	Thunderstorm Wind (56EG)
	Note: T	he estimated wir	nd gust of 56	knots is equ	uivalent to 6	64 mph.			
Steele County 1 NE Owatonna	04 Several	1655CST trees, up to 24 in	iches in diam	eter, were u	0 prooted at t	0 he Brooktre	0.00K e Golf Course	0.00 K e in Owator	Thunderstorm Wind (56EG) nna.
	quickly thunder outflow	moved southw storms in easterr	ard over eas Minnesota, line of strong	t central a and surged g thunderst	nd southern southward orms, produ	n Minnesota ahead of th ced isolated	a. An outflo	w boundar onger storm	oon of Monday, September 4th, y was generated from earlier is. The interaction between the watonna and Janesville. Note:
Stevens County 1 NE Morris	19	2252CST			0	0	0.00K	0.00K	Hail (1.00)
Stevens County 1 N Morris	19	2254CST 2258CST			0	0	0.00K	0.00K	Thunderstorm Wind (70EG)

Dozens of trees were damaged, shingled were blown off a house, a flag pole was bent, antennas were damaged on a radio tower, and a pump station at a co-op was blown over. There were also scattered trees down in the city of Morris. Based on radar, it is possible that this may have been tornado damage, but the report came in days later and by that time, the damage had been cleaned up and therefore a damage survey was not conducted.

Note: The estimated wind gust of 70 knots is equivalent to 81 mph.

		Time Local/	Path Length	Path Width	Perso		Estin Dam	age	September 2
ocation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MINNESOTA, Central a	nd South C	<u>entral</u>							
Douglas County 4 S Brandon		2313CST one dozen trees v its roof as wind g							Thunderstorm Wind (63EG orthern end of the damage loss burst.
	Note: 7	he estimated win	nd gust of 63	knots is eq	uivalent to 7	2 mph.			
Douglas County 1 NE Brandon 2 NNW Leaf Vly	19	2318CST 2322CST			0	0	0.00K	0.00K	Thunderstorm Wind (65EG
		of trees were bro initely due to a d						Valley Tov	vnship. It appeared the damage
	Note: T	The estimated win	nd gust of 65	knots is eq	uivalent to 7	75 mph.			
Chippewa County 1 SW Montevideo	19	2318CST 2320CST	2.12	100	0	0	0.00K	0.00K	Tornado (EF0)
	east-noi	nado began on t	he Chippewa	a County si of Montevic	de of the M	innesota Ri	iver, just east	of the Mor	ntevideo golf course. It moved g and shingles were taken off a
Chippewa County 2 S Montevideo	19	2322CST 2323CST	0.11	80	0	0	0.00K	0.00K	Tornado (EF1)
	This tor	nado uprooted o	snapped do	zens of trees	s south of M	Iontevideo a	and just east o	f the Minne	esota River.
Swift County 2 NNW Murdock 9 ESE Swift Falls	19	2328CST 2338CST	10.68	550	0	0	1.50M	0.00K	Tornado (EF1)
	church, blew ap	which lost part of art six empty gr	of its roof. A	Along the w were ready	ay, the torn for harves	ado destroy t. Three ma	ed corn fields achine or equ	s, knocked o ipment stor	st structure that was hit was a down or broke many trees, and age sheds were also destroyed unty (see separate entry).
Swift County Swift Falls	19	2330CST			0	0	0.00K	0.00K	Hail (1.25)
Swift County 2 ENE Swift Falls	19	2330CST 2332CST			0	0	0.00K	0.00K	Hail (2.50)
	Hail fel	on the northeast	side of Cam	ıp Lake, jus	t before the	tornado hit.			
Swift County 2 SSW Swift Falls	19	2330CST 2331CST			0	0	0.00K	0.00K	Thunderstorm Wind (65EG
	been an		g point of th	e Camp La					own over. This area may have ain, and therefore this damage
	Note: 7	The estimated win	nd gust of 65	knots is eq	uivalent to 7	75 mph.			
Swift County 2 SE Swift Falls	19	2331CST			0	0	0.00K	0.00K	Thunderstorm Wind (63EG

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Note: The estimated wind gust of 63 knots is equivalent to 72 mph.

		Time	Path	Path		mber of	Estim		September 2017
ocation	Date	Local/ Standard	Length (Miles)	Width (Yards)	Fers Killed	sons Injured	Dama Property	ige Crops	Character of Storm
MINNESOTA, Central an	d South Co	entral							
Swift County 1 SE Swift Falls	19	2332CST 2334CST	2.4	880	0	0	0.80M	0.00K	Tornado (EF1)
	damagin Lake. It flag sudd moved i rain got	ng or destroying or was here that an denly switched an n. One modular	corn fields. In observer re nd was blow home had was house. The	t partially to eported his f ing from the indows blow ne tornado t	ore the roo lag was ble southeast wn in, a po then hit an	of off a turkey lowing hard f t while the ha orch blown aw n abandoned	barn before he from the north all continued, to way, and its ro-	nitting home hwest as tend then from the of was upli	It then moved across fields, es along the east side of Camp nnis ball size hail hit, then the he southwest when the tornado fted to the point where driving home and destroying several
Pope County 4 SSW Gilchrist	19	2334CST 2339CST	6.8	880	0	0	0.50M	0.00K	Tornado (EF1)
	sheds ar		outbuildings	s. The torna	ado tore th	hrough many	fields, damag	ging or des	there it destroyed two machine stroying much corn. It finally
Kandiyohi County 1 WNW Sunburg	19	2338CST 2339CST	1.91	550	0	0	100.00K	0.00K	Tornado (EF1)
		do moved out of ed two machine s		•	northwest	ern Kandiyoh	ıi County. It k	cnocked do	own trees, damaged crops, and
Pope County 5 ESE Gilchrist 7 SE Terrace	19	2339CST 2341CST			0	0	0.00K	0.00K	Thunderstorm Wind (70EG)
	This dar	wo hundred trees mage was one to The estimated win	two miles so	outheast of	the dissipa	ation point of			anied the Camp Lake tornado.
Chippewa County 1 N Clara City	19 Note: T	2341CST The measured wind	d gust of 51	knots is equ	0 nivalent to	0 59 mph.	0.00K	0.00K	Thunderstorm Wind (51MG)
Pope County 6 ESE Terrace 7 SE Sedan	19	2341CST 2343CST			0	0	0.00K	0.00K	Thunderstorm Wind (65EG)
	if this w								urvey was unable to determine obably downburst winds in the
	Note: T	he estimated win	d gust of 65	knots is equ	ivalent to	75 mph.			
Stearns County 3 WSW Belgrade	19	2346CST 2347CST			0	0	0.00K	0.00K	Thunderstorm Wind (70EG)
	area ma		arlier beginr	ning point of	f the Belg	rade tornado,			orn fields were damaged. This ant to be certain, and therefore
S. G.	Note: T	he estimated win	d gust of 70	knots is equ	ivalent to	81 mph.			
Stearns County 2 NNE Brooten	19	2347CST 2348CST			0	0	0.00K	0.00K	Thunderstorm Wind (69EG)
	damage.		have been ar	n earlier beg	ginning po	int of the tori	nado that trac	ked from w	and corn fields sustained some vest to northeast of Elrosa, but wind damage.

Note: The estimated wind gust of 69 knots is equivalent to 79 mph.

		Time Local/	Path Length	Path Width	Nun Pers	nber of sons	Estima Dama		September 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MINNESOTA, Central a	and South C	entral							
Stearns County									
Belgrade	19	2348CST			0	0	0.00K	0.00K	Thunderstorm Wind (63EG)
	Dozens	and possibly mor	re than 100	trees were	felled in B	elgrade, just	to the south o	f a tornado	o. A storm survey determined
	this was	s due to rear flank	k downdraft	winds asso	ciated with	the Belgra	de tornado.		
	Note: T	The estimated win	d gust of 63	knots is ea	uivalent to	72 mph.			
Stearns County			U	1					
Belgrade	19	2348CST							
Deigrade	1,	2349CST	1.16	330	0	0	0.00K	0.00K	Tornado (EF0)
						1.		0	1.1 1.1 771
	tornado		storage bui	lding (the b	ouilding had	d been move	ed from anothe		anded on a mobile home. The and was still in the process of
Steering Country									
Stearns County 4 NE Brooten	19	2349CST			0	0	0.00K	0.00K	Thunderstorm Wind (65EG)
4 NE Brooten			ken about 2/	3 mile to th	-				The tree damage was deemed
	to be du	ie to rear flank do	wndraft wir	nds.					Ü
	Note: T	The estimated win	d gust of 65	knots is eq	uivalent to	75 mph.			
Stearns County									
4 WSW Elrosa	19	2349CST							
2 W Greenwald		2356CST	8.18	360	0	0	0.00K	0.00K	Tornado (EF1)
	Howeve		arms, includ	ding one wl	here severa	l metal shed	ls were destro	yed. The t	of Elrosa by less than a mile. cornado also knocked down or vest.
Stearns County									
1 E Elrosa	19	2354CST							
1 SW Greenwald		2356CST			0	0	500.00K	0.00K	Thunderstorm Wind (65EG)
	and a fe		e damaged.	This was al	l southeast				a few dozen trees were broken, to northeast of Elrosa, and was
	Note: T	The estimated win	d gust of 65	knots is eq	uivalent to	75 mph.			
Stearns County									
3 W Greenwald	19	2355CST							
1 NE Melrose	20	0001CST			0	0	1.00M	0.00K	Thunderstorm Wind (68EG)
	Melrose winds a construc	e. Numerous corrussociated with a	n fields and dissipating	other crops tornado ar	s were also nd then dov	damaged. A	A storm survey om the dissipa	y determin ited tornad	h from northeast of Elrosa to ned this was due to downburst do. A building that was under heds and outbuildings at farms
	Note: T	The estimated win	d gust of 68	knots is eq	uivalent to	78 mph.			
Todd County									
2 WNW Burtrum	20	0004CST							
3 NE Pillsbury		0011CST	6.75	440	0	0	0.00K	0.00K	Tornado (EF1)
	it hit a r	number of lake ho	omes and cal	bins, causin	ig roof dam	age to sever	ral. As the torn	nado reach	s the tornado moved northeast, ed the community of Pillsbury

A tornado touched down on the east side of Big Swan Lake, where a few trees were downed. As the tornado moved northeast, it hit a number of lake homes and cabins, causing roof damage to several. As the tornado reached the community of Pillsbury on the northeast side of Long Lake, a boat and attached dock were blown westward into the lake. Dozens of trees, including some two feet in diameter, were blown down or snapped. A home was shifted off its foundation by several inches. Another home sustained minor damage to the roof and had some windows blown in. The tornado continued beyond Pillsbury, moving across open fields and woods, and dissipated just as it reached the Todd/Morrison County line.

Location		Time Local/	Path Length	Path Width		mber of	Estimated Damage		September 20	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
MINNESOTA, Central a	nd South C	entral								
Stearns County 3 SSE St Rosa 2 W St Francis	20	0006CST 0009CST			0	0	0.00K	0.00K	Thunderstorm Wind (65EG)	
		wo dozen trees a with downburst							t was determined that this area	
	Note: T	he estimated wir	nd gust of 65	knots is eq	uivalent to	75 mph.				
Morrison County 1 SE Swanville	20	0009CST 0012CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)	
		dozen trees and owndraft winds a						ounty, prob	pably due to downburst or rear	
	Note: T	he estimated wir	nd gust of 61	knots is eq	uivalent to	70 mph.				
Kandiyohi County 7 NE Lake Lillian		0015CST trees and large b			0 uivalent to	0 81 mph.	0.00K	0.00K	Thunderstorm Wind (70EG)	
Stearns County				•						
1 SE Avon Morrison County	20	0020CST			0	0	0.00K	0.00K	Hail (0.88)	
2 SW Bowlus	20	0021CST			0	0	0.00K	0.00K	Hail (1.00)	
Mille Lacs County 2 NNW Vineland	20 Several	0055CST trees and power	lines were b	lown down	0 north of Vi	0 ineland.	0.00K	0.00K	Thunderstorm Wind (56EG)	
	Note: T	he estimated wir	nd gust of 56	knots is eq	uivalent to	64 mph.				
Stearns County 1 SW Waite Park	20	0056CST			0	0	0.00K	0.00K	Hail (0.88)	
Mille Lacs County 4 NW Vineland	20	0102CST			0	0	0.00K	0.00K	Hail (1.75)	
Stearns County Sartell	20	0102CST			0	0	0.00K	0.00K	Hail (1.00)	
Hennepin County 1 NE Bloomington	severe the east-nor hail as l	hunderstorms that theast across sou	at moved ear othern and co oalls. This l	stward into entral Minne ine slowly	western Mesota, which weakened	innesota towa h produced fa as it moved	ord midnight. Ist-moving to into far easte	This line or rnadoes, se	Hail (0.88) eastern Dakotas, fired a line of of storms continued to progress evere measured wind gusts, and sota, with general, non-severe	
Mille Lacs County 1 NE Wahkon	22	0430CST			0	0	0.00K	0.00K	Hail (1.50)	
Wright County 1 NW Rockford	early mo Most of storms b	orning of Friday the storms were	, September non-severe ad produced	r 22nd. Thes and produce severe hail	se storms t ed up to nic north of M	racked along ckel size hail	a line from a and gusty wit	north of Al nds of 40 to	Hail (0.88) d central Minnesota during the exandria, to Mora, Minnesota. o 50 mph. However, one of the to the south, but remained non-	
Chippewa County 2 WSW Watson		2055CST trees were blown the estimated wir			0 uivalent to	0 64 mph.	0.00K	0.00K	Thunderstorm Wind (56EG)	

		Time Local/	Path Length	Path Width	Pers	nber of sons	Estim Dama	ge	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MINNESOTA, Central and	South C	<u>entral</u>							
Swift County 1 SE Murdock		2115CST ous trees were bl ocking down po						0.00K ne foot in o	Thunderstorm Wind (56EG) liameter. Due to several of the
	of 40 to		Lac Qui Parle	e County. As	the storm	s moved into	Chippewa an	d Swift co	nesota and produced wind gusts unties, a few severe wind gusts lent to 64 mph.
Kandiyohi County Sunburg	24	1513CST			0	0	0.00K	0.00K	Hail (0.88)
Stearns County Brooten	24 A few s	1525CST mall trees of <6	inches in dia	meter and lin	0 mbs down	0 on the south	0.00K side of Broote	0.00K	Thunderstorm Wind (50EG)
	topped	supercell over	Pope and S	tearns Cour	nties. A st	torm chaser	reported stro	ong low le	Warning was issued for a low- evel rotation, but no tornado. quivalent to 58 mph.
MINNESOTA, Northeast									
St. Louis County Kelly Lake	02	1323CST			0	0			Hail (0.75)
Cook County 1 NNE Lutsen	02 Strong t	1647CST hunderstorms m	oved across _l	portions of C	0 Cook and S	0 t. Louis Cou	nties producin	g penny siz	Hail (0.75) zed hail.
Itasca County 3 WSW Grand Rapids Arpt	03 A sever	1948CST e thunderstorm n	noved across	s Itasca Cour	0 ity produci	0 ng 1 sized ha	nil in the town	of Grand F	Hail (1.00) Rapids.
St. Louis County 2 ESE Nett Lake	14	1500CST			0	0			Hail (1.75)
St. Louis County 1 E Crane Lake	14	1500CST			0	0			Hail (2.00)
St. Louis County 2 ESE Nett Lake	14	1501CST			0	0			Hail (1.75)
Itasca County 1 NW Effie	14	1512CST			0	0			Hail (0.88)
St. Louis County 2 SW Britt	14	1634CST 1648CST			0	0			Hail (1.75)
St. Louis County 1 S Embarrass	14	1708CST			0	0			Hail (0.75)
St. Louis County Biwabik	14	1710CST			0	0			Hail (1.00)
St. Louis County 4 N Makinen	14	1714CST 1719CST			0	0			Hail (1.00)
St. Louis County 1 N Central Lakes		1733CST rees measuring t y 53 near Murph			0 nmeter wer	0 re knocked d	own and block	xed the sou	Thunderstorm Wind (50EG) th bound side of United States

Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

		Time	Path	Path		nber of	Estima		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama; Property	ge Crops	Character of Storm
MINNESOTA, Northeast									
St. Louis County Central Lakes	14	1735CST			0	0			Hail (0.75)
St. Louis County 1 SE Makinen	14	1735CST			0	0			Hail (1.00)
St. Louis County Central Lakes	14	1738CST			0	0			Hail (1.50)
St. Louis County 3 N Markham	14 County	2200CST Road 338 south	of Town Lin	e Road was	0 closed due	0 to flooding o	0.00K over the road.	0.00K	Flash Flood
St. Louis County Central Lakes	14 Water w	2200CST as over the road	way at Old F	Highway 53.	0	0	0.00K	0.00K	Flash Flood
St. Louis County 3 SSE Makinen	14 County 1	2200CST Road 607/331 w	as closed eas	st of Long L	0 ake Road d	0 ue to floodin	0.00K g.	0.00K	Flash Flood
St. Louis County 3 SE Polo	14 County Creek.	2200CST State Aid Highv	vay 99 was o	closed from	0 Town Line	0 e Road north	0.00K to County Ro	0.00K oad 343 due	Flash Flood to flooding from Water Hen
St. Louis County 4 SSE Polo	14 County 1	2200CST Road 344 south	of Town Lin	e Road was	0 closed due	0 to flooding o	0.00K of Water Hen 0	0.00K Creek.	Flash Flood
St. Louis County 4 NNW Markham	Severe t		at moved ac				0.00K	0.00K g sized hail,	Flash Flood damaging winds, and heavy
MNZ037	Southe	rn St. Louis/C 1400CST ly woman drown	Carlton	a drava into	0 Joland Lak	0	ag a gurva in d	lanca for	Dense Fog
Crow Wing County 1 S Baxter	20 Several	0031CST pine and oak tre	ees with diar	neters large	0 r than twel	0 ve inches we	ere knocked d	own along l	Thunderstorm Wind (56EG) Minnesota Highway 210 two outh end of White Sand lake.
Cass County 1 SSW Lake Shr	20 Several	he estimated win 0035CST trees were knock he estimated win	xed down alo	ong the lake	0 shore area.	0			Thunderstorm Wind (52EG)
Crow Wing County (P39)Pequot Lakes	20 Multiple	0037CST trees were know	eked down al	long with ne	0 arby power	0 lines.			Thunderstorm Wind (52EG)
Crow Wing County 2 ENE Nisswa	20 Multiple	he estimated win 0038CST trees were blow he estimated win	n down. The	e largest tree	0 was 20 inc	0 ches in diame	eter.		Thunderstorm Wind (52EG)

		Time	Path	Path		nber of	Estim		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dama Property	ge Crops	Character of Storm
MINNESOTA, Northeast									
Crow Wing County 1 E Jenkins	_	0039CST trees were kno ne estimated wi		-		0 58 mph.			Thunderstorm Wind (50EG)
Crow Wing County Pequot Lakes Arpt	-	0042CST trees were kno							Thunderstorm Wind (50EG)
	Note: Th	ne estimated wi	ind gust of 50) knots is eq	uivalent to	58 mph.			
Crow Wing County 3 NE Jenkins	20 Note: Th	0043CST ne measured wi	ind gust of 50) knots is eq	0 uivalent to	0 58 mph.			Thunderstorm Wind (50MG)
Crow Wing County 2 ENE Cross Lake	20 Multiple	0045CST trees were kno	cked down a	long with ne	0 earby powe	0 r lines.			Thunderstorm Wind (50EG)
Crow Wing County 2 NE Manhattan Beach	20	0048CST trees were kno	-	-	0	0			Thunderstorm Wind (50EG)
Cass County 2 SE Inguadona	20	0052CST trees were kno	-	•	0	0	ip.		Thunderstorm Wind (52EG)
Crow Wing County 5 E Pine Center	Note: Th	0053CST 0058CST	ind gust of 52	2 knots is eq	uivalent to	60 mph.			Hail (1.75)
Cass County 3 ENE Brevik	20 Multiple	0056CST trees were kno	cked down o	n County Ro	0 oad 8 in Bo	0 y Lake Towr	nship.		Thunderstorm Wind (52EG)
Cass County 1 W Boy River	20 Multiple	0100CST trees were kno	cked down o	n County Ro	0 oad 63 in B	0 Soy River Tov	vnship.		Thunderstorm Wind (52EG)
Cass County 1 SE Bena	-	0103CST trees were kno ne estimated wi) knots is eq	0 uivalent to	0 58 mph.			Thunderstorm Wind (50EG)
Aitkin County 4 SSW Malmo	20 Several t	0115CST rees were upro	oted. A large	tree branch	0 landed on	0 a car.			Thunderstorm Wind (56EG)
Itasca County 1 SE Marcell	20 Several t	0124CST rees were knoche estimated wi	ked down ald	ong Minneso	0 ota 38.	0			Thunderstorm Wind (52EG)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of sons Injured	Estim Dama Property		September 2017 Character of Storm
MINNESOTA, Northeast									
Itasca County 10 NW Bennett	20 Several t	0131CST trees were knoc	ked down ald	ong Minneso	0 ota State Hi	0 ghway 65 ne	ar Buck Lake		Thunderstorm Wind (52EG)
Pine County 1 W Ellson	20	he estimated wind of the object of the objec			0	0	ver.		Thunderstorm Wind (50EG)
St. Louis County 1 S Hibbing	20	he estimated wind of the object of the objec	Ū	•	0	0	damaging its c	himney an	Thunderstorm Wind (56EG) d siding.
Carlton County 1 SSE Kettle River	20	0143CST ees measuring	C	•	0	0	Minnesota 27	by the inte	Thunderstorm Wind (52EG) rsection with Minnesota 73.
Carlton County 1 SE Cloquet	20	he estimated wind the object of the object o			0	0	ng Grant Ave	nue.	Thunderstorm Wind (52EG)
St. Louis County Spruce	20	he estimated wind of the object of the objec			0	0	Township.		Thunderstorm Wind (52EG)
Pine County 2 SSE Sturgeon Lake	Note: Th	he estimated wi	nd gust of 52	2 knots is eq	uivalent to	60 mph.			Hail (0.88)
St. Louis County 3 ESE Jones	20 A tree w	0222CST as knocked dov	vn blocking t	he crossing	0 of Eshquag	0 guma Country	y Road and Ve	ermilion Tr	Thunderstorm Wind (50EG) ail.
St. Louis County 1 SW Duluth Hgts	20 A few tre	0222CST ee branches me	asuring 5 to 6	5 inches in d	0 liameter we	0 ere knocked o	lown.		Thunderstorm Wind (52EG)
St. Louis County 1 E Soudan	20	0224CST as knocked dov	Ū	-	0	0	p.		Thunderstorm Wind (52EG)
St. Louis County 4 WNW Babbitt	20	he estimated wind object of the object of th		-	0	0	0.00K ver Road.	0.00K	Thunderstorm Wind (50EG)
	numerou damaged which in \$5,000 a	us reports of bl d by downed tro acluded \$45,00	own down t ees. Severe h 0 damage su ownship at \$	rees blocking all was also stained by Co. Min	ng roads and reported. Crow Wing the control of th	nd bringing Preliminary Power, city overnor Mark	down nearby damage estim of Lake Shor k Dayton auth	power line ates across e with \$10 acrized \$35	sed very gusty winds that led to es. A few buildings were also Cass County were at \$64,000 0,000, Loon Lake Township at 51,000 to both Cass and Crow t to 58 mph.

		Time	Path	Path		nber of	Estimat		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	Injured	Damag Property	Crops	Character of Storm
MINNESOTA, Northeast									
Itasca County 10 SSW Blackberry		0221CST large tree branche estimated wi				0 58 mph.			Thunderstorm Wind (50EG)
Itasca County 7 SSW Blackberry							pola and strippe	ed its sidii	Thunderstorm Wind (56EG) ng.
Crow Wing County 1 SSE Brainerd	22 A few tro	0356CST ees were knock he estimated wi	ed down witl	hin the city	0 with widesp	0 oread tree da	mage across por	tions of (Thunderstorm Wind (52EG) Crow Wing County.
Crow Wing County Garrison	22 A few tro	0407CST ees were knock	ed down and	partially blo	0 ocking Min	0 nesota High	way 169.		Thunderstorm Wind (50EG)
Crow Wing County Ft Ripley	22	0420CST	ina gust of se	o knots is eq	0	0			Hail (0.88)
Cass County 1 E Osnawa	22 A few tre	0420CST ees were knock	ed down blo	cking Minne	0 esota Highw	0 vay 87 west	of Backus.		Thunderstorm Wind (50EG)
Crow Wing County 2 ENE Cross Lake	22	he estimated wind 0433CST trees were kno			0	0			Thunderstorm Wind (52EG)
Aitkin County 1 E Giese	22	he estimated wi 0503CST ees were knock			0	0	McGrath and Fi	inlayson.	Thunderstorm Wind (52EG)
Cass County 1 S Remer Muni Arpt	22 A few bl	0506CST lown down trees the estimated with	s were block	ing the road	0	0			Thunderstorm Wind (52EG)
Carlton County 1 NW Kettle River	22 Four tree	0508CST es were knocked he estimated wi	d down.		0	0			Thunderstorm Wind (50EG)
Carlton County 1 S Kettle River	22	0512CST ees were knock			0	0	Lake.		Thunderstorm Wind (50EG)
Pine County 3 SW Ellson	Note: To	he estimated wi	ind gust of 50) knots is eq	uivalent to	58 mph.			Hail (1.00)
St. Louis County 4 NNE Gowan		0536CST ees were knock he estimated wi				0 60 mph.			Thunderstorm Wind (52EG)

		Time	Path	Path		ber of	Estimate		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property	Crops	Character of Storm
MINNESOTA, Northeast									
St. Louis County Alborn	-	0555CST ees were knock estimated wind				0 60 mph.			Thunderstorm Wind (52EG)
St. Louis County 1 NW Bayview		0600CST power lines were estimated wind			0 ivalent to :	0 58 mph.			Thunderstorm Wind (50EG)
St. Louis County 1 E Hermantown		0602CST er healthy popl estimated wind				0 58 mph.			Thunderstorm Wind (50EG)
St. Louis County 1 SW (DLH)Duluth Intl Arp	22 The wind s	0613CST peed was recor	ded by the A	ASOS statio	0 n at the Du	0 Iluth Interna	tional Airport.		Thunderstorm Wind (53MG)
St. Louis County 1 NW Arnold	22 Trees and p	0614CST power lines were estimated wind	re blown do	wn.	0	0			Thunderstorm Wind (50EG)
Cook County 8 WSW Marais	22 A few trees	0747CST s were blown d	own along N	Minnesota H	0 lighway 61	0 by mile ma	rker 100.		Thunderstorm Wind (50EG)
Crow Wing County 4 SE Brainerd	across the powerlines equivalent 24 Numerous stripped of A strong tl Several lar	region into the A cupola was to 58 mph. 1528CST tree branches their needles. nunderstorm m	ne early mo is blown off warying in d noved across	rning hours of a bar an liameter fro s Crow Win cked down a	of the 22 d hail as la 0 m six to eing County	2nd. Severa arge as an in 0 ght inches v	I large trees we ach fell. Note: To were knocked do damaging winds	re knock The estim own. In ac	t of September and continued ted down along with nearby lated wind gust of 50 knots is Thunderstorm Wind (52EG) ddition, a few pine trees were latside of the city of Brainerd. ed. Note: The estimated wind
MINNESOTA, Northwest									
Hubbard County 3 N Dorset	04 The hail fe	1110CST	ond village o	campground	0	0			Hail (1.00)
Hubbard County 4 SE Dorset	04 The hail fe	1120CST ll at Big Stony	Lake.		0	0			Hail (1.00)
Hubbard County 1 N Dorset	04	1120CST			0	0			Hail (1.75)
Marshall County 2 WSW Thief Lake	04 The hail fe	1145CST	side of Thie	f Lake.	0	0			Hail (0.75)
Polk County 2 NW Burwell	04 Dime to nic	1147CST ckel sized hail	was reported	i.	0	0			Hail (0.88)
Otter Tail County 4 NNW Battle Lake Muni Arp		1204CST ll just off highv	vay 78.		0	0			Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nur Pers Killed	nber of sons Injured	Estim Dama Property		September 2017 Character of Storm
MINNESOTA, Northwest									
Polk County East Grand Forks	04 Dime to	1235CST quarter sized ha	il was reporte	d.	0	0			Hail (1.00)
Beltrami County Puposky	04 Dime to	1250CST nickel sized hail	fell, along w	ith a few qu	0 aarter sized	0 d hailstones.			Hail (1.00)
Becker County 1 S Detroit Lakes Arpt	Morning thunders		, cold temper	atures aloft	, and an u				Thunderstorm Wind (50MG) produce afternoon showers and sured wind gust of 50 knots is
Becker County 4 N Osage	14	1928CST quarter sized h	ail fell.		0	0			Hail (1.00)
Becker County 5 E Osage	14	1949CST			0	0			Hail (1.00)
Hubbard County 2 SE Dorset	By the e	2040CST fell at Fifth Cro arly evening of aunderstorms fo	September 1	4th, a statio				ine from E	Hail (1.00) Ilbow Lake to Wadena. A few
Norman County 4 NNE Lockhart	Norman		it crossed int	o Polk Cou	inty, wher	e it continue	d about anoth	er three mi	Tornado (EF1) nart. It tracked about a mile in iles. The tornado ended at 701 5 mph.
Polk County 3 S Beltrami	County,		ST, debris fro	om the torn	ado broke	windows in a	a vehicle. The	tornado the	Tornado (EF1) M CST. As it crossed into Polken snapped trees in and arounded at 105 mph.
Polk County 3 ESE Union Lake		1940CST are blown down the estimated wire			U 1				Thunderstorm Wind (74EG)
Red Lake County 3 S Brooks	nearby N	1950CST us four to six ind MNDOT RWIS 1 ne estimated wir	nesonet statio	n also lost	power.		shelterbelts a	cross south	Thunderstorm Wind (52EG) tern Poplar River Township. A
Polk County 1 NNW Fosston Muni Arpt		1959CST OS at the Fossto p had broken oa						rbelts in ac	Thunderstorm Wind (55MG) ljacent portions of Brandsvold
Polk County 4 W Olga	19	ne measured wir 2015CST rees were blown		•	0	0			Thunderstorm Wind (61EG)

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Character of Storm Location MINNESOTA, Northwest Late in the afternoon of September 19th, a frontal boundary pushed into the Devils Lake to Jamestown (ND) corridor. Due to fairly extensive cloud cover throughout the day, late afternoon temperatures only ranged in the low 60s over the Devils Lake region, to the lower 70s over southeast North Dakota into west central Minnesota. Even though temperatures remained on the cool side, a strong moisture surge occurred. Cloud cover decreased somewhat over southeast North Dakota during the late afternoon, where thunderstorms flared up south of Jamestown. As this large thunderstorm cell moved into southwest Barnes County (ND), it produced a tornado near Litchville. This cell evolved into a larger storm complex, which moved east-northeast through the evening. This storm complex produced large hail, strong winds, and a second tornado along the Norman/Polk (MN) county border in Minnesota. Note: The estimated wind gust of 61 knots is equivalent to 70 mph. **MNZ004** Kittson 19 2030CST 0 8.0K High Wind As thunderstorms passed to the south and east, strong sustained winds developed over Kittson County, in what is known as a wake low. Several mesonet sensors measured the sustained period of strong winds. **Becker County** 0 Cormorant 19 2155CST Thunderstorm Wind (56EG) Many large tree branches and power lines were blown down around Cormorant Lake, resulting in localized power outages. Note: The estimated wind gust of 56 knots is equivalent to 64 mph. **Mahnomen County** 8 S Naytahwaush 2240CST 0 0 Thunderstorm Wind (56EG) 19 Numerous large tree branches and power lines were blown down around Tulaby Lake and Elbow Lake, resulting in localized Note: The estimated wind gust of 56 knots is equivalent to 64 mph. **Grant County** 1 S Elbow Lake Thunderstorm Wind (52EG) A few large tree branches were blown down around town. The peak wind measured at the Elbow Lake airport was 54 mph. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Otter Tail County** 19 2325CST Henning Thunderstorm Wind (52EG) A few four to six inch diameter tree branches were blown down in groves and shelterbelts across east central Henning Note: The estimated wind gust of 52 knots is equivalent to 60 mph. Otter Tail County 1 SSW Parkers Prairie Thunderstorm Wind (56EG) Numerous trees were blown down around town. At least one tree fell on a house. Late in the afternoon of September 19th, a frontal boundary pushed into the Devils Lake to Jamestown (ND) corridor. Due to fairly extensive cloud cover throughout the day, late afternoon temperatures only ranged in the low 60s over the Devils Lake region, to the lower 70s over southeast North Dakota into west central Minnesota. Even though temperatures remained on the cool side, a strong moisture surge occurred. Cloud cover decreased somewhat over southeast North Dakota during the late afternoon, where thunderstorms flared up south of Jamestown. As this large thunderstorm cell moved into southwest Barnes County (ND), it produced a tornado near Litchville. This cell evolved into a larger storm complex, which moved east-northeast through the evening. This storm complex produced large hail, strong winds, and a second tornado along the Norman/Polk (MN) county border in Minnesota. Note: The estimated wind gust of 56 knots is equivalent to 64 mph. **Grant County** 1 N Wendell 0214CST Hail (1.00) The hail fell with very heavy rain. **Grant County** 3 WSW Ashby 0230CST 0 Hail (1.00) The hail fell along Interstate 94 near the Otter Tail County line. **Otter Tail County**

A few quarter to half dollar sized hail fell along with very heavy rain.

0

Hail (1.25)

1 SW Wrightstown

22

0310CST

Location	D-4-	Time Local/	Path Length	Path Width	Per	mber of sons	Estim Dama	ige	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MINNESOTA, Northwest									
Polk County 5 NNW Northland		1945CST es and power la e estimated wa			0 uivalent to	0 64 mph.			Thunderstorm Wind (56EG)
Marshall County Warren	U	1954CST mb was snapp te estimated wi		2 knots is equ	0 uivalent to	0 60 mph.			Thunderstorm Wind (52EG)
Marshall County 1 S Espelie	22 Nickel to	2005CST half dollar siz	ed hail fell.		0	0			Hail (1.25)
Beltrami County 6 W Carmel	22	2015CST			0	0			Hail (1.00)
Marshall County 1 S Newfolden	-	2026CST ree limb was b		September	0 22nd. a c	0 omplex of th	understorms	moved fro	Thunderstorm Wind (52EG)
	Valley, e Septembe extending east of th	ast-northeast er 22nd, an are g out to the ea	to the Wader a of surface lest, toward Fo tures, mainly	na, Minneso ow pressure osston and B from Gran	ota area. T was locato Bemidji, M d Forks C	hese storms of ed just northwinnesota. A so ounty in Nor	dropped large vest of Fargo, strong low lev	hail. The North Dak vel jet help	n, during the early evening of ota, with a stationary boundary ed storms fire to the north and Marshall County in Minnesota.
MINNESOTA, Southeast									
MNZ096	Houston	1							
	19 30	0600CST 2359CST			0	0	0.00K	0.00K	Drought
MINNESOTA, Southwest Pipestone County		t below norma Minnesota, ir							velop across a small portion of 7.
5 SSW Ihlen		2244CST re downed at J re estimated with	1 '	•	0 uivalent to	0 81 mph.	0.00K	0.00K	Thunderstorm Wind (70EG)
Rock County 1 NE Ash Creek	C	2255CST e downed.	ind gust of 52	2 knots is equ	0 uivalent to	0 60 mph.	0.00K	0.00K	Thunderstorm Wind (52EG)
Rock County 1 SW Beaver Creek		2255CST Minnesota DO' te measured wi				0 58 mph.	0.00K	0.00K	Thunderstorm Wind (50MG)
Rock County 1 SE Luverne Arpt	19 Note: Th	2302CST se measured w	ind gust of 59	knots is equ	0 uivalent to	0 68 mph.	0.00K	0.00K	Thunderstorm Wind (59MG)
Lyon County Balaton	the late e	ad thunderstor	and produced	d strong win					Thunderstorm Wind (56EG) ral portion of Minnesota during to trees. Note: The estimated
Nobles County 1 NNE Rushmore	24 Measured Strong w	1429CST l by Minnesota	a DOT remote sult of a sma	e weather se ll cluster of	storms me		0.00K he Iowa/Minr	0.00K nesota bord	Thunderstorm Wind (52MG) ler late in the afternoon. Note:

	~ .	Time Local/	Path Length	Path Width	Numb Person	ns	Estim Dama	ige	September 2
cation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ISSISSIPPI, Central									
MSZ031	Lownde	es							
	01	0100CST			0	0	5.0K	0.00K	Strong Wind
	rain to th		arvey decreas	sed to a depr	ession on the	e 31st, gust	y winds still r	emained ac	t and brought gusty winds and ross portions of the region into
Lowndes County									
College	05 Powerlin	1515CST nes were blown	down		0	0	5.00K	0.00K	Thunderstorm Wind (50EG
		he estimated wi		knots is equ	uivalent to 58	8 mph.			
Hinds County									
1 N Clinton	05	1757CST	., ,	1	0	0	8.00K	0.00K	Thunderstorm Wind (39EG
	A few sn	nall trees were	blown down	due to outflo	ow winds tha	it moved th	rough ahead o	f an approa	ching line of storms.
	Note: The	he estimated wi	nd gust of 39	knots is equ	uivalent to 45	5 mph.			
Attala County									
1 SSE Wamba	05	1820CST			0	0	4.0017	0.0017	
2 NW Kosciusko		2030CST			0	0	4.00K	0.00K	Flash Flood
	A early s	ooding occurred season cold from ong to severe w	nt moved thr	ough the reg					kLaMiss region. Some storm
Forrest County									
3 SSW Macedonia									Thunderstorm Wind (48EG ne winds in association with a llwood subdivision in Petal.
									on, brought afternoon showers of 48 knots is equivalent to 55
Webster County	•								
Dancy		1558CST ne foot diamete ees damaged a			0 d along Gill	0 bert Hill Ro	10.00K oad one half r	0.00K nile west o	Thunderstorm Wind (50EG f MS Highway 15. One of the
	Note: Tl	he estimated wi	nd gust of 50	knots is equ	uivalent to 58	8 mph.			
Smith County	22	1641G0T			0	0	0.5017	0.0017	TI 1 . W' 1/42P.C
4 NNW Sylvarena	23 A six inc	1641CST ch diameter tree	was snapped	l near CR 12	0.28.	0	0.50K	0.00K	Thunderstorm Wind (43EG
	Note: Tl	he estimated wi	nd gust of 43	knots is equ	uivalent to 49	9 mph.			
Covington County									
1 S Gandsi	few trees	s blown down n	ear the post of	office, minor	shingle dan	nage on a n	earby home, a	ınd an upro	Thunderstorm Wind (60EG rtion of the post office roof, oted two to three foot diamete ight line wind damage.
	Note: Tl	he estimated wi	nd gust of 60	knots is equ	uivalent to 69	9 mph.			
Covington County 5 NNE Gandsi	23 Lightnin	1710CST g started a fire i	in a stand of t	trees near M	0 S Highway 5	0 588 and Ab	15.00K ercrombie-Kn	0.00K night Road 1	Lightning northeast of Seminary.
Lamar County									
1 SE Purvis	23 Several s	1710CST sections of an ar	wning were d	lamaged at F	0 Purvis High S	0 School.	20.00K	0.00K	Thunderstorm Wind (43EG)
		he estimated wi							

		Time	Path	Path		nber of	Estin		September 2017	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	age Crops	Character of Storm	
MISSISSIPPI, Central										
Lamar County 4 NW Talowah	surround	1720CST pole was blown ling area between the estimated win	en Purvis and	l Baxterville			20.00K at of Purvis. S	0.00K Several trees	Thunderstorm Wind (50EG) s were also blown down in the	
Covington County 1 NE Ora	23 A few tr	1745CST ees were blown	down along	Salem Churc	0 ch Road no	0 rth of Collins	5.00K	0.00K	Thunderstorm Wind (50EG)	
	Note: T	he estimated wir	nd gust of 50	knots is equ	ivalent to	58 mph.				
Covington County 4 WNW Williamsburg	23 A few tre	1802CST ees were blown	down along	Dan Easterli	0 ng Road w	0 est of Collins	5.00K	0.00K	Thunderstorm Wind (50EG)	
	The stro		orms produc	ed small ha	il and a fe	w microburst			to trees and buildings. Note:	
MISSOURI, East										
St. Charles County 3 WNW Weldon Spg 1 N Defiance	04	1800CST 1810CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
MOZ063	roadway Strong o	just north of D cold front move ng large hail an	efiance. ed south acro	oss forecast	area, trigg	gering numer	ous thunder	storms. Sor	tree was blown down onto the me of the storms were severe uivalent to 64 mph.	
	Temper	itures were near	normal with	a high of 79	degrees at	St Louis La	mbert Intern	ational Airn	ort M1VE	
MISSOURI, Northwest Grundy County 3 E Trenton Arpt	16	1630CST	normal with	a lligh of 79	degrees at	ot. Louis La	moert mern	ational 7111p	ou mive	
•		1633CST			0	0			Thunderstorm Wind (52EG)	
	A 6 inch	tree limb was d	own, and a p	owerline wa	s down ne	ar Trenton.				
	Note: T	he estimated wir	nd gust of 52	knots is equ	ivalent to	60 mph.				
Livingston County 1 NNE Chillicothe Arpt	16	1635CST 1638CST			0	0			Thunderstorm Wind (56EG)	
	A chicke	en coop was blov	wn over and	a section of	fence was	blown 100 ya	ards in the ne	ighbor's yar	d.	
	Note: T	he estimated wii	nd gust of 56	knots is equ	ivalent to	64 mph.				
Linn County 3 WSW Shelby	16	1650CST 1653CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
	On the e		mber 16, a st	rong storm r					ome damage to a chicken coop of 52 knots is equivalent to 60	

mph.

5101	шъ	ата ап	u O II	usua	1	athe	1 1 110		icna
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Perso: Killed		Estin Dam Property	nated age Crops	September 2017 Character of Storm
MISSOURI, Southeast									
MOZ076-086-100- 107>111	Bolling	ger - Butler - (Cape Girar	deau - Ca	rter - Perr	y - Ripley	- Scott - S	toddard -	Wayne
	14	0500CST 0800CST			0	0	0.00K	0.00K	Dense Fog
	quarter i Mississi	nile or less. The	dense fog warden dense d	as over mos lense fog od	st of southeas ccurred on th	st Missouri ne back side	with the exce	eption of the	Visibility was reduced to one- extreme southeast counties of he Appalachian Mountains. A
Cape Girardeau County Jackson		2326CST ated severe thund air mass ahead					0.00K County. The	0.00K storm occu	Hail (1.00) rred in a moist and moderately
MISSOURI, Southwest									
Miller County 1 E Iberia	04 An isola	1901CST ted strong storm	produced a	report of ha	O il.	0	0.00K	0.00K	Hail (0.88)
Barton County 3 ESE Lamar Muni Arpt	16 Pictures	1725CST from social med	lia indicated	a tree blow	0 n down at lea	0 ast a foot in	0.00K diameter sou	0.00K ath of Lamar	Thunderstorm Wind (52EG)
	Note: T	he estimated win	nd gust of 52	knots is eq	uivalent to 60	0 mph.			
Jasper County 1 ENE Jasper	16 Pictures	1730CST from social med	lia showed tr	ree limbs blo	0 own down an	0 nd broken ne	0.00K ear Jasper.	0.00K	Thunderstorm Wind (52EG)
Howell County	An isola mph.	ted severe storm	n blew down	a tree and s	some tree lim	ıbs. Note: I	The estimated	d wind gust	of 52 knots is equivalent to 60
West Plains	down. T damage.	here were nume	erous tree lin	nbs blown o	down on pow	ver lines. A	localized m	icroburst wa	Thunderstorm Wind (52EG) royed. A large tree was blown as likely the cause of the wind ivalent to 60 mph.
MONTANA, Central								-	•
	n	1 1 Tee	N I 41	D 1 M		4 6		1.01	•
MTZ008-014-052	Beaver	head - Jeffers	son - North	Rocky M	lountain Fi	ont - Sou	thern Lewi	is and Cla	rk
	15	0707MST 1245MST			0	0	0.00K	0.00K	Winter Storm
	system,	isentropic lift ge	enerated wide	espread pred	cipitation. Th	nis included	accumulatin	g snow in th	Gulf of Alaska. Ahead of this ne mountains, especially above mountains compared to farther
MONTANA, East									
MTZ016>027-059- 061>062	Garfie		- Northeri						son - Eastern Roosevelt - e - Richland - Sheridan -
	01 30	0000MST 2359MST			0	0	0.00K	0.00K	Drought
									ved normal or above normal nditions persisted through the

month.

		Time Local/	Path Length	Path Width	Nun Pers	nber of sons	Estim Dama	ige	September 20			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm			
MONTANA, East												
MTZ017	Centra	l and Souther	rn Valley									
	01	0600MST					0.00**	0.00**	***********			
	05	1600MST			0	0	0.00K	0.00K	Wildfire			
	Wildlife								the Charles M Russell National was the afternoon of the 5th after			
MONTANA, South												
MTZ067	Absarc	okee/Beartoot	h Mountai	ns								
	14	2100MST										
	16	0400MST			0	0	0.00K	0.00K	Winter Storm			
MTZ068	Crazy	Mountains										
	15	0000MST										
	16	0600MST			0	0	0.00K	0.00K	Winter Storm			
		This was more							wfall amounts were around 10 on and it was the seasons first			
MTZ067	Absard	okee/Beartoot	th Mountai	ns								
	20 23	2100MST 0100MST			0	0	0.00K	0.00K	Winter Storm			
MTZ034-039-041- 056-066-068	Beartooth Foothills - Crazy Mountains - Eastern Carbon - Northern Stillwater - Northern Sweet Grass - Red Lodge Foothills											
020 000 000		_	5									
	21 22	0830MST 0900MST			0	0	0.00K	0.00K	Winter Storm			
	The seasons first winter storm occurred across the Beartooth/Absaroka foothills and adjacent plains. The coldest air of the season ushered in high temperatures in the 30s and 40s. This combined with a moist, upslope flow, brought accumulating snow to portions of the Billings Forecast area. Trees were fully foliaged, so the heavy, wet snow resulted in numerous downed tree limbs which also resulted in downed power lines.											
MONTANA, West												
MTZ004	Lower	Clark Fork I	Region									
	13	2100MST			•		4.077	0.00**				
	14	0200MST			2	1	1.0K	0.00K	Heavy Snow			
		trough with a stor a period due			brought he	eavy snow to	the mountai	ns of west	ern Montana. Interstate 90 was			
MTZ006	Bitterr	oot/Sapphire	Mountains	S								
	14 16	2100MST 0000MST			0	0	0.00K	0.00K	Heavy Chay			
	10	00001431			O	Ü	0.00K	0.00K	Heavy Snow			
	Butte/Blackfoot Region											
MTZ007	Butte/I											
MTZ007	15 16	0000MST 0800MST			0	0	0.00K	0.00K	Heavy Snow			

large degree of change coupled with the somewhat unseasonable timing of this event produced greater than normal impacts.

		Time Local/	Path Length	Path Width	Numbe Person		Estimated Damage		September 201	
Location	Date	Standard	(Miles)	(Yards)		Injured	Property	Crops	Character of Storm	
MONTANA, West										
MTZ001	Kooter	ai/Cabinet R	egion							
	15	0400MST								
		0800MST			0	0	0.00K	0.00K	Frost/Freeze	
		and clear night damaging freez		eratures dov	wn into the mi	ddle to up	oper 20s across	s northwest	Montana which contribute	d to
MTZ003	Flathea	ad/Mission V	alleys							
	17	0400MST 0700MST			0	0	0.00K	0.00K	Frost/Freeze	
	An unse	asonably cold a	ir-mass comb	oined with c	lear condition	s created f	freezing condi	tions in the	Flathead Valley.	
MTZ005	Missou	la/Bitterroot	Valleys							
	23	0500MST								
		0730MST			0	0	0.00K	0.00K	Frost/Freeze	
	Tempera	atures dipped be	elow freezing	in the Misso	oula and Bitte	rroot Vall	eys for the firs	st time duri	ng Fall 2017.	
	24	0200MST								
		0730MST			0	0	0.00K	0.00K	Frost/Freeze	
	Tempera	atures dipped to	below freezi	ng across w	estern Montai	ıa.				
NEBRASKA, Central										
Keith County										
2 ESE Paxton	12 An emp	2130MST ty semi trailer w	as blown off	the road by	0 decaying thu	0 nderstorm	s. Blowing du	st was also	Thunderstorm Wind (52 reported.	EG)
	Decayin	g thunderstorm	s cause wind	damage. No	ote: The estim	nated wind	gust of 52 kn	ots is equiv	valent to 60 mph.	
Garden County										
9 SW Oshkosh	16 Isolated stationa		rstorms deve	loped across	0 s portions of	0 the panha	andle and nort	h central N	Hail (1.00) Jebraska to the northwest	of a
Keya Paha County										
1 NE Burton	19	1950CST			0	0			Hail (1.00)	
Keya Paha County 3 W Mills	19 An Isola Dakota.	2002CST ated Thundersto	orm develope	ed along a c	0 cold front. Th	0 e storm b	ecame severe	but quickl	Hail (1.75) y moved northeast into So	outh
Custer County										
3 WNW Sargent					0 in Custer co	0 unty. Not	e: The estima	ted wind g	Thunderstorm Wind (61 ust of 61 knots is equivaler	ŕ
NEBRASKA, East	1									
Boone County										
2 S Albion	Thunde		ped over cer	ntral and ea	stern Nebras				Hail (0.88) t frontal boundary during outh of Albion.	the
Jefferson County										
3 S Reynolds	16 Hail up	2205CST to half dollar siz	ze fell from a	storm south	0 of Reynolds.	0 Vehicles	were damage	d by the la	Hail (1.25)	

hail south of Reynolds that damaged vehicles.

An isolated severe storm developed in northeast Kansas and moved into Jefferson County and produced up to half dollar size

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Perso Killed		Estima Damag Property		September 201 Character of Storm
NEBRASKA, East									
Saunders County 1 S Yutan	24 A camp	1342CST er was flipped o	ver by damag	ging thunder	0 storm winds	0 just south	of Yutan.		Thunderstorm Wind (61EG)
	Note: T	The estimated wi	nd gust of 61	knots is equ	ivalent to 7	0 mph.			
Douglas County 1 N Valley									Thunderstorm Wind (50EG) outdoor furniture was blown ousing subdivision.
	Note: T	The estimated wi	nd gust of 50	knots is equ	ivalent to 5	8 mph.			
Platte County 2 ESE Columbus	24 Half do	1435CST llar size hail fell	just east of C	Columbus.	0	0			Hail (1.25)
Platte County 2 SE Brandts Arpt	24 Ping Po	1440CST ng Ball size hail	fell east of C	Columbus.	0	0			Hail (1.50)
Platte County 2 SE Brandts Arpt	24 A semi	1440CST trailer, u-haul tra	ailers, and a p	oower pole v	0 were blown	0 over by dar	maging thunder	storm wind	Thunderstorm Wind (61EG) is.
	Note: T	The estimated wi	nd gust of 61	knots is equ	ivalent to 7	0 mph.			
Colfax County 6 N Richland	24 Hail up	1448CST to golfball size t	fell north of I	Richland. Cro	0 ops and tree	0 leaves wer	e stripped due	to the large	Hail (1.75) hail.
Colfax County 1 S Howells		1512CST ize hail was repo				0			Hail (0.75)
	thunder produce	storms on the aft	ternoon of the fball size wh	e 24th. Tree	s were blow	n down by	damaging win	d in the Col	evelopment of isolated severe lumbus area. The same storm rm produced wind damage at
NEBRASKA, South Central	<u>l</u>								
Buffalo County Elm Creek	15	1630CST 2030CST			0	0	0.00K	0.00K	Heavy Rain
	Rainfall	l amounts between	en 3.5 and 4 i	inches fell in	Elm Creek	, resulting i	n some minor	street floodi	ng in town.
Dowgon County									
Dawson County Overton	15 Wind go	1740CST usts were estima	ted to be near	r 65 MPH. T	0 The wind was	0 s accompan	0.00K nied by pea size	0.00K e hail.	Thunderstorm Wind (56EG)
	Note: T	The estimated wi	nd gust of 56	knots is equ	ivalent to 6	4 mph.			
Dawson County 1 NNW Overton	15	1800CST 1801CST			0	0	25.00K	150.00K	Hail (1.25)
Buffalo County Elm Creek	15	1840CST 1845CST			0	0	25.00K	150.00K	Hail (1.25)
Buffalo County 2 SE Amherst	15	1930CST			0	0	0.00K	0.00K	Hail (0.88)

		Time	Path	Path	Nu	nber of	Estima		September 2017		
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Damag Property	ge Crops	Character of Storm		
NEBRASKA, South Central											
Buffalo County 3 ESE Amherst 4 N Riverdale	15	1937CST 1942CST			0	0	200.00K	3.00M	Hail (1.50)		
	Hail range	d in size from	quarters to p	oing pong ba	lls.						
Buffalo County 3 ESE Amherst 3 ESE Riverdale	15	1937CST 1940CST			0	0	200.00K	3.00M	Thunderstorm Wind (52EG)		
	Wind gusts	s were estimate	ated to be near 60 MPH and was accompanied by hail up to the size of ping pong balls.								
	Note: The	estimated win									
Buffalo County 3 NNW Elm Creek	15	1945CST			0	0	0.00K	0.00K	Hail (1.00)		
Buffalo County 6 N Riverdale	15	1953CST			0	0	0.00K	0.00K	Hail (0.88)		
Kearney County 1 N Axtell	storms for moved nor along an a County, so to northea estimated Overton in couple spo CST, and a northeast, I storm that During the across the evening. T trough was initial stor	rmed southwest theast over the axis from Northeast Daws st. New cells and 3.5 to 4 inchest to western Busters estimated as they moved bringing an embriefly produce previous night state. This from training stots over the westerns developed.	st of Holdre e following ton, KS to 6 on County, a formed to th s of rain in ffalo Count d winds of 6 northeast, th d to where the ed hail up to not, a strong co ont remaine orms may ha ern U.S., wi , surface ten	ge between hour, between hour, between O'Neill, NE and extreme ne southwes Elm Creek. y, between 10 to 65 mpl ney expande hunderstorm to the size of cool front m de stationarive been a di th a ridge of mperatures ventre of the station of the station of the stationarive been a di the station of the stationarive been a di the stationari verbene a di th	3 and 4 I seen Lexing. Among western I st with cel From 6 to Amherst and Several dother east occurred into yet hroughd rect result wer the East were in the	PM CST. The gron and Hold the original suffalo Count les repeatedly 0 8 PM CST, and Riverdale. The suffalor in the Kearney Count he day, a of the slow nut. Winds were blower 90s, version and the slow of the slo	se storms we rege. Between torms, cell my, forming a ratraining over these storms. The largest of orms formed to near Geneva evening. The hy, around 84 labecame quasical became to the from the sou with dewpoint	re joined of and 7 dergers occupation of and 7 dergers occupation of this area of this hail further to the Asthis of this stationar of this front. It is front. If the up in the up in the up in the up in the up the first over the up the up the up the first over the up the up the first over the up the u	Hail (0.88) In and evening. The first couple by other small storms as they PM CST, other storms formed curred over northwest Phelps luster oriented from southwest through 9 PM CST. A spotter hail in several locations from was 1.5 inches in diameter. A the south between 8 and 9 PM ccurred, all of the storms lifted were not severe, except for one cryfrom southwest to northeast ed to the southeast during the in the upper-levels, a longwave er the Central Plains. When the oper 50s to near 60. Mid-level er shear was 25 to 30 kts.		
NEBRASKA, West											
Kimball County Kimball	15	2230MST 2233MST			0	0	0.00K	0.00K	Hail (1.25)		
	Half dollar	r size hail was	observed at	Kimball.							
Cheyenne County Sidney	15	2321MST 2325MST			0	0	0.00K	0.00K	Hail (1.00)		
	Quarter siz	ze hail was obs	erved at Sid	ney.							
Cheyenne County Sidney	15	2325MST 2328MST			0	0	0.00K	0.00K	Hail (1.25)		
	Half dollar	r size hail was	observed at	Sidney.							
Cheyenne County 8 N Lodgepole	15	2350MST 2355MST			0	0	0.00K	0.00K	Hail (1.00)		

Quarter size hail covered the ground north of Lodgepole.

Thunderstorms produced large hail over Cheyenne and Kimball counties.

		Time Local/	Path Length	Path Width		mber of	Estim Dama		September 201	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
NEVADA, North										
Eureka County 14 WSW Eureka	04	1439PST 1445PST			0	0	0.00K	0.00K	Thunderstorm Wind (53MG)	
	A thund	erstorm wind gu	ist of 61 mpl	n was record				0.00K	Thunderstorm wind (35MG)	
	A thund	erstorm produce	1			•		e: The mea	sured wind gust of 53 knots is	
White Pine County Baker	equivale	1345PST			0	0		0.001/	Thursday was Wind (CIEC)	
	Thunder	1350PST estorm winds kn	ocked down	power lines	0 in Baker.	0 Power was ou	t through the	0.00K night.	Thunderstorm Wind (61EG)	
				•					equivalent to 70 mph.	
White Pine County										
11 ENE Lund	07	1527PST 1535PST			0	0	0.00K	0.00K	Thunderstorm Wind (73MG)	
		erstorm producent to 84 mph.	ed a wind g	ust to 84 mj	oh at the O	Cattle Camp F	RAWS. Note	: The meas	sured wind gust of 73 knots is	
Lander County	1									
6 NE Peterson Station	12	1430PST 1600PST			0	0	1.00K	0.00K	Flash Flood	
	The Lar	•	eriff's office	reported f	lash flood	ing on state	route 722 ne	ar Elkhorn	Canyon Road. Damages are	
	The Lan	der county sher	iff's office re	ported flash	flooding a	along state rou	te 722 near E	Ikhorn Can	yon Road.	
Lander County										
1 WSW Battle Mtn	14	1750PST 1800PST			0	0	5.00K	0.00K	Thunderstorm Wind (55EG)	
	Thunder	storm winds par	rtially blew o	off a roof on	a mobile l	nome in Battle	Mountain. D	amages are	e estimated.	
	Note: T	he estimated wi	nd gust of 55	5 knots is eq	uivalent to	63 mph.				
Elko County										
1 E Elko	14	2014PST 2020PST			0	0	4.00K	0.00K	Thunderstorm Wind (55EG)	
	Thunder	storm winds ble	ew power and	d telephone	lines dowr	n. Damages are	e estimated.			
		storm winds pa Elko. Note: Th						n and dowr	ned some power and telephone	
NVZ034-035	Ruby N	Mountains/eas	st Humbol	dt Range -	White P	ine				
	21	0100PST 1900PST			0	0	0.00K	0.00K	Heavy Snow	
		season winter- Ruth due to the							nt tree damage was reported in ted.	
NEVADA, South										
NVZ020	Las Ve	gas Valley								
	02 06	0000PST 2359PST			2	0	0.00K	0.00K	Heat	
	Four peo	ople in the Las V	Vegas Valley	died of hear	t related ca	auses. M62OU	U, M 38OU, F	78PH, M46	5PS	

		Time	Path	Path	Num		Estima		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Dama; Property	ge Crops	Character of Storm
NEVADA, South									
Clark County									
1 ESE Cottonwood Lndg	02	1831PST 1845PST			0	0	0.00K	0.00K	Thunderstorm Wind (47MG)
	Thundersto	orms produced	strong wind	ds near Cott	tonwood Co	ove. A man	was killed wl	hen he bec	ame entangled in the mooring
	line of a ho	ouse boat and o	lragged und	ler the wate	er.				
		noisture pusnin of 47 knots is e			nt another i	ound of thur	iderstorms to	tne Mojav	e Desert. Note: The measured
Lincoln County									
Hiko	07	1719PST 1830PST			0	0	1.00K	0.00K	Flash Flood
	A strong p		moisture p	lus low pres	ssure movir	g in from the			reak of thunderstorms over the ced flash flooding and severe
NVZ020	Las Vega	s Valley							
	08	0000PST							
	11	2359PST			2	0	0.00K	0.00K	Heat
	Three peop	le in the Las V	egas Valley	died of Hea	at related ca	uses. F26Ol	U, F62PH, M	74PH	
Clark County									
13 SSE Roach 1 S Searchlight	08	1706PST 2100PST			0	0	5.00K	0.00K	Flash Flood
1 S Sear Chilght									Tasii Tiood
	Nipton Roa	nd was closed to	o Highway 9	95 due to flo	ooding. This	s event conti	nued into Cal	ifornia.	
Clark County									
5 NE Searchlight Arpt	08	1815PST							
Cottonwood Lndg		2000PST			0	0	1.00K	0.00K	Flash Flood
	Cottonwoo	d Cove Road w	as closed du	ue to floodii	ng.				
Clark County									
6 S Nelson	09	1257PST 1300PST			0	0	0.00K	0.00K	Funnel Cloud
	A funnal al	oud was photo	aranhad hati	waan Caaral	blight and N	Ialaan I andi	na		
	A funner c	oud was photog	graphed bety	ween Searci	might and P	teison Landi	ng.		
									reak of thunderstorms over the uced flash flooding and severe
Clark County									
6 W Las Vegas N Air Term	13	1918PST 1932PST			0	0	0.00K	0.00K	Thunderstorm Wind (62MG)
	Winds gust	ted to 63 mph o	ne mile SE	of Lone Mo					, , ,
		measured wind				-			
Clark County			8			F			
7 WSW Las Vegas N Air Term	13	1926PST 1941PST			0	0	10.00K	0.00K	Lightning
	Lightning s	struck at least to	wo homes ar	nd started 10	0 tree fires.				
	An upper l	evel low pressu	re system li	ngered near	r the Califor	rnia coast, he	elping to force	e isolated t	hunderstorms over the Mojave
		couple of storm							,

108

		Time	Path	Path	Nun	nber of	Estimated		September 2017
		Local/	Length	Width	Pers	rsons Damage		ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

NEVADA, West

NVZ004

Western Nevada Basin and Range

01 0000PST

12 2359PST

0 0

Wildfire

Thunderstorms with limited rainfall produced many lightning strikes leading to several new wildfire starts in northwest Nevada and far eastern California on the 29th of August. The Tohakum 2 Fire which started in late August was not 100% contained until early September.

Washoe County

1 N (RNO)Cannon Arpt Ren

05 1450PST

1455PST

)

Thunderstorm Wind (57MG)

An outflow from a line of thunderstorms produced a 57-knot peak gust at the KRNO ASOS. Airport observers also noted that visibility dropped to 3 statute miles south of the northward-moving gust front.

0

Note: The measured wind gust of 57 knots is equivalent to 66 mph.

Pershing County (LOL)Derby Fld Lovel

05 1630PST

1635PST

)

Thunderstorm Wind (59MG)

A strong thunderstorm located near Lovelock Airport produced a wind gust of 59 knots.

Showers and thunderstorms developed each afternoon September 5th6th as an upper-level area of low pressure off the California coast slowly moved into the Great Basin. Some of these thunderstorms produced strong wind gusts and hail. Note: The measured wind gust of 59 knots is equivalent to 68 mph.

Washoe County 4 S Incline Vlg

13 1451PST

1515PST

2.01

50

Tornado (EF0)

North Lake Tahoe Fire Protection District reported a confirmed tornado/waterspout a mile off the northeastern shore of Lake Tahoe near Sand Harbor, Nevada. The position of the tornado was estimated based on a video and terrain features. Numerous other spotter photos also showed a well-defined spray ring on the water surface of Lake Tahoe. The tornado was determined to be an EF-0 as no damage was reported. This tornado was associated with a supercell thunderstorm.



A picture showing a waterspout/tornado on Lake Tahoe near the shore of Sand Harbor, Nevada in Washoe County on September 13th, 2017. The picture was taken from Crystal Bay, Nevada looking towards Sand Harbor, Nevada. Photo courtesy of Tia Rancourt, North Lake Tahoe Fire Protection District.

Lyon County 14 SE Mason

13 1510PST 1515PST

)

0

Funnel Cloud

Time Path Path Number of Estimated September 2017
Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

NEVADA, West

United States Forest Service employee reported a confirmed funnel cloud near the Rafter 7 Ranch. The funnel cloud was also photographed by Nevada Creeks and Communities at an event at Rafter 7 Ranch. The position was estimated based on the observation from the USFS employee.

Strong Thunderstorms developed over the Eastern Sierra and Northwestern Nevada on the afternoon of September 13th as an upper-level area of low pressure moved over south-central California.



A picture showing a confirmed funnel cloud that was spotted southwest of Yerington, Nevada during the afternoon of September 13th, 2017. Photo courtesy of Nevada Creeks and Communities/Rafter 7 Ranch.

Douglas County 3 N Zephyr Cove

21 1429PST 1434PST 0.44 20 0 0 Tornado (EF0)

A citizen reported a confirmed tornado/waterspout that formed two brief spin-ups on Lake Tahoe near Cave Rock, Nevada. The position of the tornado was estimated based on pictures and terrain features. The tornado was determined to be an EF-0 as no damage was reported. This tornado was non-supercellular in nature.

Showers and isolated thunderstorms developed along a surface trough beneath an upper-level area of low pressure on September 21st.



A picture showing a waterspout/tornado on Lake Tahoe near the shore of Cave Rock, Nevada on September 21st, 2017. Photo courtesy of KTVN Channel 2 News.

	D.	Time Local/	Path Length	Path Width	Per	mber of	Estim Dama	ige	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW HAMPSHIRE, North	and Cen	<u>tral</u>							
Cheshire County 1 S West Chesterfield	05	1530EST 1535EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	A severe	e thunderstorm of	downed trees	and power	lines on O	ld Ferry Road	near Cross R	oad in Wes	et Chesterfield.
	Note: T	he estimated wi	and gust of 50) knots is eq	uivalent to	58 mph.			
Cheshire County	0.5	4505000							
1 SE Westmoreland	05	1535EST 1540EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
		thunderstorm of the estimated wi				58 mph.			
Cheshire County 1 S Spofford	05	1545EST 1550EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	A severe	e thunderstorm o	downed trees	in Spofford	near Ches	sterfield Gorge	e.		
	Note: T	he estimated wi	nd gust of 50) knots is eq	uivalent to	58 mph.			
Merrimack County 1 NW Horses Corners	05	1715EST 1720EST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
	A severe	e thunderstorm of	downed trees	and power	lines on Jo	siah Bartlett I	Road in Horse	Corners.	
NEW JERSEY, South and I	environr down to gust of 5	ment was in pla the ground in st 50 knots is equiv	nce ahead of tronger cells.	the front. A . Numerous	s instabili	ty built during	g the afternoo	on, strong 1	5th. A high shear, low CAPE ow- to mid-level winds mixed ms. Note: The estimated wind
NJZ024	Easteri	n Cape May							
	03	1150EST 1350EST			2	0			Rip Current
	Wildwoo sandbar, distress. Wildwoo Crest life	od NJ on Sund were taken into Once back at so od Crest (the ne	lay, Septemb o deeper wat shore, it was ext town sout ed the body a	per 3rd. He ers. Beach s discovered the of Wildword tried to re	apparent patrol life that Mob ood) locate evive him	ly ventured o guards entered named was m ed Mohamed's until Wildwo	ut to save his d the water at issing. Surfe s body floatin od Crest Resc	s two child about 12:5 ers at the beg in the wa	e ocean at Learning Avenue in Iren who, after playing near a 50 pm to rescue the children in each near Rambler Avenue in atter about 2:50 pm. Wildwood s arrived. Mohamed was taken
Atlantic County 1 NW Buena		0653EST sized hail was 1 g hours of the 6		Buena from	0 thundersto	0 orms which m	noved from so	outh to nor	Hail (0.75) th through the area during the
		alse riding along aderstorms early		ntionary colo	l front orio	ented from no	rth to south a	cross the C	Garden State produced showers
Morris County Morristown	16 Flooding	1730EST g on I-287 South	hbound at exi	its 35 and 36	0 forced la	0 ne closures. S	0.00K tart time estin	0.00K nated.	Flood
Morris County (MMU)Morristown Muni		1730EST ain showers lea Sensor near Bird						0.00K evening of	Heavy Rain Saturday, September 16th. A
	slow mo		n showers acı	ross portions					a a tropical air mass to produce I poor drainage flooding during

Location	Date	Time Local/ Standard	Path Length	Path Width	Pers		Estin Dam:	age	September 2017 Character of Storm
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW JERSEY, South and									
NJZ014-025		n Atlantic - E	lastern Moi	nmouth					
	19	0950EST 1824EST			0	0			High Surf
	Hurrica force w		ered offshore	for several	l days. Porti	ons of our	area saw high	surf coast	al flooding and tropical storm
NJZ020-022>027	Easter Weste	n Atlantic - rn Cape May	Eastern Ca y - Westeri	ape May . n Ocean	- Eastern	Ocean - S	Southeaster	n Burling	gton - Western Atlantic -
	19	1930EST							
	20	0045EST			0	0	0.00K	0.00K	Coastal Flood
	evening		Tuesday, Sep	tember 19.					Atlantic and Cape May with the n the communities along tidal
NJZ014	Easter	n Monmouth							
	20 A fema	1400EST le was caught in	a rip current	off Asbury	2 Park, New J	0 Jersey, and p	0.00K bassed away t	0.00K he followin	Rip Current g day. F42IW
NEW MENICO, Cardan La	J NJ41.								
NEW MEXICO, Central and	<u>na Nortn</u>								
San Miguel County (LVS)Las Vegas Airport	14	1959MST 2003MST			0	0	0.00K	0.00K	Thunderstorm Wind (52MG)
	An upp the first area co moved	significant dep mbined with af quickly northea	approaching to parture from to ternoon heati and into nearby	he Four Con he monsoon ing and inst y valleys an	n flow patte tability to p id plains dui	rn since mu roduce shov ring the late	ch earlier in t wers and stor afternoon an	the summer ms near the d evening b	oft over New Mexico. This was Remnant moisture across the higher terrain. These storms nours. A storm near Las Vegas s equivalent to 60 mph.
Union County									
19 NE Des Moines	17	1815MST 1816MST			0	0	0.00K	0.00K	Hail (0.75)
	east slo interact locally	pes of the centr ed with instabil	al mountain of ity along the over the nort	chain. Mean frontal bour	nwhile, an u ndary. Show	pper level spers and stor	peed max shif m erupted ov	fted quickly er the easte	level moisture westward to the northeast across the state and rn plains and became strong to the ty where pennies fell 20 miles
Curry County									
1 NNW Clovis	22	1441MST 1443MST			0	0	0.00K	0.00K	Thunderstorm Wind (55MG)
	Southw slot wit extreme shifted	hin the base of e eastern New Macross Curry Co	ped over Never the upper transfer to device generate to the country produced to the produced t	w Mexico as ough gener ated a broke ed a peak w	rated windy en line of th vind gust to	conditions understorms 63 mph at B	across much s around the G arry Element	of the stat Caprock reg ary School	e western United States. A dry i.e. A dry line that set up over gion. A fast-moving storm that Other locations across Clovis ivalent to 63 mph.
Quay County									
2 SSW Endee	23	1930MST 1932MST			0	0	0.00K	0.00K	Thunderstorm Wind (54MG)
	Peak wi	ind gust to 62 m	ph at Endee.						
	3.4		1				1 11		1 1 1

Moisture surged northward into eastern New Mexico as a potent upper level low pressure system deepened over the western United States. A large mass of rain with numerous thunderstorms developed over eastern New Mexico during the early morning hours then shifted northeast across the region through the afternoon. Very heavy rainfall, small hail, and gusty winds impacted much of the eastern plains well into the night. A mesonet site within eastern Quay County reported a 62 mph wind gust from one of the stronger storms. Note: The measured wind gust of 54 knots is equivalent to 62 mph.

		Time Path Pat Local/ Length Wi				mber of sons	Estim Dama		September 2017			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm			
NEW MEXICO, Central	and North											
Roosevelt County												
Portales	25	1500MST										
	26	0600MST			0	0	0.00K	0.00K	Heavy Rain			
	two mile	es southwest of Mostly minor fl	Portales rep	orted 4.04	inches and	d another spot	tter 8 miles s	outh-south	s around Portales. An observer east of Portales reported 5.42 hificant flooding through early			
DeBaca County												
Taiban	25	1530MST										
1410411	20	1730MST			0	0	0.00K	0.00K	Flash Flood			
	State highway 294 closed due to flash flooding between mile markers 0 and 15.											
Roosevelt County												
8 SE Portales Arpt	25	1635MST										
6 SE I ortales Al pt	23	1637MST			0	0	0.00K	0.00K	Hail (0.75)			
	northwa eastern p showers Curry, R flash flo	rd into the New blains during the and thunderstor coosevelt, and Q	Mexico. As early mornions that devolute counties al inches of	nother large ng hours of eloped by the s through the small hail.	area of he the 25th, r e mid to la e night. A Numerous	eavy rain with esulting in sat ate afternoon h powerful stor road closures	n embedded t urated soils a nours dumped im that move were reported	hunderstor cross much I torrential d through t	dant moisture and instability ms surged northward over the tof the area. The next round of rainfall over Chaves, De Baca, he Fort Sumner area produced storm that moved through the			
Sandoval County												
3 WSW Rio Rancho	28	1900MST										
		2200MST			0	0	50.00K	0.00K	Flash Flood			
	Four hor	nes flooded alor	ng Arlene Ro	oad in Rio R	ancho fron	n nearby Lisbo	on Channel ar	тоуо.				
Sandoval County												
1 ENE Rio Rancho	28	1900MST										
		2200MST			0	0	75.00K	0.00K	Flash Flood			
		ble Moments da oadways.	ay care was	closed due	to flood da	amages for fo	ur days. Lots	of mud, s	and, and debris were covering			
Cibola County												
2 W Acoma Pueblo	29	1255MST										
5 S Seama		1345MST			0	0	0.00K	0.00K	Flash Flood			
	Tribal po	olice reported ha	il and flash	flooding thr	oughout A	coma Pueblo.						
San Juan County												
	29	1345MST										
3 SE Farmington	29	1345MST 1430MST			0	0	0.00K	0.00K	Flash Flood			
		1430011			U	U	0.00K	0.00K	1 14811 1 100U			
	Flash flo	oding along U.S	S. Highway (64 at Brown	ing Street.							

		Time	Path	Path	Nun	nber of	Estimated		September 2017
		Local/	Length	Width	Pers	ons	Damag	ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

NEW MEXICO, Central and North

Cibola County



A picture of torrential rainfall that produced flash flooding in Farmington, New Mexico on September 29th, 2017. Photo courtesy of NWS Meteorologist Jennifer Shoemake.

3 NNW Acoma Pueblo	29	1345MST 1348MST	0	0	0.00K	0.00K	Hail (1.00)
	Nickel	to quarter size hail at Acoma Pueblo.					
Cibola County							
Acoma Pueblo	29	1418MST					
		1530MST	0	0	0.00K	0.00K	Flash Flood
	Tribal p	police reported flooding along Acoma	Creek.				
Socorro County							
Veguita	29	1628MST					
, cg	->	1632MST	0	0	50.00K	0.00K	Hail (1.75)
	Hail up	to the size of golf balls reported in V	eguita. Vehicle v	vindshields	damaged from	large hail	. Damages estimated.
Socorro County							
Veguita	29	1630MST					
9	_,	1745MST	0	0	50.00K	0.00K	Flash Flood
	Mobile	home flooded in Veguita with three t	feet of water.				
Valencia County							
1 NW Belen	29	1645MST					
TIVI Detell	2)	1845MST	0	0	7500.00K	0.00K	Flash Flood
		10-1311131	U	U	7500.00K	0.00K	1 10011 1 1000

Retention ponds in Belen overflowing into neighborhoods on west side of Belen. Widespread street flooding in town. Travel along Interstate 25 becoming very difficult as water is ponding along the highway.

Time Path Path Number of Estimated September 2017
Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

NEW MEXICO, Central and North



A picture of severe thunderstorms with torrential rainfall that produced flooding in Belen, New Mexico on September 29th, 2017. Photo courtesy of KRQE.

Valencia County 2 NW Jarales 2 WSW Turn

29 1700MST 1900MST 0 0 0.00K 0.00K Flash Flood

Interstate 25 closed between Belen and U.S. Highway 60 due to flooding over the highway. Mud, rocks, and debris overflowing from mesa on west side of highway.



A picture of torrential rainfall that forced a retention pond along Interstate 25 near Belen, New Mexico to overflow onto the highway on September 29th, 2017. Photo courtesy of Aymara Bustos Cadena.

Socorro County 1 NE Bernardo 1 WNW Veguita

29 1722MST 1930MST 0 0 0.00K 0.00K Flash Flood

All lanes of Interstate 25 closed due to mud, rocks, and debris rushing over the highway from nearby mesas and retention ponds.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Pers Killed	nber of ons Injured	Estim Dama Property		September 2017 Character of Storm
NEW MEXICO, Central and	North								
Socorro County 3 E Bernardo	29	1800MST 1930MST			0	0	0.00K	0.00K	Flash Flood
	State road	304 closed at U.	S. Highway	60 due to 1	looding.				
Socorro County 1 SW Abeytas	29	1815MST 1915MST			0	0	0.00K	0.00K	Flash Flood
	State road	116 closed arou	nd Abeytas	due to flash	flooding.				
Cibola County 1 NW Correo	30	1355MST 1357MST	2.45	30	0	0	0.00K	0.00K	Tornado (EF0)

A tornado touched down briefly along Interstate 40 near state highway 6. No damage was reported. The large wall cloud and associated funnel was observed from the NWS office in Albuquerque.



A picture of a supercell thunderstorm 30 miles west of Albuquerque, New Mexico that produced a brief tornado along Interstate 40 near State Highway 6 on September 30th, 2017. Photo courtesy of KOAT.

Sandoval County Jemez Pueblo	30	1512MST 1514MST	0	0	0.00K	0.00K	Hail (0.88)
Colfax County 1 N Springer	30	ckel size hail reported at Jemez Pueblo. 1613MST 1615MST the size of half dollars reported in Springe	()	0	0.00K	0.00K	Hail (1.25)
Sandoval County 2 SW Rio Rancho	30	1645MST 1648MST the size of pennies in Rio Rancho.	0	0	0.00K	0.00K	Hail (0.75)
Sandoval County 4 WNW Bernalillo	30	1650MST 1653MST	0	0	0.00K	0.00K	Hail (1.10)

Hail up to the size of slightly larger than a quarter on northwest edge of Enchanted Hills.

Time Path Path Number of Estimated September 2017
Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

NEW MEXICO, Central and North



A picture of a wall cloud associated with a severe thunderstorm crossing U.S. Highway 550 in Rio Rancho, New Mexico on September 30th, 2017. Photo courtesy of Tim Korte.

Sandoval County 1 ENE Rio Rancho	30	1656MST 1658MST	0	0	0.00K	0.00K	Hail (1.00)
	Hail up	to the size of pennies near Northe	rn and Rockaway.				
Santa Fe County							
Golden	30	1710MST 1712MST	0	0	0.00K	0.00K	11-:1 (0.99)
		1/12MS1	0	U	0.00K	0.00K	Hail (0.88)
	Hail up	to the size of nickels in Golden.					
Valencia County							
Tome	30	1750MST					
		1753MST	0	0	0.00K	0.00K	Hail (1.00)
	Hail up	to the size of quarters near Tome.					
Valencia County							
Rio Communities	30	1755MST					
		1915MST	0	0	0.00K	0.00K	Flash Flood
	Public r	eported the streets turned into ragi	ng rivers in Rio Cor	mmunities 1	from a severe	thundersto	rm.
Valencia County							
Rio Communities	30	1755MST					
		1758MST	0	0	0.00K	0.00K	Thunderstorm Wind (61EG)
	Peak wi	nd gust up to 70 mph with severe	storm in Rio Comm	unities.			

Note: The estimated wind gust of 61 knots is equivalent to 70 mph.

Time Path Path Number of Estimated September 2017
Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

NEW MEXICO, Central and North



A picture of a supercell thunderstorm approaching Belen, New Mexico on September 30th, 2017. Photo courtesy of John Sirlin.

Valencia County Rio Communities

30 1757MST 1801MST 0 0 0.00K 0.00K Hail (1.50)

Hail up to the size of ping pong balls near Rio Communities.

The potent upper low pressure system responsible for severe thunderstorms and flooding over eastern New Mexico between the 22nd and 25th began lifting slowly northeast into the central Rockies on the 26th and 27th. Daily rounds of showers and thunderstorms with heavy rainfall, hail, and strong winds began spreading westward to include much of central and western New Mexico through this period. This additional heavy rainfall set the stage for a more widespread flooding event through the end of September. Widespread three day rainfall reports averaged between two and five inches within central New Mexico. Several stations reported record daily rainfall amounts and placed September 2017 into the top 5 wettest Septembers on record. A potent storm that moved across Rio Rancho late on the 28th forced water into four homes along Arlene Road. A cluster of thunderstorms with torrential rainfall moved across western New Mexico during the early afternoon hours on the 29th and produced flash flooding around Farmington and Acoma Pueblo. These storms then shifted eastward and produced severe hail and flash flooding along much of the Interstate 25 corridor between Los Lunas, Belen, and Bernardo. Interstate 25 was closed for several hours as water flooded over the highway. Powerful storms developed again on the 30th and produced more flash flooding, severe hail, high winds, and even a tornado west of Albuquerque.



A picture of large hail produced by a supercell thunderstorm near Belen, New Mexico on September 30th, 2017. Photo courtesy of Eathin Lockhar.

		Time Local/	Path Length	Path Width	Numb Perso		Estim Dama		September 20
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW MEXICO, South Centr Grant County 17 ESE Playas	28	outhwest 1945MST proken window	vs were repor	ted in Hach	0 ita due to the	0 e hail.	5.00K	0.00K	Hail (1.75)
Grant County 17 SSW Wilna	An upper	1954MST sized hail abou low over the G evere thunders	Great Basin v	with southw	est flow ahe	0 ad of it co Hail up to	0.00K mbined with n the size of go	0.00K noist, easter lf balls was	Hail (1.75) rly low level winds to produce reported with these storms.
Grant County 4 NNW Silver City 3 WSW Slvr City Turner Arp	30	0027MST 0400MST			2	0	0.00K	0.00K	Flash Flood
	rescue wa The vehic body was	s necessary in the became we recovered abo	Tyrone. One edged in culvout 0.8 miles	e vehicle wa vert running downstrear	s swept awa under US 1 n near the c	y in the Pi 180, but the onfluence	nos Altos Cree e driver and o with Silva Cre	ek low wate ccupant we eek. A seco	early morning hours. A water er crossing on East 19th Street. ere washed downstream. One ond body was recovered about idway Street bridge. M47IW,
	surface hi thunderst inches of	igh was locate orms develope	ed over the need in the earl	nidwest wit ly morning	h strong eas hours of Se	terly wind ptember 30	s keeping Gul and trained	f moisture over the Si	the southern plains. A strong across the region. Nocturnal lver City area with up to 3.45 n 2 fatalities in the Pinos Altos
NEW MEXICO, Southeast Eddy County 12 SW Whites City	23	1715MST 1720MST			0	0	3.00K		Hail (1.75)
	windows		les, a bedroo	m window a					of Whites City. The hail broke nning lights on a camper. The
	An upper		er Nevada aı	nd Idaho an				provided li	ift, and there was a plethora of
NEW YORK, Central									
Yates County 2 SE Dresden	14	0845EST 1025EST			0	0	50.00K	0.00K	Flash Flood
	A seasona of Seneca		estroyed by a	torrent of v	water, rocks	and mud d	ebris sliding d	lown a stee	p hillside on the western shore
Yates County 2 SE Dresden	14	0900EST 1025EST			0	0	40.00K	0.00K	Flash Flood
									n the western shore of Seneca ed with mud and debris.

producing thunderstorms across the Finger Lakes region. Flash flooding, and isolated debris flows, along the western shore of Seneca Lake were the result of local downpours in excess of 2 inches per hour.

A slow moving area of weak low pressure drifted across western and central New York producing areas of heavy rain

		Time Local/	Path Length	Path Width	Nun Pers	nber of ons	Estin Dam		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW YORK, Coastal Putnam County 2 NW Osoawana Corners	05 Trees w	1553EST ere reported do	wn on Canop	us Hill Road	0 I, east of Ro	0 oute 9.	2.50K		Thunderstorm Wind (52EG)
	Note: T	he estimated w	ind gust of 52	knots is eq	uivalent to	60 mph.			
Putnam County 1 SSW Manitou	05 Trees w	1555EST ere reported do	wn on New Y	ork State Ro	0 oute 9D, on	0 e-quarter of	1.00K a mile north o	of Bear Mo	Thunderstorm Wind (52EG) untain Bridge.
	Note: T	he estimated w	ind gust of 52	knots is eq	uivalent to	60 mph.			
Putnam County 1 SSW Putnam Lake	05 A tree w	1619EST was reported dov	wn near 450 E	East Branch	0 Road in Pu	0 tnam Lake.	1.00K		Thunderstorm Wind (52EG)
0 m n 0		roaching cold for equivalent to 6		l isolated se	vere thund	erstorms in	Putnam Cour	nty. Note:	The estimated wind gust of 52
Suffolk County Shelter Is		0830EST				0	1.50K		Thunderstorm Wind (52EG)
Suffolk County	Note: 1	he estimated w	and gust of 52	knots is eq	uivalent to	60 mph.			
Orient Rose Fld Arpt	06 A tree w	0835EST vas reported dov	wn on Old Ma	ain Road , ju	0 st north of	0 Main Road (1.00K (25) in Orient		Thunderstorm Wind (52EG)
		ng cold front tri sst of 52 knots i			e thunderst	orm which is	mpacted East	ern Suffolk	c County. Note: The estimated
NYZ081	Southe	east Suffolk							
	16	1300EST 1400EST			2	1	0.00K	0.00K	Rip Current
	The inc	oming energet	ic swells res by NWS Nev	ulted in hig w York, NY	h surf and to alert o	dangerous : f this threat	rip current d . Unfortunate	evelopmen ely, a man	nt on Saturday September 16th. at on Saturday. A Rip Current drowned at Coopers Beach in
NYZ080-179	Southe	east Suffolk -	Southern N	lassau - So	outhwest S	Suffolk			
	19 20	0600EST 1200EST			0	0	0.00K	0.00K	High Surf
	150 to 2 observe threshol elevated	200 miles south d during the T lds being exce	neast of Mon luesday Nigh eded along the combined wi	tauk Point T t and Wedn he southern th incoming	Tuesday ni esday mor bays and g energetic	ght into We ning high ti Atlantic sho swells fron	dnesday mor des, resulting ore front com n Jose, also b	ning. Gene g in minor nmunities c	19th, eventually passing about erally 1 to 2 feet of surge was to isolated moderate flooding of NYC and Long Island. The rf of 7 to 13 feet. This caused
NEW YORK, East									
Dutchess County 1 SSE Diddell	05 The pub	1448EST blic reported a tr	ree down on a	house due t	0 o thunderst	0 form winds.			Thunderstorm Wind (50EG)
	Note: T	he estimated w	ind gust of 50	knots is eq	uivalent to	58 mph.			
Dutchess County 1 E Diddell	05 Trees ar	1450EST nd wires were b	lown down oi	n Route 376	0 due to thur	0 nderstorm wi	nds.		Thunderstorm Wind (50EG)
	Note: T	he estimated w	ind gust of 50	knots is eq	uivalent to	58 mph.			

		Time Local/	Path Length	Path Width	Numi Perso	ber of	Estimate Damage		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW YORK, East									
Schenectady County 2 WNW Carman	05 Trees an	1604EST d wires were re	eported down	due to thun	0 derstorm wir	0 nds.			Thunderstorm Wind (50EG)
	these ste		evere in the	Capital Dis	trict and Mi				orms on September 5. A few of I damage reported. Note: The
Rensselaer County 1 E Petersburg	A strong		sturbance res	ulted in scat	tered showe				Thunderstorm Wind (50EG) September 7. One of the storms t of 50 knots is equivalent to 58
NEW YORK, West									
NYZ001>007	Jeffers	on - Monroe	- Niagara -	Northern	Cayuga -	Orleans -	Oswego - Wa	yne	
	01 30	0000EST 2359EST			0	0			Coastal Flood
	Inflows months surface: River fle and coni building occurrec summer limit wi Lawrenc end, dar	to Lake Ontarie ever recorded i and by runoff. ows limited out inued into early s were affected l. Sanitary sew long with unkn thin 600 feet of the River sustain nage estimates on in Wayne O	o from Lake in April and in April and in Variable ice offlow from Lay fall. Waves flood waters are systems in own economic the Lake Oned enough daincluded: \$4	Erie were ab May of 201' conditions i ake Ontario. s destroyed I . Several ho n lakeside co- ic losses to ntario and S amage to qua- Million in	ove average 7. Water lev n the St. Lav The lake roublic and proposed mes dropped ommunities mainly sease t. Lawrence alify for both Niagara Cou	e from Januvels were in wrence Riveched a rerivate breakd off bluffs were affected busines River should a New Younty, \$9 Min	nary through Jun mpacted by prece er from January coord level of 24 cwalls all along to In some areas eted. Beaches, r sses. In late Ma re. The shorelin ork State and Fec illion in Orleans	e. Lake ipitation through 8.95 feet he lake shoreline narinas ay, the Gone countieral Discounty,	me of year for almost 20 years. Ontario saw two of the wettest falling directly onto the lakes March along with high Ottawa t. Flooding began in early May shore. Thousands of homes and e erosion of 50 to 100 feet deep and state parks were closed all overnor imposed a 5 mph speed ies of Lake Ontario and the St. aster Declaration. By summers \$3 Million in Monroe County, and \$10 Million in Jefferson
Chautauqua County 1 W Ripley	04 Law enf	2124EST orcement repor	ted trees dow	n by thunde	0 rstorm wind	0 s.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated w	ind gust of 50	knots is eq	uivalent to 5	8 mph.			
Chautauqua County 1 NW Dunkirk		2126EST orcement repor		•			10.00K	0.00K	Thunderstorm Wind (50EG)
Chautauqua County 1 S Bournes Beach		2128EST				0	20.00K	0.00K	Thunderstorm Wind (50EG)
Chautauqua County 1 W Westfield	04	he estimated with the strength of the strength			0	0	15.00K ute 20 in Westfie	0.00K eld.	Thunderstorm Wind (50EG)
CI	Note: T	he estimated w	ind gust of 50	knots is eq	uivalent to 5	8 mph.			
Chautauqua County 1 S Silver Creek		2133EST orcement report the estimated with the control of the cont					20.00K	0.00K	Thunderstorm Wind (50EG)

		Time	Path	Path	Number	of	Estim		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Persons Killed It	njured	Dama Property	ge Crops	Character of Storm
NEW YORK, West									
Chautauqua County Brocton	04 The may	2134EST or of Brocton r	eported a rov	w of eight tre	0 ees downed by	0 hunderstor	15.00K rm winds.	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Genesee County North Pembroke	04	2136EST			0 erstorm winds o	0	8.00K h Road.	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Chautauqua County 2 NE Lamberton	04 Note: Tl	2140EST he measured wi	nd gust of 52	2 knots is eq	0 uivalent to 60 n	0 nph.		0.00K	Thunderstorm Wind (52MG)
Chautauqua County 1 NW Dunkirk Muni Arpt	04 Note: Ti	2145EST he measured wi	nd gust of 51	l knots is eq	0 uivalent to 59 n	0 nph.		0.00K	Thunderstorm Wind (51MG)
Chautauqua County 3 N Cherry Creek	04 The publ	2151EST ic reported tree	es and wires o	downed by tl	0 hunderstorm wi	0 nds.	12.00K	0.00K	Thunderstorm Wind (50EG)
	Note: The	ne estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Cattaraugus County 1 N Perrysburg	04 Law enfo	2154EST predefent report	ted trees and	wires down	0 ed by thunderst	0 orm winds	15.00K along Route	0.00K e 39.	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Cattaraugus County Dayton	04 Law enfo	2156EST preement report	ted trees dow	ned by thun	0 derstorm winds	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Cattaraugus County 1 SW Gowanda	04 Law enfo	2156EST orcement report	ted trees dow	ned by thun	0 derstorm winds	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Ti	he estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Erie County 4 SE New Oregon	04 Law enfo	2208EST preement report	ted trees dow	ned by thun	0 derstorm winds	0	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: The	he estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Erie County 1 NW Springville	04 Law enfo	2210EST preement report	ted trees dow	ned by thun	0 derstorm winds	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Erie County 1 W East Aurora	04 Reports	2210EST of downed trees	s by thunders	storm winds	0 were noted on	0 social medi	8.00K ia.	0.00K	Thunderstorm Wind (50EG)
	Note: Ti	he estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			
Chautauqua County Lakewood	04 Law enfo	2215EST preement report	ted trees dow	ned by thun	0 derstorm winds	0	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	nd gust of 50) knots is eq	uivalent to 58 n	nph.			

	Time Path Path Number of Local/ Length Width Persons Date Standard (Miles) (Varie) Killed Injured				Estim Dama	ge	September 2017		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW YORK, West									
Chautauqua County Celoron	04 Law enf	2217EST orcement report	ed trees dow	ned by thun	0 derstorm wir	0 ads.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is equ	uivalent to 58	3 mph.			
Chautauqua County 1 N Celoron	04 Social m	2218EST nedia showed a t	ree, downed	by thunders	0 torm winds,	0 that landed	15.00K on a house.	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is equ	uivalent to 58	3 mph.			
Erie County Sardinia	04 Law enf	2219EST orcement report	ed trees dow	ned by thun	0 derstorm wir	0 ads.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is equ	uivalent to 58	3 mph.			
Chautauqua County 1 S Levant		2220EST storm winds do he estimated wi		-		0 3 mph.	8.00K	0.00K	Thunderstorm Wind (50EG)
Wyoming County Arcade		2220EST storm winds do the estimated wi			0 uivalent to 58	0 3 mph.	5.00K	0.00K	Thunderstorm Wind (50EG)
Wyoming County 3 WSW Attica	04 Thunder	2220EST estorm winds car	used substant	tial damage t	0 to trees at a g	0 golf course.	30.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is equ	uivalent to 58	3 mph.			
Cattaraugus County 1 W Onoville		2222EST storm winds do he estimated wi		-		0 3 mph.	8.00K	0.00K	Thunderstorm Wind (50EG)
Chautauqua County 1 N Busti	04 Law enf	2241EST orcement report	ed trees dow	ned by thun	0 derstorm wir	0 ads.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is equ	uivalent to 58	3 mph.			
Cattaraugus County 1 NW Humphery	04 Law enf	2245EST orcement report	ed trees dow	ned by thun	0 derstorm wir	0 ads.	6.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is equ	uivalent to 58	3 mph.			
Ontario County 1 N Manchester Center	04 Law enf	2250EST forcement report	ed wires dow	vned by thur	0 nderstorm wi	0 nds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is equ	uivalent to 58	3 mph.			
Ontario County 2 SW Port Gibson	04 Note: T	2255EST he measured wi	nd gust of 50) knots is equ	0 uivalent to 58	0 3 mph.		0.00K	Thunderstorm Wind (50MG)
Wayne County 1 SE Newark	04 Law enf	2258EST orcement report	ed wires dow	vned by thur	0 nderstorm wi	0 nds.	6.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is equ	uivalent to 58	3 mph.			

		Time	Path	Path		mber of	Estima		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	rsons Injured	Dama Property	ge Crops	Character of Storm
NEW YORK, West									
Cattaraugus County Olean	04 Law enfo	2309EST preement reporte	ed trees dow	ned by thun	0 derstorm v	0 winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	nd gust of 50) knots is eq	uivalent to	58 mph.			
Cattaraugus County 1 N Westons Mills	04 Law enfo	2313EST orcement reporte	ed trees dow	ned by thun	0 derstorm v	0 winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated wii	nd gust of 50	knots is eq	uivalent to	58 mph.			
Allegany County 1 SW Friendship	04 Law enfo	2320EST orcement reporte	ed trees and	wires down	0 ed by thun	0 derstorm wind	12.00K Is.	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	nd gust of 50	knots is eq	uivalent to	58 mph.			
Oswego County 1 SE South Hannibal	04 Law enfo	2322EST orcement reporte	ed trees and	wires down	0 ed by thun	0 derstorm wind	12.00K ls.	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	nd gust of 50	knots is eq	uivalent to	58 mph.			
Allegany County 3 S Phillips Creek	04 Law enfo	2334EST preement reporte	ed trees and	wires down	0 ed by thun	0 derstorm wind	10.00K ls.	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	nd gust of 50) knots is eq	uivalent to	58 mph.			
Ontario County Geneva	04 Law enfo	2334EST orcement reporte	ed trees and	wires down	0 ed by thun	0 derstorm wind	10.00K ls.	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	nd gust of 50) knots is eq	uivalent to	58 mph.			
Allegany County 3 S Alfred	04 Law enfo	2338EST preement reporte	ed trees and	wires down	0 ed by thun	0 derstorm wind	12.00K ls.	0.00K	Thunderstorm Wind (50EG)
	overnigh Finger La ones in S garage w	t hours. The thakes region. Wi Silver Creek, C	understorm ind gusts we eleron and J foundation.	winds dow ere measured famestown. Several ros	ned trees d to 61 mp Approxin ads were	and power lir bh. Several ho nately 70 trees closed by falle	nes throughous omes and cars is at a golf cou on trees and d	it parts of were dam arse near a ebris inclu	ng the late evening and early the western southern tier and laged by falling trees including Attica toppled. In Westfield, a lading ones in Perrysburg, East 8 mph.
Chautauqua County 1 W Waterboro	14	0330EST							
1 W Waterboro	14	0730EST			0	0	15.00K	0.00K	Flash Flood
	morning		nined nearly	stationary.	Rainfall a	mounts in just	a couple of h		ms developed during the early eded three inches. In Kennedy,
NORTH CAROLINA, Cent	ral								
Richmond County 1 E Ellerbe		1335EST was blown downe estimated win			0 uivalent to	0 58 mph.	0.50K	0.00K	Thunderstorm Wind (50EG)
Wayne County 1 NE Dobbersville 3 WNW Dudley	01	1350EST 1403EST	-		0	0	0.00K	0.00K	Hail (1.00)

Brogden.

Hail to 1 inch in diameter was reported along a swath from 6 miles northeast of Hobbton to approximately 4 miles west of

				Path Path Number Length Width Persons			Estim		September 20	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dama Property	rge Crops	Character of Storm	
NORTH CAROLINA, Cent	tral									
Moore County 1 N West End 2 NW Murdocksville	01	1410EST 1415EST			0	0	1.00K	0.00K	Thunderstorm Wind (50EG)	
	Two tree	es were blown de	own along a	swath from	Carthage 1	Road in Sever	Lakes to Ro	ute 73 near	Taylortown.	
	Note: T	he estimated wir	nd gust of 50	knots is equ	uivalent to	58 mph.				
Wayne County 4 E Dobbersville	01 A large,	1410EST live oak tree fel	l on a mobile	e home at 51	0 2 Crows I	0 Foot Road nea	15.00K r Grantham S	0.00K chool Road	Thunderstorm Wind (50EG)	
	Note: T	he estimated wir	nd gust of 50	knots is equ	uivalent to	58 mph.				
Randolph County 1 E Ramseur	01 One tree	1445EST was blown dow	n on to utilit	y lines on B	0 rooklyn A	0 venue. Dime	5.00K size hail was	0.00K also reporte	Thunderstorm Wind (50EG) and 2 miles southwest of Ulah.	
	Note: T	he estimated wir	nd gust of 50	knots is equ	uivalent to	58 mph.				
Lee County 1 SSW Tramway 1 NE Sanford Muni Arpt	01	1452EST			0	0	8.00K	0.00K	Thunderstorm Wind (50EG)	
	Numero	us trees were blo	own down al	ong a swath	from Tran	nway to Sanfo	ord.			
	Note: T	he estimated win	nd gust of 50	knots is equ	uivalent to	58 mph.				
Lee County 1 W Sanford 2 ESE Jonesboro	01	1500EST 1510EST			0	0	75.00K	0.00K	Thunderstorm Wind (50EG)	
	Numero was blo roof col	wn down onto a	own down al- car and anot	ong a swath ther tree was	from nort s blown do	h of Sanford town onto a ho	o approximat ouse. Two add	ely 3 miles litional stru	southeast of Sanford. One tree ctures reported damage with a	
	Note: T	he estimated win	nd gust of 50	knots is equ	uivalent to	58 mph.				
Lee County 1 W Jonesboro	01	1520EST			0	0	0.00K	0.00K	Hail (1.00)	
Harnett County 1 NE Angier	01 Numero	1545EST us trees were blo	own down ac	ross norther	0 n portions	0 of Harnett Co	8.00K ounty.	0.00K	Thunderstorm Wind (50EG)	
	Note: T	he estimated win	nd gust of 50	knots is equ	uivalent to	58 mph.				
Wake County 2 W Fuquay Spgs 1 NE Fuquay Spgs Arpt	01	1555EST 1615EST			0	0	10.00M	0.00K	Hail (2.75)	
		to 2.75 inches in							rina to 3 miles north of Angier.	
Moore County 1 ESE Carthage Glendon	01	1600EST	own along a	ewath from	0 NC 24-27	0 in Carthaga t	1.00K	0.00K	Thunderstorm Wind (50EG)	
							o Giendon Ca	ruiage Koat	d, 6 miles east of Glendon.	
Waka County	Note: T	he estimated win	nd gust of 50	knots is equ	uivalent to	58 mph.				
Wake County 1 SSE Williams Xrds	01 Hail up	1603EST to 1 inch in diam	neter fell on l	Feldman Dri	0 ive south-s	0 southwest of C	0.00K Garner.	0.00K	Hail (1.00)	

		Time	Path Path				Estim		September 201	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	ige Crops	Character of Storm	
NORTH CAROLINA, Ce	entral									
Harnett County	<u> </u>									
1 NW Angier	01 One tree	1603EST e was blown dov	wn onto Raws	s Church Ro	0 ad, blocking	0 g the road.	0.50K	0.00K	Thunderstorm Wind (50EG)	
	Note: 7	The estimated w	ind gust of 50) knots is eq	uivalent to 5	58 mph.				
Harnett County				•		•				
2 NNW Angier	01	1605EST 1610EST			0	0	2.00M	0.00K	Hail (2.75)	
	Hail up	to 2.75 inches f	ell across nor	thern Harne	tt County. F	roperty dam	age values ha	ve been est	timated.	
Johnston Country										
Johnston County 5 NW Hardy Xrds	01 One tree	1608EST e was blown dov	wn onto a roa	dway appro	0 ximately 4 1	0 miles east-no	0.50K rtheast of An	0.00K gier.	Thunderstorm Wind (50EG)	
	Note: T	The estimated w	ind gust of 50) knots is eq	uivalent to 5	58 mph.				
Wake County 1 WNW Green Level	01	1630EST			0	0	0.00K	0.00K	Hail (1.00)	
Hoke County	0.1	1 < 10 F G F								
1 SSE Montrose 2 NNE Timberland	01	1640EST 1642EST			0	0	25.00K	0.00K	Thunderstorm Wind (60EG)	
	primary		roperty. The						also some roof damage to the d pine trees in the neighboring	
	Note: T	The estimated w	ind gust of 60) knots is eq	uivalent to 6	69 mph.				
Wake County 2 S Brookhaven	01 Multiple	1721EST e trees were blo	wn down onte	o power line	0 s and equip	0 ment.	4.00K	0.00K	Thunderstorm Wind (50EG)	
	Note: T	The estimated w	ind gust of 50) knots is eq	uivalent to 5	58 mph.				
Wake County			C	1						
2 WSW Wake Forest 1 NNW Wyatt	01	1735EST 1815EST			0	0	0.00K	0.00K	Flash Flood	
2111111 119400	Heavy r	rain resulted in f	lash flooding	on the US-				0.0011	T Mon T Tood	
	Ticavy I	am resured in i	iasii rioodiiig	, on the OB	i Boutilooui	id ramp from	1110 70.			
Franklin County										
2 NNW New Hope	01 Multiple	1750EST e trees were blo	wn down onto	o a power lii	0 ne and powe	0 er equipment	4.00K	0.00K	Thunderstorm Wind (50EG)	
	N-4 7	71	:1+ -£ 50) 14- :		501-				
Johnston County	Note: 1	The estimated w	ina gust of 50) knots is eq	uivaient to :	ов трп.				
Johnston County Clayton	01	1815EST								
		1950EST			0	0	0.00K	0.00K	Flash Flood	
		rain resulted in 3 miles west of							rive was impassable. A trained	
Cumberland County										
1 SE Clifdale	01	1920EST								
2 E Fenix		2125EST			0	0	0.00K	0.00K	Flash Flood	
	Heavy r	ain resulted in f	lash flooding	of multiple	roads near	Raeford Road	d and Skibo F	Road on the	west side of Fayetteville.	
									moved northeastward through	

producing damaging wind gusts, large hail and flash flooding.

Tennessee and Kentucky. In the wake of the northward moving warm front, a cold front moved into and stalled over Central North Carolina providing lift in the strongly sheared, moist environment. The resulting thunderstorms became severe,

		Time Local/	Path Length	Path Width	Numb Perso	ns	Estim Dama	ige	September 20 Character of Storm		
ocation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
ORTH CAROLINA, Ce Lenoir County	ntral Coast	<u>al</u>									
4 ESE Pink Hill	01 Lenoir C	1815EST County emergen	cy manager i	eported dan	0 nage to 3 to 4	0 4 buildings	on Snags Path	ı Rd and Tı	Thunderstorm Wind (50EG) urner Farm Ln.		
	Note: T	he estimated wi	ind gust of 50) knots is eq	uivalent to 5	8 mph.					
Greene County Maury		1820EST ere blown down he estimated wi			-	0 8 mph.			Thunderstorm Wind (50EG)		
Craven County 2 SSE Honolulu	01 Large br	1932EST anches were blo	own down, aı	nd an awnin	0 g and swing	0 set were de	stroyed at a lo	ocal restaur	Thunderstorm Wind (50EG) rant.		
	Note: T	he estimated wi	ind gust of 50	knots is eq	uivalent to 5	8 mph.					
Pitt County 1 SSE Greenville	01 Reports	2058EST of stalled vehic	les across sev	veral location	0 ns around Gi	0 reenville.	0.00K	0.00K	Flash Flood		
Greene County 1 NNE Shines Xrds	01 Road clo	2145EST osed at Hwy 13	S and Shine I	Rd due to hig	0 gh waters.	0	0.00K	0.00K	Flash Flood		
Greene County 1 SSE Walstonburg	01 Fildsbor	2150EST o Rd in Walston	nburg closed	due to high	0 water.	0	0.00K	0.00K	Flash Flood		
Greene County 4 SE Ormandsville	01 Intersect	2205EST ion of Artis Ce	metery Rd an	ıd Edwards l	0 Bridge Rd cl	0 osed due to	0.00K high water.	0.00K	Flash Flood		
Greene County 2 E Castoria	01 Taylor R	2229EST	high water.		0	0	0.00K	0.00K	Flash Flood		
Greene County 1 E Arba	01 Intersect	2235EST ion between Je	sse Hill Rd a	nd Hull Rd c	0 closed due to	0 high water	0.00K	0.00K	Flash Flood		
Lenoir County 1 NE La Grange	01 Road flo	2242EST oded between I	Hwy 903S an	d Lenoir and	0 d Greene Co	0 unty line.	0.00K	0.00K	Flash Flood		
Greene County 3 NE Ormandsville	01 Road clo	2258EST osed at Willow	Green Rd and	l Ormondsv	0 ille Rd due te	0 o high wate	0.00K	0.00K	Flash Flood		
Greene County 1 S Castoria 1 ENE Herrings Xrds	01 Road clo	2310EST	ewell Rd and	Hwy 91 du	0 e to high wa	0 ter	0.00K	0.00K	Flash Flood		
Dare County 81 ESE Darden	02	0330EST		•	0	0	in Avon.		Thunderstorm Wind (50EG)		
		storms develop is equivalent t		me severe, p	oroducing wi	ind damage	and flash flo	oding. No	ote: The estimated wind gust of		
NCZ103	Easteri	n Dare									
	09 A 17 yea	1700EST ar old male drov	wned in a rip	current near	2 Buxton. M	0 17IW	0.00K	0.00K	Rip Current		

NORTH CAROLINA, Central Coastal Coastal Coastal Coastal Coastal Coastal Coastal Coastal Coastal Coastal Coastal Coastal Career County 2	September 201			Estima		imber of		Path Width	Path Length	Time Local/		
Craven County 2 N James City 2 N James City 2 N James City 2 N James City 3 N James City 3 N James City 4 N James City 1 N James City Noked to quarter size haid fell in Persystown. An isolated severe thunderstorin produced nickel to quarter size haid. **NORTH CAROLINA, Northwest and North Central** Wilkes County Hays 5 1500EST 7 0 0 0.00K 0.00K Thunderstorm V 1 ENE Dockery 1	f Storm	Character of St	Crops		Pro						Date	Location
2 SW Jumes City Rickel to quarter size hall fell in Perrytown. An isolated severe thunderstorm produced nickel to quarter size hall. **NORTH CAROLINA, Northwest and North Central** Wilkes County Hays S										<u>al</u>	ral Coasta	NORTH CAROLINA, Cen
Wilkes County Hays S)	Hail (1.00)	0.00K	.00K	0.0			•		quarter size hai	Nickel to	
Wilkes County Hays S									tral	North Cen	nwest and	NORTH CAROLINA, Nor
Wilkes County 1 ENE Dockery 05 1506EST High pressure gave way to a slow moving cold front which entered the region early on the 5th, before stalling just Blue Ridge mountains in Virginia and North Carolina. This frontal passage provided the focus for isolated thun develop across portions of north central North Carolina, a few of which produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind of the produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind of the produced of the produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind develop across portions of north central North Carolina, a few of which produced small hail and isolated wind file and isolated wind gusts of Subscriptions. NOZIOS NOZIOS NORTH CAROLINA, South Coastal NCZ108 Coastal New Hanover 23 0800EST 0 0 0 0.00K 0.00K North Carolina high country. These high wind gusts, coupled with light to me produced isolated wind damage in the form of falling trees. NORTH CAROLINA, Southwest Hanover 23 0800EST 0 0 0 0.00K 0.00K Thunderstorm V 1 1 W Stonehaven 1 W Lands wi	orm Wind (60EG)	Thunderstorn	0.00K					e large tree		1500EST	05	Wilkes County
1 ENE Dockery						69 mph.	ivalent to	knots is equ	d gust of 60	e estimated wir	Note: Th	
NCZ001>004-019> 020 Alleghany - Ashe - Stokes - Surry - Wilkes - Yadkin 12 0030EST 0 0 27.0K 0.00K High Wind The remnants of Hurricane Irma continued to weaken as it tracked northwest across the southeast U.S., spreading is storm force wind gusts across the North Carolina high country. These high wind gusts, coupled with light to me produced isolated wind damage in the form of falling trees. NORTH CAROLINA, South Coastal NCZ108 Coastal New Hanover 23 0800EST 0 0 0 Rip Current 266 Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest Mecklenburg County 1 W Stonehaven 01 1330EST 0 0 0.00K 0.00K Thunderstorm V 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County	ng just east of the thunderstorms to	before stalling for isolated the	n the 5th, t the focus	n early o provided	the region passage p	ch entered t his frontal	ront which rolina. Th	nd North Ca	n Virginia a	ssure gave way ge mountains i	High pres	
NCZ001>004-019> 020 Alleghany - Ashe - Stokes - Surry - Wilkes - Yadkin 12 0030EST 0 0 0 27.0K 0.00K Strong Wind The remnants of Hurricane Irma continued to weaken as it tracked northwest across the southeast U.S., spreading a storm force wind gusts across the North Carolina high country. These high wind gusts, coupled with light to me produced isolated wind damage in the form of falling trees. NORTH CAROLINA, South Coastal NCZ108 Coastal New Hanover 23 0800EST 0 0 0 Rip Current 266 Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest Mecklenburg County 1 W Stonehaven 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis O 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County										a	Wataug	NCZ018
12 0030EST 0615EST 0 0 27.0K 0.00K Strong Wind The remnants of Hurricane Irma continued to weaken as it tracked northwest across the southeast U.S., spreading a storm force wind gusts across the North Carolina high country. These high wind gusts, coupled with light to me produced isolated wind damage in the form of falling trees. NORTH CAROLINA, South Coastal NCZ108 Coastal New Hanover 23 0800EST 0 0 0 Rip Current 26 Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest Mecklenburg County 1 W Stonehaven 01 1330EST 0 0 0 0.00K 0.00K Thunderstorm V 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County	i	High Wind	0.00K	5.0K	15	0	0					
The remnants of Hurricane Irma continued to weaken as it tracked northwest across the southeast U.S., spreading is storm force wind gusts across the North Carolina high country. These high wind gusts, coupled with light to me produced isolated wind damage in the form of falling trees. NORTH CAROLINA, South Coastal NCZ108 Coastal New Hanover 23 0800EST 0 0 0 Rip Current 26 Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest Mecklenburg County 1 W Stonehaven 01 1330EST 0 0 0.00K 0.00K Thunderstorm V 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County						kin	s - Yadki	ry - Wilke	tokes - Sur	ny - Ashe - St	Allegha	
storm force wind gusts across the North Carolina high country. These high wind gusts, coupled with light to me produced isolated wind damage in the form of falling trees. NORTH CAROLINA, South Coastal NCZ108 Coastal New Hanover 23 0800EST 0 0 0 Rip Current 26 Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest Mecklenburg County 1 W Stonehaven 01 1330EST 0 0 0 0.00K 0.00K Thunderstorm V 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County	nd	Strong Wind	0.00K	7.0K	27	0	0				12	020
NCZ108 Coastal New Hanover 23 0800EST 0 0 0 Rip Current 26 Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest Mecklenburg County 1 W Stonehaven 01 1330EST 0 0 0.00K 0.00K Thunderstorm V 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County						ountry. The	na high co	orth Caroli	across the N	ce wind gusts	storm for	
23 0800EST 0 0 0 Rip Current 26 Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest Mecklenburg County 1 W Stonehaven 01 1330EST 0 0 0 0.00K 0.00K Thunderstorm V 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County											n Coastal	NORTH CAROLINA, Sou
Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest Mecklenburg County 1 W Stonehaven 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County									r	New Hanove	Coastal	NCZ108
Large swells from Hurricane Maria, located far offshore, produced high surf and strong rip currents. NORTH CAROLINA, Southwest	nt	Rip Current				0	0			0800EST		
Mecklenburg County 1 W Stonehaven 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County		its.	rip current	nd strong	gh surf an	roduced hig	ffshore, pr	ocated far o	ane Maria,	ells from Hurric		
Mecklenburg County 1 W Stonehaven 1 W Lansdowne FD reported multiple power lines blown down on the southeast side of Charlotte. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County											ıwest	NORTH CAROLINA, Sout
The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm Volume are ported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County												
Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County	orm Wind (50EG)	Thunderstorn	0.00K					wn down or	ver lines blo			
Rowan County Landis 01 1355EST 0 0 0 0.00K 0.00K Thunderstorm V Media reported multiple power lines blown down in downtown Landis. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Iredell County											•	
Iredell County	orm Wind (50EG)	Thunderstorn	0.00K	.00K		0	0	•		1355EST	01	
						58 mph.	ivalent to	knots is equ	d gust of 50	e estimated wir	Note: Th	
Loray 01 1624EST 1 W Troutman 1633EST 0 0 0.00K 0.00K Thunderstorm V	orm Wind (50EG)	Thunderstorn	0.00K	.00K	0.0	·		•	-	1624EST		Loray

Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

		Time Local/	Path Length	Path Width	Pers		Dam	nated age	September 20
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NORTH CAROLINA, So	uthwest								
Iredell County 2 ESE Statesville	01	1630EST 1730EST			0	0	1.00K	0.00K	Heavy Rain
									of rain fell over the Statesville way 70 near I-77.
Rutherford County 1 E Gilkey	-	1734EST rted a few trees 'he estimated wi			•	0 58 mph.	0.00K	0.00K	Thunderstorm Wind (50EG)
Mecklenburg County 3 ENE Caldwell	01 Public re	1817EST eported golf bal	l size hail bet	tween David	0 lson-Conco	0 rd Rd and Ea	ast Rocky Riv	ver Rd.	Hail (1.75)
Mecklenburg County 2 SSW Smithville 1 NNE Caldwell	01	1830EST 2030EST			0	0	1.00K	0.00K	Flash Flood
	thunders Station tributary	storms produced Creek, or one of	l up to 4 inch of its tributa Creek floode	nes of rain in ries flooded ed Sedgebro	the area in a portion of a portion of a portion of the contraction of	just a coupl of Bailey R	e of hours. Pud. A family r	ublic reporte nember of	after repeating, slow-moving ed (via Social Media) Caldwell an NWS employee reported a cement also reported Highway
Cabarrus County 1 SE Concord	01 Local la	1937EST w enforcement	reported seve	eral trees and	0 d some pow	0 er lines blov	0.00K vn down in C	0.00K oncord.	Thunderstorm Wind (50EG)
	the west	tern Piedmont o	of North Caro	olina on the brief dama	1st: one du ging winds.	ring early/n , while flash	nid afternoon flooding de	, and anoth	f low pressure and moved over er during the evening. Several ross a portion of the Charlotte
Alexander County 5 N Taylorsville Arpt	05	1611EST			0	0			Hail (0.75)
	Multiple	eported pea to p e lines of show out the afterno	ers and thu	nderstorms					cross western North Carolina
NCZ053-062>065- 507-509		mbe - Hend ylvania	erson - M	acon - Po	olk Moun	tains - R	utherford	Mountai	ns - Southern Jackson -
	11	0900EST 2100EST			0	0	70.0K	0.00K	High Wind
	over the prolong roads, p was con	e mountains of sed nature of the ower lines, veh afined to these	southwest No e event, com- icles, and str areas, there	orth Carolin bined with ructures. Ma were also re	na. Although saturated so any were wi eports of sign	h gusts only oils resulting thout power gnificant tre	occasionally from heavy for a day or e damage ac	y exceeded rainfall res more. Whil ross much	corgia, strong winds developed 50 mph in most locations, the sulted in many trees falling on the the most significant damage of the remainder of the North airly frequently.
NCZ036-057-068>	Clevela	and - Gaston	- Iredell - I	Lincoln - F	Rowan				
070	11	1800EST 2000EST			0	0	50.0K	0.00K	Strong Wind

over the foothills and western Piedmont of North Carolina. While wind gusts rarely exceeded 40 mph in these areas, the combination of prolonged gusty winds and very wet soil from heavy rainfall caused quite a few trees to fall across the area, with trees down on homes in Gastonia, Morganton, Mooresville, and Rockwell.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nur Pers Killed	nber of sons Injured	Estima Damaş Property		September 201' Character of Storm
NORTH CAROLINA, Sou	ıthwest								
Transylvania County 1 NW Reid	20	1530EST reported 3/4 inc	h hail in the I	_ake Toxaw	0 ay area.	0			Hail (0.75)
Transylvania County 1 S Oakland	20 Public r	1541EST eported up to qu	ıarter size hai	l in the Bur	0 lingame co	0 ommunity.			Hail (1.00)
Jackson County 7 ESE Grimeshawes	20 Forest s	1601EST ervice personne	l reported mu	ltiple large t	0 ree limbs t	0 olown down a	0.00K at the Whitewa	0.00K ter Falls pa	Thunderstorm Wind (50EG) arking area off Highway 281.
	Note: T	The estimated wi	ind gust of 50	knots is equ	uivalent to	58 mph.			
Jackson County 7 ESE Grimeshawes	20 Forest s	1602EST ervice personne	l observed ha	lf dollar size	0 hail at the	0 Whitewater	Falls parking	area off Hi	Hail (1.25) ghway 281.
	Scattere storms b	ed thunderstorms priefly became s	s developed d strong to seve	luring the la re, producin	te afternoo ig hail up t	on across the o the size of	high terrain of half dollars.	western N	forth Carolina. A couple of the
NORTH DAKOTA, Centr	al and We	<u>est</u>							
Dickey County 1 NW Merricourt	19	1430CST 1433CST			0	0	0.00K	0.00K	Hail (1.00)
Dickey County 4 NNW Monango	19	1452CST 1455CST			0	0	125.00K	75.00K	Hail (2.50)
	There w	as damage to cr	ops and prop	erty.					
Dickey County 5 NNE Merricourt	19	1453CST 1456CST			0	0	40.00K	50.00K	Hail (2.50)
	Window	vs and vehicles	were damaged	d.					
La Moure County 6 ESE Edgeley	19	1501CST 1505CST			0	0	0.00K	0.00K	Hail (1.75)
La Moure County 6 S Edgeley	19	1505CST 1508CST			0	0	0.00K	0.00K	Hail (1.75)
La Moure County 5 SSW Dickey	19	1505CST 1510CST			0	0	150.00K	50.00K	Thunderstorm Wind (65EG)
	A grain	bin was destroy	ed. Homes in	n the area su	ffered roof	damage. Ma	ny tree branch	es were do	own.
		The estimated wi							
La Moure County	11010. 1	no estimated wi	ma gust of 05	Kiloto is eqt	arvarent to	, э трп.			
3 WSW Grand Rapids	19	1510CST 1515CST			0	0	0.00K	75.00K	Thunderstorm Wind (65EG)
		ops were flatten The estimated wi	_		uivalent to	75 mph.			

		Time Local/	Path Length	Path Width	Num Perso	ber of	Estim		September 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Dama Property	Crops	Character of Storm
NORTH DAKOTA, Centr	al and Wes	<u>st</u>							
La Moure County 6 SE Marion	19	1522CST 1527CST			0	0	30.00K	0.00K	Thunderstorm Wind (61EG)
	Strong th	understorm win	d gusts blew	the roof of	f of a machi	ne shed.			
	and parts afternoor size hail activity f	s of central Nor into the evenir and strong wind	th Dakota. Ang. Initially, I gusts estimated	A cold from one very strated to arou hunderstorn	t and upper ong storm r nd 75 mph. ns formed.	level troug noved over This caused No severe	h approached Dickey and La d crop and prop	and moved aMoure cou perty damag	or severe weather over eastern d through the area in the mid- inties and produced tennis ball ge. A brief break in convective th the second round of storms.
NORTH DAKOTA, East									
Nelson County 6 N Tolna	01	1630CST 1631CST	0.07	50	0	0			Tornado (EF0)
	A brief t	ornado touchdo d to track to the	own with wa e east. Peak	ter swirl w winds were	as noted over estimated	er the north at 70 mph.	end of Stum	p Lake. As	the tornado lifted, the funnel
Nelson County 7 NE Tolna 9 S Mapes	01	1638CST 1654CST	6.02	150	0	0			Tornado (EF0)
		nado touched do ent dust swirls.					he east. Photo	s showed a	a persistent rope tornado with
Nelson County 4 NNW McVille Arpt	01 Heavy ra	1659CST in was reported	with a few d	lime to quar	0 ter sized ha	0 il.			Hail (1.00)
Nelson County 2 NW Kloten	01 A few ha	1725CST lf dollar sized h	ailstones fell	l just north (0 of highway	0 15, in north	west Lee Town	nship.	Hail (1.25)
Griggs County 11 ENE Jessie	01 Occasion	1756CST al nickel to ping	g pong ball s	ized hail fel	0 ll in very hea	0 avy rain acr	oss southeast l	Lenora Tow	Hail (1.50) vnship.
Griggs County 7 NE Cooperstown	01 A funnel	1815CST cloud was obse	rved just we	st of the Ste	0 ele County	0 line in far se	0.00K outheast Romr	0.00K less Towns	Funnel Cloud hip.
Griggs County 7 NE Cooperstown	01	1816CST 1822CST	1.67	150	0	0	1.00K	2.00K	Tornado (EF0)
		ken down in va							er Valley. Large tree branches ge. Peak winds were estimated
Steele County 2 WSW Finley	01 Large ha	1825CST il fell with very	heavy rain. S	Some of the	0 hailstones v	0 were the siz	e of golf balls.		Hail (1.75)
Steele County 5 W Pickert	200, in w	1830CST four to eight included rest central Green the estimated wire	enview Town	nship.			nstead shelterb	elt near cou	Thunderstorm Wind (56EG) unty road 25, north of highway

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Persoi Killed		Estim Dama Property		September 201′ Character of Storm
NORTH DAKOTA, East									
Steele County 5 W Hope	01 Strong v	1850CST vind gusts were a	associated wi	ith the rear f	0 flank shelf cl	0 oud. Some	dime to nicke	l sized hail	Thunderstorm Wind (52EG) fell as well.
	Note: T	he estimated wir	nd gust of 52	knots is equ	uivalent to 60	0 mph.			
Steele County 2 W Hope	01 Large tre	1855CST ee branches were	e blown dow	n around the	0 e town of Ho	0 pe. One po	oplar tree was	snapped at	Thunderstorm Wind (52EG) the golf course.
	Note: T	he estimated wir	nd gust of 52	knots is equ	uivalent to 60	0 mph.			
Steele County 2 SW Hope	01 A persis	1901CST tent wall cloud v	vith a brief fo	unnel cloud	0 were observe	0 ed. The wa	0.00K all cloud was n	0.00K early rain v	Funnel Cloud wrapped.
Cass County									
4 N Walden		1915CST arge tree branch er and northeas			0 shelterbelts	0 s. Corn an	d bean fields	were flatte	Thunderstorm Wind (52EG) and in spots across northwest
	Pembina would h This cel	a, in Cavalier Co old together as t	ounty. Howe he storm trace	ver, one cell cked to the	l on the far southe	outhern en east, throug	d of the line q gh Griggs, Ste	uickly becale, and Ca	Lake, in Nelson County, and ame the strongest storm, and it as counties, before weakening. ated wind gust of 52 knots is
Barnes County	-								4. (1.00)
1 SE Litchville	19 Quarter	1530CST sized hail fell alo	ong with 50 t	o 60 mph w	0 vinds.	0			Hail (1.00)
Barnes County 1 N Litchville	19 A barn l	1541CST nad damage to its	s roof from in	npacted tree	0 e limbs. A ho	0 ouse also h	ad shingles rei	noved.	Thunderstorm Wind (70EG)
	Note: T	he estimated wir	nd gust of 70	knots is equ	uivalent to 81	1 mph.			
Barnes County 1 NE Litchville 1 SW Hastings	19	1541CST 1547CST	3.7	200	0	0	30.00K	3.00K	Tornado (EF1)
	box-elde		es at both far	msteads. Br	anch scatter	through a			nd snapped or uprooted several by between the farms suggested
Ransom County									
8 NNW Ft Ransom	19 A few la	1556CST arge tree branche	s were broke	en down in s	0 shelterbelts ju	0 ust south of	f highway 46,	in far north	Thunderstorm Wind (56EG) west Northland Township.
	Note: T	he estimated wir	nd gust of 56	knots is equ	uivalent to 64	4 mph.			
Cass County 1 NNE Buffalo	_	1645CST vinds were repor The estimated win	-	-		0 0 mph			Thunderstorm Wind (52EG)
Cass County	11010. 1	ne estimated wit	id gust 01 32	Kilots is eq	arvarent to oc	o mpii.			
4 SW Hunter	19 Numero county r	1717CST us large branche road 26. Some of	s were scatte the branche	ered all over s were six in	0 the road for nches in dian	0 about an e neter, and	eighth of a mile were blown of	e, half way f trees that	Thunderstorm Wind (56EG) between Page and Gardner, on were 100 feet tall.
	Note: T	he estimated wir	nd gust of 56	knots is equ	uivalent to 64	4 mph.			
Cass County 1 SSW Gardner	19 Mounted	1725CST d transmitter and	receiver pla	tforms on a	0 cellular com	0 munication	ns tower were	damaged b	Thunderstorm Wind (70EG) y the strong winds.
	N-4 T	ha actimated wir	nd awat of 70	Iznote is acr	vivalant to 01	1 mnh			

Note: The estimated wind gust of 70 knots is equivalent to 81 mph.

	_	Time Local/	Path Length	Path Width	Numb Perso	ns	Estima Damaş	ge	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NORTH DAKOTA, East									
Benson County 2 NNE Esmond	19	1755CST			0	0			Hail (1.00)
Sargent County 4 SSE Hoving	19	2007CST			0	0			Hail (1.00)
Richland County Barney	19 A few fo	2045CST our to six inch d	iameter tree l	branches we	0 re blown dov	0 wn around	town.		Thunderstorm Wind (52EG)
	fairly ex region, t cool sid afternoo County (through	tensive cloud c to the lower 70s e, a strong moi on, where thund (ND), it produce	over through over southe sture surge of erstorms flar ed a tornado is storm com	nout the day ast North Doccurred. Cl red up south near Litchvi uplex produc	, late afterno akota into w oud cover d of Jamestov lle. This cell ed large hail	est central ecreased s wn. As this evolved in strong wi	atures only ran Minnesota. Events omewhat over s large thunder nto a larger stornds, and a seco	ged in the en though southeast storm cell rm comple nd tornado	nestown (ND) corridor. Due to e low 60s over the Devils Lake a temperatures remained on the E North Dakota during the late moved into southwest Barnes ex, which moved east-northeast o along the Norman/Polk (MN)
Grand Forks County 2 NW Manvel		1934CST piece of metal s I trailer was mo						hit the hou	Thunderstorm Wind (65EG) use, causing minor damage. An
	with a storms f	tationary bound	lary extendir and east of th	ng out to the ne surface fe	east, toward atures, main	d Fosston ly from Gr	and Bemidji, N and Forks Cou	Ainnesota. nty in Nor	thwest of Fargo, North Dakota, A strong low level jet helped th Dakota, up toward Marshall
OHIO, North									
Lucas County 2 SW Trilby		1801EST			0	0 8 mmh	10.00K	0.00K	Thunderstorm Wind (50EG)
Lucas County	Note. 1	he estimated wi	nd gust of 50	Kilots is eq	arvaient to 3	o mpn.			
Sylvania	,	1804EST zed hail was ob he estimated wi) knots is eq	0 uivalent to 5	0 8 mph.	0.00K	0.00K	Thunderstorm Wind (50EG)
Lucas County 1 SSW Trilby	04 Penny si	1810EST zed hail was ob	served.		0	0	0.00K	0.00K	Hail (0.75)
Lucas County 2 N Ottawa Hills		1810EST storm winds do he estimated wi			0 uivalent to 5	0 8 mph	1.00K	0.00K	Thunderstorm Wind (50EG)
Lucas County 1 NNE Ottawa Hills	04 Thunder	1811EST storm winds do he estimated wi	wned a tree.	-	0	0	1.00K	0.00K	Thunderstorm Wind (50EG)
Lucas County 5 NNE Toledo	04 Quarter	1815EST sized hail was re	eported.		0	0	0.00K	0.00K	Hail (1.00)
Lucas County 1 SE West Toledo		1826EST storm winds tor he estimated wi		-		0 8 mph.	2.00K	0.00K	Thunderstorm Wind (50EG)
Wayne County Doylestown	04	2136EST storm winds do			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)

Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

		Time	Path	Path	Nur	Number of		ated	September 2017
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

OHIO, North

Crawford County
2 WSW North Robinson
2 N Crestline

04 2142EST

2151EST

EST

8.09

400

1.25M

0.00K

Tornado (EF2)

An EF0 tornado touched down in rural Crawford County about three quarters of a mile west of North Robinson. The initial touchdown was in a cornfield west of Olentangy Road about half way between Lower Leesville Road and Crestline Road. The tornado then continued east and moved across the northern half of North Robinson causing extensive damage. The tornado briefly reached EF2 intensity as it moved through the town. Several garages were destroyed and one home was heavily damaged after losing a large section of roof. Other homes along the path sustained lesser amounts of damage, mainly in the form of lost siding or shingles. One home did have a brick chimney toppled. Tree damage in the town was extensive. The tornado continued east over open farmland and eventually crossed the Sandusky River. The tornado then intensified to EF2 as it crossed State Route 598 north of Leesville. A home along State Route 598 was blown of it's foundation and destroyed. A second home nearby lost large sections of roofing. The tornado then continued east northeast snapping dozens of hardwood trees and leveling three farm buildings near where the Lincoln Highway and Krichbaum Road intersect. The tornado then followed a track nearly parallel and just north of Krichbaum Road for a couple of miles. Several more farm buildings were damaged or destroyed and a home lost a portion of its roof before the tornado crossed into Richland County north of the intersection of Krichbaum Road and Crawford Richland Line Road. The tornado was on the ground for just over 8 miles in Crawford County and had a damage path of up to 400 yards in width. Hundreds of trees and many power poles were downed along the damage path.



A picture of tornado damage in North Robinson, (Crawford County), Ohio on September 4th, 2017. Photo courtesy of NWS.

Crawford County 2 SW Bucyrus

Richland County 2 N Crestline Roseland 04 2148EST 0 0 0.00K 0.00K Hail (0.75) Penny sized hail was observed.

04 2151EST

2202EST 8.58 200 0 2 800.00K 0.00K Tornado (EF2)

An EF2 tornado crossed into Richland County from Crawford County just to the south of Hook Road in rural Springfield Township. A home on Hook Road just west of Thrush Road sustained heavy damage. Half of the roof of the home was torn off and a bedroom on the southwest side of the house was destroyed. The attached garage on the northeast side of the house was also leveled. Two people inside the southwest corner bedroom were thrown approximately 50 feet and ended up outside in the yard. Both sustained minor injuries. An adjacent detached garage was also leveled. A riding lawnmower inside the adjacent garage was found 100 yards away in a field. The tornado then continued east along Hook Road for several miles causing tree and structural damage. A couple barns were damaged or destroyed and a few other buildings lost roofing or siding in this area. The tornado weakened to an EF1 as it crossed Horning Road. The tornado then continued across open land till it leveled yet another barn as it crossed State Route 314. The tornado strengthened again to EF2 intensity as it crossed Rock Road. One home on Stiving Road was destroyed when large trees landed on the roof of the home causing it to collapse. The house was also knocked off it foundation. Two adjacent homes also sustained damage and some outbuildings were destroyed. At least 5 vehicles at the three homes were destroyed or damage. The tornado continued east and weakened as it crossed State Route 39 just to the north of Cairns Road. The tornado finally lifted about a quarter mile east of Kline Road. Only minor tree damage was observed east of State Route 39. This tornado was on the ground in Richland County for around eight and half miles and had a damage path up to 200 yards in width. Hundreds of trees and many power poles were downed along the damage path.

Path Number of September 2017 Time Path Estimated Local/ Standard Length (Miles) Width Persons Damage (Yards) Date Injured Property Character of Storm Location

OHIO, North



A picture of Hook Road tornado damage in rural Springfield Township, (Richland County), Ohio on September 4th, 2017. Photo courtesy of NWS.

Crawford County

Galion 04 2157EST 0.00K0.00KHail (1.00) Quarter sized hail was observed.

Richland County

1 S (MFD)Lahm Muni Arpt 0 25.00K 0.00KThunderstorm Wind (50EG)

Thunderstorms winds blew in some large overhead doors at a factory just south of Mansfield Lahm Airport.

Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

Ashland County

2 E Five Pts 04 2210EST 4.00K 0.00KThunderstorm Wind (50EG)

Thunderstorm winds downed a few trees.

Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

Richland County

Lexington 04 2215EST 5.00K 0.00KThunderstorm Wind (50EG)

Thunderstorm winds tore part of a roof off of a home.

A strong cold front crossed northern Ohio during the evening of September 4th. A line of showers and thunderstorms developed ahead of this front and moved across the region. A long track tornado caused damage in the Mansfield area. There were also reports of severe weather elsewhere across northern Ohio. Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

OHIO, Northwest

Henry County

1 NE Liberty Center 04 1838EST 1839EST 0.00K0.00KThunderstorm Wind (55EG)

Law enforcement officials reported a tree was blown down onto a power line.

Note: The estimated wind gust of 55 knots is equivalent to 63 mph.

Henry County

Hamler 04 1843EST 1844EST 0.00K0.00KThunderstorm Wind (50EG)

The public reported a power line was blown down across a CSX crossing gate, preventing the gate from properly functioning.

Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

		Time Local/	Path Length	Path Width	Nun Pers	nber of ons	Estim Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
OHIO, Northwest									
Putnam County 1 E Ottawa	04	1915EST 1916EST			0	0	0.00K	0.00K	Hail (0.75)
Allen County 1 E Delphos Arpt	04	2039EST 2040EST			0	0	0.00K	0.00K	Hail (0.75)
	A cold for reports.	ront passed thro	ugh the region	on, bringing	scattered tl	nunderstorms	s. A few of the	storms pro	oduced isolated severe weather
OHIO, Southwest									
Preble County Gratis	04	2258EST 2306EST			0	0	4.00K	0.00K	Thunderstorm Wind (50EG)
	block of	rees were down Pleasant Valle The estimated wi	y Road.				S. Route 127	and Antioc	ch Road as well as in the 9000
Warren County 1 WNW Lelan	05	0025EST 0027EST			0	0	2.00K	0.00K	Thunderstorm Wind (50EG)
	A line of	trees and power f thunderstorms 50 knots is equiv	developed d	uring the lat			of an approach	ing cold fr	ont. Note: The estimated wind
OKLAHOMA, Eastern									
Okmulgee County 2 S Henryetta	and dam Thunder	aged another bastorms develop	arn. ed into easte	ern Oklahon	na during t	ne afternoon	hours of the	17th as a c	Thunderstorm Wind (61EG) snapped numerous tree limbs, cold front moved into the area. tots is equivalent to 70 mph.
OKLAHOMA, Panhandle									
Cimarron County 1 N Boise City	01 Some ha	1628CST ail stones were s	lightly larger	than a Quar	0 ter.	0	0.00K	0.00K	Hail (1.00)
Cimarron County 1 E Boise City	Diurnal downstr	eam of the 700) hPa trough	axis across	western (OK Panhand	le, a few cell	s develope	Hail (0.75) e far western OK Panhandle. ed and with a good mid level oved southeast and weakened.
Cimarron County 8 NNE Griggs	22	1824CST pea size hail wit		·	0	0	0.00K	0.00K	Hail (0.88)
Cimarron County 8 NNE Griggs	A deep j		ough helped						Thunderstorm Wind (52EG) ern Panhandles. This helped to

Oklahoma Panhandle. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

advect low level moisture into the region. With good CAPE and good shear, individual cells developed along the western Panhandles and moved northward along a surface trough axis. Hail and a damaging wind report was documented in the western

		Time Local/	Path Length	Path Width		mber of	Estim Dama		September 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
OKLAHOMA, Western Cen	tral and S	Southeast								
Jackson County										
Altus	17	2129CST es were downe	ad hay radin do		0	0	4.00K	0.00K	Thunderstorm Wind (52EG)	
		es were downe e estimated wi	-	knots is ear	uivalent to	60 mph				
Views County	rvote. Th	e estimated wi	na gust of 52	knots is eq	arvarent to	оо трп.				
Kiowa County 5 WSW Lone Wolf	17	2130CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
2 11211 20110 11011		e limbs downed	d by winds.		Ü		0.0011	0.0011	manaerstorm vina (5225)	
	Note: The	e estimated wi	nd gust of 52	knots is equ	uivalent to	60 mph.				
Jackson County										
3 NW (LTS)Altus Afb	17	2137CST			0	0	0.00K	0.00K	Thunderstorm Wind (56MG)	
	Note: Th	e measured wi	nd gust of 56	knots is eq	uivalent to	64 mph.				
Comanche County										
2 WSW Mt Scott	17 An area o	2325CST	loned near a s	stationary fr	0	0 southern Tex	0.00K as panhandle	0.00K	Thunderstorm Wind (56MG) ernoon of the 17th, then moved	
									is equivalent to 64 mph.	
Tell and Commuter										
Tillman County 4 N Grandfield	19	1445CST			0	0	0.00K	0.00K	Hail (1.25)	
	1)	1113651			Ü	Ü	0.0011	0.0011	11411 (1.23)	
Tillman County 1 N Grandfield	19	1530CST			0	0	0.00K	0.00K	Hail (0.75)	
	1)	1330C31			Ü	U	0.001	0.001	Haii (0.73)	
Tillman County Hollister	19	1610CST			0	0	0.00K	0.00K	Hail (0.88)	
Homster			erstorms deve	loped acros					fternoon hours. Strong diabatic	
	heating ar	nd a moist bou	ndary layer c	ombined w	ith fairly s	teep mid leve	l lapse rates c	ontributed	to at least moderate instability.	
	These lap	se rates, and a	fairly mixed	boundary la	ayer, resul	ted in both se	vere hail and	damaging	wind gusts.	
Comonoho Countr										
Comanche County Fletcher	20	2025CST			0	0	0.00K	0.00K	Thunderstorm Wind (54MG)	
Tietener	A line of	storms formed			rn Oklaho				vening of the 20th. Note: The	
	measured	wind gust of	54 knots is e	quivalent to	62 mph.					
Comanche County										
2 ESE Cache	27	0450CST			0	0	0.0017	0.0017	El.d. El.d	
		0750CST			0	0	0.00K	0.00K	Flash Flood	
	A report was relayed by broadcast media that the intersection of NW Cache Rd and NW Airport Rd was flooded and									
	impassib	le.								
Comanche County										
4 W Lawton	27	0518CST								
		0918CST			0	0	10.00K	0.00K	Flash Flood	
	A report	was relayed b	y broadcast	media of fl	ooding at	the intersecti	on of 53rd a	nd Gore B	lvd. Water was reported to be	
		nto a vehicle a	•		Ü				ī	
									ions of southwest Oklahoma to	
		ne localized flo W Airport Rd	-		-		een Lawton	and Cacne.	The intersection of NW Cache	
		1	1							
OREGON, Central and East										
ORZ509	East Slo	pes Of The	Oregon Cas	scades						
	01	0000PST								
	25	0700PST			0	0	0.00K	0.00K	Wildfire	
	The Milli	Fire was loca	ited in the Sig	ster's Wilde	rness Are	a. on the Desc	chutes Nation	al Forest	This fire was lightning caused,	
									some rural subdivisions near	
	Sisters, C	-								
	02	2300PST								
	19	1308PST			0	0	0.00K	0.00K	Wildfire	

September.

The Rim fire occurred in the section of the Mt Hood National Forest in Wasco county. The fire burned during early and mid

Location	Data	Time Local/ Standard	Path Length (Miles)	Path Width	Numb Person	ıs	Estim Dama	ige	September 201 Character of Storm		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
OREGON, Central and East	Oabaaa	John Don H	aklanda								
ORZ506		-John Day Hi	igniands								
	09 27	1045PST 1115PST			0	0	0.00K	0.00K	Wildfire		
	This fire Oregon.	was a holdover	from lightni	ng earlier	in the week,	and wasnt	discovered so	ooner due t	o heavy smoke across Central		
OREGON, Northwest											
Linn County 2 ENE LaComb	01	1207PST 1215PST	0.69	167	0	0	240.00K	0.00K	Tornado (EF1)		
	Tornado touched down along Green Mountain Road. Although tornado appeared to not be on the ground the entire path, the damage path appears to be 0.69 mile long. The tornado damaged five open barns, damaged 5 to 10 plus additional sheds or barns, brought down two power poles, and snapped six trees 4-12 inches in diameter. There were no injuries.										
		urface temperati understorms ac							d enough instability for a few f tornado.		
ORZ015	Western	n Columbia F	River Gorge	:							
	02 30	1500PST 2359PST			0	0			Wildfire		
	River Go		s over the ov	er the foll					le Creek area of the Columbia and sent heavy smoke into the		
OREGON, Southeast											
Baker County		4500DGT									
6 WNW Unity Ellingson Arpt	08	1720PST 2015PST			0	0	250.00K	0.00K	Flash Flood		
	Thunderstorms producing heavy rain over the 2016 Rail Fire burned area on the Wallowa-Whitman National Forest resulted in flash flooding and debris flows. Two surges of water, mud, rock, logs and vegetation cascaded down a number of drainages, all converging into the South Fork of the Burnt River. Extensive scouring of stream channels occurred. A number of Forest Service campgrounds and picnic areas were damaged and some Forest Service roads were washed out or heavily damaged. Campers and hunters had to evacuate the area. Some recreational vehicles were damaged.										
	Heavy ra	in fell across the	e Rail Burn So	car resultin	ig in flash flo	oding inclu	iding debris f	low.			
OREGON, Southwest											
ORZ023>028		Douglas - Ea hern Oregon						ills - Jack	sson - Siskiyou Mountains		
	01 30	0000PST 0330PST			0	0	0.00K	0.00K	Wildfire		
	due to sl wildfire.	ow fire behavious	or and the dia T on 10/01/1	fficulty of	safely deplo	ying crew	s in the steep	terrain. It	vas allowed to burn for a while a later developed into a major ained. 66.8 million dollars had		
ORZ029>031	Central	& Eastern L	ake - Klam	ath Basir	ı - Norther	n & East	ern Klamat	h & Wes	tern Lake		
	15	0100PST 0700PST			0	0	0.00K	0.00K	Frost/Freeze		
		significant from ting temperature					the area. Th	is, combine	ed with clearing skies, brought		

		Time Local/	Path Length	Path Width	Pers	nber of sons	Estin Dam		September 2017			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm			
OREGON, Southwest												
ORZ030-031	Central & Eastern Lake - Northern & Eastern Klamath & Western Lake											
	16	0100PST										
	10	0700PST			0	0	0.00K	0.00K	Frost/Freeze			
		_			_		to the area. T	his, combin	ned with clearing skies, brought			
	sub-free	ezing temperatur	res to some pa	arts of south	central Or	egon.						
ORZ029-031	Central & Eastern Lake - Klamath Basin											
	21	0100PST										
		0700PST			0	0	0.00K	0.00K	Frost/Freeze			
	The third significant front of the fall season brought a cold air mass to the area. This, combined with clearing skies, brought sub-freezing temperatures to many parts of south central Oregon.											
	22	0100PST			0	0	0.00K	0.001/	Frost/Freeze			
		0700PST			U	U	0.00K	0.00K	FIOSI/FIEEZE			
ORZ031	Centra	al & Eastern l	Lake									
	22	0100PST										
		0700PST			0	0	0.00K	0.00K	Frost/Freeze			
		d significant fro g temperatures t			-		e area. This,	combined v	with clearing skies, brought sub			
ORZ029-031	Centra	al & Eastern l	Lake - Klar	nath Basir	1							
	23	0100PST										
	0800PST 0 0 0.00K 0.00K Frost/Freeze The third significant front of the fall season brought a cold air mass to the area. This, combined with clearing skies, brought sub											
		d significant fro g temperatures t					e area. This,	combined v	with clearing skies, brought sub			
PENNSYLVANIA, Central												
McKean County												
1 SSE Bradford	04 A sever	2305EST e thunderstorm	producing wi	nds estimate	0 d near 60 r	0 nph knocked	4.00K down trees a	0.00K nd wires in	Thunderstorm Wind (52EG) Bradford.			
	Note: T	The estimated wi	ind gust of 52	2 knots is ear	uivalent to	60 mph.						
McKean County	1,000.1	usummuud w	and gust of be	o 15 eq .	ar varent to	oo mpiii						
1 NW East Bradford	04 A sever	2305EST e thunderstorm	producing wi	nds estimate	0 d near 60 r	0 nph knocked	4.00K down trees a	0.00K nd wires ne	Thunderstorm Wind (52EG) ear Bradford.			
			-									
Warren County	Note: 1	The estimated wi	ind gust of 32	knots is equ	iivaieni to	oo mpn.						
2 S Russell	04	2318EST	du ain a vui	nda aatimata	0	0	0.00K	0.00K	Thunderstorm Wind (52EG)			
		e thunderstorm j				•						
	Pennsyl before p	lvania during th	e late evening	g hours of S	September	4, 2017. The	e line was we	eakening w	that pushed into northwestern ith the loss of heating, but not The estimated wind gust of 52			
Franklin County		•	1									
1 E Greencastle	05 A sever	1435EST e thunderstorm	producing wi	nds estimate	0 d near 60 r	0 nph knocked	2.00K down trees of	0.00K into Leiters	Thunderstorm Wind (52MG) burg Road in Greencastle.			
	Note: T	The measured wi	ind gust of 52	knots is equ	uivalent to	60 mph.						

		Time Local/	Path Length	Path Width		mber of sons	Estim Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
PENNSYLVANIA, Central									
Franklin County 1 ENE Greencastle		1440EST gust of 65 mph he measured wi				0 64 mph.	0.00K	0.00K	Thunderstorm Wind (56MG)
Franklin County 2 S Zullinger	05 A severe	1450EST thunderstorm	producing wi	nds estimate	0 ed near 60	0 mph knocked	3.00K down large tr	0.00K ees onto M	Thunderstorm Wind (52EG) Iarsh Road.
Adams County Cashtown	05 A severe	1500EST thunderstorm	producing wi	nds estimate	0 ed near 60	0 mph knocked	0.00K down trees no	0.00K ear Cashtov	Thunderstorm Wind (52EG) wn.
Adams County 1 SE Cashtown	05	1500EST gust of 70 mph	C	•	0	0	0.00K	0.00K	Thunderstorm Wind (61MG)
York County 1 NE West York	05 A severe poles in	York and Wes	producing st t York.	traight-line	0 winds esti	0 mated near 80	12.00K 0 mph snappe	0.00K ed several	Thunderstorm Wind (70EG) trees and knocked down eight
York County Grangeville	05	1530EST e thunderstorm			0	0	4.00K down trees ar	0.00K nd wires ne	Thunderstorm Wind (52EG) ar Parkville.
Lancaster County Columbia	05	he estimated windless than 1543EST thunderstorm			0	0	8.00K down numero	0.00K ous trees an	Thunderstorm Wind (61EG) ad wires in Columbia.
Lebanon County 2 NW Palmyra	05 A severe	·	producing wi	nds estimate	0 ed near 60	0 mph knocked	4.00K down trees ac	0.00K In wires in	Thunderstorm Wind (52EG) North Palmyra.
Lancaster County 2 NNW Klinesville	05 A sever Columb		producing	winds estin	0 nated near	0 60 mph kno	1.00K ocked down a	0.00K tree acros	Thunderstorm Wind (52EG) ss Iron Bridge Road north of
Lancaster County 1 WNW Centerville	05	1615EST thunderstorm			0	0	0.00K	0.00K	Hail (1.00)
Lancaster County 2 ENE Hamilton Park	05 A severe	1615EST thunderstorm	producing wi	nds estimate	0 ed near 60	0 mph knocked	3.00K down large tr	0.00K ees in East	Thunderstorm Wind (52EG) Lancaster.
Lancaster County 1 NNE Hamilton Park	05	he estimated windlest he had been determined that the had been determined that the had been determined to the had been determined		-	0	0	10.00K down a large	0.00K tree onto a	Thunderstorm Wind (52EG) townhouse in Lancaster.

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

		Time Local/	Path Length	Path Width	Num Perso	nber of ons	Estin Dama		September 20
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
PENNSYLVANIA, Central									
Lancaster County 1 N Hamilton Park	05 A sever	1629EST e thunderstorm p	produced gol	f ball sized h	0 nail in Lanca	0 aster.	0.00K	0.00K	Hail (1.00)
	an appr		ont. This lin	ne of storms	produced	several rep	orts wind da	nage from	ral Pennsylvania, just ahead of Franklin County eastward to
PENNSYLVANIA, East									
Berks County 2 SSW Mt Pleasant	05 Quarter	1514EST -size hail was re	ported near V	Vernersville	0	0			Hail (1.00)
Berks County 1 NNE Leesport	61 were		Bellemans C	Church Road	and Ashle	y Way. One	vehicle was	trapped in t	Flash Flood Sections of Pennsylvania Route he flood waters. Rainfall totals).
Lehigh County 1 N New Smithville	05 Wires w	1638EST vere reported dov	vn in Weiser	nberg, Lehig	0 h County. T	0 Fime estimat	ed from radar		Thunderstorm Wind (50EG)
	Note: T	The estimated wi	nd gust of 50) knots is equ	uivalent to 5	58 mph.			
Berks County 1 W Wyomissing Jct	05 Penny s	1650EST ized hail along v	vith heavy ra	in and gusty	0 winds were	0 e reported in	ı West Wyom	issing.	Hail (0.75)
Berks County 1 W Amityville	05 Downed	1650EST I trees and powe	r lines closed	d a stretch of	0 Route 662	0 2 in Amity T	ownship in B	erks County	Thunderstorm Wind (50EG) 7. Time estimated from radar.
	Note: T	The estimated wi	nd gust of 50) knots is equ	uivalent to 5	58 mph.			
Berks County 1 NNW Moselem Spgs	05 Route 6	1700EST 22 was closed at	Eagle Road	in Moselem	0 Springs du	0 se to flooding	1.00K g. Multiple ve	1.00K hicles were	Flash Flood in the water.
Montgomery County 2 NW Perkiomenville	05 Trees ar	1704EST nd power lines de	own near Be	cker and Wo	0 oodland Roa	0 ads in Upper	· Frederick To	wnship.	Thunderstorm Wind (50EG)
	Note: T	The estimated wi	nd gust of 50) knots is equ	uivalent to 5	58 mph.			
Montgomery County 1 SSW Sanatoga	05 Two po	1754EST les and trees dov	vn blocking s	some roadwa	0 nys in Pottst	0 town.			Thunderstorm Wind (50EG)
		al boundary mog hours on the 5							g the late afternoon and early ph.
Delaware County 1 NE Moore	16 Heavy r 420 in F	1840EST rain showers lead Prospect Park at	l to localized the railroad l	d urban and j bridge was i	0 poor draina mpassible.	0 ge flooding	0.00K during the ev	0.00K ening of Sa	Flood turday, September 16th. Route
Philadelphia County 1 N (PHL)Philadelphia In	16 The Phi	1854EST ladelphia, PA A	SOS measure	ed a one-hou	0 r rainfall to	0 otal of 2.54 i	0.00K nches due to h	0.00K neavy rain s	Heavy Rain howers.
	slow me		n showers a	cross portio	ns of Penns				a tropical air mass to produce an and poor drainage flooding

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during the evening of Saturday, September 16th.

		Time	Path	Path		mber of	Estim		September 2017	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	sons Injured	Dama Property	rge Crops	Character of Storm	
PENNSYLVANIA, Northw	vest									
Crawford County										
Spartansburg	04 Thunder	2313EST storm winds do	wned a laroe	tree	0	0	1.00K	0.00K	Thunderstorm Wind (50EG)	
		he estimated wi	_		uivalent to	58 mph.				
Crawford County				•		•				
1 N Black Ash Corners	04	2323EST			0	0	3.00K	0.00K	Thunderstorm Wind (50EG)	
	Thunderstorm winds downed a few trees. A strong cold front crossed western Pennsylvania during the late evening hours of September 4th. A line of showers and									
	thunders								ated wind gust of 50 knots is	
RHODE ISLAND										
Kent County										
2 W Chepiwandxet	06	0930EST			0	0	2.50K	0.00K	Thunderstorm Wind (50EG)	
	At 930 A	AM EST, a large	e tree and wii	res were bro	ught down	on Major Po	otter Road in V	Varwick, bl	ocking the road.	
	Note: Tl	he estimated wi	nd gust of 50) knots is eq	uivalent to	58 mph.				
Kent County				_		-				
1 NNW Longmeadow	06	0930EST			0	0	8.00K	0.00K	Thunderstorm Wind (50EG)	
	At 930 A	M EST, a tree	was brought	down on a h	nouse on T	idewater Driv	ve in Warwick			
	the front	. The cold from	nt then move	d offshore V	Wednesday	y night. Thur	nderstorms mo	oved across	low pressure moving up along sparts of Rhode Island during of 50 knots is equivalent to 58	
RIZ008	Block I	sland								
	20	0918EST								
	22	0218EST			0	0	0.00K	0.00K	Tropical Storm	
RIZ005	Bristol									
	21	1530EST			0	0	1.5K	0.00K	Strong Wind	
	Leeward Tropical then slov	Islands, then t Storm during wly drifted sou	urned on a no Tuesday the th by Friday	orthward pa 19th and the the 22nd an	th north of en stalled a d started t	the Dominicabout 150 mions of the dissipate.	can Republic. iles southeast	As he mov of Nantuck	cane. Jose passed north of the red north, Jose diminished to a set, Massachusetts. The storm gusts reached 61 mph at Block	
Duovidonos Cometer										
Providence County Limerock	30	1042EST			0	0	0.00K	0.00K	Hail (0.75)	
	At 1042	AM EST, an ar	nateur radio	operator rep	orted dime	-size hail at l	Lincoln.		,	
D 11 ~										
Providence County 1 SE Cranston	30	1209EST								
1 512 Cranston	50	1600EST			0	0	0.00K	0.00K	Flood	
	A+ 1200	PM EST, an an	antone endi-	marator ===	antad that T	Conting Asses	uo in Cronot-	wee flee 1	ad.	
	At 1209	1 W 1 123 1, all all	nateur rauro (эрстают тер	nicu illat f	onuac Avell	ue iii Cialistoi	1 was 110000	A.	

Low pressure raced east from the Great Lakes bringing showers and isolated thunderstorms to Southern New England on the morning of Saturday the 30th. A coupl eof the showers in Rhode Island contained locally heavy downpours, and one contained large hail.

Date tral	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	
tral							Сторз	Character of Storm
01	1345EST							
	1349EST			0	0			Hail (1.00)
Quarter	size hail reporte	d near the in	tersection of	River Rd	and Doe Rur	Ln.		
01	1350EST							
	1355EST			0	0			Hail (1.00)
Quarter	size hail reporte	d at Lake Wa	ateree camp	ground.				
01	1350EST							
	1355EST			0	0			Thunderstorm Wind (60EG)
Trees de	own at Lake Wat	eree Campg	round.					
Note: 7	The estimated wi	nd gust of 60	knots is equ	ivalent to	69 mph.			
01	1440EST			0	0			H 11 (1 00)
	1445EST			0	0			Hail (1.00)
Pea to q	uarter size hail r	eported at Q	uail Ridge F	arms near	McBee.			
01	1440EST							
	1444EST			0	0			Thunderstorm Wind (60EG)
Trees de	own on US Hwy	1 near McB	ee.					
Daytim	e heating, along	with moistu	re, instabilit	y, and she	ear, influence	d by the remn	ants of Tr	opical Cyclone Harvey NW of
05	1420EST							
	1425EST			0	0			Thunderstorm Wind (55EG)
Barnwe	ll Co SC EM rep	orted severa	l trees down					
Note: 7	The estimated wi	nd gust of 55	knots is equ	ivalent to	63 mph.			
05	2043EST							
	2045EST			0	0			Thunderstorm Wind (50EG)
Sheriff	reported large lir	nbs down on	power lines	on Damas	scus Church	Rd near Dama	scus Churc	ch.
Thunde	rstorm activity	developed a	long a prefr	ontal surfa	ace trough, a	few of which	n produced	d strong damaging wind gusts.
Note: T	he estimated wi	nd gust of 5	0 knots is e	quivalent	to 58 mph.		-	
06	1246EST			0	0			There do not a mar Wind (COEC)
	1250ES1			Ü	Ü			Thunderstorm Wind (60EG)
SCHP r	eported trees dov	wn on Interst	ate 95 at mil	e markers	105 and 106	northbound. T	Time estim	ated based on radar.
Note: 7	The estimated wi	nd gust of 60	knots is equ	ivalent to	69 mph.			
06	1259EST			0	0			Thursdonets W. 1/55EC
	1300EST			Ü	Ü			Thunderstorm Wind (55EG)
	Quarter 01 Trees de Note: T 01 Trees de Daytim the regi and stro 05 Barnwe Note: T 05 Sheriff: Thunde Note: T 06 SCHP r Note: T 06	Quarter size hail reporter 1350EST 1355EST Quarter size hail reporter 1350EST 1355EST Trees down at Lake Wath Note: The estimated with the stimated with	Quarter size hail reported near the in 1350EST 1355EST Quarter size hail reported at Lake Waterest Campg 1355EST Trees down at Lake Wateree Campg 1355EST Trees down at Lake Wateree Campg 1440EST 1445EST Pea to quarter size hail reported at Quarter size hail reported severe thand strong damaging with moistute region, led to scattered severe thand strong damaging wind gusts. Note: The estimated wind gust of 55 at 2043EST 2045EST Sheriff reported large limbs down on Thunderstorm activity developed at Note: The estimated wind gust of 50 at 246EST 1250EST SCHP reported trees down on Interst Note: The estimated wind gust of 60 at 259EST 1300EST	Quarter size hail reported near the intersection of 1 1350EST 1355EST Quarter size hail reported at Lake Wateree camps 1 1350EST 1355EST Trees down at Lake Wateree Campground. Note: The estimated wind gust of 60 knots is equal to 1440EST 1445EST Pea to quarter size hail reported at Quail Ridge For 1445EST Trees down on US Hwy 1 near McBee. Daytime heating, along with moisture, instability the region, led to scattered severe thunderstorms and strong damaging wind gusts. Note: The esting 1420EST 1420EST 1425EST Barnwell Co SC EM reported several trees down Note: The estimated wind gust of 55 knots is equal to 150 knots is e	Quarter size hail reported near the intersection of River Rd 1 1350EST 1355EST 0 Quarter size hail reported at Lake Wateree campground. 1 1350EST 1355EST 0 Trees down at Lake Wateree Campground. Note: The estimated wind gust of 60 knots is equivalent to 1440EST 1445EST 0 Pea to quarter size hail reported at Quail Ridge Farms near 1444EST 0 Trees down on US Hwy 1 near McBee. Daytime heating, along with moisture, instability, and she the region, led to scattered severe thunderstorms over the land strong damaging wind gusts. Note: The estimated win 1420EST 1425EST 0 Barnwell Co SC EM reported several trees down. Note: The estimated wind gust of 55 knots is equivalent to 152045EST 0 Sheriff reported large limbs down on power lines on Dama: Thunderstorm activity developed along a prefrontal surf. Note: The estimated wind gust of 50 knots is equivalent 150 1246EST 1250EST 0 SCHP reported trees down on Interstate 95 at mile markers Note: The estimated wind gust of 60 knots is equivalent to 1525EST 1300EST 0	Quarter size hail reported near the intersection of River Rd and Doe Rur 1350EST 1355EST 0 0 0 Quarter size hail reported at Lake Wateree campground. O1 1350EST 0 0 0 Trees down at Lake Wateree Campground. Note: The estimated wind gust of 60 knots is equivalent to 69 mph. O1 1440EST 1445EST 0 0 0 Pea to quarter size hail reported at Quail Ridge Farms near McBee. O1 1440EST 1444EST 0 0 0 Trees down on US Hwy 1 near McBee. Daytime heating, along with moisture, instability, and shear, influence the region, led to scattered severer thunderstorms over the Northern Mic and strong damaging wind gusts. Note: The estimated wind gust of 60 O5 1420EST 0 0 Barnwell Co SC EM reported several trees down. Note: The estimated wind gust of 55 knots is equivalent to 63 mph. O5 2043EST 0 0 Sheriff reported large limbs down on power lines on Damascus Church 1 Thunderstorm activity developed along a prefrontal surface trough, a Note: The estimated wind gust of 50 knots is equivalent to 58 mph. O6 1246EST 0 0 SCHP reported trees down on Interstate 95 at mile markers 105 and 106 Note: The estimated wind gust of 60 knots is equivalent to 69 mph. O6 1259EST 0 0	Quarter size hail reported near the intersection of River Rd and Doe Run Ln. 11350EST 0 0 0 Quarter size hail reported at Lake Wateree campground. 11350EST 0 0 0 Trees down at Lake Wateree Campground. Note: The estimated wind gust of 60 knots is equivalent to 69 mph. 11440EST 0 0 0 Pea to quarter size hail reported at Quail Ridge Farms near McBee. 11440EST 1 0 0 Trees down on US Hwy 1 near McBee. Daytime heating, along with moisture, instability, and shear, influenced by the remainster reported at gusts. Note: The estimated wind gust of 60 knots is equivalent to 63 mph. 1250EST 0 0 Barnwell Co SC EM reported severe thunderstorms over the Northern Midlands of SC dand strong damaging wind gusts. Note: The estimated wind gust of 60 knots is equivalent to 63 mph. 1250EST 0 0 Sheriff reported large limbs down on power lines on Damascus Church Rd near Dama Thunderstorm activity developed along a prefrontal surface trough, a few of which Note: The estimated wind gust of 50 knots is equivalent to 58 mph. 1240EST 0 0 ScHP reported trees down on Interstate 95 at mile markers 105 and 106 northbound. The estimated wind gust of 60 knots is equivalent to 69 mph.	Quarter size hail reported near the intersection of River Rd and Doe Run Ln. 01

Note: The estimated wind gust of 55 knots is equivalent to 63 mph.

		Time Local/	Path Length	Path Width	Numi Perso	ber of	Estimated Damage	September 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
SOUTH CAROLINA, Centr	<u>al</u>								
Lee County 5 SE St Charles	06	1540EST 1544EST			0	0		Thunderstorm Wind (60EG)	
	SCHP re	ported trees dov	vn on SC 52	7 and US 76	. Time estin	nated based	on radar.		
Aiken County	produce							w of which became severe and atted wind gust of 60 knots is	
3 ESE Windsor	11 12	0000EST 0800EST			0	0		Heavy Rain	
	CoCoRa	HS observer me	asured a tota	ıl rainfall an	nount of 5.7:	5 inches 3 n	niles ESE of Windsor.		
Bamberg County 3 WNW Denmark	11	0000EST							
	12	0800EST			0	0		Heavy Rain	
	CoCoRa	HS observer me	asured a tota	ıl rainfall an	nount of 6.80	0 inches 3 n	niles WNW of Denmark.		
Barnwell County 1 SSE Hilda	11 12	0000EST 0800EST			0	0		Heavy Rain	
	COOP o	bserver 5 miles	ENE of Barr	nwell measu	red a total ra	ainfall amou	ant of 6.35 inches.		
Clarendon County 3 WSW St Paul	11 12 RAWS u	0000EST 0800EST unit 5 miles NNE	E of Santee a	ıt Santee NV	0 VR measure	0 d a total rain	nfall amount of 5.96 inch	Heavy Rain	
Lovington County									
Lexington County 2 E Lexington	11 12	0000EST 0800EST			0	0		Heavy Rain	
	CoCoRa	HS observer me	asured a tota	ıl rainfall an	nount of 5.80	6 inches 2 n	niles E of Lexington.		
Lexington County 1 N (CAE)Columbia Metro	11 12	0000EST 0800EST			0	0		Heavy Rain	
	ASOS u	nit at Columbia	SC Metropo	litan Airpor	t measured a	total rainfa	ll amount of 3.78 inches	•	
Orangeburg County Holly Hill	11 12	0000EST 0800EST			0	0		Heavy Rain	
	COOP o	bserver near Ho	lly Hill meas	sured a total	rainfall amo	ount of 7.18	inches.		
Orangeburg County 1 NW Orangeburg Arpt	11 12	0000EST 0800EST			0	0		Heavy Rain	
	ASOS u	nit at Orangebur	g SC Munic	ipal Airport	measured a	total rainfal	l amount of 3.86 inches.		

		Time	Path	Path	Numl		Estin		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Dam Property	age Crops	Character of Storm
SOUTH CAROLINA, Centr	<u>al</u>								
Richland County 1 E Columbia Owens Arpt	11 12	0000EST 0800EST			0	0			Heavy Rain
	ASOS u	nit at Hamilton-	Owens Airpo	ort in Colum	bia measure	d a total rai	nfall amount	of 3.10 incl	nes.
P'aller I Compte									
Richland County Wateree	11 12	0000EST 0800EST			0	0			Heavy Rain
	RCWIN	DS unit near the	town of Wa	teree measur	red a total ra	ainfall amou	ant of 5.27 inc	ches.	
SCZ021-028-030- 035-036	Aiken -	Barnwell - F	'airfield - C)rangebur	g - Richlai	nd			
033-030	11	0830EST 1215EST			0	0			High Wind
SCZ035	Barnwe	ell							
	11	1304EST			0	0	0.1K	0.1K	Strong Wind
	11	1313EST 1315EST			0	0			High Wind
SCZ027	Lexing	ton							
	11	1315EST 1317EST			0	0			High Wind
SCZ036	Orange	eburg							
	11	1414EST			0	0	0.1K	0.1K	Strong Wind
SCZ018-028	McCor	mick - Richla	ınd						
	11	1445EST 1540EST			0	0			High Wind
SCZ027	Lexing	ton							
	11	1542EST			0	0	0.1K	0.1K	Strong Wind
	11	1548EST 1550EST			0	0			High Wind
	11	1550EST 1555EST			0	0			High Wind
SCZ015-031	Lancas	ter - Sumter							
	11	1555EST 1719EST			0	0	0.2K	0.2K	Strong Wind
SCZ041	Bambe	rg							
	11	1730EST 1735EST			0	0			High Wind
SCZ021	Fairfiel	ld							
	11	1735EST			0	0	0.1 K	0.1K	Strong Wind

Dt01	in D	ata am	u C II	usua		athe	1 1 11011	OII.	СПа
Location	Data	Time Local/	Path Length	Path Width	Perso		Estimated Damage		September 201 Character of Storm
Location COLUMN CAROLINA Contact	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property (Crops	Character of Storm
SOUTH CAROLINA, Cent	<u>rai</u>								
Bamberg County 1 NW Olar 1 WSW Govan	11	1801EST 1805EST	2	50	0	0			Tornado (EF0)
	approximate approximate approximate reaching	mately 4 minute hado touched do mately 2 miles.	es later near wn just north The tornado . The tornad	Govan, SC nwest of the crossed T o downed a	The tornade town of Ola hunder Road few trees a	lo was assoc ar along Thu d, Red Fox	riated with the ci inder Road. The Road, Memoria	irculatio tornado 1 Churcl	ed to the NNW and dissipated on of tropical cyclone Irma. continued north-northwest for h Road and dissipated before n. The tornado was brief, only
	peninsu Florida weakeni Area (C the 11th SW, and	la during the da Monday morning ing to a Depress SRA) of GA and and into the ea	y and night g September ion. Copious I the Midlan arly morning to our north	while grad r 11th, and s rainfall am ds of SC, w hours of T , provided s	lually weak shifted NW nounts assoc hich general uesday the a strong wind	ening. Irma over SW G iated with th lly fell from 12th. In addi gusts over t	weakened to Tr eorgia and into A ne cyclone occurr late Sunday nightion, the pressur	opical S Alabama red acros nt, throug e gradie	n moved north up the Florida Storm status while over north through Monday night while ss the Central Savannah River gh Monday and Monday night ent between the cyclone to our downed numerous trees. The
Aiken County									
1 W Hamburg	22	1332EST 1335EST			0	0			Hail (0.88)
	Nickel t	o dime size hail	reported in N	North Augus	sta SC near t	he 5th St Br	idge.		
			•				afternoon, which	n produc	ed hail
	Duytiiik	neumg unowed	i isolatea se	vere munder	storms to de	velop in the	urternoon, which	i produc	oca man.
SOUTH CAROLINA, North	h Coastal	<u>[</u>							
SCZ056	Coasta	l Georgetown							
	11	1200EST			0	0			Coastal Flood
									e to the north, creating a very ry County and points north.
Georgetown County 1 SE Georgetown Co Arpt	11	1714EST 1715EST			0	0	0.00K).00K	Thunderstorm Wind (53MG)
	AWOS	equipment meas	urad a wind	guet to 61 n				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	manderstorm (ma (come)
	The conbrought	nbination of rap strong gradient	idly weaken winds to the arface, resul	ing Tropica area. Thes ting in a se	al Storm Irm e winds wer vere thunde	na across sou	uthwest Georgia by convection. C	One thun	ong high pressure to the north iderstorm was able to produce in County Airport. Note: The
SOUTH CAROLINA, North	nwest								
Chester County 1 ENE Lando	01	1327EST comms reported	a few trees b	olown down	0 with one fa	0 lling on a po	0.00K (0.00K ando are	Thunderstorm Wind (50EG) ea.
	and asso		w pressure.	One embed	ded severe t				afternoon ahead of a cold front ast Chester County. Note: The
SCZ001>006-010> 012-019	Abbev Green	ille - Anderso wood - Laure	n - Greate ns - Ocone	er Greenv ee Mounta	ille - Grea ains - Pick	iter Ocone ens Moun	e - Greater Pi tains	ickens	- Greenville Mountains -
	11	0900EST 2100EST			0	0	100.0K	0.00K	High Wind

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nmber of rsons Injured	Estimated Damage Property Crops	September 2017 S Character of Storm
SOUTH CAROLINA, No.			(,	(1322)			on purify and	
	over we prolong	estern portions ed nature of the	of Upstate S e event, com	outh Caroli bined with s	na. Altho aturated	ough gusts on soils resulting	nly occasionally exce	Georgia, strong winds developed eeded 50 mph in these areas, the resulted in many trees falling on
Oconee County 6 NW Jocassee	20 Utility c	1609EST company reporte	ed 3/4 inch ha	il in the Bac	0 I Creek ar	0 ea.		Hail (0.75)
		cluster of thun rnoon, produci				rolina and thr	rough the Bad Creek	area of South Carolina during the
SOUTH CAROLINA, Sou	uth Coastal	<u>[</u>						
Jasper County 2 NE Purrysburg	01	1525EST 1526EST			0	0	0.00	K Thunderstorm Wind (50EG)
	South C	arolina Highwa	y Patrol repo	rted a tree do	own on H	ighway 321 ne	ear the intersection wi	ith Honey Hill Road.
	Note: T	he estimated wi	ind gust of 50	knots is equ	uivalent to	58 mph.		
Colleton County 1 N Cottageville	01	1610EST 1611EST			0	0	0.00	K Thunderstorm Wind (50EG)
	Colletor	n County dispate	ch reported a	tree down o	n Pierce F	Road near Cott	tageville Highway.	
	Note: T	he estimated wi	ind gust of 50	knots is equ	uivalent to	58 mph.		
Colleton County	01	1612505						
2 E Cottageville	01	1613EST 1614EST			0	0	0.00	K Thunderstorm Wind (50EG)
	South C	arolina Highwa	y Patrol repo	rted 2 trees o	lown in th	ne 3500 block	of Rhode Drive.	
	Note: T	he estimated wi	ind gust of 50	knots is equ	uivalent to	58 mph.		
Dorchester County 4 SSE Givhans	01	1624EST						
1002 Givinais	01	1625EST			0	0	0.00	K Thunderstorm Wind (50EG)
	South C	arolina Highwa	y Patrol repo	rted a tree do	own on H	ighway 61 nea	ar the intersection with	h Old Beech Hill Road.
	Note: T	he estimated wi	ind gust of 50	knots is equ	uivalent to	58 mph.		
Dorchester County 2 NW Jedburg	01	1638EST 1639EST			0	0	0.00	K Thunderstorm Wind (50EG)
	South C	arolina Highwa	y Patrol repo	rted a tree do	own on D	awson Branch	Road near the interse	ection with Highway 78.
	Carolin Cyclone	 a. These thund b. Harvey as it n 	lerstorms for noved across	med in a w the Tennes	arm and see Valle	unstable airm y. A few of t	ass around the perip	progressed into southeast South hery of the remnants of Tropical became strong enough to produce
Charleston County 2 S Mt Pleasant	02	0256EST 0308EST			0	0	0.00	K Thunderstorm Wind (51MG)
	The We	atherflow site a	t Fort Sumter	measured a	51 knot v	vind gust. The	e peak gust of 61 know	ts occurred 10 minutes later.

Note: The measured wind gust of 51 knots is equivalent to 59 mph.

		Time	Path	Path		nber of	Estimated	September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	sons Injured	Damage Property Crops	Character of Storm
SOUTH CAROLINA, Sout	h Coastal	:						
Charleston County 1 W Centerville	02	0258EST 0300EST			0	0	0.00K	Thunderstorm Wind (55EG)
	A traine	d spotter reporte	d a large tre	e down in the	e 900 bloc	k of Folly Ro	ad on James Island.	
						·	uu on vunios island.	
Charleston County	Note: 1	he estimated wir	id gust of 55	knots is equ	uvalent to	63 mph.		
2 SW Folly Beach	02	0259EST 0301EST			0	0	0.00K	Thunderstorm Wind (54MG)
	The We	atherflow site on	the Folly B	each pier me	easured a 5	4 knot wind	gust.	
	Note: T	he measured win	nd gust of 54	knots is equ	uivalent to	62 mph.		
Charleston County 1 WNW Isle Of Palms	02	0305EST 0307EST			0	0	0.00K	Thunderstorm Wind (50MG)
	The We	atherflow site at	the Isle of P	alms pier me	easured a 5	0 knot wind	gust.	
	Note: T	he measured wir	nd gust of 50) knots is ear	nivalent to	58 mph		
Charleston County	1,000.1	no meagarea wi	ia gast of the	, moto to eq.		oo inpin		
1 NE James Is	02	0308EST 0309EST			0	0	0.00K	Thunderstorm Wind (55EG)
	A report	of a tree down i	near the inte	rsection of F	red Street	and Fort Johi	nson Road was received v	ia social media.
	Note: T	he estimated wir	nd gust of 55	knots is equ	uivalent to	63 mph.		
Charleston County				•		•		
1 N James Is	02	0310EST 0311EST			0	0	0.00K	Thunderstorm Wind (55EG)
	A traine	d spotter reporte	d several lar	ge limbs dov	wn on Still	water Drive.		
	Note: T	he estimated wir	nd gust of 55	5 knots is equ	uivalent to	63 mph.		
Charleston County			8					
2 NNE Philip	02	0313EST 0314EST			0	0	0.00K	Thunderstorm Wind (55EG)
		nal Weather Ser	vice employ	ee reported	2 large tree	es down near	the intersection of High	way 41 and the entrance to the
		he estimated win	nd gust of 55	knots is equ	uivalent to	63 mph.		
Charleston County 3 NNE Ten Mile	02	0330EST 0331EST			0	0	0.00K	Thunderstorm Wind (55EG)
	Charlast		tah ranartad	multiple tre				manaerstorm (ma (cc2c)
	Charlest	on County dispa	ich reported	mumple tre	es down ai	ong Seewee	Road near Highway 17.	
	Note: T	he estimated win	nd gust of 55	knots is equ	uivalent to	63 mph.		
Charleston County 4 N Ten Mile	02	0330EST						
		0331EST			0	0	0.00K	Thunderstorm Wind (55EG)
	Charlest	on Fire Departm	ent reported	a tree down	on Guerin	s Bridge Roa	nd near Woodville Road.	
	thunder		o the northe	east along th	e southeas	t South Card		theast Georgia coast. These strong damaging wind gusts.

SOUTH CAROLINA, South Coastal SCZ050 Charleston	s Injured Prop	Damage perty Crops	Character of Storm
SCZ050 Charleston	0		
	0		
	0		
10 1124EST 1300EST 0		0.00K	Coastal Flood
A combination of recent full moon, approaching perigee, and Irma produced elevated high tides and coastal flooding along			pproaching Tropical Cyclone
SCZ047 Jasper			
11 0600EST 1800EST 0	0 0.0	0K 0.00K	Tropical Depression
SCZ048-051 Beaufort - Coastal Jasper			
11 0600EST 1900EST 0	0 0.0	0K 0.00K	Tropical Storm
SCZ040-042>045- 052 Allendale - Berkeley - Dorchester - Hampton - North	hern Colleton -	Tidal Berkeley	
11 0800EST 2000EST 0	1 0.0	0K 0.00K	Tropical Depression
SCZ049-050 Charleston - Southern Colleton			
11 0800EST 2000EST 0	0 0.0	0K 0.00K	Tropical Storm
SCZ045-048>050- 052 Beaufort - Berkeley - Charleston - Southern Colleton	n - Tidal Berke	ley	
11 0900EST 1600EST 0	0 0.0	0K 0.00K	Storm Surge/Tide
Jasper County 1 NW Old House 11 1330EST 1600EST 0	0 25.	00K 0.00K	Flash Flood
Jasper County Emergency Management reported homes floo with Highway 462. At least 1 person was stranded and in n		ible on Cherry Hi	ll Road near the intersection
Charleston County 2 WSW Drayton 11 1340EST			
12 0100EST 0	0 50.	00K 0.00K	Flash Flood
The Crosstowne Christian Church on Bees Ferry Road floo occurred when Church Creek overflowed its banks in the after a nearly 5 foot rise in the creek level in response to 8.97 incl Circle was also flooded and impassable along Church Creek	rnoon. A nearby r hes of storm total	iver and rain gaug rainfall due to Tr	ge on Church Creek measured ropical Storm Irma. Winners
Charleston County 1 SW (CHS)Charleston Afb 11 1348EST 2 SSW Hilldale 1350EST 1.46 60 0	0	0.00K	Tornado (EF0)

A National Weather Service storm survey team confirmed an EF0 toranado on Joint Base Charleston in Charleston County. The weak, short-lived tornado, associated with the outer rain bands of Tropical Storm Irma, touched down near the Joint Base Charleston flight line and traveled along a discontinuous path toward the north-northwest. The tornado pushed back the edge of the roof on the control tower, damaged fascia of a nearby building near the flight line, and damaged the roof of another metal building on the base. Farther northwest on the Wrenwoods Golf Course, the tornado blew down two large oak trees and snapped large branches of other trees. The tornado then dissipated just beyond the north side of the golf course, about 2 minutes after touchdown.

		Time	Path	Path		nber of	Estima	ated	September 2017
		Local/	Length	Width	Pers	ons	Damag	ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

SOUTH CAROLINA, South Coastal

Dorchester County 4 ESE Slandsville

11 1400EST 2300EST 0 0 500.00K 0.00K Flash Flood

Dorchester County Emergency Management reported that water entered at least 31 homes due to flash flooding along Eagle Creek. This included homes on Tranquil Lane and Harrison Road in the Tranquil Acres/Estates neighborhood, as well as homes in the Summerwood subdivision off of Ladson Road. Of the 31 impacted structures, 18 had 12 inches or less of water, 10 had between 13 and 23 inches of water, and 3 had between 24 and 35 inches of water inside.

Charleston County
2 S Charleston Johns Arp

11 1645EST 1647EST 0.43 30 0 0 0.00K Tornado (EF1)

A National Weather Service storm survey team confirmed an EF1 tornado in Legare Farms on Johns Island. The tornado touched down along the west bank of the Stono River near the junction of Abbapoola Creek. The tornado initially traveled north-northwest near the Stono River, destroying a shed, snapping a large live oak tree at the trunk, and damaging several other trees. In this area, the tornado also pulled from the ground a well pump and cement anchors for a chain link fence. The tornado then knocked a home off pilings, and the displaced residence incurred significant roof damage and crushed a pickup truck which was parked under the damaged house. The tornado then turned toward the north and northeast, damaging multiple trees before lifting along the west bank of the Stono River.

Charleston County

11 1719EST 1721EST 0.12 55 0 0 0.00K Tornado (EF0)

A National Weather Service storm survey team confirmed an EF0 tornado on James Island. The weak, short-lived tornado, associated with an outer rainband of Tropical Storm Irma, touched won in a marsh north of Schooner Creek and tracked north-northwest. The tornado uprooted a live oak tree and damaged another tree at the edge of the marsh. The tornado then damaged a residence on the southeast side of Seaward Drive, blowing of part of the southeast and northwest facing roof. The tornado then crossed Seaward Drive, damaging another tree and blowing 4 shutters off the southeast facing side of a residence on Lynne Avenue. Debris carried from the Seaward Drive residence also damaged a soffit on the Lynne Avenue home. The tornado then lifted south of Parrot Point Creek.

Charleston County 2 E The Groves 2 N Sullivans Is

11 1813EST 1815EST 0.57 90 0 0 0.00K Tornado (EF0)

A National Weather Service Storm Survey team confirmed an EF0 tornado in Mount Pleasant. The weak, short-lived tornado, associated with an outer rainband of Tropical Storm Irma, formed over the marsh area between Mount Pleasant and Sullivan's Island. The weak tornado first moved into the south end of Pine Island View Road, then moved quickly north-northwest over the eastern ends of Oak Landing Road and Green Path Lane, before dissipating back on Pine Island View Road. Although no significant structural damage was observed, there were many large tree limbs down, some uprooted trees, and one wooden fence completely blown down.

September 2017 Time Path Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location

SOUTH CAROLINA, South Coastal

Irma first developed into a tropical storm on August 30th about 420 miles west of the Cabo Verde Islands, and within 24 hours strengthened into a hurricane. Irma continued to intensify and became a major hurricane over the eastern Atlantic on September 1st. After undergoing a brief period of weakening on September 2nd, Irma once again strengthened into a major hurricane on September 3rd and maintained major hurricane status through September 10th when it made landfall on the southwest Florida coast. During this extended period as a major hurricane, Irma set numerous intensity records for a hurricane in the Atlantic basin. Maximum sustained winds reached 185 mph, making Irma the strongest storm on record to exist in the Atlantic Ocean outside of the Caribbean and Gulf of Mexico. Also, Irmas 185 mph maximum sustained winds are tied for the second strongest maximum winds all time in an Atlantic hurricane. The minimum central pressure reached during Irmas life cycle was 914 mb which is the lowest pressure on record by an Atlantic hurricane outside of the western Caribbean and Gulf of Mexico. Furthermore, Irma maintained Category 5 status for 3 consecutive days which is the longest on record for an Atlantic hurricane. Irma stayed on a general westward track through September 5th when it began a gradual turn to the west-northwest. On this west-northwestward track, Irma eventually skirted along the north coast of Cuba on September 9th before turning northward toward Florida on September 10th. Irma officially made landfall at Marco Island, FL at 3:35 pm September 10 as a Category 3 hurricane. Following landfall, Irma tracked to the north-northwest and eventually the northwest as it progressed up the western side of the Florida peninsula. Irma steadily weakened during this time and was downgraded to a tropical storm near the big bend of Florida at 8:00 am on September 11th. Through the rest of September 11th, Irma tracked to the northwest into southern Georgia and widespread impacts occurred across the Southeast.

Despite the fact that the center of Irma tracked well to the west of the southeast Georgia and southeast South Carolina region, it still caused significant impacts due to heavy rainfall, strong winds, tornadoes, and storm surge. Feeder bands around Irma continuously moved onshore on September 11th and produced very heavy rainfall rates with rainfall totals generally ranging from 3 to 9 inches. The peak storm total rainfall of 9.07 was recorded by a CoCoRaHS observer near Beaufort, SC. Daily record rainfall totals for September 11th were recorded at all 3 climate sites in the area: 5.51 at the Charleston International Airport (KCHS), 4.53 at Downtown Charleston (KCXM), and 4.74 at the Savannah-Hilton Head International Airport (KSAV). This widespread heavy rain resulted in several reports of flash flooding with water entering homes and businesses. Wind damage produced numerous power outages across the region with some damage to structures and numerous downed trees. The strongest winds were confined to coastal locations, but frequent gusts into the 40-50 mph range occurred well inland. The maximum sustained wind recorded was 59 mph by the Weatherflow site on the Folly Beach Pier (XFOL) and the maximum wind gust recorded was 76 mph by the Weatherflow site near Beaufort (XBUF). One fatality and 1 injury occurred from trees falling on homes and across roadways in southeast South Carolina. The entire southeast Georgia and southeast South Carolina coast was impacted by storm surge generally ranging from 3 to 6 feet. This storm surge produced numerous reports of 4 to 6 feet of inundation above ground level, mainly along the southeast South Carolina coast. A peak surge of 4.87 feet occurred at the Charleston Harbor tide gauge at 2:00 pm while a peak surge of 5.63 feet occurred at the Fort Pulaski tide gauge at 5:42 am. Significant beach erosion occurred at area beaches with widespread damage to docks and piers all along the coast, as well as numerous reports of inundated roadways.

SOUTH DAKOTA, Central and North

SDZ003>005-009> 010-015>017-033> 037-045-048-051 Buffalo - Campbell - Corson - Dewey - Edmunds - Faulk - Hand - Hughes - Hyde - Jones - Lyman - McPherson - Potter - Stanley - Sully - Walworth

01 0000CST 30 2359CST 0 0 0.00K 0.00K Drought

Severe drought continued across most of central and north central South Dakota throughout much of September west of the James River Valley. There was some improvement towards the end of September. Periodic episodes of precipitation across the region had prevented widespread worsening of the drought conditions. The severe drought had began across the region in early June. Several counties still had burn bans in place. Crops and pastureland continued to suffer from the the long term dryness. The spring and winter wheat production was at its lowest in years and more than 60 percent below long-term norms. Only 670,000 acres of spring wheat were harvested in the state this year, the lowest since the big drought year of 1936 when only 550,000 acres were harvested.

McPherson County 6 SW Langlake	19	1304CST	0	0	0.00K	0.00K	Hail (0.88)
McPherson County 2 WSW Langlake	19	1312CST	0	0	0.00K	0.00K	Hail (0.88)
McPherson County 6 ENE Long Lake	19	1355CST	0	0	0.00K	0.00K	Hail (1.00)
Walworth County 1 E Java	19	1745CST	0	0	0.00K	0.00K	Hail (1.00)

		Time Local/	Path Length	Path Width		nber of	Estim Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
SOUTH DAKOTA, Cent	ral and Nor	<u>th</u>							
Walworth County 1 E Java	19	1751CST			0	0			Hail (1.75)
Brown County 2 NNW Richmond	19	1800CST			0	0	0.00K	0.00K	Hail (1.50)
Hand County 2 WSW Vayland	19	1804CST			0	0	0.00K	0.00K	Hail (0.88)
Edmunds County 9 N Bowdle	19	1805CST			0	0			Hail (1.50)
Edmunds County 9 N Bowdle		1805CST oh winds along w					along with st	ripping son	Thunderstorm Wind (52EG) ne corn.
	Note: T	he estimated win	d gust of 52	knots is equ	ivalent to	60 mph.			
Edmunds County 8 W Hosmer	19	1812CST			0	0	0.00K	0.00K	Hail (1.75)
Edmunds County 8 W Hosmer	19	1815CST			0	0	0.00K	0.00K	Hail (1.50)
Brown County 3 NW Westport	19	1817CST			0	0	0.00K	0.00K	Hail (1.00)
Brown County 1 NW Frederick	19	1817CST			0	0	0.00K	0.00K	Hail (0.75)
McPherson County 4 ESE Hillsview	19	1825CST			0	0	0.00K	0.00K	Hail (1.50)
Spink County 5 SW Tulare	19	1846CST 1857CST	2.75	155	0	0			Tornado (EF1)

A tornado touched down 5.5 miles south southwest of Tulare, uprooting a large cottonwood tree in a field. The tornado then passed over pasture and cropland before reaching a residence about 3 miles southwest of Tulare. Large tree branches were broke around the farm yard. On the north side of the farm an outbuilding had significant structural and roof damage with tin from the roof lofted over a half mile to the north. Additionally, two trees were uprooted along the north edge of the property. The tornado continued to track through a soybean field with slight crop damage and debris evident along the path. About 2.8 miles southwest of Tulare an irrigation unit was toppled and the corn crop was leveled before the tornado lifted.



A picture of an EF-1 funnel cloud southwest of Tulare, South Dakota on September 19th, 2017. Photo courtesy of Nick Ihnen.

		Time Local/	Path Length	Path Width		umber of	Estim Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
SOUTH DAKOTA, Central a	and North	<u>l</u>							
Brown County 6 SW Houghton	19	1849CST			0	0	0.00K	0.00K	Hail (1.00)
Brown County 4 W Houghton	19	1908CST			0	0	0.00K	0.00K	Hail (1.50)
Brown County 5 SSW James	19	1933CST 1937CST			0	0			Thunderstorm Wind (65EG)
		ve mph winds c amage from thi					building 5 r	niles south	of James. There was also tree
	Note: The	estimated wind	gust of 65	knots is equ	ivalent to	75 mph.			
Spink County 1 N Doland	19	1950CST			0	0	0.00K	0.00K	Hail (1.00)
Clark County 5 SW Clark	19	1955CST 1956CST	0.08	10	0	0	0.00K	0.00K	Tornado (EF0)
	A tornado	touched downed	d briefly in	an open fiel	ld with no	damage occurr	ring.		
Clark County 1 N Bradley	19	2026CST 2027CST	0.11	10	0	0	0.00K	0.00K	Tornado (EF0)
	A tornado	touched down b	riefly near	Bradley. No	o damage	was reported.			
Codington County									
1 ESE (ATY)Watertown Arpt	19 20	2215CST 0115CST			0	0	0.00K	0.00K	Flood
		as of 1 to 3 inchealled with searc						to parts of	Watertown. There were a few
		orms to the east							unstable air brought severe ands, along with some isolated
Day County 6 ESE Pierpont	22 A severe th	0025CST nunderstorm pro	oduced quar	ter size hail	0 southeas	0 t of Pierpont.	0.00K	0.00K	Hail (1.00)
SOUTH DAKOTA, Southeas	<u>t</u>								
Lake County 3 ENE Winfred	15	1804CST 1808CST	0.1	100	0	0	0.00K	0.00K	Tornado (EF0)
	A brief tor	nado damaged v	ery old out	buildings a	it an aban	doned farmstea	d.		
Lake County 2 NNE Winfred		1805CST storm develope as also spawned					0.00K came severe	0.00K and produc	Hail (1.00) ced severe-sized hail. A brief
Brule County 8 SSE Kimball	19 Quarter siz	2008CST te hail at Grass (Colony Ran	ch.	0	0	0.00K	0.00K	Hail (1.00)

		Time	Path	Path		mber of	Estim	ated	September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pei Killed	rsons Injured	Dama Property	ge Crops	Character of Storm
SOUTH DAKOTA, Souther	ast								
Gregory County 7 ESE Carlock	 19	2015CST varied from qu	arters to half	f dollars.	0	0	0.00K	0.00K	Hail (1.25)
Aurora County 1 E White Lake	19	2020CST			0	0	0.00K	0.00K	Hail (1.50)
Sanborn County 7 NE Woonsocket	19	2029CST			0	0	0.00K	0.00K	Hail (1.00)
Davison County (MHE)Mitchell Arpt	19 Note: T	2102CST he measured wi	nd gust of 50) knots is eq	0 uivalent to	0 58 mph.	0.00K	0.00K	Thunderstorm Wind (50MG)
Miner County 4 WSW Carthage	19 Quite a b	2120CST oit of tree damaş	ge, as well as	s minor dama	0 age to hon	ones.	0.00K	0.00K	Thunderstorm Wind (61EG)
McCook County 1 W Salem	19 Quite a l	2151CST pit of tree damage the estimated wi	ge.	-	0	0	0.00K	0.00K	Thunderstorm Wind (61EG)
Turner County 1 E Marion	19 Six inch	2157CST diameter branch he estimated wi	nes down in	the town of I	0 Marion.	0	0.00K	0.00K	Thunderstorm Wind (61EG)
Lake County 3 NW Smiths Park	19 Tree bra	2209CST nches downed.	Garage door	rs blown in a	0 round Lak	0 se Madison.	0.00K	0.00K	Thunderstorm Wind (65EG)
Lake County 1 E Wentworth	19 Trees da	he estimated wi 2216CST maged, as well he estimated wi	as house sidi	ing.	0	0	0.00K	0.00K	Thunderstorm Wind (61EG)
Moody County 2 SSE Colman	_	2218CST uipment and a fo he estimated wi		_	0 uivalent to	0 75 mph.	25.00K	0.00K	Thunderstorm Wind (65EG)
Moody County Colman		2221CST nes and trees do he estimated wi) knots is equ	0 uivalent to	0 81 mph.	0.00K	0.00K	Thunderstorm Wind (70EG)
Minnehaha County 1 E Dell Rapids	19 Tree Dai Note: T	2227CST mage. he estimated wi	nd gust of 65	5 knots is equ	0 uivalent to	0 75 mph.	0.00K	0.00K	Thunderstorm Wind (65EG)
Minnehaha County 1 W (FSD)Joe Foss Fld Si	19 Note: T	2227CST he measured wi	nd gust of 52	2 knots is equ	0 uivalent to	0 60 mph.	0.00K	0.00K	Thunderstorm Wind (52MG)
Minnehaha County 1 N West Sioux Falls	produced		g winds. The	e strong win					Thunderstorm Wind (50MG) during the evening hours and a home. Note: The measured
McCook County 2 SW Center	22	1608CST			0 dissipated	0 I. But before	0.00K doing so, it pr	0.00K oduced loc	Hail (1.00) alized severe-sized hail.

		Time Local/	Path Length	Path Width	Num Pers	iber of	Estima Damas		September 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
SOUTH DAKOTA, Southeas	<u>st</u>								
McCook County 1 E Center	22 Scattered	1614CST thunderstorms	developed in	east centra	0 l South Dal	0 cota and prod	0.00K duced severe-s	0.00K ized hail i	Hail (0.88) n localized areas.
Davison County 4 SSE Mt Vernon	22 An isolate	1755CST ed thunderstorn	n developed a	nd quickly	0 dissipated.	0 But before	0.00K doing so, it pro	0.00K oduced loc	Hail (1.00) alized severe-sized hail.
McCook County 2 SW Center	23 Hail was	1132CST almost covering	g the ground.		0	0	0.00K	0.00K	Hail (1.00)
Lake County 3 NNW Madison Muni Arpt	23	1149CST			0	0	0.00K	0.00K	Hail (1.00)
Lake County 3 ENE Junius	23	1223CST			0	0	0.00K	0.00K	Hail (1.00)
Lake County 5 W Rutland	23 Scattered	1248CST thunderstorms	developed in	east centra	0 l South Dak	0 cota and prod	0.00K duced severe-s	0.00K ized hail i	Hail (1.75) n localized areas.
SOUTH DAKOTA, West									
Meade County 6 ESE Sturgis	08	1706MST			0	0		0.00K	Hail (1.00)
Meade County Ellsworth Afb	08	1817MST			0	0	0.00K	0.00K	Hail (0.75)
Meade County 2 E Ellsworth Afb	08	1820MST			0	0	0.00K	0.00K	Hail (0.88)
Pennington County Box Elder	08 A thunder	1830MST rstorm briefly b	ecame severe	over east (0 of the Black	0 x Hills. Hail	0.00K to quarter size	0.00K fell from 1	Hail (0.88) near Sturgis to Box Elder.
TENNESSEE, Central									
Davidson County 1 WNW Forest Grove 1 SSW Newsom	01	0000CST 0200CST			0	0	200.00K	0.00K	Flash Flood
	Major fla	sh flooding con	tinued to affe	ct much of	the wester	n two-thirds	of Davidson C	County from	m the evening hours on August

Major flash flooding continued to affect much of the western two-thirds of Davidson County from the evening hours on August 31 into the early morning hours on September 1, with the worst flooding occurring in northwest Davidson County. Numerous homes were flooded on Cato Road and Eatons Creek Road in northwest Nashville and a home was flooded on Vailview Drive in north Nashville. Other homes and cars were flooded on Battlefield Drive near Belmont University with apartments and cars flooded at the Royal Arms Apartments in Green Hills. Many roadways were underwater and closed due to flooding including West End Avenue near Centennial Park and Highway 100 near Lynnwood Terrace in Belle Meade. A total of 30 water rescues were conducted across Davidson County including in Goodlettsville and Whites Creek as well as along Browns Creek, Mill Creek, and Sevenmile Creek.

in the Whites Creek area with many water rescues conducted. Several roads were also flooded in Whites Creek including Lickton Pike and Knight Road. Other roads were flooded and closed in parts of Nashville with several vehicles submerged and water rescues conducted, including at Vantage Way and Rosa Parks Blvd, Murfreesboro Pike north of Briley Parkway, Rolland Road, and Interstate 40 eastbound at Dr. D.B. Todd Jr. Blvd. where 5 cars stalled in the high water.

TNZ005-023>024	Houston - Humphreys - Montgomery - Stewart

01 0000CST 0300CST 0 0 35.0K 0.00K Strong Wind

		Time Local/	Path Length	Path Width		nber of	Estima Dama		September 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TENNESSEE, Central									
Cheatham County 1 W Poplar Ridge 1 WNW Griffintown	01	0100CST 0300CST			0	0	10.00K	0.00K	Flash Flood
									asements. Several roads were et, and Brookhollow Drive.
Sumner County 2 SSW Millersville 3 WSW White Hill	01	0100CST 0300CST			0	0	10.00K	0.00K	Flash Flood
		31W, Highway unds in the area				illersville and	White House	areas wer	e flooded and closed. Two RV
Montgomery County 3 SSE Port Royal	01	0200CST 0400CST			0	0	20.00K	0.00K	Flash Flood
		ds were flooded ely washed out		across east	ern Montg	omery Count	y, including	Highway 7	76 near Port Royal which was
Dickson County 2 ENE Taylor Xrds	02 A 72 hou	0500CST or rainfall total o	of 8.36 inche	s was measu	0 ured at CoC	0 CoRaHS static	0.00K on Vanleer 2.8	0.00K SE.	Heavy Rain
Robertson County 1 N Greenbrier	02 A 72 hou	0500CST ur rainfall total o	of 10.93 inch	es was meas	0 sured at Co	0 CoRaHS stati	0.00K ion Greenbrie	0.00K r 1.4 N.	Heavy Rain
Robertson County 2 WSW Springfield	02 A 72 hou	0600CST nr rainfall total o	of 8.98 inche	s was measu	0 ured at CoC	0 CoRaHS static	0.00K on Springfield	0.00K 1.8 WSW.	Heavy Rain
Robertson County 3 N Cedar Hill	02 A 72 hou	0700CST or rainfall total o	of 10.67 inch	es was meas	0 sured at Co	0 CoRaHS stati	0.00K ion Cedar Hill	0.00K 2.6 N.	Heavy Rain
Robertson County 4 SSW Coopertown	02 A 72 hou	0700CST ur rainfall total o	of 9.18 inche	s was measu	0 ared at CoC	0 CoRaHS static	0.00K on Pleasant Vi	0.00K ew 2.8 ESI	Heavy Rain E.
Davidson County 1 NNW Goodlettsville	02 A 72 hou	0800CST ur rainfall total o	of 7.87 inche	s was measu	0 ared at CoO	0 CoRaHS static	0.00K on Goodlettsvi	0.00K lle 1.5 W.	Heavy Rain
Cheatham County 1 S Shacklett	02 A 72 hou	1500CST ur rainfall total o	of 6.83 inche	s was measu	0 ared by the	0 KINT1 River	0.00K Gauge (Harp	0.00K eth River r	Heavy Rain near Kingston Springs).
Montgomery County 1 WNW Walnut Grove	02 A 72 hou	1530CST ur rainfall total o	of 9.86 inche	s was measu	0 ared by the	0 PORT1 Rive	0.00K r Gauge (Red	0.00K River near	Heavy Rain Port Royal).

One week after Hurricane Harvey made landfall along the middle Texas coast, a weakened but still intense Tropical Depression Harvey moved across Middle Tennessee from Thursday August 31, 2017 into Friday September 1, 2017. Supercells rotating around Harvey spawned four weak tornadoes in Davidson, Maury, and Perry Counties. In addition, strong northeast winds up to 50 mph associated with the circulation of Harvey brought down numerous trees and power lines in areas along and west of I-65, knocking out power to thousands of residents. Finally, the heavy rainbands of Harvey produced 8-11 of rain in some areas, leading to major flash flooding of homes and roads. The flash flooding along with the strong winds continued from the late evening hours on August 31 into the morning hours on September 1.

		Time Local/	Path Length	Path Width	Nur Pers	nber of	Estim Dama		September 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TENNESSEE, Central									
Davidson County 1 NE Oak Hill	19 Nickel s	1414CST size hail reported	l at the Greer	n Hills Libra	0 ry.	0	0.00K	0.00K	Hail (0.88)
Davidson County 2 WNW Oglesby	19 A two fe	1420CST oot diameter tree	e was blown	down in the	0 Crieve Hal	0 Il area of Nas	1.00K hville.	0.00K	Thunderstorm Wind (52EG)
	Note: T	The estimated wi	nd gust of 52	2 knots is equ	uivalent to	60 mph.			
Davidson County 2 WNW Oglesby		1420CST on County Emer lle, with some to				0 0 trees were	25.00K blown down	0.00K in the Crie	Thunderstorm Wind (56EG) eve Hall and Oak Hill areas of
	Note: T	The estimated wi	nd gust of 56	6 knots is equ	uivalent to	64 mph.			
Williamson County 6 N Mallorys	Brentw	1424CST section of the ood collapsed of the estimated with the collapsed of the collapsed of the estimated with the collapsed of the col	due to high	winds. No i	njuries.	-	15.00K ool on Powe	0.00K ll Place in	Thunderstorm Wind (56EG) the Maryland Farms area of
Williamson County 6 N Mallorys	19	1425CST		•	0	0	3.00K	0.00K	Thunderstorm Wind (52EG)
	Several	2-3 foot diamete	er trees were	blown dowr	at the inte	ersection of N	laryland Way	and Contii	nental Place in Brentwood.
	Note: T	The estimated wi	nd gust of 52	2 knots is equ	uivalent to	60 mph.			
Davidson County 2 WNW Oglesby	19 Pea to n	1429CST nickel size hail fe	ell at the inter	rsection of R	0 ochelle Dr	0 ive and Oakl	0.00K ey Drive.	0.00K	Hail (0.88)
	19. One		severe in the	Nashville m					d evening hours on September nd hail received from southern
Coffee County Manchester	21 Numero	1425CST ous reports of ha	il up to quart	er size and s	0 trong wind	0 s were receiv	0.00K red from in an	0.00K d around N	Hail (1.00) Janchester.
	Scattere	•	thunderstorn	ns developed	i across M	iddle Tennes	see during th		n hours on September 21. One
TENNESSEE, East									
Hamilton County									
1 N Chickamauga	05	1530EST tree fell on a hou	usa an Iarniau	on Avonuo	0	0			Thunderstorm Wind (50EG)
	An isola shear w	ated, lone thund	erstorm prod r storm stren	luced just er igthening ah	ead of a co	old front buil			ak instability and modest wind ern Appalachian region. Note:
TNZ074-099	Hamil	ton - Sevier/S	moky Mou	ntains					
	11	1700EST 2300EST			0	0			High Wind
		akening tropical ing a period of s							the Western part of Tennessee of the low.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		mber of sons Injured	Estim Dama Property		September 2017 Character of Storm
Location	Date	Standard	(Miles)	(Tarus)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, Central									
Taylor County 1 W (DYS)Dyess Afb Abile	02 Note: T	1843CST The measured w	ind gust of 55	5 knots is eq	0 uivalent to	0 63 mph.	0.00K	0.00K	Thunderstorm Wind (55MG)
Taylor County Tye		1844CST ice Department own down by d							Thunderstorm Wind (52EG) uple of small 4 by 8 foot signs
	Note: T	he estimated w	ind gust of 52	2 knots is equ	uivalent to	60 mph.			
Taylor County Abilene	Drive ar	nd Clack Street	•						Thunderstorm Wind (52EG) the intersection of Southwest stimated wind gust of 52 knots
		alent to 60 mph				C	,		C
Mason County 2 SSW Mason	19 Law enf	1510CST Forcement offici	als reported a	a barn roof w	0 vas blown o	0 off and trees	0.00K were snapped	0.00K in Mason.	Thunderstorm Wind (70EG)
	Note: T	he estimated w	ind gust of 70) knots is equ	uivalent to	81 mph.			
Irion County 10 NNE Sherwood		1718CST d spotter report he estimated w		_	0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
Shackelford County Albany	20 Law enf	1730CST	cials reported	I damaging	0 thundersto	0 orm winds bl		0.00K s down and	Thunderstorm Wind (61EG) I caused some roof damage in
	Note: T	he estimated w	ind gust of 61	knots is equ	uivalent to	70 mph.			
Irion County 2 NNW Sherwood	20 The Wes	1807CST st Texas Meson	et near Mertz	on measure	0 l a 64 knot	0 t wind gust.	0.00K	0.00K	Thunderstorm Wind (64MG)
	Note: T	he measured w	ind gust of 64	knots is equ	uivalent to	74 mph.			
Taylor County Lawn	20 A traine	1851CST d spotter estima	ated 60 mph v	vinds associa	0 ated with a	0 microburst t	0.00K hunderstorm	0.00K near Lawn.	Thunderstorm Wind (52EG)
	Septemb to cause and subs	per 19. The san an increase of	ne airmass rei thunderstorn amage acros	mained throun coverage of West Cent	igh Septen n the 20th. ral Texas.	nber 20. A w A few of th One of the	eak upper lev ese thunderst	el disturbar orms resulte	g thunderstorm microburst on nce interacted with this airmass ed in thunderstorm microbursts rotate near Lawn. Note: The
TEXAS, Central Southeast									
Harris County Westfield	11	1300CST 1330CST			0	0	0.00K	0.00K	Funnel Cloud
	clouds r	vere reports of near Richey Ro clouds were spo	ad and FM	1960.			continental A	irport. The	re were also reports of funnel
Harris County 1 NE Houston 1 SE Bellaire Jct	18	1830CST 1930CST			0	0	0.00K	0.00K	Flash Flood
		vere reports of l y 288 intersect						cluding the	e Loop 610 I-45 and Loop 610

Path Number of September 2017 Time Path Estimated Local/ Standard Length (Miles) Width (Yards) Persons Damage Property Date Injured Character of Storm Location

TEXAS, Central Southeast

Slow moving thunderstorms produced localized flash flooding in the Houston area.

Harris County

3 SSW Olcott 20 1329CST 1 0 0.00K 0.00K Lightning
A lightning strike killed a golfer while practicing at putting green at the Timber Creek Golf Course. M?GF

There was a lightning fatality on a golf course. M?GF

Brazoria County

 Pearland
 21
 1129CST
 0
 0
 2.00K
 0.00K
 Lightning

A car was damaged by lightning at the intersection of North Grand Blvd and Broadway in Pearland.

On the 21st of September, a thunderstorm produced a lightning strike in Pearland.

Harris County

2 S Deer Park 21 1220CST **1 W La Porte** 1415CST 0 0 5.00K

Flooding was reported between Spencer Highway and Fairmont Parkway in Pasadena. Flood waters entered a local junior college's gymnasium.

0.00K

Flash Flood

A lone slow-moving thunderstorm caused very isolated flooding within Pasadena's city limits.

TEXAS, Extreme West

Hudspeth County

Dell City 23 1620MST 0 0 10.00K 0.00K Thunderstorm Wind (52EG)

The Sheriff reported downed power lines in Dell City.

A deep early fall trough was moving into the Four Corners region with a dryline setup through Hudspeth County. These features combined to produce some strong to severe thunderstorms over eastern Hudspeth County in the late afternoon. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

Hudspeth County Acala

26 1510MST 0 0 20.00K 0.00K Thunderstorm Wind (61EG)

A couple of mobile homes were destroyed by a microburst with winds estimated at 70+ mph.

A deep trough was located across the western United States with strong south-southwest flow over far west Texas. Southeast surface winds kept dew points near 60 in Hudspeth County with tail end of a 100+ knot jet over the area provided sufficient shear and instability for severe thunderstorms to develop. Note: The estimated wind gust of 61 knots is equivalent to 70 mph.



A picture of a couple of mobile homes that were destroyed by microburst winds in Acala, Texas on September 26th, 2017. Photo of Guadalupe Kelly.

		Time Local/	Path Length	Path Width	Nun Pers	nber of sons	Estim Dama		September 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, Extreme West									
El Paso County 1 SSW Vinton 2 ENE Canutillo	28	0319MST 0600MST			0	0	20.00K	0.00K	Flash Flood
									ater entered several businesses of Doniphan and Redd Road.
	in good l western I	ow level moist	ure to the reg and trained o	gion as dew	points wer	re into the lo	wer 60s. Thu	inderstorms	ls were out of the east bringing s developed around 2AM over 2 to over 4 inches in just a few
TEXAS, Mid-South									
Calhoun County 3 NNW Tivoli Gulf Cst Arpt	01 04	0000CST 0600CST			0	0	0.00K	0.00K	Flood
									Fivoli through September 4th. vay 35 was closed near Tivoli.
Victoria County 3 ESE Mission Vly 5 NE McFaddin	01 03	0000CST 1800CST			0	0	0.00K	0.00K	Flood
	flooded i								r 3rd. At least 100 homes were Mission Valley, and Old River
		ver flooding co he flooding wa						lalupe Rive	er from Victoria southward to
Live Oak County 6 SE Lagarteo	25	1310CST 1311CST	0.1	15	0	0	0.00K	0.00K	Tornado (EF0)
	Live Oak	County Sherif	f's Office rep	orted a wate	erspout ove	r Lake Corpu	ıs Christi near	Pernitas P	oint.
	A waters	pout occurred o	over Lake Co	rpus Christi	near Fiesta	a Mariner at I	Pernitas Point.		
Webb County									
2 W Laredo 3 WSW Laredo Afb	26	2200CST 2300CST			0	0	100.00K		Flash Flood
	Several v town but	vater rescues of a few were on	f individuals the northwes	trying to dri t side and in	ve through the center	low water co	rossings arour ooding occurre	d Laredo. I ed near Lar	Most were on the south side of edo Community College.
Webb County 5 SSE Laredo Link Arpt	26	2228CST 2328CST			0	0	250.00K	0.00K	Flash Flood
	Several r	oads were floor	ded in the cor	nmunity of	Rio Bravo.	Some house	s were floode	d.	
Webb County 6 W Pescadito 5 SSE Lake Casa Blanca	26	2230CST 2330CST			0	0	0.00K	0.00K	Flash Flood
	Highway	359 was flood	ed near Los A	Altos and Sa	n Carlos su	ıbdivisions e	ast of Laredo.		
La Salle County 4 ENE Gardendale	27	0800CST 0900CST			0	0	100.00K	0.00K	Flash Flood

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		mber of sons Injured	Estim Dama Property		September 201 Character of Storm			
TEXAS, Mid-South			. ,	· , ,		J	1 3					
		Department of T help push cars					lillet was clos	sed due to	flooding. Bulldozers are being			
Webb County 2 SSE Laredo Afb	27	1840CST 1910CST			0	0	0.00K	0.00K	Flash Flood			
	Water was over the road in several places on Highway 359 in Laredo.											
	the Gulf showers	f of Mexico con and thunderst	mbined with orms moved	a tap of mo across the	isture fron Brush Cou	n the Pacific untry. Flash t	Ocean moving occur	ng across N irred in La	of deep tropical moisture from Mexico. Scattered to numerous uredo with several roads being een 5 and 10 inches of rainfall.			
La Salle County 13 WNW Tuna 10 WSW Woodward	28 30	1200CST 2359CST			0	0	0.00K	0.00K	Flood			
		Market Road 3 curred on Dobie					ntage road nea	ar mile mar	rker 67 were flooded. Flooding			
	rain fell		iod with som	ne areas ove	r northern	Webb Count	ty into easteri	n Dimmit (th. Generally, 5 to 10 inches of County received from 15 to 20 c County.			
TEXAS, North												
Montague County 5 N Nocona	17 Fire and	1426CST Rescue reporte	d hail rangin	g from 0.75	0 to 1.5 inch	0 nes in diamete	0.00K er.	0.00K	Hail (1.50)			
		nary front drap s of North Texa		orthwest Tex	as served	as a focus fo	r isolated thu	nderstorms	s across the northwestern-most			
Jack County 3 SW Postoak	19 A public	1815CST c report indicate	d that power	poles were l	0 knocked do	0 own approxin	2.00K nately 3 miles	0.00K southwest	Thunderstorm Wind (52EG) of the city of Post Oak, TX.			
	Note: T	he estimated wi	ind gust of 52	2 knots is eq	uivalent to	60 mph.						
Jack County Postoak	19 The loca	1815CST al fire departme	nt reported w	ind gusts of	0 60 MPH i	0 n the city of I	0.00K Post Oak, TX.	0.00K	Thunderstorm Wind (52EG)			
	Note: T	he estimated wi	ind gust of 52	2 knots is eq	uivalent to	60 mph.						
Jack County 1 ENE Marvetta	19 Emergei	1823CST ncy managemen	nt measured a	wind gust o	0 of 59 MPH	0 near the inter	0.00K rsection of Hi	0.00K ghway 59 a	Thunderstorm Wind (51MG) and FM 1810.			
		er of thundersto hours. Note:							fore weakening during the late			
TEXAS, North Panhandle												
Carson County 4 WNW Groom	16 Three in	1610CST ach diamter tree	limbs knocke	ed down from	0 m healthy t	0 tree.	0.00K	0.00K	Thunderstorm Wind (52EG)			
	converg	ing along the bo	oundary with	CAPE arou	nd 1000 J/	Kg, storm de	veloped and i	moved NE	Panhandle. With 850-700 hPa across the boundary bringing a s equivalent to 60 mph.			

complex of storms with a severe wind gust report. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

		Time	Path	Path	Nun	nber of	Estima	ated	September 2017
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

TEXAS, North Panhandle

Oldham County 3 WNW Adrian

17 1628CST 0 0 Hail (1.50)

Hail covering the ground.

A shortwave trough moving east out of New Mexico assisted with great ascent and lift in the upper levels. In a high CAPE, moderate shear environment, discrete supercells formed along a northward moving outflow boundary across the western Panhandles. Large hail up to ping-pong size hail was reported.

TEXAS, Northeast

Nacogdoches County Woden

05 2140CST 0 0 0.00K 0.00K Thunderstorm Wind (56EG) Trees and power lines were blown down in Woden near the Elementary/High School.

An upper level trough of low pressure shifted east from the Ohio Valley southwest across the Midwest and Central/Southern Plains during the late morning hours of September 5th. The accompanying cold front moved into Southwest Arkansas and extreme Northeast Texas during the mid and late afternoon, before moving into North Louisiana and Deep East Texas during the evening. Moderate instability developed along and ahead of the front, with increasing frontal convergence yielding scattered to numerous showers and thunderstorms during the late afternoon and evening across Southwest Arkansas, North Louisiana, and portions of Deep East Texas, where large scale forcing was strongest ahead of the trough. An isolated severe thunderstorm developed over Nacogdoches County, resulting in downed trees and power lines in the Woden community. These storms began to diminish by late evening over Deep East Texas as cooler and drier air began to spill south in wake of the frontal passage. Note: The estimated wind gust of 56 knots is equivalent to 64 mph.

TEXAS, South

Starr County 1 NNW Villareales

21 1805CST 1815CST 0 0 Hail (2.50)

Tennis ball sized hail was reported in the Los Villareales section of Rio Grande City, and Golfball sized hail at two nearby locations, by the public and local Sheriff's Office, between Midway Road and Hospital Drive, and along US 83 and FM 3167, all just a few miles east of Los Villareales in the west portion of Rio Grande City between 705 and 715 PM CDT.

A weak upper level disturbance provided a pocket of cold air high in the atmosphere and aided the afternoon sea breeze, producing a single severe thunderstorm along the Rio Grande in Starr County that produced large hail. Damage was unknown at the time.

Zapata County 1 N San Ygnacio

28 0300CST 0 0 20.00K 0.00K Flood

Zapata County EM and US Customs and Border Protection reported high water out of the normal banks but within the berm area in and around San Ygnacio mainly on September 28th as a flood wave pushed south from Laredo toward Falcon International Reservoir. The high waters damaged U.S. Border Patrol equipment, including at least one generator, two light poles and one or two submerged vehicles. However, higher ground in San Ygnacio proper and above the river area was not impacted. Visual evidence showed the high water surrounding the equipment during the morning through afternoon hours, though high waters likely continued through the 29th.

An atmospheric river of deep tropical moisture (below) that flowed from the eastern tropical Pacific Ocean through Mexico, combined with the remnants of Tropical Storm Pilar to enhance rainfall along the Rio Grande from northern Zapata County through Webb County from late on September 25th and again on September 26th.

Additional heavy rains fell over the Rio Grande Basin in northern Nuevo Leon and extreme eastern Coahuila State (Mexico) on the 27th. A fairly widespread zone of 10 to 15 inches of rain fell along the Rio Grande in Webb County through the period, with a pocket of 8 to 10 inches along the Rio Salado west and northwest of Falcon International Reservoir during the late evening/overnight of September 25 and 26. The efficient, tropically-infused rainfall quickly flowed into the Rio Grande in Webb County, and would lead to very rapid rises and a flood wave along the river, with high-end moderate flooding near and in Laredo.

Downstream of Laredo, the river flooding continued in a small stretch of Zapata County, where water levels were comparable but a little less than those last seen during the Alex-remnant floods of July 2010 near San Ygnacio. The flood wave emptied into Falcon International Reservoir, along with a second flood wave from the Rio Salado in northern Mexico; each flood combined doubled the amount of acre-feet held by the reservoir, raised reservoir levels from 27 to more than 50 percent of capacity, Texas-share, by the end of September.

		Time	Path	Path	Nun	nber of	Estin		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	age Crops	Character of Storm
TEXAS, South Central									
Kinney County 5 SW Spofford	05 A thund	1723CST lerstorm produce	d a wind gus	et measured	0 at 54 kts. by	0 y the AWOS	0.00K at the Laugh	0.00K lin AFB Au	Thunderstorm Wind (54MG) exiliary Field outside Spofford.
	Thunde		ed in the war	rm, moist ai	rmass ahea	nd of a cold f			ns produced severe wind gusts.
Dimmit County	14010. 1	ne measured wn	id gust of 5-	r Kilots is eq	jurvaient to	02 mpn.			
3 S Valley Wells 3 ESE Asherton	26	0700CST 0800CST			0	0	0.00K	0.00K	Flash Flood
		rstorms produced many ranch road			flash floodi	ing requiring	several peop	le to be res	cued from an oil field site and
Frio County									
9 SW Divot	27	1014CST 1415CST			0	0	0.00K	0.00K	Flood
	Thunde	rstorms produced	l heavy rain	that led to fl					/ells.
7. 6									
Frio County 1 SSW Divot	27	1101CST 1415CST			0	0	0.00K	0.00K	Flood
	Thunde	rstorms produced	l heavy rain	that led to fl	looding clos	sing FM 117	northwest of	Divot.	
Dimmit County									
4 W Catarina	27	1105CST 1415CST			0	0	0.00K	0.00K	Flood
	Thunde	rstorms produced	l heavy rain	that led to fl	looding clos	sing FM 268	8 in both dire	ctions west	of Catarina.
Maverick County									
4 WSW Chittim Lease	27	1109CST							
12 E Darling		1415CST			0	0	0.00K	0.00K	Flood
	Thunde	rstorms produced	l heavy rain	that led to fl	looding clos	sing FM 481	from SH 57 t	oward Uva	lde.
Uvalde County									
5 W Laguna	27	1215CST							
		1400CST			0	0	0.00K	0.00K	Flash Flood
		rstorms produced River northwest		that led to fl	lash floodin	ng closing FM	1 334 about a	mile east o	of Live Oak Rd. along the West
Zavala County									
3 SSE Batesville	27	1340CST 1645CST			0	0	0.00K	0.00K	Flash Flood
	Thunde	rstorms produced	l heavy rain	that led to fl	ash floodin	g closing CR	2 1866 at the 1	Leona Rive	r southeast of Batesville.
.									
Zavala County 5 WNW Batesville	27	1513CST							
8 ESE A B Jct	2.	1645CST			0	0	0.00K	0.00K	Flash Flood
		rstorms produce FM 140.	d heavy rain	that led to	flash flood	ing closing s	several roads	in northern	Zavala County including FM
	The ren layer. P	nants of Pacific	values were	around 2.5	inches whe	en a series of	upper level s		to an already moist boundary roughs initiated thunderstorms.

Some of these storms produced heavy rainfall that led to flash flooding.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Perso Killed	ber of ons Injured	Estima Damag Property		September 2017 Character of Storm
TEXAS, South Panhandle Cochran County 15 S Whiteface		1605CST by a Texas Tec				0	0.00K	0.00K	Thunderstorm Wind (52MG)
	Note: The	e measured wind	d gust of 52	knots is equ	ivalent to 6	60 mph.			
Motley County									
1 S Northfield	16 Measured	1745CST by a Texas Tech	h University	West Texa	0 s mesonet.	0	0.00K	0.00K	Thunderstorm Wind (63MG)
	High-base Texas Par	d thunderstorms	s developed of these stor	early this at	ternoon ac				heast through the far southeast The measured wind gust of 63
Bailey County									
4 NNE Enochs	17	1525CST							
2 E Bula		1535CST			0	0	300.00K	1.00M	Hail (2.75)

Broadcast media relayed damage photos of a significant hailstorm that struck the community of Bula. Wind-driven hail as large as baseballs pummeled crops and caused extensive damage to siding, windows and roofs to dozens of buildings in the area.



A picture of damage from wind-driven hail as large as baseballs that pummeled homes and destroyed crops in Bula, Texas on the afternoon of September 17th, 2017. Photo courtesy of Tim and Chase Cannon.

0.00K

0.00K

Hail (0.88)

•						` '	
bbock County EENE Shallowater	17	1640CST 1645CST	0	0	40.00K	Thunderstorm Wind (65EG)	
		arst winds around 75 mph downage was also reported to a six				toad 2528 east of Shallowater. Some	
	Note: Th	he estimated wind gust of 65 k	nots is equivalent to 75 r	nph.			
le County							
Petersburg		mobile home, causing modera			onvenience store i	0.00K Thunderstorm Wind (70EG) n Petersburg. The roof landed on an ffered water damage from the ensuing	
	Note: Th	he estimated wind gust of 70 k	nots is equivalent to 81 r	nph.			
osby County S NW Estacado SE Wake	17	1735CST 1755CST	0	0	1.50M 0	0.50M Thunderstorm Wind (87EG)	
etersburg osby County 3 NW Estacado	17 Downbu adjacent heavy rai Note: Th	1730CST urst winds around 80 mph loft mobile home, causing modera infall. he estimated wind gust of 70 k	0 ed the roof from the Al' ate damage to the resider nots is equivalent to 81 r	0 Isup's conce. Mu	onvenience store is ach of the store suf	n Petersburg. The roof landed on an ffered water damage from the ensuing	

Hockley County 1 NE Smyer

17

1616CST

Path September 2017 Time Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons (Yards) Property Date Injured Character of Storm Location

TEXAS, South Panhandle

A large and particularly destructive macroburst (downburst winds more than 2.5 miles in width) tracked east across most of northern Crosby County this evening, accompanied by winds ranging from 80 to 100 mph at times. Data from radar and damage patterns during a NWS storm survey indicated these intense winds were about five miles in width, and traveled for a distance of almost 30 miles. The community of Cone was struck especially hard by these winds. An older, single family home had a west-facing wall partially collapse, and the roof to a grain store was blown off and deposited on US Highway 62 forcing a temporary closure of the road. Additional damage in Cone consisted of several downed power lines, about ten snapped utility poles, a few downed trees, light to moderate building damage, and one metal shed that was destroyed and had its contents of antique tractors and vehicles damaged. The NWS damage survey also noted several dozen more damaged power lines throughout northern Crosby County, along with multiple center pivot irrigation systems overturned. Cotton, corn, and sorghum crops sustained light to moderate damage, however some crops used as silage were completely flattened by the intense winds. Combined losses in Crosby County alone are estimated to be nearly \$2 million USD.

Note: The estimated wind gust of 87 knots is equivalent to 100 mph.



A picture of a large shed that lost its roof during intense straight line winds of 80 to 100 mph that struck the community of Cone, Texas on September 17th, 2017. Photo courtesy of NWS Lubbock Storm Survey.

Crosby County Ralls

17 1755CST 0 0 0.00K Thunderstorm Wind (64MG) Measured by a Texas Tech University West Texas mesonet southeast of Ralls.

Note: The measured wind gust of 64 knots is equivalent to 74 mph.

Dickens County 2 W McAdoo

 $17 \qquad 1821 CST \qquad 0 \qquad 0 \qquad 5.00 K \qquad 0.00 K \qquad Thunderstorm \ Wind \ (70EG)$ The Floyd County Emergency Manager relayed a report from a fire department member in McAdoo who lost a corner of their home's roof during intense straight line winds.

Note: The estimated wind gust of 70 knots is equivalent to 81 mph.

Floyd County 1 N Floydada

 $17 \hspace{1.5cm} 2020 CST \hspace{1.5cm} 0 \hspace{1.5cm} 0.00 K \hspace{1.5cm} 0.00 K \hspace{1.5cm} Thunderstorm \hspace{1.5cm} Wind \hspace{1.5cm} (56 MG)$

Measured by a Texas Tech University West Texas mesonet.

Scattered severe thunderstorms erupted this afternoon and tracked eastward across the South Plains and into the Rolling Plains. A few of these storms acquired deep rotation as they interacted with a stationary front draped west-to-east over the region, and resulted in swaths of destructive hail and significant straight line winds at times. One particularly intense supercell storm produced a large swath of downburst winds of 70 to 100 mph over portions of Lubbock, Hale, Crosby, and Dickens Counties. Note: The measured wind gust of 56 knots is equivalent to 64 mph.

Cottle County
1 S Paducah

18 2115CST 2120CST 0 0 Hail (1.75)

Hail up to golf ball size fell in Paducah for about five minutes. Damage information was not available.

Isolated thunderstorms tracked northeast across the Rolling Plains late this evening. One storm intensified to severe levels in Cottle County where it produced hail up to golf ball size in Paducah.

Path Number of September 2017 Time Path Estimated Local/ Standard Length (Miles) Width Persons Damage (Yards) Date Injured Property Crops Character of Storm Location

TEXAS, South Panhandle



A picture of golf ball-sized hail in Paducah, Texas during the night of September 18th, 2017. Photo by Robyn Truelock.

Parmer County 6 WNW Bovina 5 NW Black

22 1650CST 1810CST 0 0 2.00M Hail (1.75)

More than a dozen farmers in Parmer County suffered varying degrees of damage to corn and cotton crops following a slow-moving hailstorm. About 20,000 acres were damaged in total, with about 3,500 acres reported as a complete loss. The hail was estimated to be as large as golf ball size.

A thunderstorm late this afternoon intensified west of Bovina (Parmer County) and produced large hail along a swath roughly 20 miles in length. The slow movement of this storm and frequent backbuilding of its hail core inflicted heavy tolls on otherwise promising corn and cotton crops.

TEXAS, Southeast

Jefferson County
2 N Pine Crest

01 0000CST 07 2359CST 0 0 0.00K 0.00K Flood

Record or near record crests along the Lower Neches River occurred during Tropical Storm Harvey. Areas along the river stayed flooded during much of the first week of September as the Neches remained above major flood stage. This affected some refineries near the river and also some parks, roadways, and residences. The crest finally moved through Sabine Lake during the 3rd.

Orange County
3 SSE Bridge City
1 E Brownwood

01 0000CST 07 2359CST 0 0 0.00K 0.00K Flood

Heavy rain from Tropical Storm Harvey caused record or near record flooding along the lower Sabine and Neches Rivers. While the crests of the rivers was during the last couple days of August to the first days of September the rivers remained in major flood stage through the first week. Some roadways and residences remained flooded near the rivers through the first week of the month.

Tropical Storm Harvey moved through the region during the last half of August causing record flooding. Flood water along the Sabine and Neches Rivers slowly receded during the first week of September.

	Time Path	Path Number of Width Persons			Estimated Damage		September 2017		
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	rsons Injured	Dama Property	rge Crops	Character of Storm
TEXAS, West									
Borden County									
2 ESE Gail	18	1910CST	D 1	C .	0	0	. 1		Thunderstorm Wind (57MG)
	A thund	erstorm moved	across Borde	n County an	ia produce	a a 66 mpn w	ind gust at the	e mesonet s	site near Gail.
	Note: T	he measured wi	nd gust of 57	knots is eq	uivalent to	66 mph.			
Howard County									
5 N Big Spring	18	1950CST							
		1955CST			0	0			Hail (1.75)
Howard County									
1 E Big Spring	18	1950CST							
		1955CST			0	0			Hail (1.00)
Howard County 5 N Big Spring	18	1950CST			0	0			Thunderstorm Wind (52EG)
5 N big Spring			across Howa	rd County a			vind gust five	miles nort	h of Big Spring.
				-	_		· ·		
	Note: T	he estimated wi	nd gust of 52	2 knots is eq	uivalent to	60 mph.			
Howard County									
3 NE Fairview	18	2000CST 2015CST			0	0			Hail (1.25)
		2013C31			U	U			Hall (1.23)
									e above normal which allowed
	for more	e instability. In	ese condition	ns allowed i	or storms	with large na	ii and strong	winds to d	evelop across West Texas.
Culberson County									
34 E Pine Spgs	23	1815CST							
		1820CST			0	0			Hail (2.50)
Reeves County									
Orla	23	2023CST			0	0			Thunderstorm Wind (52EG)
	A thund	erstorm moved	across Reeve	es County an	d produce	d a 60 mph w	ind gust and p	ea sized h	
	An unne	er trough was ov	ver Nevada a	nd Idaho an	d was mor	ving eastward	This trough	provided 1	lift, and there was a plethora of
	moisture	e across the are	a. These con	ditions resu					ng winds. Note: The estimated
	wind gu	st of 52 knots i	s equivalent	to 60 mph.					
Andrews County	25	1.650.CCT							
8 S Andrews	25	1650CST 1655CST			0	0			Hail (0.75)
		1033651			Ü	Ü			11411 (0.73)
Andrews County									
8 S Andrews	25	1650CST							
		1651CST			0	0	6.00K		Thunderstorm Wind (61EG)
								iles south	of the City of Andrews. A few
	telephor	ne poles were bl	lown down.	The cost of	damage is	a very rough	estimate.		
	Note: T	he estimated wi	nd gust of 61	knots is ea	uivalent to	70 mph.			
Midland County	110101 1	no estimated wi	na gast of of	inioto io eq		, op			
3 SW Midland	25	1939CST							
		2200CST			0	0	1.00K	0.00K	Flash Flood
	Heavy r	ain fell across N	Aidland Cour	nty and prod	luced flash	flooding in t	he City of Mi	dland The	ere was a vehicle stalled in high
		the intersection							
Midland County									
3 WNW Midland	25	1949CST			0	0	1.0077	0.0077	Elada Elad
		2200CST			0	0	1.00K	0.00K	Flash Flood
									ere was a vehicle stalled in high
	water at	the intersection	or wadiey A	Avenue and	wiiakiii K	oad. The cost	or damage is	a very rot	ign estimate.

		Time Local/	Path Length	Path Width	Numb Perso	ber of ons	Estir Dam	nated lage	September 201	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
TEXAS, West										
	An upp	er level trough v	vas over sou	theast Mon	tana, and a	cold front	was in the Te	exas Panhar	ndle moving south towards the	
		ood low-level m in thunderstorr						ere across	West Texas. These conditions	
Martin County										
5 SW Ackerly 5 SE Flower Grove	26	1309CST 1530CST			0	0	0.20K	0.00K	Flash Flood	
		rain fell across M sed due to high						FM 2212 a	and FM 3263 in Martin County	
Midland County										
1 SE Warfield	26	1319CST 1530CST			0	0	2.00K	0.00K	Flash Flood	
		ain fell across M road of Interstate							in high water on the westbound nate.	
Midland County										
4 WSW Midland	26	1340CST			0	0	0.0017	0.0017		
4 ENE (MAF) Midland Intl		1500CST			0	0	0.00K	0.00K	Flash Flood	
		ain fell in Midla Loop 250 betw					City of Midl	and. There	was water covering the access	
Ector County										
1 N Odessa	26	1415CST 1630CST			0	0	2.00K	0.00K	Flash Flood	
		rain fell across I at Muskingum a							Rescue reported a high water e.	
16 J										
Midland County 2 NE (MAF) Midland Intl	26	1450CST								
		1700CST			0	0	1.00K	0.00K	Flash Flood	
		rain fell across N City of Midlan						s in high wa	ater at Airline and Highway 80	
Midland County										
3 SW Midland	26	1450CST 1700CST			0	0	1.00K	0.00K	Flash Flood	
		ain fell across Me and Midland						Midland. A	A vehicle was in high water at	
									noist air was interacting with a	
	placeme	ent of the area u	nder an uppe	r jet stream	. The position	oning of th	e front and tl	ne upper jet	t allowed for storms and heavy across the Permian Basin.	
TEXAS, Western North										
Clay County Henrietta	16	1734CST			0	0	0.00K	0.00K	Hail (0.88)	
Clay County						_		A 40	** ** 4 0 -	
Henrietta	16 An isola	1736CST ated storm moved	d up from cer	ntral Texas	0 into Clay co	0 unty where	0.00K it produced s	0.00K evere hail o	Hail (1.25) on the evening of the 16th.	

		Time	Path	Path		nber of	Estim		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	ge Crops	Character of Storm
TEXAS, Western North									
Wichita County 7 S Pleasant Valley	19 Three to	1520CST four inch diame	ter tree limb	s were snap	0 ped by the s	0 strong winds.			Thunderstorm Wind (52EG)
	Note: Th	ne estimated win	nd gust of 52	knots is equ	uivalent to 6	60 mph.			
Wichita County 2 NW Cashion	19 Downed/	1545CST snapped power	poles were r	eported by t	0 he emergen	0 ncy manager.	4.00K	0.00K	Thunderstorm Wind (56EG)
	Note: Th	ne estimated win	nd gust of 56	knots is equ	uivalent to 6	64 mph.			
Wichita County 4 SW Wichita Falls	19	1615CST			0	0	0.00K	0.00K	Hail (0.88)
Archer County 2 SSE Lakeside City	•	1615CST ver poles were do ne estimated win			-	0 54 mph.	8.00K	0.00K	Thunderstorm Wind (56EG)
Archer County									
2 SSE Lakeside City	19 The fire o	1700CST department estin	nated wind s	speeds near	0 60 mph.	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	Fairly str during th	ong warm air ac	dvection and	l a subtle mi	id level sho				vere thunderstorms developing stimated wind gust of 52 knots
Baylor County	20	1000CGT			0	0	0.0017	0.0017	TI 1 (W' 1(52EC)
1 N Seymour	A line of	1900CST orcement estimate storms formed I wind gust of 5	along a from	nt in southe		0 na and weste	0.00K rn north Texa	0.00K as on the e	Thunderstorm Wind (52EG) wening of the 20th. Note: The
UTAH, East									
Grand County 7 NW Castle Valley	14	1300MST 1400MST			0	0	0.00K	0.00K	Flash Flood
		out of heavy rai			t Wash near	r the Delicate	e Arch parkin	g lot in Ar	ches National Park ran at least
	A progre Corners	ssive upper lever region and resul rainfall produce	el disturband Ited in nume	ce, paired werous showe	ers and thun	derstorms. V	Vhile these st	orms move	d flow, trekked across the Four ed quickly they were still very e thunderstorms trained behind
Grand County									
4 NNW Westwater Arpt	14	1445MST 1500MST			0	0	0.00K	0.00K	Thunderstorm Wind (63MG)
	A peak tl	nunderstorm win	nd gust of 72	mph was n	neasured by	the Bryson C	Canyon RAW	S automate	ed weather station.
									ted thunderstorm development ust of 63 knots is equivalent to
Grand County	•								
2 SSE Moab	14	1600MST 1700MST			0	0	30.00K	0.00K	Flash Flood
	valley an the flash Holyoak	d across Highwa flooding after Lane and a cou	ay 191 into it was over ple of busin	a southern s topped. Pov esses incurr	ection of Mover House ed some flo	Ioab. A flood Dam Road wood damage.	l control dam vas closed du The flash flo	in one of to to flood oding depo	nages from the east side of the the drainages was destroyed by damage and some houses on osited a large amount of debris n about a half hour.

A progressive upper level disturbance, paired with the support from a maximum jetstream wind flow, trekked across the Four Corners region and resulted in numerous showers and thunderstorms. While these storms moved quickly they were still very efficient rainfall producers which led to localized heavy runoff and at least two flash floods where thunderstorms trained behind one another.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Person Killed		Estim Dama Property		September 2017 Character of Storm		
UTAH, East											
UTZ023	Easteri	ı Uinta Mour	ntains								
	24	0400MST 2200MST			0	0	0.00K	0.00K	Avalanche		
	A moist	upper low move	ed over easte	ern Utah and	resulted signi	ificant sno	wfall over the	eastern Ui	inta Mountains.		
UTAH, West and Central											
UTZ002	Northe	rn Wasatch I	Front/Brigl	ham City/	Ogden Bour	ntiful					
	05 10	0715MST 1120MST			0	0	849.0K	0.00K	Wildfire		
	The Uint	tah Fire began i	n northern U	tah on Septe	ember 5 and w	as contair	ned on Septem	ber 10.			
Tooele County 1 W Barro	14 The I-80	0000MST @ mp 29 senso	or recorded a	peak wind	0 gust of 60 mpl	0 h.	0.00K	0.00K	Thunderstorm Wind (52MG)		
	Note: T	he measured wi	nd gust of 52	2 knots is eq	uivalent to 60	mph.					
Tooele County 1 E Barro	14 The Inte	0005MST rstate 80 sensor	recorded a p	oeak wind gu	0 ust of 60 mph.	0	0.00K	0.00K	Thunderstorm Wind (52MG)		
	Note: The measured wind gust of 52 knots is equivalent to 60 mph.										
Kane County 19 E Glen Canyon	Canyon, carrying	Sand King, Lo	ne Rock, and oard the large	d Gunsight a houseboat i	reas of the pa in Padre Cany	rk. Severa on, the ari	al boats were om of an 80-year	d severe noverturned ar-old wom	Thunderstorm Wind (61EG) nicroburst winds in the Padre, including a 75 foot houseboat nan was severed, and a 57-year-poulder.		
	Note: T	he estimated wi	nd gust of 61	l knots is eq	uivalent to 70	mph.					
Kane County 1 NNW Bullfrog	14 The Bull	1400MST frog Marina au	tomated wea	ther station	0 reported a pea	0 k wind gu	0.00K ast of 73 mph.	0.00K	Thunderstorm Wind (63MG)		
	Note: The measured wind gust of 63 knots is equivalent to 72 mph.										
Garfield County 33 ENE Boulder	14 The Hen	1405MST ry Mountain R <i>a</i>	AWS recorde	ed a peak wi	0 nd gust of 70	0 mph.	0.00K	0.00K	Thunderstorm Wind (61MG)		
	Note: T	he measured wi	nd gust of 61	l knots is eq	uivalent to 70	mph.					
Garfield County 4 SW Escalante 20 NNW Boulder	14	1600MST 1800MST			0	0	0.00K	0.00K	Flash Flood		
	Flash flo	oding was repo	rted across n	nany tributai	ries of the Esc	alante Riv	er.				
Kane County 16 WSW Adairville 17 E Kanab Arpt	14	1600MST 1800MST			0	0	0.00K	0.00K	Flash Flood		
	A large flash flood was reported in Buckskin Wash and some surrounding drainages.										
Washington County 6 WSW Zion National Park 4 NNE Grafton	14	1600MST 1800MST			0	0	0.00K	0.00K	Flash Flood		
	Flash flo	oding was repo	rted in multi	ple slot cany	ons in Zion N	Vational Pa	ark.				

		Time Local/	Path	Path Width	Numl Perso		Estima		September 2017		
Location	Date	Standard	Length (Miles)	(Yards)	Killed	Injured	Dama; Property	Crops	Character of Storm		
UTAH, West and Central											
Wayne County 6 ENE Fremont 4 NNW Torrey	14	1600MST 1800MST			0	0	0.00K	0.00K	Flash Flood		
	Widespread flash flooding was reported across Capitol Reef National Park.										
Kane County 6 SW Adairville	14	1700MST 1900MST			0	0	0.00K	0.00K	Flash Flood		
	A flash flood was reported in Buckskin Wash.										
Salt Lake County 2 NNW Salt Lake City	15	0800MST 1000MST			0	0	15.00K	0.00K	Flood		
	Heavy rain caused flood damage to the Salt Lake City Justice Court and to a nearby Crossfit gym.										
Wayne County 8 S Notom	15	1630MST 1830MST			0	0	0.00K	0.00K	Flash Flood		
	Flash flo	ooding was repor	ted on Pleas	sant Creek in	Capitol Red	ef National l	Park.				
VERMONT, North and Ce	with sor thunder	me strong wind	s. Strong v	vinds over I	Lake Powel	l resulted i	n three injuri	ies to boa	flooding across southern Utah ters. Additional showers and hern Utah and southern Utah.		
Rutland County	iiti ai										
3 ENE Chittenden	05	1643EST 1645EST			0	0	25.00K	0.00K	Thunderstorm Wind (55EG)		
	Numerous trees and utility lines down in Chittenden, extending into Pittsfield.										
	Note: T	he estimated wir	nd gust of 55	5 knots is equ	uivalent to 6	3 mph.					
Rutland County											
1 N Pittsford	05	1648EST 1650EST			0	0	35.00K	0.00K	Thunderstorm Wind (65EG)		
	Michiga	us trees down on road, Route 1 he estimated wir	00 vicinity				south side in	cluding th	ne town of Chittenden and the		
Orange County East Braintree	05	1705EST trees reported do		•	0	0	10.00K	0.00K	Thunderstorm Wind (50EG)		
	Note: T	he estimated wir	nd gust of 50) knots is equ	uivalent to 5	8 mph.					
Orange County 1 S Brookfield	05 Several	1712EST trees down acros	s the Brook	field-Braintr	0 ee area inclu	0 ading North	15.00K Ridge road.	0.00K	Thunderstorm Wind (55EG)		
	A marginal cold front moved into a marginally unstable air mass while a strong mid-level jet stream was aloft. These factors developed a few thunderstorms, some of which produced damaging winds, especially in the Pittsfield vicinity where numerous, trees fell onto utility lines. Note: The estimated wind gust of 55 knots is equivalent to 63 mph.										

		Time	Path	Path	Nui	nber of	Estimate	d	September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per: Killed	sons Injured	Damage Property	Crops	Character of Storm
VERMONT, South									
Windham County 1 W West Brattleboro	05 The publi	1520EST c estimated qua	arter-size hai	1.	0	0			Hail (1.00)
Windham County 1 W Brattleboro		1520EST ic reported a tre e estimated wir			0 aivalent to	0 58 mph.			Thunderstorm Wind (50EG)
Windham County 1 SSW West Brattleboro	05	1520EST 1524EST			0	0			Thunderstorm Wind (60EG)
		Road in Brattleb							ell Drive in West Brattleboro to or Dummerston Road, and East
	Note: Th	e estimated wir	nd gust of 60	knots is equ	uivalent to	69 mph.			
Windham County 2 NNE Brattleboro 2 S East Dummerston	05	1523EST 1525EST			0	0			Thunderstorm Wind (60EG)
	town line			•		,	oad from the Ve	terans B	ridge north to the Brattleboro
Windham County Brattleboro	05 The Bratt	1523EST leboro Fire Dep	oartment rep	orted tree da	0 mage on C	0 Cedar Street.			Thunderstorm Wind (50EG)
	Note: Th	e estimated wir	nd gust of 50	knots is equ	uivalent to	58 mph.			
Windham County 2 ENE West Brattleboro	05 The Bratt	1524EST leboro Fire Dep	partment rep	orted tree da	0 mage on 0	0 Crescent Driv	e.		Thunderstorm Wind (50EG)
	these stor	ms became sev	ere in south	ern Vermor	nt with wir	nd damage ar	d large hail rep	orted. N	torms on September 5. One of umerous trees and power lines equivalent to 58 mph.
VIRGINIA, North									
Frederick County 5 NNW Siler		1354EST trees were down e estimated wir				0 58 mph.			Thunderstorm Wind (50EG)
Frederick County 7 NNW Siler		1354EST re down along U e estimated wir							Thunderstorm Wind (50EG)
Frederick County Albin		1410EST re down along A e estimated wir							Thunderstorm Wind (50EG)
Frederick County 2 SSW Opequon		1425EST re down along (e estimated wir			0 aivalent to	0 58 mph.			Thunderstorm Wind (50EG)
Nelson County 1 ENE Martins Store		1510EST as down along F e estimated wir			0 uivalent to	0 58 mph.			Thunderstorm Wind (50EG)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		mber of sons Injured	Estim Dama Property		September 2017 Character of Storm
VIRGINIA, North						·			
Albemarle County 3 NW Rio		1536EST vas down at the		·			Road.		Thunderstorm Wind (50EG)
Albemarle County 2 WSW Earlysville	05	he estimated w 1536EST nat was twelve i		-	0	0	Road.		Thunderstorm Wind (50EG)
Loudoun County 2 NNW North Fork	05	he estimated was 1646EST was down blocki		-	0	0	School Road		Thunderstorm Wind (50EG)
	level wi		per shear pro	ofiles. The sl	hear profil	les combined	with lift from	the front	e atmosphere. Stronger upper- and an unstable atmosphere to to 58 mph.
VIRGINIA, Southwest									
Botetourt County 1 WSW Eagle Rock	05 Thunder	1350EST estorm winds br	ought a tree o	lown on a pl	0 none line r	0 near Mout Mo	0.50K riah Road.	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated w	ind gust of 50) knots is eq	uivalent to	58 mph.			
Rockbridge County 1 E Lexington	05 Thunder	1418EST estorms winds d	owned a larg	e tree limb e	0 ast of the	0 intersection o	0.20K f Nelson Stree	0.00K et and South	Thunderstorm Wind (50EG) n Lee Highway.
	Note: T	he estimated w	ind gust of 50) knots is eq	uivalent to	58 mph.			
Bedford County Boonsboro									Lightning the next morning, church building.
	Blue Ri		. This front	provided th	e focus fo	or isolated th	understorms		before stalling just east of the across portions of southwest
VAZ016-032	Carrol	l - Floyd - Pa	trick						
	11 12	1520EST 0615EST			0	0	11.0K	0.00K	Strong Wind
VAZ009-014-033-	Frankl	in - Grayson	- Henry - N	Montgome	ry - Smy	th			
043	12	0153EST 0655EST			0	0	10.0K	0.00K	Strong Wind
									st U.S., spreading near tropical

The remnants of Hurricane Irma continued to weaken as it tracked northwest across the southeast U.S., spreading near tropical force wind gusts across the higher elevations of the southern Blue Ridge mountains of Virginia. These high winds coupled with moderate rain showers produced isolated wind damage in the form of falling trees.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Person Killed		Estim Dama Property		September 20: Character of Storm
WASHINGTON, Northeast									
WAZ042	East Sl	opes Norther	n Cascades						
	01 30	0000PST			0	0	0.00K	0.00K	Wildfire
	The sum and man Cascade	y continued to s which burned	burn into Sep 97,140 acres	ptember, m in the Unit	ost notably ted Sates and	the Diamo spread into	nd Creek Fire o Canada befo	in the Pas ore coming	ires started in July and August ayten Wilderness of the north under containment in October. month of September.
WAZ033-036-041- 043	Northe	ast Mountain	s - Okanog	an Valley	- Spokane	Area - V	Vashington 1	Palouse -	Wenatchee Area
	04 08	0700PST 1000PST			0	0	0.00K	0.00K	Dense Smoke
	Septemb readings authoriti	er 4th through during much of	the 8th. Air (this period, oor exposure	Quality sens with local r and activit	sors through eports of Ha	out eastern zardous air	Washington quality. Publ	recorded U ic Health A	ated eastern Washington from Inhealthy and Very Unhealthy Idvisories were issued by local Igh wind to ventilate the region
WASHINGTON, Northwest									
WAZ568	Cascad	es Of Snohon	nish And K	ing Coun	ties				
	04 15	1300PST 0000PST			0	0	4.5M	0.00K	Wildfire
		re started on th No structures w		s SE of Les	ster in the Co	entral Caso	cades and bur	ned 848 ac	eres through the middle of the
WASHINGTON, Southeast									
WAZ520	East Sl	opes Of The V	Washington	Cascade	s				
	01 30	0000PST 2359PST			0	0	0.00K	0.00K	Wildfire
	District (of the Okanogar es and The Natu	n-Wenatchee ire Conservai	National Foncy. This f	orest and on ire continued	or near lan I through S	d managed by September into	the Washi October.	burn in the Cle Elum Ranger ington Department of National On September 2nd, more than

WASHINGTON, Southwest

Wahkiakum County Rosburg

18 1605PST

1610PST

0

Hail (1.00)

County official relayed a report of 1.0 inch hail from a resident in Rosburg.

September over portions of western Kittitas county.

Warm surface temperatures with a strong upper-level front bringing cold air in aloft generated enough instability for a few strong thunderstorms across the region September 18th. With these storms there were a couple reports of 1.0 inch hail.

500 homes in the Cle Elum area were threatened. Air quality was considered hazardous or dangerous at times during

Location	Time Local/ Date Standard	Length		Number of Persons Injured	Estimated Damage Property Crops	September 2017 Character of Storm
WEST VIRGINIA, East						
Hampshire County 1 SSW Creekvale	05 1341EST A tree was down block	ing the 6000 Bloc	0 k of Slanesville	0 Pike.		Thunderstorm Wind (50EG)
	Note: The estimated w	ind gust of 50 knd	ots is equivalent	to 58 mph.		
Hardy County Moorefield Muni Arpt	05 1341EST A tree was down along Note: The estimated w			0 to 58 mph.		Thunderstorm Wind (50EG)
Morgan County 2 NW Largent	05 1346EST Three trees were down	-	0	0	l Road.	Thunderstorm Wind (50EG)
	Note: The estimated w	ind gust of 50 knd	ots is equivalent	to 58 mph.		
Morgan County 1 WSW Omps	05 1400EST Quarter sized hail was	reported.	0	0		Hail (1.00)
Morgan County 1 NNW Stotlers Xrds	05 1402EST A tree was down along Note: The estimated w			0 to 58 mph.		Thunderstorm Wind (50EG)
Morgan County 1 NW FairView	05 1402EST A tree was down along Note: The estimated w	Fairview Avenue	0	0		Thunderstorm Wind (50EG)
Morgan County 1 SSW Johnsons Mill	05 1402EST A tree was down along	Spriggs Road.	0	0		Thunderstorm Wind (50EG)
Morgan County	Note: The estimated w	and gust of 50 km	ots is equivalent	to 58 mpn.		
2 ESE Johnsons Mill	05 1404EST A tree was down along Note: The estimated w		0 ots is equivalent	0 to 58 mph.		Thunderstorm Wind (50EG)
Berkeley County Glengary	05 1405EST Multiple trees were do	wn along McCubb	0 ins Hollow Roa	0 d just south of	Apple Harvest Road.	Thunderstorm Wind (50EG)
	Note: The estimated w	rind gust of 50 kno	ots is equivalent	to 58 mph.		
Berkeley County 1 SE Ganotown	05 1406EST A dozen pine trees wer	e snapped and upi	0 rooted along the	0 200 Block of M	Monalia Lane.	Thunderstorm Wind (50EG)
	Note: The estimated w	rind gust of 50 kno	ots is equivalent	to 58 mph.		
Berkeley County 2 NNW Gerrardstown	05 1407EST Multiple trees were do Note: The estimated w			0 to 58 mph.		Thunderstorm Wind (50EG)
Berkeley County Shanghai	05 1407EST Several large trees wer	-	0	0	r Road.	Thunderstorm Wind (50EG)
	Note: The estimated w	rind gust of 50 knd	ots is equivalent	to 58 mph.		
Berkeley County 1 W Union Corner	05 1407EST Six to eight trees were	snapped.	0	0		Thunderstorm Wind (50EG)

•		Time Local/	Path Length	Path Width	Perso		Estim Dama	ige	September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
WEST VIRGINIA, East									
Berkeley County 1 N (MRB)Shepherd Fld Mr	A cold f		ough the area. per shear prof	iles. The s	hear profile:	s combined	with lift from	the front	Thunderstorm Wind (58MG) the atmosphere. Stronger upperand an unstable atmosphere to to 67 mph.
WISCONSIN, Northeast									
Portage County 4 ESE Bancroft	20 Golf ball	1647CST I size hail fell e	ast of Bancrof	t.	0	0	0.00K	0.00K	Hail (1.75)
Portage County 3 ESE Bancroft	20 Golf ball	1651CST I size hail fell n	orthwest of A	lmond.	0	0	0.00K	0.00K	Hail (1.75)
Portage County 1 S Almond	20 Two incl	1656CST h diameter hail	fell in Almon	d.	0	0	0.00K	0.00K	Hail (2.00)
Portage County 1 S Amherst Jct	20 Quarter	1659CST size hail fell in	Amherst Junc	tion.	0	0	0.00K	0.00K	Hail (1.00)
Portage County 4 NNW Blaine	20 Nickel si	1738CST ize hail fell nor	thwest of Blai	ne.	0	0	0.00K	0.00K	Hail (0.88)
Calumet County 1 E High Cliff	20 Quarter	1848CST size hail fell in	Sherwood.		0	0	0.00K	0.00K	Hail (1.00)
Calumet County 1 NE Darboy	20 Nickel si	1917CST ize hail fell nea	r the intersecti	on of Calu	0 met Street a	0 nd Highway	0.00K 441.	0.00K	Hail (0.88)
Outagamie County 1 N Little Chute		1924CST erstorm produc				-			Hail (0.88)
		d hail up to 2							B
Vilas County 1 S Arbor Vitae	radar da Thunder	ta.	across northe	rn Wiscon	sin along a	warm front			Thunderstorm Wind (52EG) event was estimated based on wind damage in Vilas County.
WISCONSIN, Northwest									
Burnett County 2 WNW Yellow Lake	02	1258CST			0	0	0.00K	0.00K	Hail (0.75)
Washburn County Trego	02	1306CST nunderstorms n	noved across V	Vashburn a	0	0			Hail (0.88)
Douglas County 1 S Boylston	20	0235CST			0	0			Hail (1.00)
Burnett County 5 E Webster	20 A tree w	0240CST as knocked dov	wn and blocke	d travel on	0 Austin Lake	0 Road in Sa	and Lake Tow	nship.	Thunderstorm Wind (52EG)

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		mber of sons Injured	Estima Dama Property		September 2017 Character of Storm		
WISCONSIN, Northwest											
Burnett County 6 W Gaslyn	_					-			Thunderstorm Wind (52EG) ad in Jackson Township.		
		oled trees. Note:							arter size hail and strong winds		
Washburn County 1 E Sarona	22	0627CST			0	0			Hail (1.00)		
Washburn County 1 S Sarona	22	0630CST			0	0			Hail (2.00)		
Washburn County 2 W Twin Oaks	22	0642CST			0	0			Hail (1.50)		
Douglas County 1 N Saunders	22 An assis	0645CST ted living reside	nce was stru	ck by lightn	0 ing damag	0 ing the roof a	100.00K nd ignited an		Lightning e in the attic.		
Sawyer County 2 SE Hayward Arpt	22	0731CST			0	0			Hail (0.75)		
Sawyer County 2 NNE Round Lake	22	0810CST			0	0			Hail (0.75)		
Sawyer County 2 NNE Round Lake	22	0828CST			0	0			Hail (0.75)		
Sawyer County 2 WSW Round Lake	22	0831CST			0	0			Hail (0.88)		
Sawyer County 6 ENE Round Lake	22	0841CST			0	0			Hail (0.75)		
Sawyer County 4 SW Grindstone Lake	22	0841CST			0	0			Hail (1.25)		
Sawyer County 3 WNW Loretta	22	0938CST 0940CST			0	0			Hail (0.88)		
Price County 1 E Lymantown	22 A tree th	0952CST at was blown ov	er also took	down a pow	0 ver cable n	0 ear Agenda ai	nd North Rive	r Roads.	Thunderstorm Wind (56EG)		
	penny-si	zed to hen's egg	sized hail.	A lightning	strike dam	aged and spar	ked a fire at a	n assisted	Counties. These storms dropped living home in Superior while quivalent to 64 mph.		
WISCONSIN, Southeast											
Fond Du Lac County 2 SE Fond Du Lac airport 1 SW Taycheedah	20 21	2030CST 0030CST			0	0	1.00K	0.00K	Heavy Rain		
-		ain of 3.50-4.00			ours result	ed in street fl	ooding in the	city of Fo	and du Lac. I-41 flooded at S.		
	A slow 1	Hickory Rd. The Woodland Trailer Park was being monitored for evacuation due to rising water but was ultimately not needed. A slow moving cold front resulted in repeated rounds of showers and thunderstorms. This caused urban flooding in the city of Fond du Lac.									

		Time Path Path Number of Estin Local/ Length Width Persons Dam			September 2017					
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dama Property	age Crops	Character of Storm	
WISCONSIN, Southwest										
Juneau County										
2 WNW Cutler	20	1438CST			0	0	0.00K	0.00K	Hail (0.88)	
Juneau County									4 (1 00)	
1 W Necedah	20 Ouarter	1445CST sized hail fell at	the Necedal	n Wildlife R	0 efuge.	0	0.00K	0.00K	Hail (1.00)	
Juneau County	C									
3 N Necedah	20	1459CST			0	0	0.00K	0.00K	Hail (0.75)	
Adams County										
2 SW Strongs Prairie	20	1500CST			0	0	0.00K	0.00K	Hail (1.50)	
	Golf ball sized hail was reported near the south end of Petenwell Lake.									
Cuarrifond Country										
Crawford County Mt Sterling	20	1730CST			0	0	0.00K	0.00K	Hail (0.75)	
								n during the	e afternoon of September 20th.	
	Some of	t these storms p	roduced hail	up to golf t	oall sized i	near the south	end of Peten	iwell Lake	(Adams County).	
WWOMING C 4 1 11	T 7 4									
WYOMING, Central and V	<u>vest</u>									
WYZ002	Absard	oka Mountain	s							
	15	0300MST			0	0	0.00K	0.00K	Winter Storm	
	16	ually atnona aal	d front and	numan laval	L lovy som	himad with a	daam atmaam	of Docific	maisture to muchuse the first	
									moisture to produce the first a foot of snow. The Beartooth	
	highway	y was shut down	n for several	hours due t	to winter c	onditions.				
WYZ001-012	Toton	& Gros Ventr	o Mountai	na Vollor	watana N	otional Dowl	l-			
W 1 Z001-012			e Mountai	ins - 1 eno	wstone in	auonai Fan	N.			
	20 22	2200MST 0100MST			0	0	0.00K	0.00K	Winter Storm	
	22	010010151			U	U	0.00K	0.00K	winter Storm	
WYZ002	A been	oka Mountain	e.							
W 1 2002			.5							
	21 22	0000MST 0500MST			0	0	0.00K	0.00K	Winter Storm	
		050014151			U	U	0.001	0.001	winter Storm	
		•							he mountains of northwestern	
									f the higher elevations. Over a res remained warm enough for	
	much of	f the precipitation	on to fall as i	rain or wet s	snow that	did not accum	ıulate.			
WWOMING Carellage										
WYOMING, Southeast										
WYZ106-117-118 Central Laramie County - Central Laramie Range An Foothills								tte Count	y - South Laramie Range	
	19	1600MST								
	19	2200MST			0	0	0.00K	0.00K	High Wind	
									_	

WYZ114 Snowy Range

24 1000MST

 $1800 \mathrm{MST} \hspace{1.5cm} 0 \hspace{1.5cm} 0.00 \mathrm{K} \hspace{1.5cm} 0.00 \mathrm{K} \hspace{1.5cm} \mathrm{Winter} \hspace{1.5cm} \mathrm{Weather}$

A brief period of strong post-frontal west to northwest winds occurred from the central Laramie Range to central Laramie

A Pacific low pressure system produced moderate snow over the Snowy Range. Total snow accumulations varied from six to ten inches.

		Time Path Path Number of Local/ Length Width Persons						nated	September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	age Crops	Character of Storm
LAKE ST. CLAIR									
	Lake S	t. Clair (US I	Portion)						
LCZ-100			or tion)		0	0	0.0017	0.0017	Marina Thursdandan Wind
	04 A thund	1720EST erstorm moving	into Lake St	. Clair produ	0 uced a 57 m	0 nph wind gus	0.00K st.	0.00K	Marine Thunderstorm Wind
GULF OF MEXICO									
GMZ042	Hawk	Channel Froi	n Ocean Ro	eef To Cra	nig Key O	ut To The	Reef		
	remaine		ary across th	ne nothern F	lorida Pen				Marine Thunderstorm Wind as a trough of low pressure b. An isolated gale-force wind
GULF OF MEXICO									
GMZ656	Choko	loskee to Bon	ita Beach F	L out 20n	m				
									Marine Thunderstorm Wind owers and thunderstorms were rs producing gusty winds.
GULF OF MEXICO									
GMZ035	Gulf O	f Mexico Fro	m West En	d Of Seve	n Mile Br	ridge To Ha	alfmoon Sh	oal Out T	o 5 Fathoms
	03	0601EST							
	0.5	0612EST			0	0	0.00K	0.00K	Waterspout
		successive water advance of a S			north of Ke	y West as de	eep tropical n	noisture wa	as slowly departing the Florida
	04	1249EST							
		1254EST			0	0	0.00K	0.00K	Waterspout
	04	1251EST							
		1300EST			0	0	0.00K	0.00K	Waterspout
	04	1304EST							
		1315EST			0	0	0.00K	0.00K	Waterspout
	04	1305EST			0	0	0.00K	0.00K	Waterspout
	Several	waterspouts we	re observed in	n association	n with a clo	ud line exten	nding just nor	th of the Lo	ower Florida Keys.
GULF OF MEXICO									
GMZ656-676	Choko Sable t	loskee to Bo to Chokolosk	nita Beach ee FL out	FL 20 to 20nm	60nm - (Chokoloske	ee to Bonit	a Beach l	FL out 20nm - East Cape

09 0000EST 0 0 Marine Hurricane/Typhoon
11

Major Hurricane Irma made landfall in southwest Florida on Marco Island as a category 3 hurricane in the afternoon on
September 10th. The storm traveled north through southwest Florida through the morning on September 11th. Effects from

Major Hurricane Irma made landfall in southwest Florida on Marco Island as a category 3 hurricane in the afternoon on September 10th. The storm traveled north through southwest Florida through the morning on September 11th. Effects from Irma were felt across South Florida from September 9th through September 11th. Irma had reached a Category 5 strength and a minimum central pressure of 914mb before weakening before landfall.

The strength and size of Hurricane Irma allowed the effects to expand across all of South Florida waters. The wind, waves, surge created dangerous life-threatening marine conditions.

		Time Local/	Path Length	Path Width		nber of	Estin Dam		September 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
GULF OF MEXICO									
GMZ730-750-755- 765-770-775	Apalac Suwan	chicola to De	stin FL 20 Keaton F) to 60nm Beach Out	- Apalao To 20 N	chicola to	Destin FL	out 20nn	River FL out to 20nm - n - Coastal Waters From achicola FL 20 to 60nm -
	large siz	e of the storm r	esulted in tro						Marine Tropical Storm s of the Florida peninsula. The n Destin to the Suwannee River
	out to 60) nautical miles	•						
GULF OF MEXICO									
GMZ031	Florida	a Bay							
	13 An isola	0905EST ted waterspout	was observed	l near Black	0 water Sour	0 nd in associati	0.00K on with a dev	0.00K veloping ra	Waterspout in shower.
GMZ042	Hawk (Channel Fron	n Ocean R	eef To Cra	nig Key O	out To The	Reef		
	22 An isola	1217EST ted waterspout	was observed	l near Taver	0 nier, Florid	0 la, in associat	0.00K ion with a de	0.00K veloping ra	Waterspout ain shower.
GULF OF MEXICO									
GMZ730	Apalac	hee Bay or C	oastal Wat	ers from I	Keaton B	each to Och	nlockonee F	River FL	out to 20nm
	23 An isola along th		m brought st	rong winds	0 in excess o	0 of 34 knots ne	0.00K ar Bald Poin	0.00K t as measur	Marine Thunderstorm Wind red by a private weather station
GULF OF MEXICO									
GMZ034	Gulf O	f Mexico Incl	uding Dry	Tortugas	And Reb	ecca Shoal	Channel		
	Dry Tor	0833EST us showers and tugas National st Gulf of Mexi	Park. A we	understorms eak trough o	0 over the s f low pres	0 outheast Gul sure extende	0.00K f of Mexico j d north-to-so	0.00K produced b outh over t	Marine Thunderstorm Wind orief gale-force wind gusts near he western Florida Straits and
EAST PACIFIC OCEAN									
PZZ250	Cascad	le Head OR t	o Cape Sho	oalwater W	A westw	ard 20nm			
	01	0945PST 0955PST			0	0	0.00K	0.00K	Waterspout
		nunderstorms ac							ed enough instability for a few espout off the coast near Happy

Path September 2017 Time Path Number of Estimated Local/ Standard Length (Miles) Width Persons Damage Property Date (Yards) Injured Crops Character of Storm Location

EAST PACIFIC OCEAN



A picture of a waterspout that was observed from Oceanside, Oregon in Tillamook County on September 1st, 2017. Photo courtesy of Jim Young.

ATLANTIC, Caribbean Sea and Tropical Atlantic

AMZ671 Deerfield Beach to Ocean Reef FL 20 to 60nm

> 0.00KA breezy southeast wind brought plenty of tropical moisture to the region. Scattered afternoon showers and thunderstorm

> affected all of the South Florida waters. One of these showers produced a waterspout offshore Fort Lauderdale.

ATLANTIC, Caribbean Sea and Tropical Atlantic

AMZ350 South Santee River to Edisto Beach SC out 20nm

> 1754EST 1757FST

0.00KMarine Thunderstorm Wind

A strong line of thunderstorms moved across portions of southeast South Carolina in the afternoon and to the coast by the early evening hours. These storms developed in the warm and unstable airmass out ahead of the remnants of Tropical Cyclone Harvey as it moved through the Tennessee Valley. These thunderstorms produced strong wind gusts along the coast.

ATLANTIC, Caribbean Sea and Tropical Atlantic

AMZ552 Volusia-Brevard County Line to Sebastian Inlet 0 to 20nm

> 0.00K0.00KMarine Thunderstorm Wind A strong thunderstorm moved north along the central Brevard County coast and produced winds over 34 knots over the Banana

River along the Highway 528 Causeway.

ATLANTIC, Caribbean Sea and Tropical Atlantic

AMZ330-350-352-354-370

Charleston Harbor - Edisto Beach SC to Savannah GA out 20nm - Savannah GA to Altamaha Sound GA out 20nm - South Santee River SC to Savannah GA 20 to 40nm - South Santee River to Edisto Beach SC out 20nm

02 0202EST

> 0333EST 0 0.00KMarine Thunderstorm Wind

A cluster of strong thunderstorms developed in the early morning hours just off the southeast Georgia coast. These thunderstorms tracked to the northeast along the southeast Georgia and southeast South Carolina coast and produced strong wind gusts.

		Time	Path	Path	Nur	nber of	Estim	ated	September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)		sons Injured	Dama Property		Character of Storm
ATLANTIC, Caribbean Sea	and Trop	ical Atlanti	c						
AMZ552		Brevard Cou	_	o Sebastia	n Inlet 0	to 20nm			
		1620EST thunderstorm m ng the NASA P							Marine Thunderstorm Wind ds to 34 knots over the Indian nter.
ATLANTIC, Caribbean Sea	and Trop	oical Atlantic	c						
AMZ650		Inlet to Deerf	_	FL out 20	0nm				
									Waterspout ver the Atlantic waters in the s offshore Palm Beach County.
ATLANTIC, Caribbean Sea	and Trop	oical Atlantic	<u>c</u>						
AMZ330-350-370		ton Harbor - C out 20nm	South Sar	ntee River	SC to S	avannah G	A 20 to 401	nm - Sou	th Santee River to Edisto
	06	0029EST 0243EST			0	0		0.00K	Marine Thunderstorm Wind
	A strong l hours. Th	ine of thunderst	torms develo s eventually	pped along to produced s	the souther	ast Georgia and gusts along	d southeast S the coast and	South Carol over the A	lina coast in the early morning tlantic coastal waters.
ATLANTIC, Caribbean Sea	and Trop	oical Atlantic	<u>c</u>						
AMZ552-555	Cocoa B	each to Jupit	er Inlet FI	out 20nr	n - Volus	sia-Brevard	County Lin	ne to Seba	astian Inlet 0 to 20nm
	08	1920EST 2130EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind
	rain band		ening, sever						associated with several narrow along the coast of Brevard, St.
ATLANTIC, Caribbean Sea	and Trop	oical Atlantic	<u>c</u>						
AMZ610-630-650- 670>671									of FL 20 to 60nm - Jupiter 20nm - Lake Okeechobee
	09 11	0000EST			0	0	0.00K	0.00K	Marine Tropical Storm
	Major Hu Septembe Irma were minimum The stren	r 10th. The store felt across Sou central pressure	rm traveled th Florida fr e of 914mb t Hurricane I	north throu om Septem oefore weak rma allowe	gh southy ber 9th thr ening before d the effect	vest Florida the rough Septembore landfall. cts to expand	nrough the moer 11th. Irma	orning on had reach	hurricane in the afternoon on September 11th. Effects from ed a Category 5 strength and a rida waters. The wind, waves,
ATLANTIC, Caribbean Sea	and Trop	oical Atlantic	<u>c</u>						
AMZ550-552-555- 570-572-575	Cocoa B		o 60nm - F	lagler Be	ach to C	ocoa Beach	FL out 20r	ım - Volu	t 20nm - Flagler Beach to sia-Brevard County Line to 20nm
	10 11	1200EST			0	0	0.00K	0.00K	Marine Tropical Storm
	Hurricane force win		t gusts to hu	rricane force					ion of sustained tropical storm y expansive wind field. These

		Time	Path	Path	Num	nber of	Estima	ated	September 2017
		Local/	Length	Width	Pers		Damag		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

ATLANTIC, Caribbean Sea and Tropical Atlantic

AMZ350

South Santee River to Edisto Beach SC out 20nm

11 1049EST 1051EST 0 0 0 0.00K Waterspout

Irma first developed into a tropical storm on August 30th about 420 miles west of the Cabo Verde Islands, and within 24 hours strengthened into a hurricane. Irma continued to intensify and became a major hurricane over the eastern Atlantic on September 1st. After undergoing a brief period of weakening on September 2nd, Irma once again strengthened into a major hurricane on September 3rd and maintained major hurricane status through September 10th when it made landfall on the southwest Florida coast. During this extended period as a major hurricane, Irma set numerous intensity records for a hurricane in the Atlantic basin. Maximum sustained winds reached 185 mph, making Irma the strongest storm on record to exist in the Atlantic Ocean outside of the Caribbean and Gulf of Mexico. Also, Irmas 185 mph maximum sustained winds are tied for the second strongest maximum winds all time in an Atlantic hurricane. The minimum central pressure reached during Irmas life cycle was 914 mb which is the lowest pressure on record by an Atlantic hurricane outside of the western Caribbean and Gulf of Mexico. Furthermore, Irma maintained Category 5 status for 3 consecutive days which is the longest on record for an Atlantic hurricane. Irma stayed on a general westward track through September 5th when it began a gradual turn to the west-northwest. On this west-northwestward track, Irma eventually skirted along the north coast of Cuba on September 9th before turning northward toward Florida on September 10th. Irma officially made landfall at Marco Island, FL at 3:35 pm September 10 as a Category 3 hurricane. Following landfall, Irma tracked to the north-northwest and eventually the northwest as it progressed up the western side of the Florida peninsula. Irma steadily weakened during this time and was downgraded to a tropical storm near the big bend of Florida at 8:00 am on September 11th. Through the rest of September 11th, Irma tracked to the northwest into southern Georgia and widespread impacts occurred across the Southeast.

Despite the fact that the center of Irma tracked well to the west of the southeast Georgia and southeast South Carolina region, it still caused significant impacts due to heavy rainfall, strong winds, tornadoes, and storm surge. Feeder bands around Irma continuously moved onshore on September 11th and produced very heavy rainfall rates with rainfall totals generally ranging from 3 to 9 inches. The peak storm total rainfall of 9.07 was recorded by a CoCoRaHS observer near Beaufort, SC. Daily record rainfall totals for September 11th were recorded at all 3 climate sites in the area: 5.51 at the Charleston International Airport (KCHS), 4.53 at Downtown Charleston (KCXM), and 4.74 at the Savannah-Hilton Head International Airport (KSAV). This widespread heavy rain resulted in several reports of flash flooding with water entering homes and businesses. Wind damage produced numerous power outages across the region with some damage to structures and numerous downed trees. The strongest winds were confined to coastal locations, but frequent gusts into the 40-50 mph range occurred well inland. The maximum sustained wind recorded was 59 mph by the Weatherflow site on the Folly Beach Pier (XFOL) and the maximum wind gust recorded was 76 mph by the Weatherflow site near Beaufort (XBUF). One fatality and 1 injury occurred from trees falling on homes and across roadways in southeast South Carolina. The entire southeast Georgia and southeast South Carolina coast was impacted by storm surge generally ranging from 3 to 6 feet. This storm surge produced numerous reports of 4 to 6 feet of inundation above ground level, mainly along the southeast South Carolina coast. A peak surge of 4.87 feet occurred at the Charleston Harbor tide gauge at 2:00 pm while a peak surge of 5.63 feet occurred at the Fort Pulaski tide gauge at 5:42 am. Significant beach erosion occurred at area beaches with widespread damage to docks and piers all along the coast, as well as numerous reports of inundated roadways.

ATLANTIC, Caribbean Sea and Tropical Atlantic

AMZ650

Jupiter Inlet to Deerfield Beach FL out 20nm

16 0658EST 0 0 0.00K Waterspout

Weak easterly flow with showers over the Atlantic waters in the morning in a typical diurnal summertime pattern. A line of showers offshore was able to produce multiple waterspouts.

ATLANTIC, Caribbean Sea and Tropical Atlantic

AMZ550

Flagler Beach to Cocoa Beach FL out 20nm

Several reports were received of waterspouts offshore of Ormond by the Sea over a 30-minute period. The waterspouts dissipated before reaching the coast.

22	0815EST 0817EST	0	0	0.00K	0.00K	Waterspout
22	0830EST 0834EST	0	0	0.00K	0.00K	Waterspout

A waterspout was observed over the Atlantic from the Ormond Beach Airport. A short time later, multiple waterspouts were observed over the Atlantic from Daytona Beach. The waterspouts were associated with marine showers.

Location	Date	Time Local/	Path Length	Path Width	Per	mber of sons	Estin Dam:	age	September 2017 Character of Storm
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ATLANTIC, North									
ANZ537-543		sco River Inc sworth Islan							and Waters Surrounding
	05	1630EST 2220EST			0	0			Marine Thunderstorm Wind
	level wi		per shear pro	files. The sh					e atmosphere. Stronger upper- and an unstable atmosphere to
ATLANTIC, North									
ANZ338	New Y	ork Harbor							
	05 An appr	2254EST oaching cold from	ont triggered a	an isolated st	0 trong thun	0 derstorm ove	er upper NY H	Harbor.	Marine Thunderstorm Wind
ANZ330-340-370	Long I 20 to 4	sland Sound 0nm - Pecon	East of Ne	w Haven (diners Bay	CT to Po	rt Jefferso	n NY - Moi	ntauk Po	int NY to Sandy Hook NJ
	06	0718EST 0835EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind
ANZ330	Long I	sland Sound	East of New	v Haven C'	T to Por	t Jefferson	NY		
		0900EST ng cold front tri Eastern Long Isl					0.00K which impact	0.00K ed the ocea	Waterspout n waters south of Central Long
ATLANTIC, North									
ANZ543	Tangie	r Sound And	The Inland	l Waters S	urround	ling Bloods	worth Islan	ıd	
	06 An isola	1728EST ated storm produ	iced gusty wii	nds.	0	0			Marine Thunderstorm Wind
ATLANTIC, North									
ANZ632-634-656		Charles Light ew Point Cor				Onm - Che	sapeake Ba	y From I	Little Creek - Chesapeake
	06	1754EST 1812EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind
	Scattere Coastal		s associated w	vith a cold fr	ont produ	ced gusty win	nds across por	rtions of the	e Chesapeake Bay and Virginia
ATLANTIC, North									
ANZ451-470	Manas	quan Inlet to	Little Egg	Inlet NJ ou	ut 20nm	- Sandy Ho	ook NJ to F	enwick Is	land DE 20 to 40nm
	19	1130EST 1405EST			0	0			Marine Tropical Storm
			ered offshore	for several			offshore wate	rs saw higl	n surf and tropical storm force
	winds.								

		Time Local/	Path Length	Path Width		mber of	Estim Dama		September 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ATLANTIC, North									
ANZ232-235-236	Nantuc	eket Sound -	Narraganse	ett Bay - R	hode Isla	and Sound			
	21	1340EST			0	0	0.0017	0.0017	M . T . 10.
		2059EST			0	0	0.00K	0.00K	Marine Tropical Storm
ANZ251	Massac	chusetts Bay	And Ipswic	ch Bay					
	22	0635EST			0	0	0.00K	0.00K	Marine Tropical Storm
	north of diminish	the Leeward l	Islands, then al Storm duri	turned on a ing Tuesday	northwar the 19th	d path north o and then stalle	of the Domin	ican Repu	Major Hurricane. Jose passed blic. As he moved north, Jose heast of Nantucket. The storm
	Jose bro reached	ought strong wi	ind gusts and on Nantucke	I heavy dow et, wind gust	npours, p	rimarily to the			sts of Massachusetts. Rainfall and storm surge brought minor
ATLANTIC, North									
ANZ350	Monta	uk Point to N	Aoriches In	let NY out	20nm				
	30 A passin	1048EST ng upper level d	listurbance an	nd surface lo	0 w triggere	0 d a waterspout	0.00K t just south of	0.00K f Westhamp	Waterspout oton Beach.
LAKE MICHIGAN									
LMZ344	Grand	Traverse Li	ght to Sleep	ing Bear I	Point MI				
	05	0957EST 1015EST			0	0	0.00K	0.00K	Waterspout
	Showers	s produced a wa	aterspout over	Lake Mich	igan.				
LAKE MICHIGAN									
LMZ221	Bay of	Green Bay N	North of Lir	ne from Ce	edar Rive	er MI to Roc	ck Island P	assage	
	22	1420EST							
		1430EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind
		f strong to seve strong winds.	ere storms mo	oved southea	st across 1	northern Lake	Michigan du	ring the lat	e morning hours on Sept. 22nd
LAKE MICHIGAN									
LMZ362	Seul Cl	hoix Point To	o The Mack	sinac Brid	ge And F	rom Charle	voix Mi To	S Fox Is	5nm Off Shore
	27 Showers	0828EST s produced a wa	aterspout over	r northern La	0 ake Michig	0 gan.	0.00K	0.00K	Waterspout
LAKE SUPERIOR									
LSZ147	Sand Is	sland to Bayf	field WI						
	03	2205CST			0	0	10.07	0.0017	Marina Thomas de meta mar Wind
		2222CST			0	0	10.0K	0.00K	Marine Thunderstorm Wind
	The win		damaged mo	ored boats l	y pushing				Islands of the Apostle Islands. ght vessels involved had to be

		Time Local/	Path Length	Path Width		mber of	Estim Dama		September 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
LAKE SUPERIOR									
LSZ263	Lake north	Superior Eas ward beyond	t of line fr 5nm and	om Saxor South of l	n Harboi Intl Bord	r WI to Gi der	and Portag	ge MN to	o line Manitou Island MI
	15	0147EST 0152EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind
	A line o	of strong storms	tracked acros	ss western L	ake Superi	or during the	early morning	g hours.	
	22	0943EST 0948EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind
LSZ241-246-249> 251-263-265	Portag To Ma Munis	ge MN to line orquette Mi B	Manitou Is	sland MI n n From Sl	orthwar	d beyond 5 arquette T	nm and Sou o Munising	uth of Int Mi - Ma	on Harbor WI to Grand l Border - Manitou Island rquette to Munising MI - al MI - Saxon Harbor WI
	22	0955EST 1315EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind
		the early morn g strong and gu		n Sep. 22nd	, a strong	line of thun	derstorms pu	shed east a	across Western Lake Superior
LAKE ONTARIO									
LOZ045	Mexic	o Bay NY to t	he St. Law	rence Rive	er				
		0849EST r crossing the re eports showed a				0 ntario resulte	d in waterspo	0.00K uts at the e	Waterspout astern end of the Lake. Social
LAKE ERIE									
LEZ444	MI W	aters of Lake	Erie						
	04 A thunc	1818EST lerstorm moving	through Lak	te Erie produ	0 iced a 42 k	0 anot thunders	0.00K torm wind gus	0.00K st.	Marine Thunderstorm Wind
LAKE ERIE									
LEZ142>146		Point to Will s to Vermilio					ch OH - Re	no Beach	n to the Islands OH - The
	04	1818EST 2018EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind
		front moved acrud produced son		_	e evening o	of September	4th. Shower	s and thun	derstorms developed along the
LAKE ERIE									
LEZ040	Ripley	to Dunkirk N	ΙΥ						
	04 Thunde	2138EST rstorms ahead of	an approach	ning cold fro	0 nt produce	0 ed winds mea	sured to 53 km	0.00K nots at Dun	Marine Thunderstorm Wind kirk.

		Time Local/	Path Length	Path Width		mber of	Estima Dama		September 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
LAKE ERIE										
LEZ145-146	Avon I	Point to Willo	wick OH -	Vermilion	to Avon	Point OH				
	06	0659EST								
		0900EST			0	0	0.00K	0.00K	Waterspout	
	Several	waterspouts we	re observed o	on Lake Erie	•					
LAKE ERIE										
LEZ040	Dinlow	to Dunkirk N	N.V							
LEZ040			11		0	0		0.0017	Manina Than I and any Wind	
		1630EST erstorms accomp t Dunkirk.	panied the pa	issage of a v	0 veak cold	front across the	he region. Th	0.00K e storm pi	Marine Thunderstorm Wind roduced winds measured to 35	
LAKE ERIE										
LEZ146	Avon l	Point to Willo	wick OH							
	29 Several	1256EST waterspouts we	ere observed c	on Lake Erie	0	0	0.00K	0.00K	Waterspout	
LAKE ERIE										
LEZ040	Dinlow	to Dunkirk N	NW							
LEZ040	29	1330EST	11		0	0		0.00K	Waterenewt	
	Cold air						waterspouts a		Waterspout ern end of the Lake. Broadcast	
VIRGIN ISLANDS										
St. Croix County										
3 E St Croix	14 15	2251AST 1130AST			0	0	500.00K	0.00K	Flash Flood	
				. 1						
		roix police depa r on roadways n				curring from	Mid Island all	the way t	o the west with up to three feet	
		t southerly flo rstorm activity			ane Jose	meandering v	vell north of	the local	area resulted in shower and	
AMERICAN SAMOA,										
Tutuila County										
Pago Pago	22 23	2000SST 2100SST			0	0			Heavy Rain	
	Heavy r territory	ainfall from thu			ican Samo	a. This situati			ff and flash flooding across the vice Office recorded over 3.70	
	territory								ff and flash flooding across the vice Office recorded over 3.70	
PUERTO RICO										
Culebra										
4 E Culebra	06	1444AST 2345AST			0	0	500.00K	0.00K	Flash Flood	
	Heavy r	rains associated	with Hurrica	ne Irma proc	luced flood	ling.				

		Time	Path	Path		nber of	Estima	ited	September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damag Property	ge Crops	Character of Storm
PUERTO RICO									
Canovanas									
6 NNW Canovanas	06	1455AST 2000AST			0	0	500.00K	0.00K	Flash Flood
	Heavy r	ain resulted in fl	ash flooding						
Carolina	·								
4 NNW Carolina	06	1455AST 2000AST			0	0	250.00K	0.00K	Flash Flood
	Rio Gra	nde de Loiza flo	oded, inunda	ting areas at	t Carolina.				
Ceiba									
2 N Ceiba	06	1455AST 2000AST			0	0	250.00K	0.00K	Flash Flood
	Heavy r	ain resulted in fl	ash flooding	across Ceib	a.				
Gurabo									
3 WNW Gurabo	06 07	1455AST 0000AST			0	0	500.00K	0.00K	Flash Flood
	Heavy ra	ainfall associated	d with Hurrid	cane Irma pr	oduced flo	oding.			
Humacao 5 NNW Humacao	06	1455AST							
5 NAW Humacao	06 07	0000AST			0	0	500.00K	0.00K	Flash Flood
	Heavy ra	ains associated v	vith Hurrica	ne Irma prod	luced flood	ing.			
Ciales									
7 NNE Ciales	06	1510AST							
		2315AST			0	0	500.00K	0.00K	Flash Flood
	Rio Gra	nde de Manati w	ent out of its	s banks.					
Aguas Buenas									
5 WNW Aguas Buenas	06	1516AST							
	07	0015AST			0	0	177.00K	0.00K	Flash Flood
	Ro Gran	ide de Loza in C	aguas, repor	ted as floode	ed.				
Bayamon									
5 NNW Bayamon	06	1516AST							
	07	0015AST			0	0	250.00K	0.00K	Flash Flood
	Heavy r	ain resulted in fl	ash flood acı	oss Bayamo	on.				
Catano									
3 WNW Catano	06 07	1516AST 0015AST			0	0	250.00K	0.00K	Flash Flood
						U	230.00K	0.00K	riasii riood
	Heavy r	ain resulted in fl	ash flooding	across Cata	no.				
Cidra									
3 E Cidra	06 07	1516AST 0015AST			0	0	500.00K	0.00K	Flash Flood
	Heavy ra	ainfall associated	d with Hurric	cane Irma pr	oduced flo	oding.			
	Ĭ			1		-			
Guaynabo									
9 NW Guaynabo	06 07	1516AST 0015AST			0	0	500 0017	0.0012	Flash Flood
							500.00K	0.00K	FIASII FIOOU
	Heavy ra	ainfall associated	d with Hurrio	cane Irma pr	oduced flo	oding.			

		Time	Path	Path	Nu	mber of	Estima	ited	September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)		sons Injured	Damag Property		Character of Storm
PUERTO RICO									
Barceloneta 4 NW Barceloneta	06	1523AST 2315AST			0	0	250.00K	0.00K	Flash Flood
	Heavy r	ain resulted in f	lash flooding	in Barcelon	ieta.				
Corozal	•								
4 N Corozal	06	1523AST 2315AST			0	0	500.00K	0.00K	Flash Flood
	Heavy r	ains associated	with Hurrica	ne Irma prod	luced flood	ding.			
Florida									
3 NW Florida	06	1523AST 2315AST			0	0	500.00K	0.00K	Flash Flood
	Heavy r	ainfall associate	ed with Hurri	cane Irma pr	oduced flo	ooding.			
The found of									
Fajardo 2 SSE Fajardo	06	1618AST							
	07	0000AST			0	0	500.00K	0.00K	Flash Flood
	Rio Faja	ardo went out of	its banks.						
Adjuntas 6 NNW Adjuntas	06	1630AST							
o NAW Aujuntas	00	2130AST			0	0	750.00M	0.00K	Flash Flood
	Emerge	ncy managers re	eported flood	ing in Adjun	ıtas.				
Arecibo	-								
8 WNW Arecibo	06	1630AST 2130AST			0	0	250.00K	0.00K	Flash Flood
	Heavy r	ain resulted in f	lash flooding	across the a	ırea.				
Camuy	06	1.620 A ST							
6 NW Camuy	06	1630AST 2130AST			0	0	250.00K	0.00K	Flash Flood
	Heavy r	ain resulted in f	lash flooding	across the a	ırea.				
Hatillo	•								
4 NNW Hatillo	06	1630AST 2130AST			0	0	500.00K	0.00K	Flash Flood
			1 24 77 2				300.00K	0.001	Plasti Plood
	Heavy r	ainfall associate	a with Hurri	cane irma pi	oduced H	ooding.			
Jayuya									
5 N Jayuya	06	1630AST 2130AST			0	0	500.00K	0.00K	Flash Flood
	Назуу г	ainfall associate	d with Huerid	cana Irma n					
	Heavy I	annan associate	a willi Hulli	cane mna pi	oduced III	oding.			
Comerio									
3 N Comerio	06 07	1640AST 0015AST			0	0	500.00K	0.00K	Flash Flood
	Rio de 1	a Plata went out	of its banks						
Barranquitas	110 00 1	one out	camo.						
4 NW Barranquitas	06	2008AST			^	^	220 22-	0.00==	
	07	0015AST			0	0	250.00K	0.00K	Flash Flood
	Heavy r	ain resulted in f	lash flooding	across the a	ırea.				

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		mber of sons Injured	Estima Damag Property		September 2017 Character of Storm
	Date	Standard	(Willes)	(Tarus)	Kined	injured	Troperty	Crops	Character of Storm
PUERTO RICO									
Dorad 4 NW Dorado	06	2016AST 2315AST			0	0	500.00K	0.00K	Flash Flood
	Rio de la	a Plata was out o	f its banks.						
Caguas									
8 NNW Caguas	07	0741AST 0903AST			0	0	250.00K	0.00K	Flash Flood
	Hurrican the storn of 115 r Saint Cr	n was towards th nph with Culebr	tegory 5 stor te west north a also experi I mainly trop	m with max west. Saint iencing Hur	winds of Thomas ar	nd Saint John ce gusts in ex	experienced the cess of 100 mp	ne southern ph. Mainla	east quadrant. The direction of n eyewall with winds in excess and Puerto Rico, Vieques, and g towards the west-northwest
Ponce									
8 NNW Ponce	20 River ou	0000AST at of its banks.			0	0	500.00M	0.00K	Flash Flood
Fajardo									
3 NNW Fajardo	20 21	0124AST 1500AST			0	0	500.00K	0.00K	Flash Flood
	Rio Faja	ardo went out of	its banks.						
Guayama 9 NNE Guayama	20 21	0300AST 1500AST			0	0	500.00K	0.00K	Flash Flood
	Heavy r	ainfall associated	l with Hurric	cane Maria p	oroduced f	looding.			
Ct. 1									
Ciales 5 NW Ciales	20 21	0417AST 1800AST			0	0	500.00K	0.00K	Flash Flood
	Rio Gra	nde de Manati w	ent out of its	banks.					
Gurabo									
4 NW Gurabo	20 21	0419AST 1500AST			0	0	500.00K	0.00K	Flash Flood
	Rio Gur	abo went out of i	its banks.						
Arroyo									
4 NW Arroyo	20 21	0434AST 0453AST			0	0	750.00M	0.00K	Flash Flood
	Heavy r	ain flooded muni	cipality of A	Arroyo.					
Humacao									
4 NE Humacao	20 21	0434AST 1500AST			0	0	500.00K	0.00K	Flash Flood
	Heavy r	ainfall associated	l with Hurric	cane Maria p	produced fl	looding.			
Comment.									
Comerio 4 N Comerio	20 21	0454AST 1500AST			0	0	250.00M	0.00K	Flash Flood
	La Plata	river went out o	f its banks p	roducing sea	rious flash	flooding acro	ss downtown (Comerio.	

		Time	Path	Path		nber of	Estima		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed	ons Injured	Damag Property	e Crops	Character of Storm
PUERTO RICO									
Aguas Buenas 5 NW Aguas Buenas	20 21	0512AST 1500AST			0	0	750.00M	0.00K	Flash Flood
	Heavy r	ain associated to	hurricane M	Iaria resulted	d in mudslic	des and rocks	lides.		
	·								
Catano	•	0510100							
1 NE Catano	20 22	0512AST 0800AST			0	0	750.00M	0.00K	Flash Flood
	Heavy r	ain resulted in flo	ooding.						
Cidra									
3 NNW Cidra	20	0512AST							
	21	1500AST			0	0	0.00K	0.00K	Flash Flood
	Heavy r	ainfall associated	l with Hurric	ane Maria p	oroduced flo	ooding.			
Guaynabo									
9 NW Guaynabo	20	0512AST							
	21	1500AST			0	0	500.00K	0.00K	Flash Flood
	Heavy r	ainfall associated	l with Hurric	cane Maria p	oroduced flo	ooding.			
Ceiba									
2 N Ceiba	20	0524AST							
	22	0800AST			0	0	750.00M	0.00K	Flash Flood
	Rio Faja	ardo went out of	its banks.						
Coamo									
5 WSW Coamo	20	0602AST					500 00TT	0.00**	
	21	1500AST			0	0	500.00K	0.00K	Flash Flood
	Rio Coa	mo went out of i	ts banks.						
Canovanas	20	0.620 A ST							
6 NNW Canovanas	20 22	0629AST 0800AST			0	0	750.00M	0.00K	Flash Flood
	Very he	avy rain resulted	in Rio Cano	ovanas out o	f its banks.				
Corozal									
3 NNW Corozal	20	0629AST					500 00TT	0.00**	
	21	1500AST			0	0	500.00K	0.00K	Flash Flood
	Rio Cib	uco went out of i	ts banks.						
Hatillo									
4 NNW Hatillo	20 21	0716AST 1800AST			0	0	500.00K	0.00K	Flash Flood
	Rio Can	nuy went out of i	ts banks.						
Dorad		•							
4 NW Dorado	20	0720AST							
	21	1500AST			0	0	500.00K	0.00K	Flash Flood
	Rio de la	a Plata went out	of its banks.						
Cayey									
6 WNW Cayey	20	0722AST						0.00==	
	21	1100AST			0	0	750.00M	0.00K	Flash Flood
	Rio de I	La Plata went out	of its banks						

		Time	Path	Path		nber of	Estima		September 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Damaş Property	ge Crops	Character of Storm
PUERTO RICO									
Isabela									
7 NW Isabela	20 21	0725AST 0915AST			0	0	500.00K	0.00K	Flash Flood
					U	O	300.00K	0.001	1 lasii 1 loou
	Rio Gua	njataca went out	of its banks.						
Jayuya	20	0.50.5 + 0.55							
6 N Jayuya	20	0725AST 1800AST			0	0	500.00K	0.00K	Flash Flood
	Dio Sali	ente went out of	ite hanke						
G	Kio San	ente went out of	its balks.						
Guayanilla 7 N Guayanilla	20	0745AST							
7 IV Guayanina	21	0900AST			0	0	500.00K	0.00K	Flash Flood
	Rio Gua	ayanilla went out	of its banks.						
Guanica	Tao Gui	ryummu wem ou	or no ounts.						
4 ESE Guanica	20	0800AST							
	21	0900AST			0	0	500.00K	0.00K	Flash Flood
	Heavy r	ainfall associate	d with Hurric	ane Maria p	oroduced fl	ooding.			
Bayamon									
5 NNW Bayamon	20 21	0822AST 1500AST			0	0	750.00M	0.00K	Flash Flood
						v	750100112	0.0011	1 11000
	Rio de I	La Plata out of it	s banks.						
Caguas	20	0022 A CT							
8 NNW Caguas	20 21	0823AST 1500AST			0	0	750.00M	0.00K	Flash Flood
	Pio Con	titas out of its ba	n l za						
	Kio Cag	gitas out of its ba	IIKS.						
Carolina 6 NNW Carolina	20	0835AST							
o NNW Carolina	20 22	0800AST			0	0	750.00M	0.00K	Flash Flood
	Die Oue	shuada Cuanda as	st of its bombs						
	Kio Que	ebrada Grande o	it of its banks	S.					
Aibonito 4 N Aibonito	20	1002 A CT							
4 N Albointo	20	1002AST 1521AST			0	0	750.00M	0.00K	Flash Flood
	Pio Con	umo went out of	ita hanka						
4.32	Kio Coa	ino went out or	its baliks.						
Adjuntas 6 NNW Adjuntas	20	1046AST							
O M Aujuntas	21	1800AST			0	0	750.00K	0.00K	Flash Flood
	Rio Gra	nde de Arecibo	went out of it	s banks.					
Arecibo	140 014	nac ac i necioo	out of it	o danii.					
8 WNW Arecibo	20	1046AST							
	21	1800AST			0	0	750.00M	0.00K	Flash Flood
	Rio Gra	nde de Arecibo	out of its banl	ks.					
PRZ004-006	Centra	al Interior - Ea	astern Inter	ior					
- 14200-f-000			IIIIIIII	.101					
	20	1100AST 2300AST			0	0	5.0M	0.00K	Hurricane
					Ÿ	V	3.01.1		

		Time	Path	Path	Path Number of Width Persons		Estima		September 2017	
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Killed	Injured	Damag Property	Crops	Character of Storm	
PUERTO RICO										
Camuy										
5 NNE Camuy	20	1116AST								
	21	0915AST			0	0	750.00M	0.00K	Flash Flood	
	Rio Car	nuy out of its bar	nks.							
Hormigueros										
2 NW Hormigueros	20	1127AST								
9	21	0915AST			0	0	500.00K	0.00K	Flash Flood	
	Rio Gua	anajibo went out	of its banks.							
Barceloneta										
4 NNE Barceloneta	20	1141AST								
	21	1800AST			0	0	750.00M	0.00K	Flash Flood	
	Rio Ma	nati out of its bar	nks.							
Barranquitas										
4 NW Barranquitas	20	1141AST								
Tivi Darranquia	21	1800AST			0	0	750.00M	0.00K	Flash Flood	
	Rio Gra	nde de Manati o	ut of its banks							
Aguadilla										
3 NNE Aguadilla	20	1248AST								
JIME Aguauma	21	0915AST			0	0	750.00M	0.00K	Flash Flood	
	Heavy r	ain resulted in fl	oods.							
A	, -									
Anasco 7 WNW Anasco	20	1253AST								
7 WIN W Allasco	20 21	0915AST			0	0	750.00M	0.00K	Flash Flood	
	Heavy r	ain resulted in fl	oods							
	ricavy i	am resuited in ii	oous.							
Cabo Rojo	20	1501 A CT								
10 NNW Cabo Rojo	20 21	1521AST 0915AST			0	0	750.00M	0.00K	Flash Flood	
	Rio Gua	anajibo out of its	hanks							
	nio out	majibo out of its	ounks.							
Aguada	20	1.02.6.4.07								
20 N Aguada	20 21	1636AST 0915AST			0	0	750.00M	0.001/	Flash Flood	
					0	U	/50.00M	0.00K	Flash Flood	
	Margari	ta Dam out of its	s banks.							
Florida										
4 NNW Florida	20	1810AST								
	21	1800AST			0	0	500.00K	0.00K	Flash Flood	
	Heavy r	ains associated v	with Hurricane	Maria pro	duced floo	oding.				

Heavy rains associated with Hurricane Maria produced flooding.

Hurricane Maria was a category 5 storm with max sustained winds of 175 mph as it was approaching the county warning area. The direction was towards the west northwest with the eye clipping Saint Croix and Vieques. The hurricane then made landfall in the municipality of Yabucoa in mainland PR at 6:15 am AST with maximum sustained winds of 155 mph. The center of the storm traversed diagonally through mainland Puerto Rico exiting across the northwest municipalities in the early afternoon hours. Extreme winds were observed across most of mainland Puerto Rico, Vieques, and Saint Croix with severe flooding observed across many areas in mainland Puerto Rico. Maria was the strongest hurricane to make landfall in mainland Puerto Rico since Hurricane Felipe II in 1928, a category 5 storm.

		Time	Path	Path	Number of		Estimated			February 2017
		Local/	Length	Width	Pers	sons	Dama	ge		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

ADDITIONS

ARIZONA, Central and Northeast

Yavapai County

1 N Montezuma Castle

28 0600MST

0800MST

1 0 0.00K 0.00K Flash Flood

A 59-year-old man from Cottonwood drowned around 6:30am while attempting to cross Beaver Creek at Reay Road in Rimrock. M59IW

The second of two low pressure systems hit northern Arizona with a generous moisture tap. This produced abundant snow above around 6,000 feet and heavy rain below that elevation. Several locations along and north of the Mogollon Rim experienced strong to high winds. M59IW

		Time	Path	Path	Nun	nber of	Estimated			March 2017
		Local/	Length	Width	Pers	ons	Damag	ge		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

ADDITIONS

FLORIDA, East Central

FLZ041 Volusia

13 1200EST

2100EST 1 0 0.00K 0.00K Rip Current

Six people visiting from out of state were swimming at New Smyrna Beach and got caught in a rip current. All made it back to shore on their own or were rescued. One of the swimmers was pulled to shore unresponsive and later died at a nearby hospital. M18IW

Time Path Path Number of Estimated April 2017
Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

ADDITIONS

ALABAMA, Southwest

ALZ064 Lower Baldwin

04 1400CST 1 3 0.00K Rip Current

Dangerous surf and rip current conditions along coastal Alabama resulted in one fatality. M50IW

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

ADDITIONS

NEW YORK, West

NYZ001>007

Jefferson - Monroe - Niagara - Northern Cayuga - Orleans - Oswego - Wayne

02 1400EST

31 2359EST 0 0 Coastal Flood

During the first six months of 2017, more than twice the normal amount of water accumulated on Lake Ontario while the Ottawa River saw the highest flows in more than 50 years, leading to widespread flooding across the Lake Ontario St. Lawrence River system. In early 2017, Lake Erie levels were the highest theyd been for that time of year for almost 20 years. Inflows to Lake Ontario from Lake Erie were above average from January through June. Lake Ontario saw two of the wettest months ever recorded in April and May of 2017. Water levels were impacted by precipitation falling directly onto the lakes surface and by runoff. Variable ice conditions in the St. Lawrence River from January through March along with high Ottawa River flows limited outflow from Lake Ontario. The lake reached a record level of 248.95 feet. Flooding began in early May and continued into early fall. Waves destroyed public and private breakwalls all along the lake shore. Thousands of homes and buildings were affected flood waters. Several homes dropped off bluffs. In some areas shoreline erosion of 50 to 100 feet deep occurred. Sanitary sewer systems in lakeside communities were affected. Beaches, marinas and state parks were closed all summer long with unknown economic losses to mainly seasonal businesses. In late May, the Governor imposed a 5 mph speed limit within 600 feet of the Lake Ontario and St. Lawrence River shore. The shoreline counties of Lake Ontario and the St. Lawrence River sustained enough damage to qualify for both a New York State and Federal Disaster Declaration. By summers end, damage estimates included: \$4 Million in Niagara County, \$9 Million in Orleans County, \$3 Million in Monroe County, \$3 Million in Wayne County, \$1 Million in Cayuga County, \$23 Million in Oswego County and \$10 Million in Jefferson County.

May 2017

		Time	Path	Path	Nu	Number of Estimated			June 2017	
		Local/	Length	Width	Per	sons	Damage			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

ADDITIONS

NEW YORK, West

01 0000EST 30 2359EST 0 0 Coastal Flood

NYZ001>007

Jefferson - Monroe - Niagara - Northern Cayuga - Orleans - Oswego - Wayne

01 0000EST 30 2359EST 0 0 Coastal Flood

During the first six months of 2017, more than twice the normal amount of water accumulated on Lake Ontario while the Ottawa River saw the highest flows in more than 50 years, leading to widespread flooding across the Lake Ontario St. Lawrence River system. In early 2017, Lake Erie levels were the highest theyd been for that time of year for almost 20 years. Inflows to Lake Ontario from Lake Erie were above average from January through June. Lake Ontario saw two of the wettest months ever recorded in April and May of 2017. Water levels were impacted by precipitation falling directly onto the lakes surface and by runoff. Variable ice conditions in the St. Lawrence River from January through March along with high Ottawa River flows limited outflow from Lake Ontario. The lake reached a record level of 248.95 feet. Flooding began in early May and continued into early fall. Waves destroyed public and private breakwalls all along the lake shore. Thousands of homes and buildings were affected flood waters. Several homes dropped off bluffs. In some areas shoreline erosion of 50 to 100 feet deep occurred. Sanitary sewer systems in lakeside communities were affected. Beaches, marinas and state parks were closed all summer long with unknown economic losses to mainly seasonal businesses. In late May, the Governor imposed a 5 mph speed limit within 600 feet of the Lake Ontario and St. Lawrence River shore. The shoreline counties of Lake Ontario and the St. Lawrence River sustained enough damage to qualify for both a New York State and Federal Disaster Declaration. By summers end, damage estimates included: \$4 Million in Niagara County, \$9 Million in Orleans County, \$3 Million in Monroe County, \$3 Million in Wayne County, \$1 Million in Cayuga County, \$23 Million in Oswego County and \$10 Million in Jefferson

		Time Local/	Path Length	Path Width	Num Pers	nber of	Estim Dama			August 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			A	DDIT	IONS					
IOWA, Central										
Boone County										
2 S Napier	21	1652CST 1654CST	1.91	60	0	0	5.00K	5.00K	Tornado (EF0)	
									The tornado did dated into Story county	
Story County										
2 SW Kelley	21	1654CST 1655CST	1.37	80	0	0	0.00K	4.00K	Tornado (EF0)	
		o found in hi-res					ed from Boon	ne county a	and stayed in open	row crops,
Story County 1 NNE Midvale	21	1658CST 1659CST	1.08	10	0	0	0.00K	3.00K	Tornado (EF0)	

Tornado captured by hi-resolution satellite imagery to the southeast of Ames. Started just southeast of the water treatment plant and moved quickly through open farm fields with a distinctive path noted in both bean and corn fields. Little damage noted other than to the crops.

With the help of a couple weak boundaries in the area, storms initiated on the nose of the low level jet and generally remained over the same areas overnight. The primary result of the storms was heavy rainfall, though a few initial storms were able to produce damaging winds and severe hail within 2000+ J/kg CAPE and borderline effective bulk shear around 30 kts. Other than the few initial severe storm reports, total rainfall reports exceeded 5 inches in some locations. During the afternoon and evening on the 21st, ahead of a cold front, storms once again initiated and produced primarily sub-severe winds and hail, though two weak tornadoes and one severe wind gust were reported.

NEW YORK, West

NYZ001>007

Jefferson - Monroe - Niagara - Northern Cayuga - Orleans - Oswego - Wayne

01 0000EST 31 2359EST 0 0 Coastal Flood

During the first six months of 2017, more than twice the normal amount of water accumulated on Lake Ontario while the Ottawa River saw the highest flows in more than 50 years, leading to widespread flooding across the Lake Ontario St. Lawrence River system. In early 2017, Lake Erie levels were the highest theyd been for that time of year for almost 20 years. Inflows to Lake Ontario from Lake Erie were above average from January through June. Lake Ontario saw two of the wettest months ever recorded in April and May of 2017. Water levels were impacted by precipitation falling directly onto the lakes surface and by runoff. Variable ice conditions in the St. Lawrence River from January through March along with high Ottawa River flows limited outflow from Lake Ontario. The lake reached a record level of 248.95 feet. Flooding began in early May and continued into early fall. Waves destroyed public and private breakwalls all along the lake shore. Thousands of homes and buildings were affected flood waters. Several homes dropped off bluffs. In some areas shoreline erosion of 50 to 100 feet deep occurred. Sanitary sewer systems in lakeside communities were affected. Beaches, marinas and state parks were closed all summer long with unknown economic losses to mainly seasonal businesses. In late May, the Governor imposed a 5 mph speed limit within 600 feet of the Lake Ontario and St. Lawrence River shore. The shoreline counties of Lake Ontario and the St. Lawrence River sustained enough damage to qualify for both a New York State and Federal Disaster Declaration. By summers end, damage estimates included: \$4 Million in Niagara County, \$9 Million in Orleans County, \$3 Million in Monroe County, \$3 Million in Wayne County, \$1 Million in Cayuga County, \$23 Million in Oswego County and \$10 Million in Jefferson County.

OHIO, North

Stark County 1 W North Brewster

02 1710EST 1 0 0.00K 0.00K Lightning

An 82 year old man was struck by lightning and killed while working outside. This incident occurred just outside of Brewster. M82OU

A cold front moved across northern Ohio on August 2nd. Scattered thunderstorms developed along this front. At least one of the thunderstorms became severe. M82OU

		Time	Path	Path		ber of	Estima			August 20
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Damag Property	ge Crops	Character of Storm	
			Al	DDITI	ONS					
TEXAS, Central Southeast										
TXZ213	Harris									
	21 A jogger	1300CST succumbed to t	the heat within	a Seabrook	1 park. M3	0 7OU	0.00K	0.00K	Heat	
Montgomery County										
1 WSW Shenandoah 2 WNW Willis	26	0808CST 1000CST			0	0	0.00K	0.00K	Flash Flood	
		ain from first ra reports of roads		d flash floo	ding on po	ortions of In	terstate 45 be	tween The	Woodlands and Conr	oe with
Fort Bend County	•	00 5 4 C C C C C C C C C C								
6 E Fulshear	26 27	0956CST 1200CST			0	0	0.00K	0.00K	Flash Flood	
	FM 1093	3 closed east of 1	FM 723 due to	flooding						
Walker County	11/1 10%	9 0100000 0000001	111725 446 16	mooung.						
2 NE Huntsville 2 SE Hawthorne	26	1040CST 1240CST			0	0	0.00K	0.00K	Flash Flood	
	Flash flo 1374.	ooding from Hur	ntsville to New	Waverly. R	toad closu	res include l	Bowers, Beark	at, Cotton	and Podraza Roads. A	dso FM
Walker County										
2 ESE Hawthorne 5 E Riverside	26 30	2100CST 0000CST			1	0	600.00M	10.00K	Flash Flood	
	Areas al FM1375	ong the Trinity	River and Bed	ias Creek w	ere among	the areas in	npacted. There	e were nun	ver portions of Walker nerous road closures in Interstate 45 but it re	cluding
San Jacinto County 14 S Liberty Hill Maynard	26 29	2200CST 1200CST			3	0	350.00M	10.00K	Flash Flood	
	lowland Marie St the south lowland	flooding occurreteet in Shepher hern end of Lak flooding occur	red near the Tr d with numero e Livingston v red on the Tri	rinity River ous reports overe inundat nity River r	and areas of other floed. FM 32 lear Good	below Lake ooded roadv 278 was inad rich. Hundr	Livingston. To Livingston. To Livingston. To Livingston. The L	There was ne county. to the inunder of home	of San Jacinto County a report of high water Many roads and home dation of flood waters nes received various le rect. M69IW, FIVE, l	closing es along s. Major evels of
Austin County										
Wallis 4 ENE Frydek	27 29	0457CST 1600CST			0	0	100.00K	50.00K	Flash Flood	
	Moderat from 4 t	e, yet record, flo	ooding along ther. Minimal in	ne Brazos at npacts were	San Felip observed	e caused sev	eral homes to	flood alon	2429, FM 1093 and g FM 1458. Inundation pacts were observed fi	n ranged
Montgomery County 4 NNW Montgomery	27 28	1513CST 1500CST			0	0	0.00K	0.00K	Flash Flood	
	Road clo	osed due to flood	ding, FM 149 r	north of Mor	itgomery.					
Montgomery County										
3 S Boy 8 SSW Mostyn	27 30	2000CST 0000CST			3	0	7.00B	10.00K	Flash Flood	
o bb ii mustyn	20	1 620000			5	U	۵.00	10.001	1 1000	

Path

Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

Path

Time

ADDITIONS

TEXAS, Central Southeast

Tropical Storm Harvey brought heavy rains and catastrophic flooding to portions of Montgomery County. There were 5 storm related fatalities, 3 direct. Major record flooding occurred along the San Jacinto River and tributaries. Water was reported over sections of I-45 northbound where TXDOT reported flooding at the FM 1097 intersection. Water was reported over sections of I-45 northbound where TXDOT reported flooding at the FM 1097 intersection. Record pool levels on Lake Conroe required downstream releases that flooded numerous downstream homes, businesses and vehicles. Major flooding occurred along the San Jacinto River and the east Fork of the San Jacinto and its tributaries inundated tens to hundreds of residential subdivisions. There were hundreds of flooded homes along Lake, Spring, Peach and Caney Creeks. There were impassable roads due to high water at Horseshoe Circle and Painted Blvd off the Grand Parkway, 19000 block of David Memorial from Sam's Club to Shenandoah Park, the 11000 block of River Oaks Drive, the 45 northbound lanes at Highway 242 and Hines Road in Willis. Flash flooding led to numerous road closures including FM149, FM1484, FM1486, FM1774, FM2090 SH105 and others. M61IW, ??OU, F60PS, M33VE

Number of

Estimated

August 2017

Harvey made landfall as a category 4 hurricane near Rockport, Texas during the evening of August 25th. The storm then weakened to a tropical storm and slowed, looping back and tracking over SE Texas then back over the Gulf of Mexico making a second landfall along the Louisiana coast during the early morning hours of August 30th. Over that 5 day period over Southeast Texas TS Harvey produced catastrophic flooding with a large area of 30 to 60 inches of rain, 23 tornadoes, tropical storm force winds and a moderate storm surge near Matagorda Bay. In some of the heavier bands rain fell at a rate of over 5 inches per hour. This copious record amount of rain over a led to catastrophic flooding. Thousands of homes, businesses, and roads were flooded due to flash flooding and sheet flow from long duration intense rain. Main stem rivers and adjoining tributaries, creeks and bayous reached full capacity and came out of their banks and this also contributed to the massive flooding across southeastern Texas.

		Time	Path	Path	Number of		Estimated		February 2017
		Local/	Length	Width	Pers	ons	Damag	ge	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

CORRECTIONS

ARIZONA, Central and Northeast

AZZ004-015-016	Eastern 1	Mogollon Rim - Kaib	oab Plateau - Wester	n Mogollo	n Rim			
	27 28	0800MST 1000MST	0	0	0.00K	0.00K	Heavy Snow	7
Coconino County								
3 W Munds Park	27	1100MST						
15 WNW Sedona Arpt	28	1200MST	0	0	0.00K	0.00K	Heavy Rain	
		n fell in and around Oak of ported 3.35 inches of rain						S in Oak Creek
Yavapai County								
3 ESE Bagdad Arpt 3 SSW Poland Jct	27 28	1100MST	0	0	0.00 K	0.00K	Heavy Rain	
	Heavy rain	fell across Yavapai Cou	inty. Here are some of th	e 24 hour ra	infall amounts	in inches:		
	Crown Kir	C	Seven Springs	3.43	7 NW Sti	-	2.80	Yarnell Hill
	2.68	14 SW Strawberry	2.62 Wilhoi		2.36	1 NNW	_	2.31 4
	ENE Rimr Prescott	rock 2.03 1.94.	Castle Hot Springs	2.00	3 W Iro	on Springs	1.98	1 SSW

AZZ006-008-016 Eastern Mogollon Rim - Grand Canyon Country - Yavapai County Mountains

	27 28	1100MST 1800MST			0	0	0.00K	0.00K	Heavy Snow	
Gila County 1 NNE Strawberry	27	1300MST			0	0	0.00K	0.00K	Heavy Rain	
8 WNW Fulton	Washingt	on Park	3.72	ila County. Here a 1 S Pine		3.28 4 N K			1 SW Washington	Park 2.99
	4 NNW S 2.03.	Star Valley	2.63	1 E Payson		2.47	Pay	son	2.21	Young

AZZ009-011-017-039-040 Black Mesa Area - Chuska Mountains And Defiance Plateau - Northeast Plateaus And Mesas From Highway 264 North - Northeast Plateaus And Mesas South Of Highway 264 - White Mountains

27 1700MST 28 1100MST 0 0 0.00K 0.00K Heavy Snow

		Time Local/	Path Length	Path Width	Num Perso	ber of	Estin Dam		February 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ARIZONA, Central and No	ortheast		CO	RREC	TION	S			
Gila County	<u> </u>								
4 N (0E4)Payson Arpt	28	0549MST 1500MST			0	0	0.00K	0.00K	Flood
	FI 0:1		0.00	. 10 1					
	The Gil	a County Sheriffs	Office repo	orted floodin	g along the	lower water	crossings of	East Verde	River at East Verde Estates.
AZZ014-017	Little	Colorado River	· Valley Ir	ı Apache (County - V	White Mou	ıntains		
	28	0655MST 0920MST			0	0	0.00K	0.00K	High Wind
Coconino County									
4 WNW Munds Park	28	0900MST 0910MST			0	0	0.00K	0.00K	Flash Flood
		Highway 89A at							debris, and rocks. This flow A snowplow was called to clear
	The sec	ond of two low p	t and heav						This produced abundant snow d north of the Mogollon Rim
IDAHO, Southwest									
IDZ016-029	Owyh	ee Mountains -	Western 1	Magic Val	ley				
	07	0400MST 1600MST			0	0	0.00K	0.00K	Heavy Snow
	A warn	front lifting acros	ss Southeas	t Oregon and	d Southwes	t Idaho sprea	ad moderate v	wet snow ov	ver the area.
Gooding County									
Hagerman	08 09	1500MST 0600MST			0	0	1.50M	0.00K	Flood
	of the t	d snowmelt on to	including	the city parl	en soil led t k was flood	o widesprea	d flooding. A	report froi	m social media indicated much tural lands occurred and some
Ada County 2 W Boise Terminal Arpt	08	1800MST			0	0	0.00K	0.00K	Flood
2 SSE Beatty	09		rianda alama	Colo Dood					
	Neighb	orhood roads and	yarus along	Cole Road	submerged	due to 1100d	ing along Fiv	e Mile Cree	ck.
Elmore County 6 NNW Cleft	08 09	1800MST			0	0	2.00K	0.00K	Flood
		was washed out co	utting acces	s to Souls R	est Creek n	eighborhood	l.		
Gem County									
10 NNW Plaza	08	1800MST			0	0	1.0017	0.0017	FI 1
11 NW Sweet	09	2200MST			0	0	1.00K	0.00K	Flood
		ergency manager st of Dry Creek.	reported h	igh water ar	nd debris al	long Big Wi	llow Creek a	and water r	unning over Big Willow Road
Jerome County	20	10003			^	^	0.55-	0.00==	F1 1
Jerome 2 WNW Barrymore	08 10	1800MST			0	0	2.75M	0.00K	Flood
									to widespread flooding. Many agricultural lands occurred.

		Time Local/	Path Length	Path Width	Numb Person		Estim Dama		February 2
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
			COI	RREC	CTIONS	S			
IDAHO, Southwest									
Twin Falls County (TWF)Twin Falls Arpt 3 NW Twin Falls	08 10	1800MST			0	0	2.50M	0.00K	Flood
21111 21122	Many co Creek co	ounty roads and	large sections y other roads	s of agricu were close	ltural land w	ere flooded	d. County Roa	ad 1100 Ea	oil led to widespread flooding st was washed out at the Deep anals caused water to overflow
		Southwesterly flo South Central Id		varm front	spread heavy	rain acros	ss most of the	intermount	ain west. Flooding occurred in
Washington County 1 S Weiser 1 NNE Weiser Arpt	10	0500MST 1200MST			0	0	1.00M	0.00K	Flood
	river we	re flooded and w	videspread flo	ooding of a	gricultural la	ind occurre	d. A few resid	dents living	Weiser. Some homes near the gnear the river were evacuated ortion of U.S. Highway 95 jus
	An ice ja	am on the Weise	r River just so	outh of We	iser caused f	looding on	U.S. Highway	y 95.	
IDZ016	Wester	n Magic Valle	y						
	23	0900MST 2100MST			0	0	0.00K	0.00K	Heavy Snow
	A slow i	moving upper lov	w tracking acı	ross the so	uthern border	of Idaho s	pread heavy s	now across	parts of South Central Idaho.
NEVADA, North									
Humboldt County									
5 ENE Adelaide 11 W Sulphur	07 09	1300PST 1800PST			0	0	3.00M	0.00K	Flood
	through		eks surroundi						off the Santa Rosa Mountain ads that were damaged by the
Elko County 30 E San Jacinto	07 14	1500PST			0	0	3.00M	0.00K	Flood
9 W Owyhee Arpt	Rain on business were da submerg Extensiv River to Elko. In	ses in both Monto amaged and had ged the road. Sa we shoulder dam a rise above flood	ello and Well washouts. U Ilmon Falls C age was repo I stage. This c een Elko and	s were floo JS highwa Creek over orted along caused exte Wells was	oded along way 93 was classification US Highwas ensive flooding reduced to o	with some hosed both highway 9 y 93 maining of home one lane in	somes and out south and no 3 and comple by north of W and busines places due to	buildings in orth of Web etely subm ells. All th ses along a flood water	ng. About 30 homes and a fewn rural areas. Many rural road: lls for a time as flood watererged the adjoining rest area e runoff caused the Humbold and near the Humboldt River in ers over the road. A total of 25
Elko County 19 NNW Montello Arpt	08	1306PST 1900PST			0	0	500.00K	0.00K	Flash Flood
	waters v	vaters behind Tw	tion of State	Route 233	used the dam 3 and railroad	to fail sen	ding a 2 to 3	foot wall o	f water downstream. The floodings at the Gamble Ranch and

Path February 2017 Time Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Injured Date (Yards) Killed Property Crops Character of Storm Location

CORRECTIONS

NEVADA, North

Rain on a much above normal snow pack combined with frozen ground caused extensive flooding across northern Nevada, especially across Elko county. The excessive runoff caused the Twenty One Mile dam north of Montello to fail sending flood waters 2-3 feet deep down Twenty One Mile Creek flooding buildings at the Gamble Ranch and washing out a section of State Route 233 and railroad tracks. Flooding also stopped trains traveling through northern Elko County as tracks were underwater. About 30 homes and a few businesses in both Montello and Wells were flooded along with some homes and outbuildings in rural areas. Many rural roads were damaged and had washouts. US highway 93 was closed both south and north of Wells for a time as flood waters submerged the road. Salmon Falls Creek overflowed US highway 93 and completely submerged the adjoining rest area. Extensive shoulder damage was reported along US Highway 93 mainly north of Wells. Humboldt county reported over 68 rural roads that were damaged by the flooding. Residents of Paradise Valley were inundated on at least two separate occasions as water poured off the Santa Rosa Mountains through the various creeks surrounding the town. All the runoff caused the Humboldt River to rise above flood stage. This caused extensive flooding of homes and businesses along and near the Humboldt River in Elko. Interstate 80 between Elko and Wells was reduced to one lane in places due to flood waters over the road. A total of 25 homes in Elko, Wells, and Montello were totally destroyed or suffered extensive damage.

NVZ031-034

N Elko Cnty - Ruby Mountains/e Humboldt Range

22 0700PST 23 0800PST 0 0 0 0.00K 0.00K Heavy Snow

A winter storm brought heavy snow to northern Elko county and the Ruby Mountains and East Humboldt Range. Some valley location reported 6 to 7 inches of snow while the mountains reported 1 to 2 feet of snow.

OREGON, Southeast

ORZ061-063 Harney - Malheur

07 0300PST 1500PST 0 0 0.00K 0.00K Heavy Snow

A warm front lifting across Southeast Oregon and Southwest Idaho spread moderate wet snow over the area.

Malheur County Juntura 3 WNW Vale

10 0500MST 1800MST 0 0 0.00K 0.00K Flood

Ice jams on the Malheur River caused flooding along U.S. Highway 20 from Juntura to Vale.

Ice Jams on the Malheur River caused flooding in areas along U.S. Highway 20.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Perso Killed	ber of ons Injured	Estimated Damage Property Crops	Character of Storm	March 2017
			CO	RREC	TION	S			
ALABAMA, North									
Lauderdale County 1 E Florence	01 Golf bal	1157CST l sized hail was	reported.		0	0		Hail (1.75)	
Lauderdale County 1 SE Petersville	01 Golf bal	1200CST l sized hail was	reported.		0	0		Hail (1.75)	
Lauderdale County 1 S Killen	01 Golf bal	1206CST l sized was repo	orted via soci	al media.	0	0		Hail (1.75)	
Lauderdale County 2 E Thortontown	01 Golf bal	1219CST l sized hail was	reported.		0	0		Hail (1.75)	
Limestone County 1 E Holbert Spgs	01 Golf bal	1225CST l sized hail was	reported.		0	0		Hail (1.75)	
Colbert County 1 SW Whitehouse Spgs	01 Quarter	1235CST sized hail was re	eported.		0	0		Hail (1.00)	
Colbert County 3 SW Emco Listerhill Jct	01 Half dol	1242CST lar sized hail wa	as reported.		0	0		Hail (1.25)	
Colbert County 1 W Leighton	01 Quarter	1242CST sized hail was re	eported.		0	0		Hail (1.00)	
Madison County 1 S Toney	01 Quarter	1250CST sized hail was re	eported.		0	0		Hail (1.00)	
Lawrence County 1 W Town Creek	01 Half dol	1252CST lar sized hail wa	as reported.		0	0		Hail (1.25)	
Limestone County 1 SE Ardmore	01 Golf bal	1300CST l sized hail was	reported via	social media	0 a.	0		Hail (1.75)	
Madison County 1 E Hazel Green	01 Golf bal	1301CST l sized hail was	reported.		0	0		Hail (1.75)	
Limestone County 1 NNE Lawngate	01 Quarter	1305CST sized hail was re	eported.		0	0		Hail (1.00)	
Madison County 2 ENE Dan	also dan	1307CST restorm winds propaged in this are the estimated wi	ea.				near Ready Section Road	Thunderstorm Wi d at Pulaski Pike. A	
Madison County 1 SE Fisk	01	1321CST		Î	0	0	ar the intersection of U.S	Thunderstorm Wi . 231 and Carriger Ro	
Madison County 2 NE Madison	01	he estimated wi 1323CST sized hail was re		Î	0	0		Hail (1.00)	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Person Killed		Estimated Damage Property Crops	Character of Storm	March 2017
Escution	Duto	Standard			TIONS		Troperty Crops	Character of Storm	
ALABAMA, North									
Madison County 1 E Fletcher Chapel	01 Quarter siz MIPS equi		ved at the N	ational Wea	0 ather Service	0 in Huntsv	ville. 40 mph wind gus	Hail (1.00) st observed by UA-H	untsville's
Madison County 3 E Huntsville Park	01 Half dollar	1330CST sized hail wa	s reported ne	ear the interse	0 ection of Wh	0 itesburg D	rive and Drake Avenue	Hail (1.25)	
Madison County 2 SSE Monrovia	01 Half dollar	1330CST sized hail in	the Creekwoo	od Subdivisi	0 on near Cree	0 kwood Pai	k in Huntsville.	Hail (1.25)	
Madison County 1 N Lily Flag	01 Half dollar	1335CST sized hail wa	s reported.		0	0		Hail (1.25)	
Morgan County 1 NW Ryan Xrds	01 Half dollar	1413CST sized hail wa	s reported an	ıd relayed by	0 broadcast m	0 nedia.		Hail (1.25)	
Marshall County Hebron	01 Quarter siz	1420CST ed hail was re	ported along	; with a 56 m	0 aph wind gus	0 t in Hebro	1.	Hail (1.00)	
Marshall County Guntersville Muni Ar	01 Golf ball si	1430CST ized hail broke	e windows o	ut near U.S.	0 431, Claysvi	0 lle School	and the Guntersville air	Hail (1.75) port.	
Marshall County 1 N Henryville	01 Quarter siz	1430CST ed hail was re	eported.		0	0		Hail (1.00)	
DeKalb County 1 E Beaty Xrds	01 Tennis ball	1441CST sized hail wa	s reported.		0	0		Hail (2.50)	
Marshall County 2 NE Oleander	01 Power line	1443CST s and trees we	ere knocked d	lown near th	0 e intersection	0 n of Quarry	Road and Union Grov	Thunderstorm Wi e Road.	nd (52EG)
	Note: The	estimated win	nd gust of 52	knots is equ	ivalent to 60	mph.			
Marshall County 2 ENE Swearengin		1449CST knocked dow estimated win		_	-	0 mph.		Thunderstorm Wi	nd (52EG)
Marshall County 1 SSW Henryville		1452CST knocked dow estimated win			_			Thunderstorm Wi	nd (52EG)
Marshall County 2 WNW Henryville	01 A tree and	1540CST power lines w	vere knocked	down on Ba	0 kers Chapel	0 Road.		Thunderstorm Wi	nd (52EG)
	Note: The	estimated win	nd gust of 52	knots is equ	ivalent to 60	mph.			
DeKalb County 2 WNW Fyffe		1546CST damaged on estimated win	-	-		0 mph.		Thunderstorm Wi	nd (52EG)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Person Killed		Estimated Damage Property Crops	Character of Storm	March 201
AT ADAMA N. A			CO	RREC	TIONS	5			
ALABAMA, North DeKalb County 1 N High Pt	01	1549CST	GD 105		0	0		Thunderstorm Wi	nd (52EG)
	A band o early afternoon	ernoon hours a	ere thunders long a cold ll storms pro	torms, inclu front. The	iding a few e storms track	ed rapidly	upercells, developed duri east as the front dropped f damaging winds. Note	d southeast throug	the mid
Madison County Chelsea	10 A large tr	0005CST ree was knocked	l down on th	e Tree Have	0 en Glen Apar	0 tment Comp	olex.	Thunderstorm Wi	nd (52EG)
Limestone County	Note: Th	e estimated wir	nd gust of 52	knots is eq	uivalent to 60	mph.			
2 ESE Sardis Spgs	10 A tree wa	0015CST as knocked dow	n onto powe	r lines on B	0 arksdale Road	0 d in eastern	0.50K 0.00K Limestone County.	Thunderstorm Wi	nd (43EG)
	Note: Th	e estimated wir	nd gust of 43	knots is equ	uivalent to 49	mph.			
Madison County 3 NNW Maple Hill	10 Power lin	0015CST nes were knock	ed down jus	t east of Arc	0 Imore. A tree	0 e was also l	knocked down blocking a	Thunderstorm Win medical vehicle in	
		e estimated wir	nd gust of 52	knots is eq	uivalent to 60	mph.			
Madison County 2 NNW Lily Flag	10 Hail up to	0045CST o quarter size w	as reported a	at the interse	0 ection of Golf	0 Road and S	South Memorial Parkway.	Hail (1.00)	
Morgan County 1 NNW Huntsville Laceys Sp	10 Trees wer	0049CST re knocked dow	n on Arvida	Drive near	0 Sherbrook Di	0 rive.		Thunderstorm Wi	nd (52EG)
	Note: Th	e estimated wir	nd gust of 52	knots is eq	uivalent to 60	mph.			
Morgan County 2 SW Florette	10 A tree wa	0055CST as knocked dow	n on Peck M	Iountain Ro	0 ad near Gullia	0 an Farms.	0.50K	Thunderstorm Wi	nd (43EG)
	Note: Th	e estimated wir	nd gust of 43	knots is eq	uivalent to 49	mph.			
Cullman County 1 S Vinemont	10 Hail up to	0123CST o quarter size w	as reported i	n south Vin	0 emont.	0		Hail (1.00)	
DeKalb County 1 SE Beaty Xrds		0128CST rees were knock e estimated wir			0 uivalent to 60	0 mph.		Thunderstorm Wi	nd (52EG)
DeKalb County 1 NNE Crossville	10 Estimated	0128CST I wind gusts nea	ar 60 mph ar	nd dime size	0 d hail was rej	0 ported in the	e Crossville area.	Thunderstorm Wi	nd (52EG)
	Note: Th	e estimated wir	nd gust of 52	knots is eq	uivalent to 60	mph.			
Marshall County Arab	10 Thunders	0140CST torm wind gust	s of around (60 mph were	0 e estimated no	0 ear Arab.		Thunderstorm Wi	nd (52EG)
	Note: Th	e estimated wir	nd gust of 52	knots is eq	uivalent to 60	mph.			
DeKalb County 1 ESE Rainsville	10 A power	0148CST pole was knock	ed down ont	to a home in	0 the Rainsvill	0 le area.		Thunderstorm Wi	nd (52EG)

Location	Tin Loc Date Sta		Path Length (Miles)	Path Width (Yards)	Numb Person Killed		Estimated Damage Property Crops	Ma Character of Storm	arch 2017
			CO	RREC	TION	S			
ALABAMA, North	Alabama into t	he early mo	orning hou	irs of the 10	th. A few	of the thur		nd tracked east through n ge hail. Numerous repor sivalent to 60 mph.	
ALZ001-005	Lauderdale -	Limeston	e						
		00CST 00CST			0	0		Winter Weather	
	Light snow fell	across far n	orth Alaba	ıma along th	e Tennessee	border. Uj	to one inch was reporte	d in Lauderdale County.	
Jackson County 1 SE Bridgeport	21 142 Quarter sized h	26CST ail was repor	rted.		0	0		Hail (1.00)	
Jackson County 1 E Bridgeport	21 142 Penny sized hai	26CST il was report	ed.		0	0		Hail (0.75)	
Madison County 1 NW Hazel Green	21 163 Nickel sized ha	30CST il was report	ted 1.2 mil	les northwes	0 et of Hazel C	0 Green.		Hail (0.88)	
Jackson County 1 ESE Avery	21 164 Trees were kno	42CST cked down o	on highwa	y 117 north	0 heading into	0 Stevenson		Thunderstorm Wind (52	2EG)
	Note: The estir	nated wind g	gust of 52	knots is equ	ivalent to 60) mph.			
Jackson County 1 SE Bridgeport	Shingles were b				0	0		Thunderstorm Wind (52	2EG)
Morgan County 1 S Decatur	Note: The estir 21 16: Nickel sized ha	50CST		knots is equ	0	0 mpn.		Hail (0.88)	
Jackson County 2 NE Woodville		55CST		.7 miles no	0 rtheast of W	0 oodville.		Hail (0.75)	
Jackson County 1 NW Higdon	21 16: A steeple was k Note: The estir				0 ivalent to 70	0) mph		Thunderstorm Wind (6	1EG)
Morgan County	Note. The esti-	nated wind g	gust of of	Kilots is equ	ivalent to 70	трп.			
2 SSE Leesdale	21 170 Quarter sized h	04CST ail was repor	rted.		0	0		Hail (1.00)	
Marshall County 2 SW Guntersville	21 172 One inch diame	29CST eter hail was	reported 2	2.2 miles so	0 uthwest of G	0 Suntersville		Hail (1.00)	
Madison County 1 E Hazel Green	Quarter sized h	nderstorms	produced	a few repo	0 rts of large	0 hail and da	amaging winds in north	Hail (1.00) least Alabama during the	e late
Lawrence County 1 NNW Hillsboro	25 120	08CST winds knock	ed a large	tree down a	0 and blew do	0 wn multiple	e sheds at the intersection	Thunderstorm Wind (52 ns of Highway 20 and CR	

Time was estimated by radar.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width	Number Persons Killed In		Estimated Damage Property Crops	Character of Storm	March 2017
Location	Date	Standard		(Yards)		njured	Property Crops	Character of Storm	
ALABAMA, North					TIONS				
	hours. (iced a bow-e	cho segment	in Lawrence C	County th	orth Alabama during tl at knocked down a large h.		
Lauderdale County Petersville	27 Nickel s	1335CST ized hail was re	ported on Pa	tsy DRive in	0 the Forrest Hi	0 lls subdiv	ision in Florence.	Hail (0.88)	
Marshall County 1 SE Crossroads	27 Hail up	1341CST to half dollar siz	ed was repo	rted on Sprin	0 g Creek Drive	0 in Gunte	rsville.	Hail (1.25)	
Marshall County 2 NW Guntersville	27 Golf bal	1341CST l sized hail was	reported on	the east side	0 of Guntersville	0		Hail (1.75)	
Franklin County 2 SW Glasgow Corner	27 A funne	1436CST l cloud descende	ed from a wa	ıll cloud.	0	0		Funnel Cloud	
Franklin County Belgreen	27 Quarter	1445CST sized hail was n	neasured at t	he Franklin (0 County EOC in	0 Belgreei	ı.	Hail (1.00)	
Franklin County 1 WSW Vina	27 Quarter	1507CST sized hail was re	eported at the	e intersection	0 n of CR 23 and	0 Alabama	Highway 19 in Vina.	Hail (1.00)	
Lawrence County 1 NE Hatton	27 Quarter	1516CST sized hail was re	eported.		0	0		Hail (1.00)	
Lawrence County Hatton	27 Quarter	1516CST sized hail was re	eported.		0	0		Hail (1.00)	
Franklin County 2 WSW Glasgow Corner	27 Quarter	1526CST sized hail was re	eported at Li	ttle Bear Cre	0 ek Reservoir a	0 t Highwa	y 184 and William Holle	Hail (1.00) ow Road in Spruce I	Pine.
Cullman County 1 NW Wilburn	27 Quarter	1556CST sized hail was re	eported.		0	0		Hail (1.00)	
Cullman County Cold Spgs	27 Quarter	1559CST sized hail was re	eported.		0	0		Hail (1.00)	
Cullman County 6 SE Loretto	27 Half dol	1614CST lar sized hail wa	as reported.		0	0		Hail (1.25)	
Franklin County 1 SE Red Bay Muni Arpt	27 Quarter	1625CST sized hail was re	eported.		0	0		Hail (1.00)	
DeKalb County 1 E Collinsville	27 Power li	1755CST nes and trees we	ere knocked	down.	0	0		Thunderstorm W	ind (52EG)

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

		Time Local/	Path Length	Path Width	Perso		Estim Dama	ige	March 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
			CO	RREC	CTION	\mathbf{S}			
ALABAMA, North									
Dekalb County 4 E Rodentown		1755CST was damaged ne 'he estimated wi			0 uivalent to 6	0 60 mph	0.00K	0.00K	Thunderstorm Wind (52EG)
Marshall County			8			·			
1 E Douglas	27 Nickel s	1801CST sized hail was re	ported.		0	0			Hail (0.88)
Marshall County									
2 SSE Douglas		1806CST trees were knoc 'he estimated wi		knots is eq	0 uivalent to 6	0 60 mph.			Thunderstorm Wind (52EG)
Marshall County			C	1		1			
1 ENE Boaz	27 Quarter	1810CST sized hail was r	eported near l	Boaz.	0	0			Hail (1.00)
Lauderdale County 1 ESE Cloverdale	27 A tree v	1942CST vas knocked dov	vn across the	road at the i	0 intersection	0 of CR 118 a	nd CR 11.		Thunderstorm Wind (52EG)
	Note: T	he estimated wi	nd gust of 52	knots is eq	uivalent to 6	0 mph.			
Lauderdale County Center Star	27 Golf ba	2009CST ll sized hail was	reported.		0	0			Hail (1.75)
Lauderdale County 1 SE Center Star	27 Quarter	2011CST sized hail was r	eported.		0	0			Hail (1.00)
Colbert County 1 NE Cherokee	27 Quarter	2024CST sized hail was e	stimated near	· Cherokee	0	0			Hail (1.00)
Colbert County 1 N Cherokee	27	2026CST sized hail was re			0	0			Hail (0.88)
Colbert County 1 SE Line Kiln	on Natc	2030CST was knocked down hez Track Parky The estimated wi	way in Cherol	kee.			atchez Trace	Parkway.	Thunderstorm Wind (52EG) Trees were also knocked down
Colbert County 5 W Colbert Hgts	Clusters winds.		vere thunders ning, a squa						Hail (1.00) rge hail and isolated damaging st from Tennessee producing

ATLANTIC, Caribbean Sea and Tropical Atlantic

AMZ552	Volusia	a-Brevard County Line	e To Sebastian Inlet 0-20	0nm			
		1330EST thunderstorms developed al as a thunderstorm push		0 over nor	0.00K th Florida. Str	0.00K ong winds	Marine Thunderstorm Wind were recorded north of Cape
	23	0330EST	0	0	0.00K	0.00K	Marine Thunderstorm Wind
	23	0405EST	0	0	0.00K	0.00K	Marine Thunderstorm Wind
	23	0425EST	0	0	0.00K	0.00K	Marine Thunderstorm Wind
	23	0447EST	0	0	0.00K	0.00K	Marine Thunderstorm Wind
	23	0555EST	0	0	0.00K	0.00K	Marine Thunderstorm Wind
	23	0735EST	0	0	0.00K	0.00K	Marine Thunderstorm Wind

	Time Local/		Path Length	Path Width	Numb Persor		Estim Dama		March 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
ATLANTIC, Caribbean Sea	and Trop	ical Atlanti		RREC	TIONS	8				
	23	0758EST	<u>-</u>		0	0	0.00K	0.00K	Marine Thunderstorm Wind	
	23	0815EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind	
AMZ552-555	Sebastia	n Inlet To Ju	piter Inlet	0-20nm -	Volusia-B	revard Co	ounty Line	To Sebast	tian Inlet 0-20nm	
	23	0819EST 1210EST			0	0	0.00K	0.00K	Marine Thunderstorm Wind	
		orms over the							cattered to numerous strong bushed onshore the Space and	
FLORIDA, East Central										
Seminole County 3 WNW Slavia	22 A trained	1817EST spotter in Winte	er Springs re	ported penr	0 ny sized hail	0 during a str	0.00K ong thunders	0.00 K storm. Durat	Hail (0.75) ion unknown.	
Seminole County 2 W Gabriella	22 A resident	1830EST of Winter Park	north of SR	. 526 report	0 ed penny siz	0 ed hail duri	0.00K ng a strong tl	0.00K hunderstorm	Hail (0.75) n. Duration unknown.	
		eze collision co						ed isolated t	thunderstorms during the late	
Indian River County 1 SE (VRB)Vero Beach Muni		1217EST lio operator rec Avenue, as a se					0.00K n Vero Beach	0.00K n, falling nea	Hail (0.88) ar the intersection of Route 60	
Indian River County 2 SSE Gifford		1227EST of Vero Beach vere after mov				0 I hail fallin _!	0.00K g near the Ve	0.00K ero Beach Ce	Hail (1.25) ountry Club as a thunderstorm	
Indian River County 3 SE Vero Beach Airpark	thundersto		a mostly rui	al area just	west of Inte				Thunderstorm Wind (87EG) from ground level as a severe Photos of the damage suggest	
	Note: The	estimated win	d gust of 87	knots is equ	uivalent to 10	00 mph.				
St. Lucie County 9 WNW Ft Pierce Nelson Arp	23	1240EST 1242EST	0.96	30	0	0	2.00K	0.00K	Tornado (EF0)	
	Florida Tı	ırnpike. The da	mage occur	red as a sev	vere thunders	storm trave	led southwes	st from the	between Interstate 95 and the Vero Beach area and acquired t EF-1 damage (90-100 mph).	
St. Lucie County 12 W Ft Pierce Nelson Arp	into a rura		ucie County						Thunderstorm Wind (87EG) a severe thunderstorm crossed 68. Straight-line winds were	
	southwest	at 30 mph. Th	ne storm pro	duced larg	e hail in Ve	ro Beach,	then snapped	l four wood	ed severe storm as it moved len power poles west of Vero he cell acquired rotation and a	

brief tornado developed and damaged a power pole between Interstate 95 and the Florida Turnpike. Additional sporadic wind damage occurred to powerlines and a power pole near and southwest of the Florida Turnpike. Note: The estimated wind gust of 87 knots is equivalent to 100 mph.

		Time Local/	Path Length	Path Width	Num Perso	ber of	Estima			March 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Dama; Property	Crops	Character of Storm	
			CO	RREC	TION	S				
IDAHO, Southwest										
Ada County										
4 SE Barber	06	1000MST			0	0	0.0017	0.0017	T. 1	
1 SW Star	31	2359MST			0	0	0.00K	0.00K	Flood	
Ada County										
4 SE Barber	06	1000MST								
1 SW Star	31	2359MST			0	0	1.00M	0.00K	Flood	
	Boise R flows fo fight eff	iver in flood for r the extended p	the remaind eriod caused sed in the E	der of the mo I significant of agle Island a	onth of Mar damage to r area where	rch. Floodir nuch of the severe banl	ng was expecte Greenbelt and k erosion occu	ed to conti Nature Tr arred and a	ky Peak Reservoir p nue through late spri ail paths along the riv a pit capture threat e e.	ng. Flood er. Flood
Canyon County										
2 E Stoddard	06	1000MST								
3 SW Apple Vly	31	2359MST			0	0	250.00K	0.00K	Flood	
	Boise R		r the remain	der of the m	onth of Ma	arch. Flood	ing was expec		ky Peak Reservoir p tinue through late sp	
									ky Peak Reservoir p nue through late spri	
IDZ016	Wester	n Magic Vall	ey							
	06	1100MST 2300MST			0	0	0.00K	0.00K	Heavy Snow	
	A late w	inter storm hit p	arts of South	n Central Ida	ho with 4 to	6 inches of	f snow falling	around the	Jerome area.	
Washington County										
Washington County 7 NE Cambridge	08	0900MST								
	22	2200MST			0	0	2.00K	0.00K	Flood	
	Flooding	g occurred along	the Weiser	River from C	Cambridge t	o Weiser an	d surrounding	fields and	roads.	
	Doinfall	and snow melt of	and in ad to	in anaga tha	flore on the	Waisan Dir	van ta min an fla	and atoms		
	Kaiiiiaii	and snow men	combined to	merease me	now on the	Weisel Kiv	er to minor m	ou stage.		
Gem County										
2 W Plaza 2 ESE Emmett	17 22	0000MST 2200MST			0	0	0.00K	0.00K	Flood	
	E1 1:		4h - D44	D:						
	Flooding	g occurred along	the Payette	River around	i the Emme	tt, Idano are	ea and surroun	aing neids	and roads.	
Payette County										
8 ESE New Plymouth	17	0000MST								
	31	0600MST			0	0	2.00K	0.00K	Flood	
	Flooding	g occurred along	the Payette	River around	the Payett	e, Idaho are	a and surround	ling fields	and roads.	
	Rainfall	and snow melt of	combined to	increase the	flow on the	Payette Riv	ver to minor flo	ood stage.		
West to store C										
Washington County 3 ENE Feltham	18	0000MST								
3 W Weiser Arpt	31	2359MST			0	0	0.00K	0.00K	Flood	
	Flooding	g occurred along	the Snake F	River around	the Weiser	Idaho area	and surroundi	ng fields ar	nd roads.	
	- 1000111	,	,					g rus u		

Rainfall and snow melt combined to increase the flow on the Snake River to minor flood stage.

Time Path Path Number of Estimated											
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed		Dam Property		Character of Storm	March 201	
			CO	RREC	CTION	S	1 7	•			
OREGON, Southeast			CO			D					
Malheur County											
1 ESE (ONO)Ontario Arpt	10	0000MST									
	12	1400MST			0	0	0.00K	0.00K	Flood		
	Flooding	g occurred along	the Malheu	r River arou	and the Vale,	, Oregon are	ea and surrour	nding fields	and roads.		
	Rainfall	and snow melt of	combined to	increase the	e flow on the	Malheur R	iver to minor	flood stage	s.		
Harney County 1 SE Burns	17	1100PST									
- 2	27	1800PST			0	0	0.00K	0.00K	Flood		
	Flooding	g occurred along	the Silvies	River aroun	d the Burns,	Oregon are	a and surroun	ding fields	and roads.		
	Rainfall	and snow melt of	combined to	increase the	e flow on the	Silvies Riv	ver to minor fl	ood stage.			
Malkann Canata											
Malheur County 1 S Cairo	19	0000MST									
1 SW Morton	31	2359MST			0	0	0.00K	0.00K	Flood		
	Flooding	g occurred along	the Snake F	River around	the Ontario	, Oregon ar	ea and surrou	nding fields	s and roads.		
	Flooding	g occurred along	the Snake F	River around	l the Ontario	, Oregon ar	ea and surrou	nding fields	s and roads.		
TENNESSEE, South Centr	<u>al</u>										
Moore County	00	22.49.CCT			0	0			and it is a	W. 1 (50EC)	
1 E Chestnut Ridge	09 Multiple	2348CST e trees were know	cked down o	n Highway	0 231/Shelbyv	0 ille Highwa	ay.		Thunderstorm V	vina (52EG)	
	Note: T	he estimated wir	nd gust of 52) knots is ea	uivalent to 6	50 mph					
Moore County	Note. 1	ne estimated wit	nu gust of 32	kilots is eq	urvaient to c	oo mpii.					
4 ENE Chestnut Ridge	09	2350CST			0	0			Thunderstorm V	Vind (60EG)	
	-	trees were know The estimated win									
Moore County	Note. 1	ne estimated wit	nu gust of oc	Kilots is eq	urvaient to c	og mpn.					
2 ESE Chestnut Ridge	09	2352CST			0	0			Thunderstorm V	Vind (52EG)	
	-	trees were know The estimated win			•	50 mph					
Moore County	11010. 1	ne estimated wit	na gust of 52	ranots is eq	urvarent to c	oo mpii.					
1 SW Lois	09	2352CST			0	0			Thunderstorm V	Vind (52EG)	
	-	trees were know the estimated with		-		50 mph					
Moore County	11010. 1	ne estimated wit	na gust of 52	ranots is eq	urvarent to c	oo mpii.					
1 SW Lynchburg	09	2353CST			0	0			Thunderstorm V	Vind (52EG)	
	Multiple	e trees were know	cked down a	t 1506 Faye	tteville High	ıway.					
	Note: T	he estimated win	nd gust of 52	2 knots is eq	uivalent to 6	60 mph.					
Moore County											
1 WNW Lynchburg	09 Multiple	2355CST e trees were know	cked down a	t 347 Bucke	0 eve Loon Ro	0 ad.			Thunderstorm V	Vind (52EG)	
	-	he estimated win									
Moore County											
2 WSW Pleasant Hill	09	2355CST			0	0			Thunderstorm V	Vind (52EG)	

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

Stori	ГРа	ta anu	Onu	Suai	. VV Ca		1 nenon	П
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number Persons Killed l		Estimated Damage Property Crops	March 2 Character of Storm
			COR	RREC	ΓΙΟΝS	•		
TENNESSEE, South Central Moore County 2 E Pleasant Hill 3 NE Ridgeville	09	2355CST 2358CST	1.4	320	0	0		Tornado (EF1)
Ü	The torna west of Ed In Moore team. Nu along Tur debris sca	do continued in still Springs, TN County, betwee merous, healthy key Creek Loop	m determined a generally of N. on Turkey Cro s soft wood tro o were oriento	east-souther eek Loop ar ees were ei ed in a nort	ast direction and Turkey C ther uproote therly directi	into Frank reek Churc d or snappo ion (potent	th Road, significant treed. An area of convergially due to a develop	ast-northeast of Lynchburg, TN ting out approximately 4 miles be damage was observed by the ence was noted as several trees ng rear flank down draft) with a County were estimated to be
Moore County 1 NNE Lois	-	2356CST rees were knock e estimated wind		_	•	0 mph.		Thunderstorm Wind (52EG
Moore County 1 SSE County Line	-	2356CST rees were knock e estimated wind		•		•		Thunderstorm Wind (52EG
Franklin County 1 S Center Grove	09 Several tre	2358CST ees and power li	nes were kno	cked down	0 in Tullahom	0 a just north	of Tims Ford Lake.	Thunderstorm Wind (52EG
Moore County 2 NW Lynchburg	09 Multiple t	2358CST rees were knock e estimated wind	ted down at 1	15 Morris F	0 Hollow Road	0		Thunderstorm Wind (52EG
Franklin County 2 SW Center Grove	However, (undergoi (decreased the tornad areas furth It should be	the most intens ng rebuilding) a d due to the unk lo knocked down her east. be worth noting	e damage occurnd a mobile lanown quality in several more that the team	curred near home were of the chic te trees, before found num	the end of the completely eken house a ore gusting of the erous causes	ne track alo destroyed. nd unknow out, and cau s of straigh	ng Hurricane Rd and F Estimated wind speed on condition of the mo- using straight line wind	Tornado (EF0) ally in the strong EF-0 range Riddle Ln were a chicken house at this location was 100 MPH bile home). Further to the east a damage, along HWY 130 and tside of the estimated vortex of ge.
Moore County 1 WSW Hurdlow Moore County	Note: The	0000CST rees were knock e estimated wind		•	valent to 60	•		Thunderstorm Wind (52EG
Pleasant Hill	10 Multiple t	0002CST rees were knock	ted down at 2.	39 Hurricar	0 ne Creek Roa	0 nd.		Thunderstorm Wind (52EG

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numbe Person Killed		Estin Dama Property		March 2017 Character of Storm
			CO	RREC	TIONS	5			
TENNESSEE , South Central					71011	,			
Moore County 1 ESE County Line	-	0003CST trees were known e estimated win		•		•			Thunderstorm Wind (52EG)
Moore County 2 NNE Lois	10 Multiple t	0003CST crees were know	cked down a	t 2449 Winc	0 hester Highw	o vay.			Thunderstorm Wind (52EG)
Moore County 1 NNW Cumberland Spgs	10	e estimated win			0	0 mph.			Thunderstorm Wind (52EG)
Moore County 2 NE Ridgeville	10	0003CST		_	0	0			Thunderstorm Wind (52EG)
Moore County 1 N Ridgeville	10 Multiple t	0003CST crees were known e estimated win	cked down o	on Chestnut F	0 Ridge Road.	0			Thunderstorm Wind (52EG)
Moore County 1 SSE Lynchburg	10 Multiple t	0004CST trees were know	cked down a	t 5653 Winc	0 hester Highw	0 vay.			Thunderstorm Wind (52EG)
Moore County 1 NNE Pleasant Hill	10 Multiple t	0004CST crees were known e estimated win	cked down a	t 24 Patterso	0 n Road.	0			Thunderstorm Wind (52EG)
Moore County 1 E Pleasant Hill	10	0004CST		•	0	0	eek Road.		Thunderstorm Wind (52EG)
Moore County Ridgeville	10	e estimated win 0004CST trees were know		-	0	0			Thunderstorm Wind (52EG)
Moore County 1 NW Pleasant Hill	10 Multiple t	0004CST trees were known e estimated win	cked down a	t 1908 Cobb	0 Hollow Road	0 d.	0.00K	0.00K	Thunderstorm Wind (52EG)
Moore County 4 E Cumberland Spgs	-	0005CST crees were known			•				Thunderstorm Wind (52EG)
Moore County 1 NW Pleasant Hill	10	0005CST crees knocked o		•	0	0	homa. Severa	ıl roads are	Thunderstorm Wind (52EG) affected.

	D.	Time Local/	Path Length	Path Width	Per	mber of	Estimate Damage		March 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TENNESSEE, South Cent	ral		CO	RREC		ND CA			
Franklin County 2 SW Center Grove	10 A power	0006CST pole was knoone estimated w							Thunderstorm Wind (52EG)
Franklin County 2 S Center Grove	10	0008CST trees and power		•	0	0	orted.		Thunderstorm Wind (52EG)
Lincoln County 1 E Prospect	10 Nickle si A quasi- middle 1		eported in Par tive system d bugh the early	k City. eveloped ray morning l	0 npidly duri	0 ng the eveni			Hail (0.88) tracked east through southerned one EF-1 tornado and other
TNZ076-096-097	Frankli	in - Lincoln - 2100CST		winus.					
		0200CST ow fell across from one-half			0 see late on	0 the 11th int	o the early morn	ing hou	Winter Weather ars of the 12th. Most locations
Lincoln County 1 E Howell	21 Quarter s	1528CST sized hail was 1	reported.		0	0			Hail (1.00)
Moore County 1 W Lois	21 Golf ball	1556CST sized hail was	reported.		0	0			Hail (1.75)
Moore County 1 E Lynchburg	21 Quarter s	1600CST sized hail was i	reported.		0	0			Hail (1.00)
Lincoln County 1 E Fayetteville	21 A wides _I	1602CST pread area of tr	ees were kno	cked down (0 on Shelbyv	0 rille Highway	and along U.S.	431.	Thunderstorm Wind (52EG)
	Note: Tl	ne estimated w	ind gust of 52	2 knots is eq	uivalent to	60 mph.			
Franklin County 1 N Huntland		1613CST ere knocked do ne estimated w			0 uivalent to	0 60 mph.			Thunderstorm Wind (52EG)
Franklin County 1 E Belvidere 3 S Lakeview	21 Widespro	1613CST ead tree damag	ge was reporte	ed across the	0 southern h	0 nalf of Frankl	lin County.		Thunderstorm Wind (52EG)
Moore County 2 WNW Lois	21 Golf ball A swath	e late afternoo	reported.	winds with	0 speeds up	0 to 80 mph o			Hail (1.75) Moore, and Franklin Counties and also produced a few reports

		Time	Path Path Length Width		Number of Persons		Estimated Damage		April 2017	
Location	Date	Local/ Standard	(Miles)	(Yards)	Killed	ons Injured	Property	ge Crops	Character of Storm	
			CO	RREC	TION	S				
ALABAMA, Southwest										
Choctaw County										
Yantley	03	0250CST								
		0252CST			0	0	5.00K	0.00K	Thunderstorm Wind (52EG)	
	Winds e	stimated at 60 m	nph downed	trees and po	werlines on	Highway 10).			
	Note: T	he estimated wir	nd gust of 50	2 knots is ear	uivalent to 6	50 mph				
Choctaw County	11010. 1	ne estimated wit	na gust of 52	z knots is eq	arvarent to c	o inpii.				
Pennington	03	0325CST								
		0327CST			0	0	5.00K	0.00K	Thunderstorm Wind (52EG)	
	Winds e	stimated at 60 m	nph downed	trees and po	werlines on	Pine Grove	Road.			
	N. T	n 1 ·	1		. 1	50 1				
M.l.T. Come	Note: 1	he estimated win	na gust of 52	2 knots is eqi	iivalent to t	oo mpn.				
Mobile County 2 WSW Spring Hill	03	0455CST								
		0855CST			0	0	0.00K	0.00K	Heavy Rain	
	A total o	of 4.5 inches of r	ain measure	d at Stanky l	Field.					
Clarke County				,						
Thomasville	03	0455CST								
		0457CST			0	0	2.00K	0.00K	Thunderstorm Wind (52EG)	
		own in Highway								
	Note: T	he estimated win	nd gust of 52	2 knots is equ	uivalent to 6	60 mph.				
Clarke County Thomasville	03	0500CST			0	0	30.00K	0.00K	Lightning	
Thomasvine		ing strike caused	d a house fir	e along Finle			30.00K	0.00K	Lightning	
Mobile County Citronelle	03	0525CST								
Citolicie	03	0527CST			0	0	5.00K	0.00K	Thunderstorm Wind (61EG)	
	Winds e	stimated at 70 m	nh downed	several trees						
		he estimated win				70 mph.				
Clarke County										
Whatley	03	0545CST 0547CST			0	0	5.00K	0.00K	Thunderstorm Wind (61EG)	
		0547C51			Ü	O	3.00K	0.00K	Thunderstorm wind (01EG)	
		stimated at 70 m he estimated wir	•		-	/() mph				
Clarke County	riote. I	ne estimated wit	nd gust of o	r knots is eq	arvaicht to	o inpii.				
Manila	03	0600CST								
		0602CST			0	0	5.00K	0.00K	Thunderstorm Wind (61EG)	
	Winds e	stimated at 70 m	nph caused r	oof damage	to a home o	n Play Lane.				
	Note: T	he estimated wir	nd guet of 61	l knote je agi	uivalent to 1	70 mph				
Clarke County	Note. 1	ne estimated wit	nu gust of o	r Knots is equ	arvaicht to	o inpii.				
2 NW Gainestown	03	0615CST								
		0617CST			0	0	10.00K	0.00K	Thunderstorm Wind (61EG)	
	Winds e	stimated at 70 m	nph blew a p	orch off a ho	ouse on Wal	ker Springs	Road.			
	Note: T	ha actimated	nd quat of C	l knoto io o	ijvalant ta "	10 mph				
	Note. 1	he estimated win	na gust 01 01	i knois is eqi	arvaiciit to i	о шри.				

		Time				ber of	Estim		April 2017		
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	rge Crops	Character of Storm		
			CO	RREC	TION	S					
ALABAMA, Southwest			00		71011	D					
Mobile County											
Wilmer	03	0626CST									
		0628CST			0	0	0.00K	0.00K	Hail (1.00)		
Essemble Country											
Escambia County Flomaton	03	0655CST									
Tiomaton	03	0657CST			0	0	2.00K	0.00K	Thunderstorm Wind (52EG)		
	Winds	estimated at 60 n	nh downed	trace and no	war linge in	and around	Flomaton				
	Willus	estillated at 00 fi	ipii downed	trees and po	wer fiftes in	and around	r ioillatoii.				
	Note: T	The estimated wi	nd gust of 52	2 knots is eq	uivalent to 6	60 mph.					
Conecuh County											
Lenox	03	0700CST 0702CST			0	0	10.00K	0.00K	Thundarstonn Wind (50EC)		
		0702CS1			U	U	10.00K	0.00K	Thunderstorm Wind (52EG)		
	Winds estimated at 60 mph downed trees on a barn and a home.										
	Note: T	The estimated wi	nd gust of 52	2 knots is eq	uivalent to 6	60 mph.					
Conecuh County											
Evergreen	03	0707CST									
		0709CST			0	0	5.00K	0.00K	Thunderstorm Wind (52EG)		
	Winds e	estimated at 60 n	nph downed	multiple tree	es along CR	6 near CR2	8 and Appleto	on Road.			
	Note: T	The estimated wi	nd gust of 52) knots is ea	uivalent to 6	50 mph					
Escambia County	110101 1	The estimated with	are guot of the	- moto to eq	ar varein to o	, o mpm					
Brewton	03	0710CST									
		0712CST			0	0	5.00K	0.00K	Thunderstorm Wind (52EG)		
	Winds e	estimated at 60 n	nph downed	trees on CR	18 near Bre	wton.					
	Note: T	The estimated wi	nd gust of 50) Iznote is oa	uivalant to 6	60 mmh					
C	Note. 1	ne estimated wi	nu gust of 52	z kilots is eq	uivaient to o	o mpn.					
Conecuh County 4 ESE Evergreen	03	0727CST									
i Edd Evergreen	03	0729CST			0	0	5.00K	0.00K	Thunderstorm Wind (52EG)		
	W:			14:1 - 4	CD (T-1					
	winds	estimated at 70 n	ipn downed	muiupie tree	es on CR6 no	ear Jonnson	ville.				
	Note: T	The estimated wi	nd gust of 52	2 knots is eq	uivalent to 6	60 mph.					
Conecuh County											
5 NE Evergreen	03	0733CST			0	0	15.00K	0.00K	Thundanstone Wind (61EC)		
		0735CST			U	U	13.00K	0.00K	Thunderstorm Wind (61EG)		
			nph caused the	he roof of a	covered por	ch to collap	se and numer	ous tress w	ere blown over and snapped in		
	the area		nd over of 61	l Irmata ia aa	uivalant ta 7	70 mmh					
	Note: 1	The estimated wi	na gust of 61	knots is eq	uivaient to /	o mpn.					
Covington County South	03	0740CST									
South	03	0742CST			0	0	3.00K	0.00K	Thunderstorm Wind (52EG)		
	Winds e	estimated at 60 m	nh downed	trees and no	wer lines on	CR82 near	Buck Creek F	Rantist Chu	rch		
	Winds estimated at 60 mph downed trees and power lines on CR82 near Buck Creek Baptist Church.										
	Note: T	The estimated wi	nd gust of 52	2 knots is eq	uivalent to 6	60 mph.					
Crenshaw County	02	0752CCT									
Luverne	03	0752CST 0754CST			0	0	1.00M	0.00K	Thunderstorm Wind (78EG)		
					-	-					

		Time	Path	Path	Num	ber of	Estimated April 2				
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed		Damaş Property		Character of Storm		
ALABAMA, Southwest			COF	RREC	TION	S					
ALADAMA, Southwest	winds es significa major re	timated as high a nt shingle dama	as 90 mph. Sig ge. A few hor reatest damag	gnificant tre nes were al ge occurre	ee and pow so damage	er line dama d by fallen	ige was observ trees. A few b	ed in the cusinesses i	ed straight line winds city with a few homes in downtown Luverne oile home was pushe	suffering e suffered	
	Note: T	he estimated wir	nd gust of 78 k	nots is equ	ivalent to 9	0 mph.					
Crenshaw County 1 ESE Luverne	03	0754CST 0755CST	0.05	25	0	0	2.00K	0.00K	Tornado (EF0)		
		EF-0 tornado dev ingle damage.	veloped on Eas	st 1st Street	just north	of Highway	10. The torna	do uproote	ed a few trees and cau	sed some	
Mobile County 2 SE Big Creek Lake 1 NNW Mobile Aerospace Arp	03	0830CST 0930CST			0	0	0.00K	0.00K	Flash Flood		
	Flowing	water was repor	ted up to the t	ires of cars	on St. Jose	ph Street.					
		storms develope ak tornado.	d ahead of a s	trong cold t	front and m	oved across	the area. The	se storms p	produced high winds,	large hail	
Clarke County	0.5	0.00 4.000									
Dickinson	05	0736CST 0738CST			0	0	0.00K	0.00K	Thunderstorm Wir	nd (52EG)	
		stimated at 60 m he estimated wir	•								
Wilcox County Camden	05	0810CST			0	0	0.00K	0.00K	Hail (1.00)		
Wilcox County Camden	05 Thunder	0810CST storms moved ac	cross southwes	st Alabama	0 producing	0 high winds	0.00K and large hail.	0.00K	Hail (1.75)		
ALZ063-064	Lower	Baldwin - Lov	wer Mobile								
	30	1230CST 2000CST			0	0	0.00K	0.00K	Coastal Flood		
	Coast. T								across the north cer nor coastal flooding in		
ALZ061-063	Lower	Mobile - Uppe	er Mobile								
	30	1928CST 2359CST			0	0	15.0K	0.00K	Strong Wind		
	Strong w	vinds developed	behind a line of	of showers	and thunde	rstorms and	caused tree lin	nb damag	e and scattered power	outages.	
ATLANTIC, North											
ANZ534-536-543									nd Waters Surro ac Indian Hd To		
	06	1130EST 1212EST			0	0			Marine Thundersto	orm Wind	
ANZ535	Tidal P	otomac Key I	Bridge To In	ndian Hd	Md						
	06	1243EST 1244EST			0	0			Waterspout		

Location	Date	Time Local/ Standard	Length W	Path Number of Width Persons (Yards) Killed Injured		Estimated Damage Property Crops	April 2017 Character of Storm					
ATLANTIC, North			CORF	RECTION	S							
	06	1244EST		0	0		Marine Thunderstorm Wind					
	06	1244EST 1249EST		0	0		Marine Thunderstorm Wind					
	06	1248EST		0	0		Marine Thunderstorm Wind					
ANZ530>533-536> 539	Is To S Pataps	Chesapeake Bay N Beach To Drum Pt Md - Chesapeake Bay N Of Pooles Is Md - Chesapeake Bay Pt Is To Sandy Pt Md - Chesapeake Bay Sandy Pt To N Beach Md - Chester River To Queenstown Patapsco River Including Baltimore Harbor - Tidal Potomac Cobb Is Md To Smith Pt Va - Tidal Potomac Harbor - Tidal Potomac Cobb Is Md										
	06	1254EST 1642EST		0	0		Marine Thunderstorm Wind					
	Warm a	nd moist air fron t. Strong lift asso	n the south lead to	an unstable atmo	sphere. Ŝtro	ng shear profiles were in	ead on the occluded boundary. n place due to the cutoff low to h instability to produce severe					
ANZ536	Tidal I	Potomac India	n Hd To Cobb	Is Md								
	21	1553EST		0	0		Marine Thunderstorm Wind					
	21	1826EST		0	0		Marine Hail					
	21	1828EST 1838EST		0	0		Marine Thunderstorm Wind					
	21	1836EST		0	0		Marine Thunderstorm Wind					
ANZ537	Tidal I	Potomac Cobb	Is Md To Smi	th Pt Va								
	21	1838EST 1843EST		0	0		Marine Thunderstorm Wind					
ANZ533	Chesaj	peake Bay N B	Seach To Drum	Pt Md								
	21	1849EST		0	0		Marine Hail					
	21	1852EST		0	0		Marine Thunderstorm Wind					
ANZ537-540	Easter	n Bay - Tidal l	Potomac Cobb	Is Md To Smit	h Pt Va							
	21	1900EST 1930EST		0	0		Marine Thunderstorm Wind					
	A cold f	ront moved thro	ugh the area Ahe	ad of the boundary	a southwes	st flow led to warm and h	numid conditions. The unstable					

A cold front moved through the area. Ahead of the boundary, a southwest flow led to warm and humid conditions. The unstable atmosphere from warm and humid conditions along with stronger winds aloft caused some storms to produce gusty winds.

DISTRICT OF COLUMBIA

District of Columbia 1 S Bolling Afb

06 1241EST 1243EST 1.56 25 0 1 Tornado (EF0)

The National Weather Service in Baltimore MD/Washington DC has confirmed an EF-0 tornado initiating in Joint Base Anacostia Bolling and continuing into Anacostia DC on April 6, 2017. On the two mile path, the weak tornado caused several small and midsized trees to be snapped and uprooted on base in a convergent manner. Flags were stripped off their posts in the central roundabout. A large soccer net was thrown from the athletic field. Shingle damage was noted to one of the buildings. As the tornado crossed over Interstate 295 it likely lifted off the ground. Trees were snapped higher up on the trunks on the hill just east of the interstate. An apartment complex was unroofed on Stanton Rd SE. Media reported one person was injured by flying drywall.

	ъ.	Time Local/	Path Length	Path Width	Perso		Estimated Damage	April 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
DISTRICT OF COLUMBIA			COI	KKEC	TION	3		
District of Columbia 1 NW Bolling Afb 1 NNE US Capitol	06	1242EST 1245EST	2.98	50	0	0		Tornado (EF0)
	Here, mul and/or we on the sou parking lo The last d	Itiple large soft re uprooted are uthwest side of ot of the Tidal	Itwood and hound the Tida I the Tidal B Basin Marind I to the NW	ardwood t d Basin. W asin, the n a.	rees, includ hile some n nost concen	ing several ninor tree da trated dama	ornamental cherry tree amage was evidenced ne age was in the grove of	approximately 1:41 PM EDT. es, had large branches downed at the George Mason Memorial trees directly adjacent to the esection of North Capitol and I
District of Columbia 1 N Brookland	Warm and the west. I thundersto	d moist air from	the south leaciated with the tornadoes	ad to an un he develop	stable atmo	sphere. Ŝtro	ng shear profiles were i	nead on the occluded boundary. In place due to the cutoff low to the instability to produce severe Hail (1.00)
District of Columbia 2 N Brookland	21 There was	1558EST s damage to roo	f shingles of	a house at	0 the 300 Blo	0 ck of Hamil	0.00K 0.00K ton Street Northeast.	Thunderstorm Wind (50EG)
	Note: The	e estimated win	d gust of 50 l	knots is equ	uivalent to 5	8 mph.		
District of Columbia 2 N Brookland	21 Quarter si	1602EST zed hail was re	ported.		0	0		Hail (1.00)
District of Columbia 2 SW National Arboretum	A cold fro		igh the area.				st flow led to warm and aloft caused some storn	Hail (1.00) humid conditions. The unstable as to become severe.
FLORIDA, West Panhandle								
FLZ006	Coastal	Okaloosa						
	04 Dangerous	1030CST s surf and rip co	arrent conditi	ons along t	1 the northwes	0 st Florida pa	0.00K 0.00K unhandle beaches resulte	Rip Current d in one fatality. M49IW
Santa Rosa County 1 NE Navarre	struck his using the	home. Two ot phone lines.	her individu	als were tr	ansported to	o the hospit	al after lightning struck	Lightning n a metal chair when lightning their facility while they were frequent lightning. Two strikes

resulted in a few injuries.

		Time	Path	Path	Nur	Number of Estimated		ited		April 2017
		Local/	Length	Width	Persons		Damage			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

CORRECTIONS

GULF OF MEXICO	GULF	OF	MEXICO
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GULF OF MEXICO											
GMZ633-634	Pensa	cola Bay Area Including S	Santa Rosa Sound - F	Perdido E	Bay Area						
	03	0847CST 0852CST	0	0	0.00K	0.00K	Marine Thunderstorm Wind				
GMZ634	Pensa	cola Bay Area Including S	Santa Rosa Sound								
	03	0913CST	0	0	0.00K	0.00K	Waterspout				
GMZ631	South Mobile Bay										
	03 Thunde	0938CST erstorms moved across the man	0 ine area and produced hi	0 gh winds.	0.00K	0.00K	Marine Thunderstorm Wind				
GMZ634	Pensa	cola Bay Area Including S	Santa Rosa Sound								
	05 Strong	1122CST thunderstorms resulted in stror	0 ng, gusty winds across po	0 ortions of t	0.00K he coastal wa	0.00K ters or Alab	Marine Thunderstorm Wind bama and northwest Florida.				
GMZ630-633-655	Coastal Waters From Destin Fl To Pensacola Fl Out 20 Nm - North Mobile Bay - Perdido Bay Area										
	30	1622CST 2250CST	0	0	0.00K	0.00K	Marine Thunderstorm Wind				
GMZ634	Pensa	cola Bay Area Including S	Santa Rosa Sound								
	30	2323CST	0	0	0.00K	0.00K	Marine High Wind				
GMZ630	North	Mobile Bay									
	30 Strong	2357CST storms resulted in several insta	0 unce of strong wind gusts	0 s across the	0.00K e coastal water	0.00K rs of Alaba	Marine Thunderstorm Wind ma and northwest Florida.				
IDAHO, Southwest											
Ada County 4 SE Barber 2 SW Star	01 30	0000MST 2359MST	0	0	1.00M	0.00K	Flood				
	Planne	d releases from Lucky Peak Ro	eservoir for flood contro	ol ranged fo	rom 7800 CE	S to 8900 C	CFS during the month of April				

Planned releases from Lucky Peak Reservoir for flood control ranged from 7800 CFS to 8900 CFS during the month of April. The prolonged flood flows continued to cause extensive damage to the Greenbelt and Nature Trail paths. Flood waters inundated portions of Eagle Island, particularly along Artesian Road and Hatchery Road. Numerous homes in Riviera Estates were surrounded by water. Flood fight efforts continued to focus in the Eagle Island area with extensive sandbagging taking place. Additional flood fight efforts to mitigate a pit capture continued along the Eagle Island south channel of the river. Flood diversion tubes and muscle wall barriers were used to limit river encroachment on the sandpit. Large sections of Ann Morrison Park, Marianne Williams Park, and Barber Park were flooded. Some residential streets adjacent to the river had water on them, especially in the Garden City Warehouse District.

Canvon County 2 ENE Stoddard 1 WSW Apple Vly

0000MST 01 2359MST

0 500.00K 0.00K Flood

Planned releases from Lucky Peak Reservoir for flood control ranged from 7800 CFS to 8900 CFS during the month of April. The prolonged flood flows caused extensive damage along the river banks and widespread flooding of lowlands.

Flooding continued for the entire month of April on the Boise River as a result of flood control efforts by the U.S. Army Corps of Engineers.

*	ъ.	Time Local/	Path Length	Path Width	Numb Perso	ns	Estim Dama	ige	Cl	April 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
IDAHO, Southwest			COR	RREC	TION	S					
Gooding County											
3 NNE Gooding	01 07	0000MST 0900MST			0	0	250.00K	0.00K	Flood		
	Wood R Extensi portions business	River. Magic Reserve flooding of agrees of County Road	rvoir filled to ricultural land 1700 South, were surround	capacity s d occurred 1800 Eas	sending larg I and severa t, and 1950	e flows ove l county roa East were i	r the spillway ads were inur inundated wi	and down dated with th water an	nificant flooding along tiver through Gooding (water. Just north of God damaged. A few honds occurred in the coun	County. ooding, nes and	
	Floodin	g on the Big Wood	1 River from	snow melt	occurred in	East Centra	al Gooding C	ounty.			
Washington County Weiser	01 02	1930MST 2330MST			0	0	0.00K	0.00K	Flood		
	Floodin	g continued from	the previous r	nonth of N	March along	the Snake I	River in south	ern Washii	ngton County near Weis	ser.	
	Flooding continued from the previous month of March along the Snake River in southern Washington County near Weis Flooding continued from the previous month of March along the Snake River in southern Washington County.										
	Floodin	g continued from	ne previous r	nonth of P	viaren along	tne Snake i	Kiver in south	ern wasnii	igton County.		
MARYLAND, Central											
Prince George's County 1 SE Oak Crest	06	1242EST 1542EST			0	0	5.00K	0.00K	Flood		
	There w	as a car stranded i	n high water	on Brock	Bridge Road	1.					
	Warm a		the south lea	d to an ur	stable atmo				ead on the occluded bo led to heavy rain at tin		
Prince George's County 1 E Forestville		1246EST gust of 66 mph wa	-	nots is equ	0 nivalent to 6	0 6 mph.			Thunderstorm Wind	(57MG)	
Montgomery County											
1 ESE Georgetown Jct	06 A tree v	1247EST was down on a ligh	it pole along (Colesville	0 Road near C	0 Georgia Ave	enue.		Thunderstorm Wind	(52EG)	
Driver Converts County	Note: 1	he estimated wind	l gust of 52 ki	nots 1s equ	iivalent to 6) mph.					
Prince George's County 1 NNE Riverdale		1250EST gust of 68 mph wa			0	0			Thunderstorm Wind	(59MG)	
	Note: T	The measured wind	l gust of 59 ki	nots is equ	ivalent to 6	8 mph.					
Prince George's County 2 ENE Collington		1300EST ere down near Bo			0	0			Thunderstorm Wind	(52EG)	
	Note: T	he estimated wind	l gust of 52 ki	nots is equ	ivalent to 6	0 mph.					
Prince George's County 1 ENE Collington	06 Five lar	1302EST ge trees were dow	n in the neigh	borhood o	0 off of Moyla	0 n Drive.			Thunderstorm Wind	(52EG)	
	Note: T	The estimated wind	l gust of 52 k	nots is equ	ivalent to 6	0 mph.					
Montgomery County 1 SE Clopper	06	1303EST sized hail was rep		1	0	0			Hail (1.00)		

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Persor Killed		Estimated Damage Property Crops	April 2017 Character of Storm
			, ,			,	respectly crops	
MARYLAND, Central			CO	KKEC	CTIONS	•		
Prince George's County								
2 ENE Collington	06	1303EST			0	0		Thunderstorm Wind (52EG)
	Trees wer	re down on pow	er lines as v	well as house	es and cars in	the area o	f Milan Way.	
	Note: The	e estimated wir	nd gust of 52	2 knots is equ	uivalent to 60) mph.		
Prince George's County								
1 NNE Mitchellville	06	1305EST			0	0		Thunderstorm Wind (51MG)
	_	ts of 59 mph we e measured wir	_) mnh		
Dald:	Note. The	e measured win	iu gust of 51	i kilots is eqi	iivaieiit to 55	тири.		
Baltimore County 1 N Bare Hills	06	1330EST			0	0		Thunderstorm Wind (52EG)
	A roof wa	as blown off an	apartment b	ouilding.	-			()
	Note: The	e estimated wir	nd gust of 52	2 knots is equ	uivalent to 60) mph.		
Anne Arundel County								
1 N (BWI)Baltmor-Wshngtn	06 A wind or	1332EST	vas renorted	at the Baltir	0 nore Washin	0 gton Interi	national Airport.	Thunderstorm Wind (50MG)
	71 WING SC	ast of 50 mpn v	vas reported	at the Barth	nore washin	gion mien	ational / inport.	
	Note: The	e measured wir	nd gust of 50) knots is equ	uivalent to 58	3 mph.		
Baltimore County								
1 NNW White Marsh	06	1340EST ust of 66 mph re	amoutad maan	u White Mea	0	0		Thunderstorm Wind (57MG)
	_	e measured wir	_			ó mph.		
Harford County						·		
1 SSW Van Bibber	06	1344EST			0	0		Thunderstorm Wind (52EG)
		re down along I			-			
	Note: The	e estimated wir	nd gust of 52	2 knots is equ	uivalent to 60) mph.		
Harford County Aberdeen	06	1351EST			0	0		Thursdaystown Wind (52EC)
Aberdeen		l onto a house a	long Hillma	an Court.	U	U		Thunderstorm Wind (52EG)
	Note: The	e estimated wir	nd gust of 52	2 knots is equ	uivalent to 60) mph.		
Harford County								
2 SSE Weide Aaf Arpt	06	1351EST	. 1	1 d A	0	. 0	1	Thunderstorm Wind (56MG)
	A wind gi	ust of 64 mph w	vas reported	along the A	berdeen Prov	ing Grour	d.	
	Note: The	e measured wir	nd gust of 56	6 knots is equ	uivalent to 64	l mph.		
Harford County								
2 WNW Havre De Grace	06	1352EST			0	0		Thunderstorm Wind (50EG)
		s were down in e estimated wir				2 mph		
Harfard Carry	Note. The	e estillated wil	id gust of 50) Kilots is eqi	iivaieiii to 30	э шри.		
Harford County 3 ESE Aberdeen Proving Grn	06	1400EST			0	0		Thunderstorm Wind (60MG)
		ust of 69 mph w	vas reported	at the Abero				
	N (T)	1 .	1	21	. 1 66	. 1		
	Note: The	e measured wir	ia gust of 60) knots is eqi	uivalent to 69	mpn.		
Harford County 1 E Short Lane	06	1405EST			0	0		Thunderstorm Wind (52EG)
1 E Short Lane		s trees and bran	ches were d	lown near Ph	-			Thunderstorm wind (32EG)
	Note: The	e estimated wir	nd gust of 52	2 knots is equ	uvalent to 60) mph.		
Harford County	06	1406EST			0	0		Thundaretorm Wind (51MC)
Phillips Aaf Arpt		ust of 59 mph v	vas reported	near Perryn		U		Thunderstorm Wind (51MG)
	Cutoff lov	w pressure was	over the Ol	hio Valley. A	Another area			head on the occluded boundary.
								n place due to the cutoff low to

the west. Strong lift associated with the developing low combined with strong shear and enough instability to produce severe thunderstorms. Note: The measured wind gust of 51 knots is equivalent to 59 mph.

		Time Local/	Path Length	Path Width	Pers		Estim Dama	age	April 2017		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
MARYLAND, Central			CO	RRE	CTION	S					
Baltimore County 1 SSW Glencoe	06	1539EST 2002EST			0	0	0.00K	0.00K	Flood		
		el peaked at 9.17 feet at 17:30 coe Road.									
	Cutoff low pressure was over the Ohio Valley. Another area of low pressure strengthened overhead on the occluded Warm and moist air from the south lead to an unstable atmosphere. Showers and thunderstorms led to heavy rain a led to a river gauge reaching flood stage in northeast MD.										
Montgomery County 1 N Georgetown Jct	20 A large t	1910EST tree was down n	ear the inters	section of L	0 inden Lane	0 and Warren	Street.		Thunderstorm Wind (52EG)		
Prince George's County Adelphi	20	he estimated wi 1915EST al damage was r		•	0	0	Road.		Thunderstorm Wind (52EG)		
Prince George's County Adelphi	20	he estimated wi 1915EST cree fell onto a c		•	0	0			Thunderstorm Wind (52EG)		
Montgomery County 3 ESE Glen	became		he unstable	atmosphere	e. Note: Th	e estimated			he area. A few thunderstorms is equivalent to 60 mph. Thunderstorm Wind (52EG)		
Montgomery County 2 NNE Carderock Spgs	21 Several Road.	he estimated wi 1536EST large tree branc he estimated wi	hes and wire	es were bloo	0 cking the en	0 tire road ne	ar the intersec	ction of Sev	Thunderstorm Wind (52EG) ven Locks Road and Bells Mill		
Montgomery County Bethesda	21	1540EST tree branches we			0	0	and Drive.		Thunderstorm Wind (50EG)		
Montgomery County Luxmanor	21	he estimated wi 1542EST sized hail was re) knots is eq	uivalent to 5	58 mph. 0			Hail (1.00)		
Montgomery County 1 W Parkside	21 Tree bra	1542EST nches were dow	n at the inter	rsection of I	0 Montrose Av	0 venue and W	Veymouth Stre	eet.	Thunderstorm Wind (52EG)		
Montgomery County 1 W Parkwood	21	he estimated wi 1543EST I wires were dow			0	0			Thunderstorm Wind (52EG)		
	Note: T	he estimated wi	nd gust of 52	knots is eq	uivalent to (50 mph.					

Location	Date	Time Local/	Path Length (Miles)	Path Width (Yards)	Pe	umber of ersons	Estin Dam:	age	April 2017 Character of Storm
Location	Date	Standard		RREC	Killed	Injured	Property	Crops	Character of Storm
MARYLAND, Central			CO	KKL	110	No			
Montgomery County Kensington Estates	21 Trees an	1543EST d wires were do	own partially	blocking the	0 e intersec	0 tion of Univer	rsity Boulevar	d West and	Thunderstorm Wind (52EG) Connecticut Avenue.
	Note: T	he estimated wi	ind gust of 52	knots is eq	uivalent t	o 60 mph.			
Montgomery County 1 NNE Woodhaven	21 Tree bra	1543EST nches were dov	vn on the left	shoulder of	0 the Capit	0 al Beltway.			Thunderstorm Wind (52EG)
	Note: T	he estimated wi	ind gust of 52	knots is eq	uivalent t	o 60 mph.			
Montgomery County 1 W Parkwood	21 A tree w	1543EST as down blocki	ng the Inner	Loop of the	0 Beltway	0 near Maryland	1 355.		Thunderstorm Wind (52EG)
	Note: T	he estimated wi	ind gust of 52	knots is eq	uivalent t	o 60 mph.			
Montgomery County 1 SW Parkwood	U	1544EST ree was uproot he estimated wi		! knots is eq	0 uivalent t	0 o 60 mph.			Thunderstorm Wind (52EG)
Montgomery County 2 W Georgetown Jct	21	1546EST ll onto a house			0	0			Thunderstorm Wind (52EG)
	Note: T	he estimated wi	ind gust of 52	knots is eq	uivalent t	o 60 mph.			
Montgomery County 2 NNW Friendship Hgts	21 Ping por	1547EST ag ball sized hai	il was reporte	d.	0	0			Hail (1.50)
Montgomery County 2 WSW Georgetown Jct	21 A tree fe	1547EST	along the 850	0 Block of	0 Lynwood	0 Place.			Thunderstorm Wind (52EG)
	Note: T	he estimated wi	ind gust of 52	knots is eq	uivalent t	o 60 mph.			
Montgomery County 1 W Georgetown Jct	21 Quarter	1549EST sized hail was r	eported.		0	0			Hail (1.00)
Montgomery County 2 SW Northwest Park	21 Quarter	1552EST sized hail was r	eported at Pi	ney Branch	0 Road.	0			Hail (1.00)
Montgomery County Georgetown Jct	21 Half dol	1552EST lar sized hail wa	as reported at	National W	0 eather Se	0 rvice Headqu	arters.		Hail (1.25)
Montgomery County 1 NNW Takoma Park	21 Half dol	1553EST lar sized hail w	as reported.		0	0			Hail (1.25)
Montgomery County 1 N Takoma Park	21 Half dol	1553EST lar sized hail w	as reported.		0	0			Hail (1.25)
Montgomery County 1 N Takoma Park	21 A half de	1553EST ozen large trees	were uproote	ed along the	0 800 Bloc	1 k of Jackson	Avenue. One	njury was	Thunderstorm Wind (52EG) reported.

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		Time	Path	Path	Numbe		Estim		April 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Persons Killed	s Injured	Dama Property	nge Crops	Character of Storm
			CO	RREC	CTIONS	l)			
MARYLAND, Central									
Montgomery County 1 NNW Takoma Park	21 Golf ball	1554EST sized hail was	reported.		0	0			Hail (1.75)
Montgomery County 1 NNW Takoma Park	21 Trees and	1554EST d wires were do	own blocking	g the intersec	0 ction of Carrol	0 l Avenue	and Grant Av	enue.	Thunderstorm Wind (52EG)
	Note: Tl	he estimated wi	nd gust of 52	2 knots is eq	uivalent to 60	mph.			
Montgomery County 1 NNE Takoma Park	21 A tree fe	1554EST Il into a house :	at the 1100 E	Block of Mer	0 wood Drive.	0			Thunderstorm Wind (52EG)
	Note: Th	he estimated wi	nd gust of 52	2 knots is eq	uivalent to 60	mph.			
Montgomery County 1 NNW Takoma Park	21 A tree fe	1554EST ll onto a house	at the 300 B	lock of Etha	0 n Allen Avenu	0 ie.			Thunderstorm Wind (52EG)
	Note: Th	he estimated wi	nd gust of 52	2 knots is eq	uivalent to 60	mph.			
Montgomery County 1 NNW Takoma Park	21 Quarter s	1555EST sized hail was r	eported.		0	0			Hail (1.00)
Prince George's County Branchville	21 Quarter s	1603EST sized hail was r	eported.		0	0			Hail (1.00)
Prince George's County Landover	21 Quarter s	1612EST sized hail was r	eported.		0	0			Hail (1.00)
Prince George's County 1 SW Upper Marlboro	21 Large tre	1637EST ees were down	on power line	es near the in	0 ntersection of	0 Route 4 a	nd Old Crain 1	Highway.	Thunderstorm Wind (52EG)
	Note: Tl	he estimated wi	nd gust of 52	2 knots is eq	uivalent to 60	mph.			
Prince George's County Wells Corner	21 Half doll	1644EST ar sized hail wa	as reported.		0	0			Hail (1.25)
Calvert County North Beach	-	1849EST sized hail was r	•		0	0			Hail (1.00)
									humid conditions. The unstable as to become severe.
MISSISSIPPI, Southeast									
Perry County 4 NNE Janice	03	0404CST 0406CST			0	0	8.00K	0.00K	Thunderstorm Wind (61EG)
	Brooklyı	stimated at 70 in Road and Higher estimated wi	hway 29.				29 at Paret To	ower Road.	Trees also down at Beaumont
Greene County 1 SSW Neely	03	0435CST 0437CST	na gust 01 0.	- mioto 15 Cq	0	0	10.00K	0.00K	Thunderstorm Wind (61EG)
	Road.	stimated at 70	•	•	•	·	oad. Three por	wer poles v	were also downed on Herndon

Containing Con			Time	Path	Path		ber of	Estin		April 2017				
MISSISSIPPI, Southeast Greene County 8 NNE Leakesville	Location	Date	Local/ Standard	Length (Miles)	Width (Yards)					Character of Storm				
MISSISSIPPI, Southeast Greene County 8 NNE Leakesville				CO	RREC	TION	S							
Note: The estimated at 60 mph downed trees and power lines on Highway 57 between Leakesville and (52EG) Note: The estimated wind gust of 52 knots is equivalent to 60 mph. Stone County 8 WSW Perkinston 03 0445CST 0 0 0 5.00K 0.00K Thunderstorm Wind (52EG) Winds estimated at 60 mph downed trees. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. George County Agricola 03 0610CST 0 0 0 0.00K 0.00K Hail (1.00) Thunderstorm Wind (52EG) O612CST 0 0 0 0.00K 0.00K Hail (1.00) Thunderstorms developed ahead of a strong cold front and moved across the area. These storms to display which caused damage across southeast Mississippi. OREGON, Southeast Malheur County 1 NE Ontario 10 1930MST 0 0 0 0.00K 0.00K Flood Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in ea	MISSISSIPPI, Southeast			CO	MILL	11011	D							
Winds estimated at 60 mph downed trees and power lines on Highway 57 between Leakesville and State Line. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. Stone County 8 WSW Perkinston 03 0445CST		03												
Note: The estimated wind gust of 52 knots is equivalent to 60 mph. Stone County 8 WSW Perkinston 03 0445CST 0447CST 0 0 5.00K 0.00K Thunderstorm Wind (52EG) Winds estimated at 60 mph downed trees. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. George County Agricola 03 0610CST 0 0 0 0.00K 0.00K Hail (1.00) Thunderstorms developed ahead of a strong cold front and moved across storms broduced high winds, which caused damage across southeast Mississippi. OREGON, Southeast Malheur County 1 NE Ontario Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River near Ontario, Oregonage County Orange County Orange County Orange County Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1127EST 0 0 0 Thunderstorm Wind (53MG) A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph.			0442CST			0	0	5.00K	0.00K	Thunderstorm Wind (52EG)				
Stone County 8 WSW Perkinston 03 0445CST 0447CST 0 0 0 5.00K 0.00K Thunderstorm Wind (52EG) Winds estimated at 60 mph downed trees. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. George County Agricola 03 0610CST 0612CST 0 0 0 0.000K 0.00K Hail (1.00) Thunderstorms developed ahead of a strong cold front and moved across the area. These storms produced high winds, which caused damage across southeast Mississispip. OREGON, Southeast Malheur County 1 NE Ontario Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River near Ontario, Oregonage County Orange County Orange County Office County 1 N Unionville 06 1127EST 0 0 0 Thunderstorm Wind (53MG) A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST		Winds 6	estimated at 60 m	ph downed t	rees and pov	wer lines on	Highway 5	7 between Le	akesville aı	nd State Line.				
8 WSW Perkinston 0447CST 0447CST 0 0 5.00K 0.00K Thunderstorm Wind (52EG) Winds estimated at 60 mph downed trees. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. George County Agricola 03 0610CST 0612CST 0 0 0 0.00K 0.00K Hail (1.00) Thunderstorms developed ahead of a strong cold front and moved across the area. These storms produced high winds, which caused damage across southeast Mississippi. OREGON, Southeast Malheur County 1 NE Ontario 101 1930MST 02 2330MST 0 0 0 0.00K 0.00K Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River in Thunderstorm Wind (53MG) A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 66 1129EST		Note: T	The estimated wir	nd gust of 52	knots is equ	ivalent to 6	60 mph.							
George County Agricola 03 0610CST 0 0 0 0.00K 0.00K Hail (1.00) Thunderstorms developed ahead of a strong cold front and moved across the area. These storms produced high winds, which caused damage across southeast Mississippi. OREGON, Southeast Malheur County 1 NE Ontario 01 1930MST 02 2330MST 0 0 0.00K 0.00K Flood Flooding continued from the previous month of March along the Snake River in eastern wall-tur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River near Outstario, Ortagio. Flooding continued from the previous month of March along the Snake River near Outstario, Ortagio. Flooding continued from the previous month of March along the Snake River near Outstario, Ortagio. Flooding continued from the previous month of March along the Snake River near Outstario, Ortagio. Flooding continued from the previous month of March along the Snake River near Outstario, Ortagio. Flooding continued from the previous month of March along the Snake River near Outstario, Ortagio		03				0	0	5.00K	0.00K	Thunderstorm Wind (52EG)				
Agricola 03 0610CST 0612CST 0 0 0 0.00K 0.00K Hail (1.00) Thunderstorms developed ahead of a strong cold front and moved across the area. These storms produced high winds, which caused damage across southeast Mississippi. OREGON, Southeast Malheur County 1 NE Ontario 01 1930MST 02 2330MST 0 0 0.00K 0.00K Flood Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River near Ontario, Oregon. VIRGINIA, North Orange County Orange Co Arpt 06 1127EST 0 0 0 Thunderstorm Wind (53MG) A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST														
Caused damage across southeast Mississippi. OREGON, Southeast Malheur County 1 NE Ontario 01 1930MST 02 2330MST 0 0 0 0.00K 0.00K Flood Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River near Ontario, Oregonate County Orange County Orange Co Arpt 06 1127EST 0 0 0 Thunderstorm Wind (53MG) A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST	•	03				0	0	0.00K	0.00K	Hail (1.00)				
Malheur County 1 NE Ontario 01 1930MST 02 2330MST 0 0 0 0.00K 0.00K Flood Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River near Ontario, Oregon. VIRGINIA, North Orange County Orange Co Arpt 06 1127EST 0 0 0 Thunderstorm Wind (53MG) A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST														
1 NE Ontario 01 1930MST 02 2330MST 0 0 0 0.00K 0.00K Flood Flooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River near Ontario, Oregon. VIRGINIA, North Orange County Orange Co Arpt 06 1127EST 0 0 0 Thunderstorm Wind (53MG) A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST	OREGON, Southeast													
Plooding continued from the previous month of March along the Snake River in eastern Malheur County from Nyssa to Ontario. Flooding continued from the previous month of March along the Snake River near Ontario, Oregon. PIRGINIA, North Orange County Orange Co Arpt Of any the measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville Of 1129EST Of the measured wind gust of 53 knots is equivalent to 61 mph.	Malheur County													
Ontario. Flooding continued from the previous month of March along the Snake River near Ontario, Oregon. VIRGINIA, North Orange County Orange Co Arpt 06 1127EST A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST	1 NE Ontario					0	0	0.00K	0.00K	Flood				
VIRGINIA, North Orange County Orange Co Arpt 06 1127EST 0 0 0 A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST				m the previo	ous month o	of March al	long the Sn	ake River in	eastern M	alheur County from Nyssa to				
Orange County Orange Co Arpt 06 1127EST 0 0 0 A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST		Floodin	g continued from	the previous	s month of M	March along	the Snake	River near Or	ntario, Oreg	on.				
Orange Co Arpt 06 1127EST 0 0 0 A wind gust of 61 mph was reported. Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST Thunderstorm Wind (53MG)	VIRGINIA, North													
Note: The measured wind gust of 53 knots is equivalent to 61 mph. Orange County 1 N Unionville 06 1129EST						0	0			Thunderstorm Wind (53MG)				
Orange County 1 N Unionville 06 1129EST														
1 N Unionville 06 1129EST	Orange County	11010. 1	The measured wil	ia gust of 33	Knots is eqt	iivaiciii iO O	, i inpii.							
	1 N Unionville	06		2.63	175	0	0			Tornado (EF0)				

The National Weather Service in Baltimore MD/Washington DC has confirmed a tornado near Unionville in Orange County Virginia on April 6, 2017.

The tornado caused extensive convergent tree damage intermittently along its path, along with some minor structural damage. The first instances of uprooted and snapped trees occurred near the intersection of Everona Road and Deertrail Lane. The tornado continued north-northeast, causing additional tree damage on Signal Hill Lane.

The most extensive impacts occurred along US Route 522 near Ida Mae Lane, where many of the trees in the concentrated path of the tornado were either snapped or uprooted in differing directions. At least two trees fell on structures. Metal roofing and siding were removed from a business on the sides of the building opposing storm motion. Some of this material was lofted and landed in a yard 0.4 miles away. The wall of an outbuilding was displaced several inches off its foundation. Several homes received minor damage to shingles, gutters, and siding. Two residents in this area witnessed the tornado and observed debris being lofted and swirling in the air. The survey concluded that this concentrated tornadic damage was embedded within a larger area of very strong straight-line winds, as numerous trees were downed in unidirectional fashion along a 0.7 mile stretch of US 522.

The next observable damage occurred on Pine Stake Road near Clover Hill Farm Lane. Trees were downed in a convergent pattern along a narrow path, and a wooden fence sustained damage. The tornado lifted after this point, as no further damage was observed to the north- northeast.

The National Weather Service would like to thank the Orange County Emergency Management Agency and the residents interviewed for their assistance in this survey.

Number of Path April 2017 Time Path Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Killed Injured Crops Character of Storm Location **CORRECTIONS** VIRGINIA, North **Orange County** 1 ENE Thornhill 1133EST 0 0 Thunderstorm Wind (52EG) 06 Multiple trees more than one foot in diameter were down. Structural damage was reported from wind and a barn was also Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Culpeper County** 1 ESE Winston 1135EST Thunderstorm Wind (52EG) Numerous trees were down and a small shed was destroyed. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Orange County** 1 SE Locustgrove Thunderstorm Wind (52EG) 1136EST Numerous trees were snapped and uprooted in the 31000 Block of Deep Meadow Lane. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Culpeper County** 1 WSW Stevensburg 1143EST 0 Thunderstorm Wind (52EG) Trees were down in Stevensburg. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Culpeper County** Alanthus 0 0 Thunderstorm Wind (52EG) Trees were down and a roof was damaged to a house near the intersection of Alanthus Road and Farley Road. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Culpeper County** Richardsville 1145EST Thunderstorm Wind (52EG) Trees were down on power lines in Richardsville. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fauquier County** 1 WNW Remington 1150EST Thunderstorm Wind (52EG) Trees were down in Remington. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fauquier County** 3 S Midland Warrenton Ar Thunderstorm Wind (52EG) Numerous trees and power lines were down along Summerduck Road near Maryann Lane. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fauquier County** 1 WNW Goldvein 1151EST Thunderstorm Wind (52EG) Trees were down in the Block of Sumerduck Road. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fauquier County** 1151EST Remington Thunderstorm Wind (52EG) Part of a roof was torn off on East Main Street. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fauquier County** 4 W Oak Shade 1152EST 0 Thunderstorm Wind (52EG) 06 Seven large Oaks were down on property. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fauquier County** 1 N Goldvein Thunderstorm Wind (52EG) 06 1152EST

230

Several trees were downed and snapped near Sillamon road and Clovers Oak Lane.

5101	in Data and Chusual Weather Then	Jinena
Location	Time Path Path Number of Estimated Local/ Length Width Persons Damage Date Standard (Miles) (Yards) Killed Injured Property Cre	April 2017 ops Character of Storm
VIRGINIA, North	CORRECTIONS	
Fauquier County 3 W Oak Shade	06 1153EST 0 0 Trees were down and a barn was collapsed in the 11000 Block of Cemetery Road.	Thunderstorm Wind (52EG)
	Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	
Fauquier County 1 ESE Morrisville	06 1154EST 0 0 Trees were down near the intersection of Goldmine Road and Blackwood Forest Drive.	Thunderstorm Wind (52EG)
	Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	
Fauquier County 1 ESE Morrisville	06 1154EST 0 0 Trees were down near Morrisville. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	Thunderstorm Wind (52EG)
Fauquier County 2 SW Opal	06 1154EST 0 0 Trees were down. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	Thunderstorm Wind (52EG)
Fauquier County	110te. The estimated while gust of 32 kilous is equivalent to 60 mph.	
Opal	06 1156EST 0 0 Several trees were down in Opal. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	Thunderstorm Wind (52EG)
Fauquier County 1 N Somerville Hartwood	06 1156EST 0 0 0 A metal roof was damaged and several trees were down or snapped.	Thunderstorm Wind (52EG)
	Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	
Fauquier County 1 ENE Somerville	06 1158EST 0 0 Trees were down in the 2000 Block of Aquia road. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	Thunderstorm Wind (52EG)
Fauquier County 1 WSW Turnbull	06 1158EST 1159EST 0.86 50 0 0	Tornado (EF0)
	The National Weather Service in Baltimore MD/Washington DC has confirmed a tornado County Virginia on April 6, 2017. An extensive area of tree damage was noted along a several mile long path in west-central this straight- line wind damage was a small concentrated area of convergent tree damage c	southwest of Warrenton in Fauquier Fauquier County. Embedded within
	A row of trees just north of Harts Mill Road was blown down towards the west-northwest of the road were snapped and fell towards the northeast. A similar pattern of tree da Woodbourne Lane a quarter mile to the northeast, where several dozen hardwood trees we the east but a couple fell towards the west. Further southwest and to the northeast of the tornadic damage, hardwood and softwood to all falling to the northeast over a nearly mile-wide swath, indicating straight-line wind day the brief to good to go the northeast over a nearly mile-wide swath, indicating the swate wind the brief to go the northeast over a nearly mile-wide swath, indicating straight-line wind day the brief to go the northeast over a nearly mile-wide swath, indicating the nearly mile wind day the nearly mile wind	amage was found at a residence on the uprooted, mainly falling towards trees were snapped and uprooted but
	line wind damage was more severe than that caused by the brief tornado. The National Weather Service would like to thank the Fauquier County Emergency Mainterviewed for their assistance in this survey.	nagement Agency and the residents
Fauquier County Cromwell	06 1159EST 0 0 0 A Greenhouse was destroyed in the 7000 Block of Tacketts Mill Road.	Thunderstorm Wind (52EG)
	Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	
Fauquier County 1 E Warrenton Arpt	06 1200EST 0 0 An outbuilding was destroyed. A large tree and branches were also down through the exte	Thunderstorm Wind (52EG) rior wall of a house on Donnybrook
	N. (F) (1 1 1 1 1 6501 4 1 1 1 1 60 1	

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Num Perso Killed	ber of ons Injured	Estim Dama Property		Character of Storm	April 2017
			CO	RREC	TION	S				
VIRGINIA, North										
Fauquier County										
1 S Dudie	06	1202EST			0	0			Thunderstorm Wind	l (52EG)
	Numerous trees were down along Waterloo Farm Road.									

Fauquier County 1 S Bethel 2 WSW Broad Run

06 1208EST

1214EST 0.86 75 0

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

The National Weather Service in Baltimore MD/Washington DC has confirmed a tornado near Airlie in Fauquier County Virginia on April 6, 2017.

Tornado (EF0)

The tornado caused a nearly continuous path of convergent tree damage. Large to mid sized trees were snapped and uprooted. The most intense of which was the result of estimated wind speeds of 85 mph that snapped several large trees on Airlie Road between Artillery Road and The Rainforest Trust. The first trees downed were noted just west of US 17. After crossing Airlie Road, the tornado snapped and uprooted trees all along Blantyre Road. Continuous damage stopped just prior to Interstate 66. The National Weather Service would like to thank the Fauquier County Emergency Management Agency and the residents interviewed for their assistance in this survey.

Fauquier County New Baltimore

06 1208EST 1210EST 0.86 75 0 0 Tornado (EF0)

The National Weather Service in Baltimore MD/Washington DC has confirmed a tornado near New Baltimore in Fauquier County Virginia on April 6, 2017.

The tornado caused a continuous path of extensive tree damage, along with some minor structural damage. The first instances of uprooted and snapped trees occurred just northwest of the intersection of Lee Highway and Electric Avenue. The tornado continued north-northeast, generally along Beverlys Mill Road, causing additional damage to just north of Fairview Lane.

Extensive tree damage was found along the tornados path, where many hardwood and softwood trees were either snapped, topped or uprooted in a convergent pattern. Several trees fell on vehicles. Wooded fences were blown down in several locations along its path. A roof was partially removed from a barn. Other metal roofing was removed from smaller outbuildings. Several sheds were either destroyed or severely damaged. Most homes in the path had minor damage to shingles, gutters and siding.

Two residents in the area witnessed the tornado with debris being lofted.

The National Weather Service would like to thank Fauquier County Emergency Management Agency and the residents interviewed for their assistance in this survey.

Fauquier County 3 E Auburn

06 1209EST 0 0 Thunderstorm Wind (52EG) Dozens of trees were down near Greenwich.

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

King George County
1 W King George

06 1210EST 0 0 Thunderstorm Wind (52EG)

Trees were down in King George along Route 301. One tree fell into a house.

		Time	Path	Path		ber of	Estim			April 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	rge Crops	Character of Storm	
			CO	RREC	TION	S				
VIRGINIA, North					11011	D				
Prince William County 2 SW Canova		1211EST s down on a po			0	0			Thunderstorm Wind	d (52EG)
D. William C.	Note: The	e estimated wir	na gust of 52	z knots is equ	iivaient to 6	0 mpn.				
Prince William County 3 NNW Nokesville		1212EST e down near B e estimated win		2 knots is equ	0 nivalent to 6	0 0 mph.			Thunderstorm Wind	i (52EG)
Prince William County										
Minnieville		1213EST onto power line e estimated win		2 knots is equ	0 nivalent to 6	0 0 mph.			Thunderstorm Wind	i (52EG)
Prince William County										
2 SW Wellington		1214EST e down on Suc e estimated win	-		0 nivalent to 6	0 0 mph.			Thunderstorm Wind	1 (52EG)
Prince William County				1						
1 SE Hoadly		1214EST onto power line e estimated win		-		0 0 mph			Thunderstorm Wind	1 (52EG)
Prince William County	rvote. The	e estimated wit	nd gust of 52	z knots is equ	iivaicht to o	o mpn.				
Independent Hill	_	1215EST ust of 59 mph ve e measured win	_	_		0 9 mph.	0.00K	0.00K	Thunderstorm Wind	1 (51MG)
Prince William County			Ü	1		1				
1 S Hoadly		1215EST ne tree was sna e estimated win			0 uivalent to 6	0 0 mph.			Thunderstorm Wind	i (52EG)
Prince William County			8			F				
2 W Woodbridge		1215EST onto power line e estimated win		2 knots is equ	0 uivalent to 6	0 0 mph.			Thunderstorm Wind	i (52EG)
Prince William County				-		-				
2 NW Occoquan		1218EST onto a house.	nd gust of 50) knots is ear	0 uivalent to 6	0 0 mph			Thunderstorm Wind	1 (52EG)
Prince William County	Tiote. The	e estimated wit	na gust of 52	z knots is equ	iivaient to o	o mpm.				
1 N West Gate Of Lomond	06 A tree fell	1218EST onto power lin	nes blocking	; Lomond Dr	0 ive near Po	0 whatan Stree	t.		Thunderstorm Wind	1 (52EG)
	Note: The	e estimated wir	nd gust of 52	2 knots is equ	ivalent to 6	0 mph.				
Prince William County			Ü	1		1				
1 NNE Woodbridge Arpt		1219EST onto a house a e estimated win) knots is ear	0 givalent to 6	0 0 mph			Thunderstorm Wind	i (52EG)
Loudoun County	Note. The	c estimated wit	nu gust of 52	z knots is eqt	iivaiciii to o	o mpn.				
1 ESE Arcola Glascock Arpt	06 Trees wer	1221EST e down just no	orth of the In	tersection of	0 Bull Run P	0 ost Office Ro	oad and U.S.	29 Lee Hig	Thunderstorm Windghway.	i (52EG)
	Note: The	e estimated wir	nd gust of 52	2 knots is ear	ivalent to 6	0 mph.				
Manassas (c) County			<i>G.</i> 0.2			г "				
1 E Manassas		1221EST ast of 59 mph ve e measured win			0	0 0 mph			Thunderstorm Wind	1 (51MG)
	note: The	z measureu Wii	nu gust 01 3	i kiiois is eqi	iivaiciii 10 3	э шри.				

Path April 2017 Time Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Killed Injured Crops Character of Storm Location **CORRECTIONS** VIRGINIA, North Fairfax County 1 WSW Fairfax Station 1224EST 0 0 Thunderstorm Wind (52EG) 06 A large tree was down blocking part of Southbound Fairfax County Parkway near the intersection of Burke Center Parkway. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. Fairfax County 1 SE Floris 1227EST Thunderstorm Wind (52EG) A tree was uprooted. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Loudoun County** 2 ESE Arcola Glascock Arpt 1227EST Thunderstorm Wind (52EG) A tree fell onto a car. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fairfax County** 1 W Annandale Thunderstorm Wind (52EG) 1229EST A large tree fell onto a house splitting it in half. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Loudoun County** 2 S Arcola Glascock Arpt Thunderstorm Wind (52EG) About two dozen trees were snapped near the intersection of Gum Spring road and Lennox Hale Drive. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fairfax County** 1 ESE Ilda 1230EST 0 Thunderstorm Wind (52EG) A tree fell onto a house. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fairfax County** 1 NNW North Springfield 1231EST 0 Thunderstorm Wind (52EG) Several trees were down on Philip road. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Fairfax County** 1 SW Herndon Hgts 1234EST 06

A path of sporadic damage, mainly to trees, began just east of Rock Hill Road in between the Dulles Greene and Capstone apartment complexes in Herndon. About a half dozen trees here were either snapped or uprooted in a convergent pattern. One of the trees was thrown into the window of a nearby apartment building.

0

Tornado (EF0)

The National Weather Service would like to thank Fairfax and Loudoun County Emergency Management Agency and the residents interviewed for their assistance in this survey.

The tornado continued north-northeast, where additional tree damage was noted near the intersections of Summerfield Drive and Autumn Breeze Court, and Sterling Road (VA-606) and Herndon Parkway. Several trees were downed from east to west, and fencing was blown down north to south.

It appears the tornado lifted briefly as it continued north-northeast, before touching down again near the intersection of Crestview Drive and Builders Road. Here, nearly a dozen trees were snapped or uprooted, mainly to the north, with fencing blown down towards the trees (to the west).

Fairfax County

1 S Herndon 06 1235EST 0 0 Thunderstorm Wind (52EG)

2.5

0

A tree was down at the Courtyard Hotel in Herndon.

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

1.91

1237EST

Fairfax County

2 NE Herndon Hgts 06 1237EST 0 0 Thunderstorm Wind (52EG)

Several small trees were snapped at the Sugarland Run Stream Valley Park in Herndon.

		Time	Path	Path	Number of		Estimated			April 2017
		Local/	Length	Width	Persons		Damage			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

CORRECTIONS

VIRGINIA, North

Loudoun County
2 ESE Sterling
1 SSW Broad Run Farms

06 1237EST 1238EST

1.29

25

Tornado (EF0)

Additional minor and sporadic tree damage was noted in a north-northeastward path, with several trees snapped and uprooted and an instance of siding damage noted by a trained spotter just east of South Lincoln Avenue. The tornado likely lifted for a final time just northeast of the intersection of East Frederick Drive and Sugarland Road in Sterling Park.

The National Weather Service would like to thank Fairfax and Loudoun County Emergency Management Agency and the residents interviewed for their assistance in this survey.

Arlington County

1 ENE Arlington 06 1238EST 0 0 Thunderstorm Wind (52EG)

Several tree and power poles were snapped.

Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

Arlington County
2 SW South Washington

06 1239EST

1242EST 1.93 50 0

Tornado (EF0)

Trees were snapped along Interstate 395 adjacent to Army-Navy Country Club at approximately 1:39 PM EDT. Video of a portion of the Pentagon Parking Lot showed a vortex cross between two light poles, ripping off one lamp from the top of the poles. Additional video from the Pentagon showed two rope-like funnel clouds form at the same time, although it could not be determined from the video whether these funnels touched the ground or were attached to the cloud base. Video from the National Park Service National Mall and Memorial Parks showed a waterspout over the Potomac River west of the Tidal Basin; however, it is not clear the vertical extent of this waterspout and whether it was sourced from the cloud base, or an independent vortex associated with the gust front.

Cutoff low pressure was over the Ohio Valley. Another area of low pressure strengthened overhead on the occluded boundary. Warm and moist air from the south lead to an unstable atmosphere. Strong shear profiles were in place due to the cutoff low to the west. Strong lift associated with the developing low combined with strong shear and enough instability to produce severe thunderstorms and isolated tornadoes.

Rockingham County
1 ENE Mechanicsville

20 1555EST 0 0 0 Hail (1.00)

Quarter sized hail was reported.

High pressure was centered to the south and this allowed warm and moist air to move into the area. An isolated thunderstorm became severe due to the unstable atmosphere.

King George County 1 NNW Weedonville

21 1803EST 0 0 Thunderstorm Wind (52EG)

Trees were down on Trailors.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Person Killed		Estimated Damage Property Crops	Character of Storm	April 20
			CO	RRFC	CTIONS		1 3 1		
VIRGINIA, North			CO	IXIL		,			
King George County Edgehill	21	1805EST	1 12 1 7	'1 A.T.	0	0		Thunderstorm Win	d (52EG)
		e down throug					nown over.		
	Note: The	e estimated wir	nd gust of 52	knots is eq	uivalent to 60	mph.			
King George County 1 WSW Allnut		1805EST Ill trees were de holes in the F			0 Minivan and a	0 another tre	ee fell onto a Back De	Thunderstorm Winck. Two sheds were dam	
	Note: The	e estimated wii	nd gust of 52	knots is eq	uivalent to 60	mph.			
King George County 1 WSW Allnut		1805EST s blown off a s		•		0 mph.		Thunderstorm Win	d (52EG)
King George County									
Edgehill	21 Trees and	1806EST power lines w	ere down ne	ar the inters	0 ection of Lak	0 eview Dri	ve and VA 205.	Thunderstorm Win	d (52EG)
	Note: The	e estimated win	nd gust of 52	2 knots is eq	uivalent to 60	mph.			
King George County				•		•			
1 SSW Ninde		1810EST			0	0		Thunderstorm Win	d (50EG)
Vina Casasa Casasta	Note. The	e estimated wii	nu gust of 50	Kilots is eq	urvaient to 3e	mpn.			
King George County 1 SSE Ninde	21 Two trees	1817EST were down ne	ar the Inters	ection of V	0 A 205 and V <i>A</i>	0 218.		Thunderstorm Win	d (52EG)
	atmospher		and humid co	onditions alo	ong with stron			nd humid conditions. The orms to become severe. N	
Frederick County									
2 W Gore	30 Several tro	1537EST ees were snapp	ed and upro	oted near the	0 e intersection	0 of Hollow	Road and Parishville	Thunderstorm Win Road.	d (52EG)
	Note: The	e estimated wir	nd gust of 52	knots is eq	uivalent to 60	mph.			
Frederick County 2 NNE Rock Enon Spgs	30	1538EST	1 COO DI 1	s c	0	0		Thunderstorm Win	d (50EG)
		s down in the 1 e estimated wir		-		mph.			
Frederick County									
2 SW Gore	_	1538EST trees were up				0		Thunderstorm Win	d (50EG)
	Note: The	e estimated wir	nd gust of 50) knots is eq	uivalent to 58	mph.			
Frederick County 1 ESE Gore	30 A tree was	1544EST s down on eith	er side of Hi	ghway 50 ju	0 ast north of G	ore.		Thunderstorm Win	d (50EG)
	unstable a		m warm and	l humid con	ditions along	with stro		varm and humid condition to be some storms to be com	

Path Path Number of April 2017 Time Estimated Local/ Standard Length (Miles) Width Persons Damage (Yards) Injured Date Property Character of Storm Location

CORRECTIONS

WEST VIRGINIA, East

WVZ501-505 Western Grant - Western Pendleton 06 1800EST 07 1500EST 0 0 Winter Weather A cold northwest wind picked up moisture from the Great Lakes and deposited it in the form of snow for locations along and west of the Allegheny Front. **Hampshire County** 2 N Pleasantdale 0 30 1518EST Thunderstorm Wind (52EG) A tree was down near the intersection of Bloomery Pike and Hoy Road. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Hampshire County** 1 WNW Hoy 1519EST 0 Hail (1.50) Ping pong ball sized hail was reported. **Hampshire County** 1530EST 2 NE Bubbling Spg 0 Thunderstorm Wind (52EG) A large tree was down on lines. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Hampshire County** 1 ENE Capon Bridge 1534EST Thunderstorm Wind (52EG) Numerous trees were down in multiple directions and Power poles were snapped on Settlers Lane. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Hampshire County** 1 E Capon Bridge 30 1536EST Thunderstorm Wind (52EG) A tree was down on Northwestern Turnpike near Bear Garden Trail. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Hampshire County** 1 E Capon Bridge 1536EST Thunderstorm Wind (52EG) Two trees were down on Cold Stream Road between Capon School Street and Settlers Lane. Note: The estimated wind gust of 52 knots is equivalent to 60 mph. **Hampshire County** 1 ESE Cold Stream 0 30 1537EST 0 Thunderstorm Wind (50EG) A tree was down on Cold Stream Road near Allen Lane. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. **Hampshire County** 1 ESE Capon Bridge 30 1541EST 0 0 Hail (1.00) Quarter sized hail was reported.

unstable atmosphere from warm and humid conditions along with stronger winds aloft caused some storms to become severe.

A warm front stalled over the area. A southerly flow behind the boundary allowed for warm and humid conditions. The

		Local/	Length	Width	Perso	me	Damag	70	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
			CO	RREC	TION	S			
IDAHO, Southwest			CO		11011	D			
Ada County Barber	01	0000MST							
barber	31	2359MST			0	0	2.00M	0.00K	Flood
									n Lucky Peak dam. Regulated Nature Trail paths. Extensive
									g continued on Eagle Island in
									re inundated. Large portions of
									ters. Some residential streets on Eagle Island. A pit capture
	occurred	l just downstrear	m of Eagle Is	sland causin	ig a major sl	hift in the ri	ver channel. S	treets in th	ne Stonebriar development just
		eam of the High problems in the					ere bank erosi	on and lar	ge trees washed into the river
	eddsed j	orocionio in the		or and at 50.	are orrage e	1000111601			
Canyon County									
Middleton 2 W Maddens	01 31	0000MST			0	0	750 00V	0.001	Eland
2 w Maddens	31	2359MST			U	U	750.00K	0.00K	Flood
									n Lucky Peak dam. Regulated
	flows w	ere above flood	stage for 10	1 days resu	lting in exte	ensive bank	erosion and fl	looding of	lowlands along the river.
	The Boi	se River continu	ed to be in fl	ood during t	the entire me	onth of May	due to planne	d release a	ıt Lucky Peak.
	1110 201			ood daring		onur or 1.14.	due to planne		a zacity realit
Canyon County									
Parma	05	0500MST							
7 NE Parma Arpt		0530MST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	Social m	nedia reported a	60 foot tall B	Blue Spruce	tree was upr	ooted near l	Parma.		
		1	1.1 1				cc .		1 1
		g upper 10w mo							hunderstorms across parts of
Gem County					C			1	
Emmett	07	0745MST							
1 NE Emmett Lanham Arpt	08	0915MST			0	0	0.00K	0.00K	Flood
	The Day	atta Dizzan at Em	matt maaalaad	l minou food	ataon due t	a amarı malt			
	The Pay	ette River at Em	men reached	i illillor 1000	stage due ti	o snow men	. .		
Elmore County									
Anderson	07	1025MST							
	15	1100MST			0	0	100.00K	0.00K	Flood
	The Dei	oo Diwar naar Ar	darcan raaal	and minor fo	od stage du	o to snow m	aalt A numbar	of country	and Forest Service roads were
	damage		iderson react	ieu iiiiioi ie	ou stage uu	ie to snow n	ien. A number	of county	and Potest Service toads were
Boise County									
21 SE Garden Vly	07	1050MST							
·	15	1100MST			0	0	100.00K	0.00K	Flood
	The Mic	ldla fark of the	Doigo Divor	noor Atlanta	roochod m	inar food st	taga dua ta sa	ary malt. A	number of county and Forest
		roads were dam		near Atlanta	i reached in	illoi 100u st	lage due to sin	ow men. A	ilumber of county and Potest
Gooding County									
Gooding	07	2325MST							
ē .	16	1130MST			0	0	100.00K	0.00K	Flood

Rapid snowmelt in the high elevations of the Big Wood Basin sent high flows over the spillway of Magic Reservoir causing flooding downstream in Gooding County. Agricultural land and low lying roads were impacted by the high water around the town of Gooding.

Spring snow melt flooding occurred across much of Southwest Idaho as a result of an above normal snow pack for the winter of 2016 to 2017.

CORRECTIONS LAKE ERIE LEZ020-041 Dunkirk To Buffalo Ny - Upper Niagara River 01	r of Storm
LEZ020-041 Dunkirk To Buffalo Ny - Upper Niagara River 01	
LEZ020-041 Dunkirk To Buffalo Ny - Upper Niagara River 1 1400EST 1430EST 0 0 0 0.00K Marine A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 44 knots at Dunkirk and 41 knots at Buffalo. 18 2240EST 0 0 0 0.00K Marine 18 2246EST 0 0 0 0.00K Marine A thunderstorm crossing Lake Erie produced three-quarter inch hail and wind gusts measured to 34 knots at LAKE ONTARIO LOZ042-044 Niagara River To Hamlin Beach Ny - Sodus Bay To Mexico Bay Ny 1 1455EST 1648EST 0 0 0 0.00K Marine A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 37 knots at Youngstown and 52 knots at Oswego.	
01 1400EST 1430EST 0 0 0 0.00K Marine A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 44 knots at Dunkirk and 41 knots at Buffalo. 18 2240EST 0 0 0 0.00K Marine 18 2246EST 0 0 0 0.00K Marine A thunderstorm crossing Lake Erie produced three-quarter inch hail and wind gusts measured to 34 knots at LAKE ONTARIO LOZ042-044 Niagara River To Hamlin Beach Ny - Sodus Bay To Mexico Bay Ny 01 1455EST 1648EST 0 0 0 0.00K Marine A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 37 knots at Youngstown and 52 knots at Oswego.	
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front produced winds gusting to 44 knots at Dunkirk and 41 knots at Buffalo. 18 2240EST 0 0 0 0.00K Marine 18 2246EST 0 0 0 0.00K Marine A thunderstorm crossing Lake Erie produced three-quarter inch hail and wind gusts measured to 34 knots at LAKE ONTARIO LOZ042-044 Niagara River To Hamlin Beach Ny - Sodus Bay To Mexico Bay Ny 01 1455EST 0 0 0 0.00K Marine A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 37 knots at Youngstown and 52 knots at Oswego.	Thunderstorm Wind
18 2246EST 0 0 0 0.00K Marine A thunderstorm crossing Lake Erie produced three-quarter inch hail and wind gusts measured to 34 knots at LAKE ONTARIO LOZ042-044 Niagara River To Hamlin Beach Ny - Sodus Bay To Mexico Bay Ny 01 1455EST	ns just ahead of the
LAKE ONTARIO LOZ042-044 Niagara River To Hamlin Beach Ny - Sodus Bay To Mexico Bay Ny 01 1455EST 1648EST 0 0 0 0.00K Marine A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 37 knots at Youngstown and 52 knots at Oswego.	Hail
LOZ042-044 Niagara River To Hamlin Beach Ny - Sodus Bay To Mexico Bay Ny 01 1455EST	Thunderstorm Wind
LOZ042-044 Niagara River To Hamlin Beach Ny - Sodus Bay To Mexico Bay Ny 1 1455EST 1648EST 0 0 0 0.00K Marine A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 37 knots at Youngstown and 52 knots at Oswego.	Dunkirk.
01 1455EST 0 0 0 0.00K Marine A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 37 knots at Youngstown and 52 knots at Oswego.	
A strong cold front moved across the region during the afternoon and evening hours. A line of thunderstor front produced winds gusting to 37 knots at Youngstown and 52 knots at Oswego.	
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front produced winds gusting to 37 knots at Youngstown and 52 knots at Oswego.	Thunderstorm Wind
LOZ044-045 Mexico Bay Ny To The St Lawrence River - Sodus Bay To Mexico Bay Ny	ns just ahead of the
28 1305EST 1325EST 0 0 0 0.00K Marine	Hail
Thunderstorms crossing Lake Ontario produced three-quarter inch hail near North Pond and Fair Haven.	
NEW YORK, West	
Chautauqua County 3 ESE Sherman 01 1403EST 0 0 10.00K 0.00K Thunder Thunderstorm wind downed trees on Stedman-Sherman Road. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	rstorm Wind (52EG)
Chautauqua County 1 SW Willow Brook 01 1406EST 0 0 10.00K 0.00K Thunder Thunderstorm wind downed trees on Lakeside Drive. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	estorm Wind (52EG)
Chautauqua County Ellery Center 01 1413EST 0 0 10.00K 0.00K Thunder Law enforcement reported trees and wires downed by thunderstorm winds.	estorm Wind (52EG)
Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	
Chautauqua County 2 SE South Stockton 01 1418EST 0 0 10.00K 0.00K Thunder Note: The measured wind gust of 68 knots is equivalent to 78 mph.	estorm Wind (68MG)
Cattaraugus County Versailles 01 1420EST 0 0 10.00K 0.00K Thunder Spotters reported trees and wires downed by thunderstorm winds.	rstorm Wind (52EG)
Note: The estimated wind gust of 52 knots is equivalent to 60 mph.	
Erie County Collins 01 1429EST 0 0 10.00K 0.00K Thunder Law enforcement reported trees downed by thunderstorm winds in Collins.	

	Time Local/		Path Length	Path Width	Perso		Estima Dama	ge	May 2017		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
NEW YORK, West			CO	RREC	TION	S					
Cattaraugus County 1 N Cottage	01 Trained	1436EST spotters reporte	d trees and w	rires downed	0 by thunder	0 storm winds	10.00K	0.00K	Thunderstorm Wind (52EG)		
	Note: The estimated wind gust of 52 knots is equivalent to 60 mph.										
Erie County Woodlawn	01 Thunder	1436EST storm winds do	wned a large	tree on Gilb	0 ert Street in	0 Blasdell.	15.00K	0.00K	Thunderstorm Wind (52EG)		
	Note: T	he estimated wi	nd gust of 52	knots is equ	ivalent to 6	0 mph.					
Niagara County 1 NE North Tonawanda	01 Law enfo	1436EST orcement report	ted a tree on a	a house dow	0 ned by thun	0 derstorm wi	20.00K nds in North T	0.00K Tonawanda	Thunderstorm Wind (52EG) a.		
	Note: T	he estimated wi	nd gust of 52	knots is equ	ivalent to 6	0 mph.					
Erie County 1 W Bay View	01 Note: Tl	1438EST he measured wi	nd gust of 55	knots is equ	0 nivalent to 6	0 3 mph.	10.00K	0.00K	Thunderstorm Wind (55MG)		
Erie County 1 NW Depew	01 Ham rad	1441EST io operators rep	oorted numer	ous large tre	0 es snapped	0 and uprooted	30.00K d in Depew.	0.00K	Thunderstorm Wind (56EG)		
	Note: T	he estimated wi	nd gust of 56	knots is equ	ivalent to 6	4 mph.					
Niagara County 1 E Wurlitzer Park	01 Law enfo	1441EST orcement report	ted trees and	wires downe	0 d by thunde	0 erstorm wind	20.00K ds.	0.00K	Thunderstorm Wind (56EG)		
	Note: T	he estimated wi	nd gust of 56	knots is equ	ivalent to 6	4 mph.					
Orleans County 1 SW Medina	01 Law enfo	1457EST orcement report	ted trees and	wires downe	0 d by thunde	0 erstorm wind	15.00K ds.	0.00K	Thunderstorm Wind (52EG)		
	Note: T	he estimated wi	nd gust of 52	knots is equ	ivalent to 6	0 mph.					
Genesee County 1 E Alexander	01 Law enfo	1505EST orcement report	ted trees dow	ned by thund	0 lerstorm wi	0 nds on Beav	10.00K er Road.	0.00K	Thunderstorm Wind (52EG)		
	Note: T	he estimated wi	nd gust of 52	knots is equ	ivalent to 6	0 mph.					
Genesee County 1 E Alabama	01 Law enfo	1505EST orcement report	ted trees dow	ned by thund	0 lerstorm wi	0 nds on Rose	10.00K ville Road.	0.00K	Thunderstorm Wind (52EG)		
	Note: T	he estimated wi	nd gust of 52	knots is equ	ivalent to 6	0 mph.					
Orleans County 1 E Albion	01 Law enfo	1512EST orcement report	ted trees and	wires downe	0 d by thunde	0 erstorm wind	15.00K ds	0.00K	Thunderstorm Wind (52EG)		
	Note: T	he estimated wi	nd gust of 52	knots is equ	ivalent to 6	0 mph.					
Wyoming County Arcade	01 Law enfo	1523EST orcement report	ted trees dow	ned by thund	0 lerstorm wi	0 nds.	10.00K	0.00K	Thunderstorm Wind (52EG)		
	Note: T	he estimated wi	nd gust of 52	knots is equ	ivalent to 6	0 mph.					
Cattaraugus County Olean		1524EST d wires were do he estimated wi	•			0 60 mph.	15.00K	0.00K	Thunderstorm Wind (52EG)		

		Time Local/	Path Length	Path Width	Nun Pers	nber of	Estim Dama		May 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW YORK, West			CO	RREC	TION	IS			
Orleans County 1 SW Holley	01 Law enf	1524EST orcement report	ted trees and	wires downe	0 ed by thund	0 erstorm winds	10.00K	0.00K	Thunderstorm Wind (52EG)
Genesee County 2 WNW Oakfield	Note: T	he estimated wi	ind gust of 52	2 knots is equ	nivalent to	60 mph. 0	15.00K	0.00K	Thunderstorm Wind (52EG)
	Thunder	estorm wind dov the estimated wi				Road.			,
Genesee County 1 SW Pavilion Center	01 Law enf	1526EST orcement report	ted trees dow	ned by thund	0 derstorm w	0 inds on Linwo	10.00K ood Avenue.	0.00K	Thunderstorm Wind (52EG)
Orleans County 1 SSW Kendall	01	the estimated wing the strength of the strengt			0	0	15.00K	0.00K	Thunderstorm Wind (52EG)
Wyoming County 1 N Pike	01	he estimated wind the stimated wind the stimated wind the stimated with the stimated with the stimated with the stimated wind the stimated with the stimated			0	0	10.00K	0.00K	Thunderstorm Wind (52EG)
Allegany County 1 W Cuba	Note: T	he estimated wind the stimated wind the stimated wind the stimated wind the stimated with the stimated wind the stimated	and gust of 52	2 knots is equ	nivalent to	60 mph. 0	20.00K	0.00K	Thunderstorm Wind (52EG)
Allegany County 1 NNE Ceres		the estimated wi					15.00K	0.00K	Thunderstorm Wind (52EG)
Monroe County		orcement report			•		S.		
2 SSW Greece		1542EST estorm winds kn The estimated wi					25.00K ates.	0.00K	Thunderstorm Wind (52EG)
Monroe County 2 SSW Greece		1545EST estorm winds do the estimated wi					10.00K	0.00K	Thunderstorm Wind (52EG)
Wyoming County Portage		1545EST forcement report		·			10.00K	0.00K	Thunderstorm Wind (52EG)
Allegany County 1 N Petrolia	01 Several	he estimated wing 1552EST trees were uproof the estimated wing the stimated wing the	oted by thun	derstorm win	0 ds.	0	10.00K	0.00K	Thunderstorm Wind (52EG)
Allegany County Wellsville		1554EST estorm winds do the estimated wi					15.00K	0.00K	Thunderstorm Wind (52EG)

		Time	Path	Path	Number of Persons		Estimated Damage		May 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Ferso Killed	ns Injured	Property	ge Crops	Character of Storm
			CO	RREC	TION	S			
NEW YORK, West									
Allegany County Wellsville	01 Law enfo	1555EST orcement report	ed trees and	wires downe	0 ed by thunde	0 erstorm wind	10.00K ds.	0.00K	Thunderstorm Wind (52EG)
	Note: Tl	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 6	0 mph.			
Allegany County 4 W Swain	01 Note: Ti	1555EST he measured wi	nd gust of 52	2 knots is eq	0 aivalent to 6	0 0 mph.	10.00K	0.00K	Thunderstorm Wind (52MG)
Livingston County 2 SSE Ross Corners	01 Law enfo	1600EST orcement report	ed trees dow	ned by thun	0 derstorm wir	0 nds.	15.00K	0.00K	Thunderstorm Wind (52EG)
	Note: Ti	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 6	0 mph.			
Livingston County 2 NNW Reeds Corners	01 Law enfo	1610EST orcement report	ed trees dow	ned by thun	0 derstorm wi	0 nds.	10.00K	0.00K	Thunderstorm Wind (52EG)
	Note: Tl	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 6	0 mph.			
Livingston County 1 E Springwater	01 Law enfo	1617EST orcement report	ed trees dow	ned by thun	0 derstorm wir	0 nds.	10.00K	0.00K	Thunderstorm Wind (52EG)
	Note: Tl	ne estimated wi	nd gust of 52	2 knots is equ	uivalent to 6	0 mph.			
Ontario County Cheshire	01 Law enfo	1622EST orcement report	ed trees and	wires downe	0 ed by thunde	0 erstorm wind	12.00K ds.	0.00K	Thunderstorm Wind (52EG)
	Note: Ti	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 6	0 mph.			
Ontario County 1 N Canandaigua	01 Law enfo	1625EST preement report	ed power po	les snapped	0 and lines do	0 wned by thu	25.00K understorm win	0.00K nds.	Thunderstorm Wind (56EG)
	Note: Tl	he estimated wi	nd gust of 56	6 knots is equ	uivalent to 6	4 mph.			
Erie County 1 SSE Sloan	01	1636EST 1930EST			0	0	15.00K	0.00K	Flood
Oswego County 1 SE Oswego	01 Thunder	1646EST storm wind dow	vned a light p	oost on SUN	0 Y Oswego c	0 ampus.	8.00K	0.00K	Thunderstorm Wind (52MG)
	Note: Tl	he measured wi	nd gust of 52	2 knots is equ	uivalent to 6	0 mph.			
Oswego County 1 SE Oswego	01 Note: Ti	1648EST he measured wi	nd gust of 52	2 knots is eq	0 aivalent to 6	0 0 mph.	5.00K	0.00K	Thunderstorm Wind (52MG)
Erie County 2 WNW Kenmore	01	1650EST 2000EST			0	0	10.00K	0.00K	Flood
Monroe County 2 NE Morton	01	1656EST 2100EST			0	0	8.00K	0.00K	Flood

		Time Path Path		Number of		Estimated		May 201	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Persons Killed In	njured	Damaş Property	ge Crops	Character of Storm
_			CO	RREC	TIONS				
NEW YORK, West									
Jefferson County Chaumont	01 Law enf	1712EST forcement report	ed trees dow	ned by thun	0 derstorm winds	0	10.00K	0.00K	Thunderstorm Wind (52EG)
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 60 n	nph.			
Oswego County 1 N Altmar	01 Law enf	1716EST orcement report	ed trees and	wires downe	0 ed by thunderst	0 orm wind	10.00K s.	0.00K	Thunderstorm Wind (52EG)
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 60 n	nph.			
Jefferson County 1 SW Watertown	01 Law enf	1722EST orcement report	ed trees and	wires downe	0 ed by thunderst	0 orm wind	10.00K s.	0.00K	Thunderstorm Wind (52EG)
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 60 n	nph.			
Jefferson County 1 S Westminister Park	01 Law enf	1727EST orcement report	ed trees dow	ned by thun	0 derstorm winds	0	10.00K	0.00K	Thunderstorm Wind (52EG)
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 60 n	nph.			
Jefferson County 2 SW West Carthage	01 Law enf	1735EST orcement report	ed trees and	wires downe	0 ed by thunderst	0 orm wind	10.00K	0.00K	Thunderstorm Wind (52EG)
	Note: T	he estimated wi	nd gust of 52	2 knots is equ	uivalent to 60 n	nph.			
Lewis County Harrisville	01 Law enf	1758EST orcement report	ed trees and	wires downe	0 ed by thunderst	0 orm wind	15.00K	0.00K	Thunderstorm Wind (52EG)
	front pro as areas line of s hours. V flooding	oduced damaging east of Lake Or torms also drop While not overly	g winds that ntario. A few oped heavy rexcessive r	downed tree of falling tree rainfall in a rates, on top	es and wires act s caused minor short period of of very wet an	oss wester structura time, wi tecedent	ern New York al damage. W th amounts of conditions, th	through the ind gusts was to 1 to	hunderstorms just ahead of the ne Finger Lakes Region as well were measured to 60 mph. The 5 inches common over a few reports of road closures due to nated wind gust of 52 knots is
Monroe County 2 NNE Brighton Po	06 07	0300EST 1600EST			0	0	10.00K	0.00K	Flood
Monroe County									
1 WNW Churchville	06 07	2230EST 1630EST			0	0	15.00K	0.00K	Flood
	was the	second wettes	t on record	in Rochest	er) area creek	s rain hi	gh and in so	me cases	nth March through May period overflowed. Black Creek at eet at 8:15 PM EST on the 6th.
NYZ019	Chauta	nuqua							
	07 08	2105EST 0725EST			0	0	0.00K		Frost/Freeze
		ly cold tempera perature fell be							Chautauqua County overnight.
	08 09	2215EST 0645EST			0	0	0.00K		Frost/Freeze

	_	Time Local/	Path Length	Path Width	Perso		Estimated Damage	May 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
NEW YORK, West			CO	RREC	CTION	S		
NYZ012-085	Southe	rn Erie - Wyo	ming					
1112012-005	09	0330EST	illing					
	0)	0615EST			0	0	0.00K	Frost/Freeze
	parts of	southern Erie, some locations	Chautauqua	and Wyom	ing Countie	es overnight	. The temperature fell	vestern Southern Tier including below freezing for up to eight is in Warsaw and 29 degrees in
Monroe County 1 SSW Beechwood	14	1443EST			0	0		Hail (0.75)
Monroe County 1 E Railroad Mills	14	1502EST			0	0		Hail (0.75)
Ontario County	1.4	1504ECT			0	0		Hail (0.75)
2 ENE Fishers Ontario County	14	1504EST			U	0		Hail (0.75)
1 N Canandaigua	14	1533EST			0	0		Hail (0.75)
Ontario County 2 W Ennerdale	includin		ac Festival.	The storm r				Hail (1.00) ster and the southeast suburbs, to County. That storm produced
Erie County Collins	18	1422EST			0	0		Hail (1.00)
Livingston County 1 S South Lima	18	1424EST			0	0		Hail (1.00)
Livingston County 1 W South Lima	18	1424EST			0	0		Hail (1.00)
Erie County 3 SE New Oregon	18	1433EST			0	0		Hail (2.00)
Erie County 4 SE New Oregon	18	1434EST			0	0		Hail (0.88)
Erie County 1 W East Concord	18	1438EST			0	0		Hail (1.00)
Livingston County 1 E Dansville	18	1455EST			0	0		Hail (0.75)
Ontario County 2 WSW Oaks Corners	18	1512EST			0	0		Hail (1.25)
Livingston County 2 SSE Ross Corners	18 Law enf	1530EST orcement reporte	ed trees and	wires down	0 ed by thundo	0 erstorm wind	10.00K 0.00K ds.	Thunderstorm Wind (52EG)
	Note: T	he estimated win	nd gust of 52	knots is eq	uivalent to 6	60 mph.		
Ontario County Geneva	18 Thunder	1541EST estorm winds dov	wned trees ar	nd large brai	0 nches which	0 n blocked sec	12.00K 0.00K etions of St. Clair Street.	Thunderstorm Wind (52EG)
	Note: T	he estimated win	nd gust of 52	knots is eq	uivalent to 6	60 mph.		
Lewis County 1 NNW Croghan	18 Law enf	1644EST orcement reporte	ed trees down	ned by thun	0 derstorm wi	0 inds.	10.00K 0.00K	Thunderstorm Wind (52EG)

		Time Local/	Path Length	Path Width	Numb Persor		Estim Dama		May 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW YORK, West			CO	RREC	TIONS	8			
Lewis County									
1 SW New Bremen Duflo Arp	18	1648EST cement reporte	d tuoos and r	vias davima	0	0	12.00K	0.00K	Thunderstorm Wind (52EG)
							is iii New Bie	ilicii.	
	Note: The	e estimated win	d gust of 52	knots is equ	ivalent to 60) mph.			
Oswego County Fulton	18	1654EST			0	0			Hail (1.50)
Oswego County									
1 E Phoenix	18	1659EST			0	0			Hail (1.50)
Oswego County 1 SE Volney	18	1659EST			0	0			Hail (2.50)
Oswego County	10	1.5500000			0	0	12 0017	0.0017	TI 1 (52DG)
Palermo	18 Law enfor	1659EST cement reported	d trees and v	wires downe	0 d by thunder	0 storm wind	12.00K ls.	0.00K	Thunderstorm Wind (52EG)
	Note: The	estimated win	d gust of 52	knots is equ	ivalent to 60) mph.			
Oswego County			C	1		1			
1 W Clifford	18	1700EST			0	0			Hail (2.50)
Oswego County Fulton	18	1700EST			0	0			Hail (1.50)
Oswego County									
2 E Mt Pleasant	18 Large hail	1700EST broke windows	s and damag	ed building	0 siding.	0	20.00K	0.00K	Hail (2.00)
Oswego County									
2 SSE Central Square	18	1705EST			0	0			Hail (1.50)
Oswego County 1 N Clifford	18	1705EST			0	0			Hail (1.75)
Oswego County									
3 S Central Square	18	1706EST			0	0			Hail (1.75)
Oswego County 1 SE Wellwood	18	1706EST			0	0			Hail (2.50)
Lewis County									
1 W Beaches Bridge	18 Law enfor	1707EST cement reported	d trees and v	wires downe	0 d by thunder	0 storm wind	10.00K Is on Number	0.00K 4 Road.	Thunderstorm Wind (52EG)
	Note: The	estimated win	d gust of 52	knots is eau	ivalent to 60) mph.			
Oswego County				1		r			
West Monroe	18 Law enfor	1709EST cement reporte	d trees and v	vires downe	0 d by thunder	0 storm wind	10.00K	0.00K	Thunderstorm Wind (52EG)
		•			·				
Oswego County	Note: The	e estimated win	a gust of 52	knots is equ	iivaient to 60	mpn.			
Constantia	18	1713EST	1. 1		0	0	12.00K	0.00K	Thunderstorm Wind (52EG)
	Law enfor	cement reporte	a trees and v	vires downe	a by thunder	storm wind	IS.		
0 0	Note: The	estimated win	d gust of 52	knots is equ	iivalent to 60) mph.			
Oswego County 1 SE Albion Center	18	1716EST			0	0			Hail (1.50)
Oswego County						_			44 (0 15
1 SW Altman	18	1721EST			0	0			Hail (1.75)
Oswego County 1 NE Cleveland	18	1721EST			0	0	15.00K	0.00K	Thunderstorm Wind (52EG)
	Law enfor	cement reporte	d trees and v	wires downe	d by thunder	storm wind	ls.		

		Time	Path Langth	Path Width	Numl		Estim		May 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Dama Property	Crops	Character of Storm
NEW YORK W4			CO	RREC	TION	S			
NEW YORK, West									
Chautauqua County 1 NE Dunkirk	18	2243EST			0	0			Hail (0.75)
Chautauqua County 1 S Silver Creek	18 Law enf	2255EST forcement reported	ed trees and	wires downe	0 ed by thunde	0 erstorm wind	15.00K ls.	0.00K	Thunderstorm Wind (52EG)
	Numero region. l siding,	us storms tracke Numerous report	ed from the verse of hail from windows.	western Sou m dime- to g There were	thern Tier a olf-ball size also some r	cross the no d were recei reports of do	rthern Finger ived. The hail owned trees	Lakes and , up to two and wires	gh the early overnight hours. I into the eastern Lake Ontario and-a-half inches, did damage from the thunderstorm winds. Lent to 60 mph.
Chautauqua County 2 SE Forestville	28	1724EST			0	0			Hail (2.00)
Chautauqua County 1 N Forestville	28	1729EST			0	0			Hail (1.75)
Cattaraugus County 1 N Perrysburg	28	1745EST			0	0			Hail (1.75)
Cattaraugus County 1 NW Delevan	28	1751EST			0	0			Hail (1.00)
Erie County Sardinia	28	1755EST			0	0			Hail (2.00)
Erie County Sardinia	28 Thunder	1755EST estorm winds dov	wned a large	tree which f	0 Tell on and d	0 amaged a ho	20.00K	0.00K	Thunderstorm Wind (52EG)
	Note: T	he estimated win	nd gust of 52	knots is equ	uivalent to 6	0 mph.			
Erie County 1 E North Collins	28 Thunder	1809EST storms that deve	eloped during	g the late afte	0 ernoon / eve	0 ning hours p	oroduced hail	up to two-	Hail (1.00) inches in diameter.
Allegany County 1 N Whitesville	30	1221EST			0	0			Hail (1.25)
Ontario County 1 NE Phelps	30	1305EST			0	0			Hail (1.00)
Oswego County 2 NE Sandy Pond	30	1305EST			0	0			Hail (0.75)
Wayne County 2 NW Wolcott	30	1308EST			0	0			Hail (0.75)
Cayuga County North Fair Haven		1325EST rstorms develop r across the we					hunderstorm	s produced	Hail (0.75) I hail up to a quarter-sized in
St. Lawrence River									
SLZ024	St Law	rence River F	rom Ogde	ensburg To	St Regis	Ny			
	18 A thund	2025EST erstorm crossing	the St. Law	rence River	0 produced gu	0 ists measure	d to 39 knots	0.00K at Massena	Marine Thunderstorm Wind a.

		Time Local/	Path Length	Path Width	Numl Perso	per of	Estin Dama			June 20
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			CO	RREC	CTION	S				
CALIFORNIA, South Cen	tral									
Mariposa County	0.1	0000000								
4 ENE Foresta	01 23	0000PST 1522PST			0	0	0.00K	0.00K	Flood	
		rced River at Po June 7. Flood st	_			-		une began a	and remained above	flood stage
		erced River at P June 7. Flood						feet on an	d remained above f	lood stage
CAZ095-098-099	Indian	Wells Vly - K	Kern Cty M	Itns - Se K	ern Cty D	esert				
	11	0050PST 1432PST			0	0	0.00K	0.00K	High Wind	
Mariposa County										
2 E Elliott Corner	11 12	1600PST 0725PST			0	0	0.00K	0.00K	Heavy Rain	
CAZ089>095-098> 099	early m A cold of Californ the after afternoon Rainfall mountar E Central Valley 18 23 A large through temperar 110 deg	orning of June 1 apper low pressuria on the morning of June 10 on of June 11 the amounts were gins and up to 3 in tral S.j. Valley - Sw S.j. Valley 1100PST 2000PST area of high pressure and in the strength of the strength	2. The system doing of June 1 In through the magnerally lighteness of new y - Indian yey - Tulare The system began emperatures eding 105 do Kern County	to build no rising to we grees acros	r the Pacific n a period o June 11. Th nne 12 as an an inch or l ver the high - Kern Ct thills - W	Northwest f strong wir is system a unseasona ess); howevest elevation y Mtns - S Central S. 0 into centra easonal nor e San Joaqu t Warnings	on June 10 p nds over the l lso produced bly cool and ver, but snow ns of the Sout S Sierra Foo j. Valley 0.00K I California o mals. This le uin Valley be were posted	ushing a str Kern Count widespread unstable ai was observe hern Sierra othills - Se 0.00K on June 13 and to a heat tween June for these ar	ong cold front through Mountains and Dorainfall over the are rmass prevailed over all over all over the are rmass prevailed over all over the are rmass prevailed over all over the are rmass between the area and strengthened over the area as well as for the or much of this period.	gh Central seerts from the er the area. et over the t - Se S.j. er the area ed in high exceeding e southern
CAZ095	Kern (Cty Mtns								
	18 25	1330PST 2300PST			0	0		0.00K	Wildfire	
	under in	vestigation. It b	ourned 1541	acres before	e being conta	ained on Ju	ne 28, 2017.	The fire clo	, in Kern County. To sed part of Highwa nment was \$3 Million	y 178 near
Fresno County										
1 SSE Belmont Avenue 2 ENE Minkler	19 29	1700PST 1100PST			0	0	0.00K	0.00K	Flood	
	Riverbe	nd and Kings Ca	anyon RV Pa	rk near San	ger flooded a	s the result	of large wate	r releases a	long the Kings Rive	r.
Tulare County										
4 NW Traver	19	1700PST								
	29	1100PST			0	0	500.00K	0.00K	Flood	

Flooding occurred at the Riverland RV resort between Kingsburg and Traver as the result of a levee breech on the Kings River which occurred on June 19.

		Time	Path	Path	Nun	nber of	Estimated			June 2017
		Local/	Length	Width	Persons		Damage			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

CORRECTIONS

CALIFORNIA, South Central

Kings County 2 SSW Hardwick

2 SSW Hardwick 22 1300PST **3 WNW Grangeville** 29 1100PST

29 1100PST 0 0 0.00K Flood

A levee breech occurred along an irrigation canal near Grangeville. The report was received from the California Department of Water Resources after being reported by Kings County Sheriff Deputies.

Fresno County 1 W Reedley

23 1240PST

29 1100PST 0

Flooding was reported by an NWS employee along the Kings River just south of the bridge on Manning Ave at the adjacent RV Park on the west side of Reedley.

0.00K

Flood

0.00K

Large water releases from Pine Flat Dam resulted in flooding along portions of the Kings River between June 18 and June 29. Evacuations began at Riverland RV park near Kingsburg on June 18. A levee breech near the Kings River Country Club near Kingsburg occurred on June 23 followed by a second breech just downstream of the first levee breech on June 24. As a result of the second breech, 90 homes were threatened by flooding in Tulare County. 300 people were evacuated as water ponded up to 12 feet deep around homes and 7 structures were damaged. A sandbagging operation took place on June 24 and June 25 in Tulare County on on June 25 and June 26 using over 1000 sandbags. Releases were cut back at Pine Flat Dam on June 26 and the flooding downstream receded by June 29.

CAZ089

W Central S.j. Valley

23 1500PST 0 0 0.00K Wildfire

28

The Creek fire began on June 25, 2017, off Los Gatos Creek Rd, west of Derrick, or 13 miles northwest of Coalinga, CA in Fresno County. The cause is under investigation. It burned 357 acres before being contained on June 28, 2017. There was one residence and 3 sheds destroyed. The cost of containment was \$1.5 million.

Tulare County 3 WSW Delft Colony

24 0415PST

29 1100PST 0 0 0.00K 0.00K Flood

A levee breech was reported by emergency officials along the Kings River east of Kingsburg.

Large water releases from Pine Flat Dam resulted in flooding along portions of the Kings River between June 18 and June 29. Evacuations began at Riverland RV park near Kingsburg on June 18. A levee breech near the Kings River Country Club near Kingsburg occurred on June 23 followed by a second breech just downstream of the first levee breech on June 24. As a result of the second breech, 90 homes were threatened by flooding in Tulare County. 300 people were evacuated as water ponded up to 12 feet deep around homes and 7 structures were damaged. A sandbagging operation took place on June 24 and June 25 in Tulare County on on June 25 and June 26 using over 1000 sandbags. Releases were cut back at Pine Flat Dam on June 26 and the flooding downstream receded by June 29.

KANSAS, Northeast

THE TOTAL TOTAL CONTRACT							
Leavenworth County 4 W Leavenworth	15	1955CST					
		1958CST	0	0	0.00K	0.00K	Hail (1.00)
Leavenworth County							
2 NNE Reno	15	2001CST					
		2004CST	0	0	0.00K	0.00K	Hail (1.00)
Leavenworth County							
•							
1 E Lansing	15	2001CST					
		2004CST	0	0	0.00K	0.00K	Thunderstorm Wind (52EG)

Several trees down across the city of Lansing. Some were up to 10 inches in diameter, but most were in the 4 to 6 inch range.

		Time	Path	Path		nber of	Estim		June 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	age Crops	Character of Storm
			CO	RREC	TION	S			
KANSAS, Northeast									
Leavenworth County 6 NNE Jarbalo	15	2002CST 2005CST			0	0	0.00K	0.00K	Hail (1.00)
Johnson County 2 SE Wilder	15	2026CST			0	0	0.00K	0.00K	Hail (0.75)
Atchison County Lancaster	16	2217CST 2220CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		nd a few power li			uivalent to 6	60 mph.			
Atchison County 1 ESE Lancaster	16	2223CST 2228CST			0	0	0.00K	0.00K	Thunderstorm Wind (72MG)
	Kingma	n Road and 286	th Road.				ls blew in so	me window	s in a trained spotters truck at
Ataliaan Canata	Note: 1	he measured wir	id gust of 72	knots is eq	uivalent to t	83 mpn.			
Atchison County 2 SSE Atchison Earhart Arp	16	2229CST 2232CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)
	Trees we	ere uprooted at 2	74th and Ph	illips Road.	Upstream n	neasurements	s were in the	70 to 85 mj	ph range.
	Note: T	he estimated wir	nd gust of 61	knots is eq	uivalent to	70 mph.			
Atchison County 5 SW Cummings	16	2235CST 2238CST			0	0	0.00K	0.00K	Thunderstorm Wind (66MG)
		rgency Manager he measured wir							
Atchison County 1 S Atchison	16	2236CST 2239CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		rgency Manager		-	•				
Atabiaan Caunty	Note: T	he estimated wir	id gust of 52	knots is eq	uivalent to 6	50 mph.			
Atchison County 3 W Potter	16	2253CST 2256CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		tree limbs were he estimated wir		knots is eq	uivalent to 6	50 mph.			
Leavenworth County 4 SSW Springdale	16	2306CST 2309CST			0	0	0.00K	0.00K	Thunderstorm Wind (52MG)
		rgency Manager							
I communicate Comme	Note: T	he measured wir	nd gust of 52	knots is eq	uivalent to 6	50 mph.			
Leavenworth County Lansing	16	2313CST 2316CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
		artment reported	•		uivalent to 5	58 mph.			

		Time Local/	Path Length	Path Width	Num Pers	nber of	Estim Dama	nated	June 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			CC	RREC	TION	S				
KANSAS, Northeast										
Leavenworth County										
1 S Leavenworth	16	2313CST								
		2316CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)	
	Emerge	ncy Managemen	t reported 60	0 mph wind.						
	Note:	The estimated wir	nd gust of 50	0 knots is eq	uivalent to	58 mph.				
Leavenworth County										
1 N Basehor	16	2316CST								
		2319CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
	A few r	ower lines were	down iust e	ast of Baseho	or.					
	-	The estimated wir				60 mph.				
Leavenworth County				•		•				
3 N Fairmount	16	2318CST								
		2321CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
	Power 1	ines down across	the area							
		The estimated wir		6 knots is ea	uivalent to	64 mph.				
Leavenworth County	- 10121		8	₁						
2 NE Fairmount	16	2321CST								
		2324CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)	
	F	M	170	01						
		ncy Management The estimated wire			uivalent to '	70 mnh				
Wdatta Carret	Note.	ine estimated wit	id gust of o	r knots is eq	urvaient to	70 mpn.				
Wyandotte County 3 S Wolcott	16	2321CST								
b b Wolcott	10	2324CST			0	0	0.00K	0.00K	Thunderstorm Wind (70MG)	
			101 1							
	A traine	ed spotter reporte	d 81 mph w	and, with coi	isiderable ti	ree damage.				
	Note:	The measured wir	nd gust of 70	0 knots is eq	uivalent to	81 mph.				
Wyandotte County			8							
5 WNW Wolcott	16	2321CST								
		2324CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)	
	Emarga	ncy Managemen	t rapartad 71	0 mnh wind						
	_	The estimated wir	-	-	uivalent to '	70 mnh				
Www.datta County	11010.	The estimated wil	ia gast or o	r knots is eq	arvarent to	, o inpii.				
Wyandotte County 3 ESE Piper	16	2323CST								
P.		2326CST			0	0	0.00K	0.00K	Thunderstorm Wind (70EG)	
		1 (1 11	11 1.0		1.00 1					
	A storn	n chaser at the Ho	ollywood Ca	isino reporte	a 80 mpn v	vinds.				
	Note:	The estimated wir	nd gust of 70	0 knots is eq	uivalent to	81 mph.				
Leavenworth County				•		•				
2 NNE Linwood	16	2328CST								
		2331CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
	Emarga	ncy Managemen	t rapartad 6	5 mnh wind						
		The estimated wir			uivalent to	64 mph.				
I agranuanth County	110101	The estimated with	ia gast of 5	0 1111013 13 04	ar varent to	op				
Leavenworth County Lansing	16	2329CST								
		2332CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
	F			0111						
		ncy Management The estimated wire			uivalent to	60 mph				
	11016.	ine estimateu WII	ia gusi 01 J.	2 KIIOG IS CY	arvaiciit to t	оо шрп.				

		Time	Path	Path		ber of	Estim		June 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perse Killed	ons Injured	Dama Property	rge Crops	Character of Storm
			CO	RREC	TION	S			
KANSAS, Northeast			00						
Leavenworth County 3 WNW Loring	16	2330CST 2333CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)
	_	ncy Managemen	•	-					(
Johnson County									
1 NNE Westwood	16	2335CST 2338CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)
	A large	tree limb fell on	to a car dama	aging the car	on 49th be	tween Bootl	n and Adams.		
	Note: T	he estimated wi	nd gust of 61	knots is equ	uivalent to	70 mph.			
Johnson County 3 WSW Leawood	16	2340CST 2343CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		eported 60 mph he estimated wi		2 knots is equ	uivalent to (50 mph.			
Johnson County									
1 WSW Shawnee	16	2344CST 2347CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		eported 60 mph he estimated wi		2 knots is equ	uivalent to 6	60 mph.			
Johnson County 1 W (IXD)Jhnsn Co Indsl	17	0004CST 0007CST			0	0	0.00K	0.00K	Thunderstorm Wind (54MG)
		t KIXD reported the measured wi	-	-		52 mph.			
Linn County						_			
1 W Pleasanton	17	0157CST 0200CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	2	ee in the roadwa he estimated wi	-	ó knots is equ	uivalent to (54 mph.			
Leavenworth County									
1 S Leavenworth	17	1950CST 1953CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		Spotter reported he estimated wi	-		uivalent to 6	60 mph.			
Leavenworth County Lansing	17	1951CST 1954CST			0	0			Thunderstorm Wind (61EG)
	Power li	nes were down	in Lansing w	ith a blown	transforme	. Power pole	es were broke	n in half.	
	Note: T	he estimated wi	nd gust of 61	knots is equ	uivalent to	70 mph.			
Leavenworth County 2 SE Reno	17	1952CST 1955CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	_	ncy Managemen he estimated wi	•	-	uivalent to (60 mph.			

		Time	Path	Path		ber of	Estin	nated	June 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	age Crops	Character of Storm
			CO	RREC	TION	S			
KANSAS, Northeast						~			
Johnson County									
1 SSE De Soto	17	1953CST			0	0	0.001/	0.00V	Thursdaystown Wind (50MC)
		1956CST			0	0	0.00K	0.00K	Thunderstorm Wind (59MG)
	Trained	spotter reported	68 mph win	d.					
	Note: T	he measured wir	d gust of 59	knots is eq	uivalent to 6	68 mph.			
Wyandotte County									
2 N Grandview	17	1957CST 2000CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		2000CS1			U	U	0.00K	0.00K	Thunderstorm Wind (32EG)
		spotter reported							
	Note: T	he estimated wir	d gust of 52	2 knots is eq	uivalent to 6	60 mph.			
Johnson County	1.7	2000000							
1 E Shawnee	17	2000CST 2003CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		2003CB1			Ü	Ü	0.001	0.001	munderstorm wind (32EG)
		inch tree limb w							
	Note: 1	he estimated wir	id gust of 52	2 knots is eq	uivalent to 6	60 mph.			
Johnson County	17	2007.007							
1 SSE Monticello	17	2007CST 2010CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
		ot tall, 4 foot diar				· 4			
T. 1	Note: 1	he estimated wir	ia gust of 50	s knots is eq	uivaient to c	94 mpn.			
Johnson County 1 SE Merriam	17	2009CST							
I DE MEHIANI	17	2012CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	A 15 :	.11:	4	M					
		ch diameter tree v The estimated wir				54 mph			
Johnson County	110101	ne estimated with	ia gast of a	o inioto io eq		,p			
1 S Roeland Park	17	2012CST							
		2015CST			0	0	0.00K	0.00K	Thunderstorm Wind (56MG)
	Emerge	ncy Management	reported 60) mph wind					
	_	he measured wir	-	-	uivalent to 6	64 mph.			
Wyandotte County			-						
5 ESE Turner	17	2015CST							
		2018CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	A few 3	to 5 inch tree lin	nbs were bro	oken.					
									ough eastern Kansas causing
	widespi	read wind dama	ge and larg	e hail. No	te: The esti	mated win	d gust of 52	knots is ed	quivalent to 60 mph.
Linn County									
1 W Pleasanton	30	0241CST 0246CST			0	0			Thunderstorm Wind (61EG)
		0240051			Ü	Ü			munucisionii wind (orbo)
	Several	outbuildings wer	e blown dov	wn and num	erous tree li	mbs were do	own in Pleasa	nton.	
	Note: T	he estimated wir	nd guet of 61	knote is ea	uivalent to 7	70 mph			
Linn County	11010. 1	ne estimateu wii	ia gust or or	Kilots is eq	arvaicht to /	о шри.			
Linn County 2 NNE Trading Post	30	0241CST							
		0244CST			0	0			Thunderstorm Wind (61EG)
	A comi	truck was blown	into the di	tch on Uick	way 60 at =	nila marka-	100 Wind 4	amage ovto	ends down to Pleasanton along
	A semi Highwa		mo me di	cu on righ	way uy at I	ше шагкег	107. WIIIU U	amage exte	ando down to Ficasanton along

		Time	Path	Path	Numb		Estin		June 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed	ns Injured	Dama Property	Crops	Character of Storm
			CO	RREC	TION	S			
KANSAS, Northeast									
Atchison County 3 W Potter	30	0429CST							
2 S Cummings	30	1029CST			0	0	0.00K	0.00K	Flood
	Crooked	l Creek was near	ly over 214th	h road. All f	armland on e	either side o	of the creek is	flooded.	
		evenings of June mage. Heavy ra							stern Kansas, producing some roadways.
LAKE ERIE									
LEZ041	Dunki	rk To Buffalo	Ny						
	26	2355EST			0	0		0.00K	Marine Thunderstorm Wind
		0914EST rstorms accomp							Waterspout custs measured to 37 knots at on Point.
LAKE ONTARIO									
LOZ043-044	Hamli	n Beach To So	dus Bay N	y - Sodus	Bay To Me	exico Bay	Ny		
	18	1330EST 1448EST			0	0		0.00K	Marine Thunderstorm Wind
		he influence of a			hunderstorm	s develope	d across Lake	e Ontario. T	Chunderstorm wind gusts to 37
LOZ042	Niagar	a River To H	amlin Beac	h Ny					
	25	1322EST			0 wind gusts m	0 neasured to	54 knots at O	0.00K lcott and 44	Marine Thunderstorm Wind 4 knots at Youngstown.
LOZ044	Sodus	Bay To Mexic	o Bay Ny						
	27 A water	1828EST spout was sighte	d just northe	ast of Nine	0 Mile Point.	0		0.00K	Waterspout
MISSOURI, Northwest									
Putnam County 3 W Hartford	14 On the 6	2104CST evening of June	14 a storm pr	oduced a ni	0 ckel sized ha	0 il stone.	0.00K	0.00K	Hail (0.88)
Platte County 1 N Waldron	15	2005CST 2008CST			0	0			Thunderstorm Wind (52EG)
		ere down across the estimated with				0 mph.			
Platte County 1 WSW Milton	15	2015CST 2018CST			0	0			Thunderstorm Wind (52EG)
	Numero	us tree limbs we	ere blown dov	wn in the are	ea NW of 67	th St and N	Overland Dr		

		Time	Path	Path		ber of	Estim		June 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	age Crops	Character of Storm
			CO	RREC	TION	S			
MISSOURI, Northwest						~			
Platte County 2 E Parkville	15	2028CST 2031CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	Numero	ous reports of tree	es and limbs	down in the	Riss lake a	rea.			
	Note: 7	Γhe estimated wir	nd gust of 52	2 knots is equ	uivalent to 6	60 mph.			
Clay County				•		•			
1 N Bigham Hgt	15	2032CST 2033CST			0	0	0.00K	0.00K	Hail (1.00)
Clay County									
Bigham Hgt	15	2032CST 2035CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	A traine	ed spotter reporte	d a 60 mph	wind.					
	Note: 7	The estimated wir	nd gust of 52	2 knots is equ	uivalent to 6	60 mph.			
Clay County 1 SW Liberty	15	2035CST							
15W Liberty	13	2037CST			0	0			Hail (1.50)
Clay County									
1 E Avondale	15	2035CST 2036CST			0	0	0.00K	0.00K	Hail (1.00)
Clay County									
1 WNW Liberty Clay County	15	2037CST			0	0	0.00K	0.00K	Hail (0.88)
1 S Liberty Mitchell Arp	15	2041CST			0	0	0.00K	0.00K	Hail (0.75)
Clay County 2 NW Liberty City Arpt	15	2053CST			0	0	0.00K	0.00K	Hail (1.00)
Nodaway County									
3 NW Quitman	15	2053CST 2056CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	Several	trees were down	across west	ern portions	of Nodawa	y County.			
	Note: 7	Γhe estimated wir	nd gust of 52	2 knots is equ	uivalent to 6	60 mph.			
Andrew County 1 SSW Rosendale	15	2056CST			0	0	0.00K	0.00K	Hail (0.75)
Harrison County	13	2030051			V	Ü	0.0011	0.0011	Half (0.73)
3 SE Brooklyn	15	2203CST 2206CST			0	1	0.00K	0.00K	Thunderstorm Wind (56EG)
	Semi w	as blown off of I-	-35 near mil	e marker 99,	with driver	sustaining	minor injuries	s.	
	Note: 7	Γhe estimated wir	nd gust of 56	6 knots is equ	uivalent to 6	54 mph.			
Harrison County 1 E Washington Center	15 Outbuil	2203CST dings destroyed of	on W 200th	Street east o	0 f Washingto	0 on Center.			Thunderstorm Wind (52EG)
	Note: 7	The estimated wir	nd gust of 52	2 knots is equ	uivalent to 6	60 mph.			
Harrison County	1.5	2202000							
Eagleville Cainsville	15	2203CST 2206CST			0	0			Thunderstorm Wind (61EG)
	in those	nine shed was des	Eagleville.				to Cainsville	e to Blytheo	dale, along with power outages

		Time Local/	Path Length	Path Width	Per	mber of sons	Estin Dam		June 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
MICCOUDI N. 41. 4			CO	RREC	CTION	NS				
MISSOURI, Northwest										
Harrison County 1 W Ridgeway	15	2203CST								
1 W Klugeway	13	2206CST			0	2			Thunderstorm Wind (61EG)	
	A 4 6	-111-:1- 1		200 1-114	C 2 1 C 4	4 4			41 6 1	
		te injuries.	iome on the .	200 block of	ziid Stree	t, temporarii	y trapping two	people, bo	oth of whom sustained minor to	
	Note: T	he estimated wi	nd gust of 61	knots is eq	uivalent to	70 mph.				
Mercer County										
1 W Princeton	15	2215CST			0	0	0.0017	0.0017	Thursday, Wind (50EC)	
		2218CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
	Tree lim	nbs of various si	zes and cond	itions were	down near	Princeton.				
	Note: T	he estimated wi	nd gust of 50) Iznote is og	uivalant ta	60 mnh				
Coundy County	Note. 1	ne estimated wi	nd gust of 32	kilots is eq	urvaient to	oo mpii.				
Grundy County Trenton	15	2223CST								
		2226CST			0	0			Thunderstorm Wind (52EG)	
	A tree w	vas blocking Cro	owder Road a	nt Mable Str	eet					
		The estimated wi				60 mph.				
Adair County										
1 S Kirksville	15	2330CST								
		2333CST			0	0			Thunderstorm Wind (56EG)	
	Power p	oles and power	lines were do	own near Ki	rksville.					
	Note: T	he estimated wi	nd gust of 56	6 knots is eq	uivalent to	64 mph.				
Atchison County										
4 W Westboro	16	2025CST 2028CST			0	0	0.00K	0.00K	Thunderstorm Wind (76MG)	
									, ,	
	Recorde	ed at a wind farn	n about 3 mil	es south of t	the Missou	ri and Iowa b	order. Height	of the instr	rument is unknown.	
	Note: T	he measured wi	nd gust of 76	6 knots is ea	uivalent to	87 mph.				
Atchison County				1		r .				
1 N Tarkio	16	2040CST								
		2043CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
	Trees w	ere reported dov	vn in and aro	und Tarkio.						
	Note: T	he estimated wi	nd gust of 56	6 knots is eq	uivalent to	64 mph.				
Nodaway County										
3 ENE Maryville Rankin Arp	16	2049CST 2052CST			0	0			Thunderstorm Wind (61EG)	
		2032CS1			U	U			Thunderstorm whild (OTEO)	
	A campe	er was blown in	to Mozingo I	Lake. There	was no fol	low up on wh	nether there w	as an occup	pant inside.	
	Note: T	he estimated wi	nd oust of 61	knots is ea	uivalent to	70 mph				
Worth County	1,0,0,1	no ogumenou w	na gast or o	inioto io eq	ar varont to	, op				
1 N Grant City	16	2100CST								
		2103CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)	
	A traine	d spotter reporte	ed a 60-70 m	ph wind.						
		The estimated wi			uivalent to	70 mph.				
Gentry County										
Albany	16	2113CST			0	0	0.0017	0.0017	TI 1 (W' 1(5CEC)	
		2116CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
	_	tree was blockir	-	-	•					
	Note: T	he estimated wi	nd gust of 56	knots is eq	uivalent to	64 mph.				

		Time	Path	Path	Path Number of Width Persons		Estimated Damage		June 20	
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			CO	RREC	TION	S				
MISSOURI, Northwest						~				
Holt County 1 E Oregon	16	2126CST 2129CST			0	0	0.00K	0.00K	Thunderstorm Wind (67EG)	
		artment reported he estimated wir		•	uivalent to 7	7 mph.				
Andrew County										
1 SE Rosendale	16	2140CST 2143CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
		ncy Manager rep the estimated wir				4 mph.				
Buchanan County 1 NE (STJ)St Joseph Mem A 3 W San Antonio	16	2147CST 2152CST			0	0			Thunderstorm Wind (66MG)	
	as the ste	orm came throu	gh.				OS at St Josep	h Airport (KSTJ) measured 76 mph wind	
	Note: T	he measured wir	nd gust of 66	6 knots is equ	ivalent to 7	6 mph.				
Harrison County 1 S Gilman City	16	2153CST 2156CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)	
	-	spotter reported he estimated wir	-		uivalent to 7	0 mph.				
Grundy County 1 SE Spickard	16	2201CST 2204CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)	
		partment emplo		-		8 mph.				
DeKalb County 3 W Stewartsville	16	2202CST 2205CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)	
	_	ncy Manager rep he estimated wir		-	uivalent to 5	8 mph.				
Andrew County 5 SW Avenue City	16	2205CST 2208CST			0	0			Thunderstorm Wind (65EG)	
		ee down blockir th this storm.	g the road	near HWY 5	9 and DD i	n Country (Club Village.	Nearby AS	SOS at KSTJ recorded 76 mph	
	Note: T	he estimated wir	nd gust of 65	5 knots is equ	uivalent to 7	5 mph.				
Clinton County 2 SSE Perrin	16	2210CST 2213CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)	
		eur radio spotter he estimated wir		-		8 mph.				
Clinton County										
1 SE Plattsburg	16	2214CST 2217CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
		d spotter reporte he estimated wir	_		uivalent to 6	4 mph.				

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Pers Killed	nber of ons Injured	Estim Dama Property		June 2017 Character of Storm				
				RREC		3	1	- 1	****				
MISSOURI, Northwest													
Clinton County 3 E Plattsburg Arpk Arpt	16	2217CST 2220CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)				
	Highway	33 north of 280	th St is bloc	ked due to a	large tree	down.							
	Note: Tl	ne estimated wir	nd gust of 52	knots is equ	uivalent to	60 mph.							
Clinton County 1 E Plattsburg	16	2217CST 2220CST			0	0			Thunderstorm Wind (61EG)				
		Damage was reported to a fertilizer structure at Sur-Gro. Note: The estimated wind gust of 61 knots is equivalent to 70 mph.											
Clinton County 1 ESE Plattsburg	16	2217CST 2220CST			0	0			Thunderstorm Wind (61EG)				
	HWY 11	6 near Birch St.	closed due	to live powe	r line acros	s the road alo	ong with num	erous trees	and limbs throughout the city.				
	Note: Tl	ne estimated wir	nd gust of 61	knots is equ	uivalent to	70 mph.							
Clinton County 2 NNE Plattsburg Arpk Arpt	16	2222CST 2225CST			0	0			Thunderstorm Wind (61EG)				
	Damage	of unknown ext	ent near NW	296th St ar	nd NW HW	Y Y near Pla	ttsburg.						
	Note: The	ne estimated wir	nd gust of 61	knots is equ	uivalent to	70 mph.							
Clinton County 2 SE Perrin	16	2222CST 2225CST			0	0	0.00K	0.00K	Thunderstorm Wind (59EG)				
		eur radio spotter ne estimated wir	-			68 mph.							
Clinton County 4 S Gridley	16	2229CST 2232CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)				
		eur radio spotter ne estimated wir	_	_		64 mph.							
Ray County 1 E Richmond	16	2245CST 2248CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)				
	A large t	ree of unknown	size and cor	ndition was o	lown near l	Richmond.							
	Note: Tl	ne estimated wir	nd gust of 52	knots is equ	uivalent to	60 mph.							
Lafayette County 1 NNE Lexington	16	2258CST 2301CST			0	0			Thunderstorm Wind (56EG)				
	No dama	mately two foot age was reported the estimated win	d to the hosp	pital.		. •	exterior wall	of the Laf	ayette Regional health Center.				
Lafayette County Alma	16	2300CST 2303CST			0	0			Thunderstorm Wind (61EG)				
	A 70 mp	h wind caused s	ome structui	al damage t	o school an	d some crops	i.						
	Note: Tl	ne estimated wir	nd gust of 61	knots is equ	uivalent to	70 mph.							

		Time Path Path		Number of Persons		Estimated		June 201	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Dama; Property	ge Crops	Character of Storm
			CO	RREC	TION	S			
MISSOURI, Northwest									
Lafayette County Alma	16	2307CST 2310CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	A foot a	nd a half diamete	er hollowed	out tree fell	near Alma.				
	Note: T	he estimated wir	d gust of 50	6 knots is equ	uivalent to 6	4 mph.			
Platte County 1 S (MCI)KS City Intl Ar	16	2324CST 2327CST	·	•	0	0	0.00K	0.00K	Thunderstorm Wind (56MG)
	ASOS a	t Kansas City Int	ernational A	Airport repor	ted 64 mph	winds.			
	Note: T	he measured wir	d gust of 50	6 knots is equ	uivalent to 6	4 mph.			
Platte County 1 S (MCI)KS City Intl Ar	16	2330CST 2333CST			0	0	0.00K	0.00K	Thunderstorm Wind (56MG)
	ASOS a	t Kansas City Int	ernational A	Airport repor	ted 65 mph	winds.			
	Note: T	he measured wir	d gust of 50	6 knots is equ	ivalent to 6	4 mph.			
Clay County 3 WNW Paradise	16	2334CST was struck by li			0	0	1.00K	0.00K	Lightning
Jackson County 2 W Leeds	17 Lightnir	0000CST	tree to cate	ch fire which	0 then fell on	0 to a house a	50.00K and resulted in	0.00K a house fi	Lightning re.
Pettis County									
Sedalia	17	0000CST 0003CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		ees down in Sed he estimated win		-	-	() mph			
Henry County 1 SW Clinton	17	0120CST 0123CST	a gust of 32	z kilots is equ	0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		trees were down			uivalent to 6	0 mph.			
Platte County 1 S Platte City	17	1959CST 2002CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		teur radio spotter he estimated wir			uivalent to 6	0 mph.			
Clay County 1 S Nashua	17	2005CST 2008CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	A tree o	f unknown size a	nd conditio	n was snappe	ed near Farr	elview.			
	Note: T	he estimated wir	d gust of 50	6 knots is equ	ivalent to 6	4 mph.			
Platte County						r			
1 NE Riverside	17	2007CST 2010CST			0	0	0.00K	0.00K	Thunderstorm Wind (65EG)
		employee report he estimated wir			uivalent to 7	5 mph.			

		Time Local/	/ Length Width			nber of	Estim Dama	ated	June 2017	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			CC	RREC	TION	S				
MISSOURI, Northwest										
Clay County										
1 W Claycomo	17	2010CST			0	0	10.007	0.0017	TI 1 . W' 1 (C1EC)	
		2013CST			0	0	10.00K	0.00K	Thunderstorm Wind (61EG)	
		ch diameter tree f			5					
	Note: 7	The estimated wir	nd gust of 6	1 knots is eq	uivalent to	70 mph.				
Clay County	45	2012.55								
1 W Claycomo	17	2013CST 2016CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)	
					Ü	Ü	0.0011	0.001	Thunderstorm Wind (2020)	
		mage with 5 inch				-				
	Note: 'I	The estimated wir	id gust of 5	6 knots is eq	uivalent to 6	64 mph.				
Clay County 1 N Claycomo	17	2017CST								
1 N Claycomo	17	2017CST 2020CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)	
									,	
		ed spotter reported The estimated wir	-		uivalant ta f	50 mmh				
CI C 4	Note: 1	the estimated wit	id gust of 5	o knois is eq	uivaieni io .	оо шри.				
Clay County 1 N Bigham Hgt	17	2018CST								
11 (Dignum 11gt	17	2021CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
	A trains	d spotter reporte	d a 60 mmh	wind						
		ed spotter reported The estimated wir	-		uivalent to 6	60 mph.				
Jackson County			8							
2 WSW Kansas City	17	2019CST								
		2022CST			0	0			Thunderstorm Wind (52EG)	
	Damag	e done to the Bo	ulevardia e	vent in the	West Botton	ms to tents a	and vendor st	ands cause	ed the event to close early. No	
		estimate was gi							·	
	Note: 7	The estimated wir	nd gust of 5	2 knots is eq	uivalent to 6	60 mph.				
Clay County	45	2025000								
1 E Winnwood	17	2025CST 2028CST			0	0			Thunderstorm Wind (70EG)	
									Thunderstorm Wind (70EG)	
	A traine	ed spotter reporte	d a 80 mph	wind with bl	own transm	itters.				
	Note: 7	The estimated wir	nd gust of 7	0 knots is ea	uivalent to 8	31 mph.				
Clay County			8	1						
2 ENE Bigham Hgt	17	2025CST								
		2028CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
	A NWS	employee report	ed a 60 mp	h wind.						
		The estimated wir			uivalent to 6	60 mph.				
Clay County										
1 E Linden	17	2025CST								
		2028CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)	
	A NWS	employee report	ed a 70 mp	h wind.						
	Note: 7	The estimated wir	nd gust of 6	1 knots is eq	uivalent to	70 mph.				
Jackson County										
2 ESE Dodson	17	2025CST 2028CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
		2020031			U	U	U.UUK	0.00K	munucisionii winu (32EG)	
		ed spotter reporte								
	Note: 7	The estimated wir	nd gust of 5	2 knots is eq	uivalent to 6	60 mph.				

	Time Path Path Number of Local/ Length Width Persons	Estin Dam		June 2017					
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
			CO	RREC	TION	S			
MISSOURI, Northwest									
Jackson County 1 E Leeds	17	2025CST 2028CST			0	0	0.00K	0.00K	Thunderstorm Wind (65EG)
	A trains	d spotter reports	d o 70 90 m	nh wind Do	war flachas	occurred at	the DD station	a across from	m Vauffman Stadium
	Auanic	d spotter reporte	u a 70-80 iii	pii wilid. 1 o	wei masnes	occurred at	the Di station	i across iro	m Kauffman Stadium.
	Note: 7	The estimated win	nd gust of 65	5 knots is eq	uivalent to 7	75 mph.			
Clay County 1 W Claycomo	17	2029CST 2032CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	A traine	ed spotter reporte	d a 60-70 m	ph wind with	h some sma	ll trees down	n.		
	Note: 7	The estimated win	nd gust of 56	6 knots is eq	uivalent to 6	54 mph.			
Jackson County 3 ESE Blue Summit	17	2029CST 2032CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	Several	4 to 6 inch tree l	imbs were b	locking 44th	Street at P	helps Road.			
						_			
	Note: 'I	The estimated win	nd gust of 52	2 knots is eq	uivalent to 6	60 mph.			
Clay County 1 E Linden	17	2030CST 2033CST			0	0			Thunderstorm Wind (52EG)
		former was blow The estimated wir			uivalent to 6	50 mph.			
Jackson County									
2 E Blue Summit	17	2030CST 2033CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	A 3 to 4	inch tree limb w	as down in	Independenc	e.				
		The estimated win				60 mph.			
Jackson County									
3 ESE Blue Summit	17	2034CST 2037CST			0	0	0.00K	0.00K	Thunderstorm Wind (50EG)
		ed spotter reporte	-						
Jackson County	1,0101	The Communication will	ia gust of s	o inioto io eq					
2 NE Blue Spgs	17	2040CST 2043CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		ed spotter reporte The estimated win	-		uivalent to 6	60 mph.			
Jackson County									
2 ESE Blue Spgs	17	2043CST 2046CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)
	A traine	ed spotter reporte	d a 70 mph	wind with tr	ansformers	blowing nea	rby.		
	Note: 7	The estimated win	nd gust of 61	l knots is eq	uivalent to 7	70 mph.			
Jackson County									
3 E Cement City	17	2044CST 2047CST			0	0	0.00K	0.00K	Thunderstorm Wind (50MG)
		ed spotter reporte The measured win			uivalent to 5	58 mph.			

		Time Local/	Path Length	Path Width	Nun Pers	nber of	Estim		June 2017			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Dama Property	Crops	Character of Storm			
			CO	RREC	TION	IS						
MISSOURI, Northwest												
Jackson County Lake Lotawana	17	2045CST 2048CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)			
		h tree branch was The estimated wind		knots is eq	uivalent to	60 mph.						
Lafayette County												
4 SSW Napoleon 4 NNW Odessa	17	2047CST 2053CST	4.75	50	0	0			Tornado (EF0)			
	A tornado formed in western Lafayette County late in the evening of June 17, 2017 just north of Bates City and we Mayview. This tornado remained mostly over rural portions of Lafayette County and caused mostly minor damage to residences as well as snapping trunks of a few large trees.											
Jackson County												
1 E Lake Tapawingo	17	2052CST 2055CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)			
		n tree limb was do The estimated win		knots is equ	uivalent to	60 mph.						
Lafayette County 1 E Odessa	17	2054CST 2057CST			0	0			Thunderstorm Wind (56EG)			
		trees and power l				64 mph.						
Jackson County												
1 N Oak Grove	17	2055CST 2058CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)			
	-	c spotter reported The estimated win	-		uivalent to	70 mph.						
Lafayette County												
1 W Higginsville Jct Arp	17	2110CST 2113CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)			
		ed spotter reported The estimated win			uivalent to	70 mph.						
Lafayette County												
1 N Emma	17	2120CST 2123CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)			
	A traine	ed spotter reported	l a 70 mph v	wind with bl	own transn	nitters nearby	y.					
	Note: 7	The estimated win	d gust of 61	knots is eq	uivalent to	70 mph.						
Linn County												
2 E Fountain Grove	17	2142CST 2143CST			0	0	0.00K	0.00K	Hail (1.00)			
Howard County	17	21.45.65										
Glasgow	17	2147CST 2150CST			0	0			Thunderstorm Wind (61EG)			
	Numero	ous large trees wer	e down thro	oughout the	city. Utility	poles were	also snapped	in half.				
	Note: T	The estimated win	d gust of 61	knots is eq	uivalent to	70 mph.						

		Time	Path	Path Number of		Estim		June 2017	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	age Crops	Character of Storm
			CO	RREC	TION	S			
MISSOURI, Northwest									
Saline County 3 NE Harmony	17	2147CST							
		2150CST			0	0	0.00K	0.00K	Thunderstorm Wind (61EG)
	Numero	ous large trees wer	re down acro	ss town. Ut	ility poles e	ere snapped i	in half.		
	Note: T	The estimated win	d gust of 61	knots is equ	ivalent to 7	70 mph.			
Howard County									
Glasgow	17	2150CST 2153CST			0	0			Thunderstorm Wind (61EG)
		ines and large tree The estimated win			ivalent to 7	70 mph.			
Cooper County									
1 S Otterville	17	2201CST 2204CST			0	0	0.00K	0.00K	Thunderstorm Wind (56EG)
	A large	tree of unknown	size and con	ditions was	down near	Otterville.			
	causing		l damage and	d large hail.	A tornado	occurred in	Lafayette Co	ounty after o	western and central Missouri dark, causing minor damage to nph.
Nodaway County									
2 SSE Pickering	28	1645CST 1649CST			0	0	0.00K	0.00K	Hail (1.75)
Worth County									
3 ENE Worth	28	1732CST 1735CST			0	0			Thunderstorm Wind (65EG)
	-	ooles were snappe The estimated win			ivalent to 7	75 mnh			
Worth County	11010. 1	ne estimated win	a gust of os	Kiloto lo equ	irvalent to 7	o mpii.			
3 NNW Worth	28	1735CST 1736CST			0	0	0.00K	0.00K	Hail (1.00)
Ward Carry									
Worth County 2 N Denver	28	1745CST							
		1748CST			0	0			Hail (1.75)
Gentry County									
1 S Pinhook	28	1745CST 1748CST			0	0			Thunderstorm Wind (61EG)
	•	lamage to outbuil The estimated win	-		ivalent to 7	70 mph.			
Gentry County									
1 S Pinhook 4 SE Lone Star	28	1748CST 1757CST	6.06	75	0	0			Tornado (EF0)
									imately did some EF-1 damage imited to tree damage in rural
Harrison County									
1 NW New Hampton 3 S Bethany	28	1757CST 1814CST	10.31	75	0	0			Tornado (EF1)

		Time Local/	Path Length	Path Width		mber of sons	Estim Dama		June 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NATIONAL DE LA CASA DEL CASA DE LA CASA DE L			CO	RREC	TION	NS			
MISSOURI, Northwest	This tor	nado is a continu	ation of the	tornado tha	t moved o	ut of Gentry (County. This	tornado mo	oved through mainly rural parts
	of Harri	son County, who	ere it produce	ed mostly da	mage to tr	ees. There wa	as a structure		thany that sustained some EF-1
	damage	. Otherwise the d	iamage was i	EF-O WITH TH	ns tornado	across the co	unty.		
Atchison County									
1 N Tarkio	28	1805CST							
		1806CST			0	0	0.00K	0.00K	Hail (1.00)
Atchison County									
1 N Tarkio	28	1812CST							
		1816CST			0	0			Hail (1.75)
Harrison County									
4 NNW Mitchellville	28	1850CST							
		1852CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
		chaser reported							
	Note: T	The estimated win	nd gust of 52	knots is equ	uivalent to	60 mph.			
Grundy County Spickard	28	1900CST							
Бріскаги	28	1903CST			0	0			Thunderstorm Wind (65EG)
	Numero	ous large trees we	ere down bet	ween Mill C	Grove and	Γindall.			
	Note: T	The estimated win	nd gust of 65	knots is ear	uivalent to	75 mph			
Grundy County	1,0,0,1	The optimization with	au gust of oc	moto to eq.		, o inpin			
1 E Spickard	28	1901CST							
		1903CST			0	0	0.00K	0.00K	Hail (1.00)
Putnam County									
Unionville	28	1904CST							
		1908CST			0	0			Thunderstorm Wind (69MG)
	A Misso	ouri Mesonet stat	ion near Uni	onville reco	orded a 79	mph wind gus	st with thunde	erstorms mo	oving through the area.
	Note: T	The measured win	nd gust of 69	knots is equ	uivalent to	79 mph.			
Grundy County									
1 SW Tindall	28	1928CST 1930CST			0	0	0.00K	0.00K	Hail (1.50)
		1750051			O	O	0.001	0.001	Han (1.50)
Nodaway County									
4 NW Arkoe	28	1931CST 1933CST	1.31	25	0	0			Tornado (EF0)
	A weak	tornado formed	near Maryvi	lle, but caus	ed little to	no damage or	itside of some	e tree dama	ge in rural Nodaway County.
Gentry County									
3 W Stanberry	28	1950CST							
		1952CST	1.44	25	0	0	0.00K	0.00K	Tornado (EF0)
	A weak	tornado formed	in rural Gent	ry County, l	but produc	ed little to no	damage outsi	ide of some	e tree damage.
Hamilton Co. 1									
Harrison County 4 NNW Bethany Mem Arpt	28	2010CST							
		2210CST			0	0	0.00K	0.00K	Flash Flood

Emergency Management reported 6 inches of water running over HWY 69 near Bethany.

		Time	Path	Path		ber of	Estin		June 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	rge Crops	Character of Storm
			CO	RREC	CTION	S			
MISSOURI, Northwest									
Harrison County 2 E Martinsville	28	2016CST 2216CST			0	0	0.00K	0.00K	Flash Flood
	Highwa	y FF south of M	artinsville w	as impassibl	e due to hig	th water.			
Daviess County									
1 NE Coffey	28	2055CST 2100CST			0	0			Hail (2.50)
Daviess County									
1 NE Coffey	28	2055CST 2057CST			0	0			Thunderstorm Wind (52EG)
	Fire in 0	Coffey reported 6	60 mph wind	, concurrent	with 2.5 in	ch hail.			
	Note: 7	The estimated win	nd gust of 52	knots is eq	uivalent to 6	60 mph.			
Macon County 1 S La Plata	28	2055CST 2058CST			0	0			Thunderstorm Wind (65EG)
	Numero	ous large trees we	ere down nea	ır La Plata d	ue to strong	thunderstor	m winds.		
	Note: T	The estimated win	nd gust of 65	knots is eq	uivalent to 7	75 mph.			
Macon County 1 SW La Plata	28	2101CST							
15W La Flata	20	2102CST			0	0	0.00K	0.00K	Hail (1.00)
Macon County									
1 SW La Plata	28	2120CST 2123CST			0	0			Thunderstorm Wind (65EG)
	Multiple	e large trees were	e broken as a	result of str	rong thunde	rstorm wind	s.		
	Note: T	The estimated win	nd gust of 65	knots is eq	uivalent to 7	75 mph.			
Nodaway County 1 ENE Parnell	28	2128CST			0	0	0.00K	0.00K	Hail (0.75)
Daviess County		2120001			Ü		0.0011	0.0011	11411 (6175)
4 ENE Carlow	28	2131CST 2134CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	-	partment near Lo		-	•	60 mph.			
Grundy County				•		·			
1 E Trenton	28	2135CST 2138CST			0	0			Thunderstorm Wind (65EG)
	There w	vere several repo	rts of trees a	nd power po	les down ac	eross Trentor	1.		
	Note: 7	The estimated win	nd gust of 65	knots is eq	uivalent to 7	75 mph.			
Nodaway County 4 NW Elmo	28	2207CCT							
7 NNE Gaynor	29	2207CST 0307CST			0	0	0.00K	0.00K	Flash Flood
	across t		closed, and a	it least one v	water rescue	e was perfor	med near Ma		g of June 28. Numerous roads one point a herd of cattle were

		Time	Path Path Length Width		Numb		Estim		June 20		
Location	Date	Local/ Standard	(Miles)	Width (Yards)	Perso: Killed	ns Injured	Dama Property	rge Crops	Character of Storm		
			CO	RREC	TION	S					
MISSOURI, Northwest											
Harrison County											
1 WNW Bethany	28 29	2211CST 0011CST			0	0	0.00K	0.00K	Flash Flood		
		vere reports of n nity Hospital.	umerous flo	oded roadw	ays in Beth	any, as wel	l as water en	itering the	basement of Harrison County		
Gentry County		,									
1 WSW Albany Meml Arpt	28	2327CST									
	29	0127CST			0	0	0.00K	0.00K	Flash Flood		
	Several roads in Albany were flooded, including a closure of HWY 136 across the northside of town due to running water over the roadway.										
Daviess County											
3 E Coffey	29	0357CST			0	0	10 00V	0.001	Eland		
		0957CST			U	0	10.00K	0.00K	Flood		
	A vehic without		adway along	g HWY B w	hen it encou	ntered floo	ded roadway.	. He crashe	d the vehicle, but was rescued		
Grundy County											
3 N Coburn	29	0930CST 1530CST			0	0	0.00K	0.00K	Flood		
									11000		
	Highwa	ys W and WW w	ere closed r	ear Hickory	Creek due to	o water ove	r the roadway	<i>'</i> .			
Nodaway County											
3 SW Conception Jct	29	0930CST									
		1530CST			0	0	0.00K	0.00K	Flood		
	Water w	as over Highwa	y VV.								
	hail and	damaging wind	s, mainly no	orth of Inters	tate 70. The	se storms al	so produced	at least 3 to	ri, producing widespread large ornadoes, all north of Highway nage to a residence occurred.		
	Otherwi	se, the damage v	was confined complex cor	l to tree dam	age to rural	parts of Ha	rrison, Gentry	, and Noda	away Counties. Heavy rain and There were no known injuries		
Cooper County											
Boonville Arpt	29	1940CST							4 (1 00)		
		1941CST			0	0	0.00K	0.00K	Hail (1.00)		
Macon County											
7 ESE Redman	29	2055CST			0	0	0.0017	0.0017			
4 NNE Callao		2255CST			0	0	0.00K	0.00K	Flash Flood		
		e roads that normond, and Road				nches deep	, including R	oad DD ar	nd Highway 63, Road 149 and		
Platte County											
3 WNW Barry	29	2100CST 2101CST			0	0	0.00K	0.00K	Hail (1.00)		
					Ü	O	0.001	0.001	Haii (1.00)		
	Report 1	eceived via MPi	ng.								
Platte County 1 N Lake Waukomis	29	2100CCT									
I IN LAKE WAUKUIIIS	<i>47</i>	2100CST 2101CST			0	0	0.00K	0.00K	Hail (1.00)		
Platte County 1 ENE Lake Waukomis	20	2104CCC			0	0	0.0077	0.0017	Hail (0.75)		
I ENE LAKE WAUKOMIS	29	2104CST			0	0	0.00K	0.00K	Hail (0.75)		

		Time Local/	Path Length	Path Width	Perso	ber of ons	Estim Dama	ige	June 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MICCOLIDI Nasadassad			CO	RREC	TION	\mathbf{S}			
MISSOURI, Northwest									
Platte County 3 WNW Barry	29	2108CST							
o will builty		2109CST			0	0	0.00K	0.00K	Hail (1.00)
Clar County									
Clay County 1 SE Gashland	29	2135CST							
		2136CST			0	0	0.00K	0.00K	Hail (1.00)
Chariton County									
1 E Keytesville	29	2215CST							
1 SE Salisbury		2237CST			0	0			Thunderstorm Wind (65EG)
		le trees and powered a shed roof wa				24 between	Keytesville a	nd Salisbu	ry. Also a grain bin was blown
	Note:	Γhe estimated wi	nd gust of 65	knots is equ	uivalent to 7	75 mph.			
Chariton County 1 WNW Cunningham	29	2333CST							
1 NNW Lagonda	30	0133CST			0	0	0.00K	0.00K	Flash Flood
	Widesp	read road closur	es were repoi	rted across C	Chariton Co	unty as a res	ult of flash flo	ooding.	
Macon County 3 WNW Anabel	30	0145CST							
2 N Macon	30	0345CST			0	0	0.00K	0.00K	Flash Flood
	On the product		e 29 and 30	a couple ro					western and central Missouri, ms also contributed to flooding
NEW YORK, West									
Livingston County									
1 E Geneseo	15 Law en	1521EST forcement report	ed trees and	wires downe	0 ed by thund	0 erstorm wind	10.00K ds.	0.00K	Thunderstorm Wind (50EG)
	Note:	Γhe estimated wi	nd gust of 50) knots is equ	uivalent to 5	58 mph.			
Livingston County									
1 SE Geneseo	15 Thunde	1523EST erstorm winds do	wned trees a	nd power lin	0 es near Ger	0 ieseo.	12.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	Γhe estimated wi	nd gust of 50) knots is equ	uivalent to 5	58 mph.			
Livingston County				-		•			
1 W Conesus	15 Law en	1533EST forcement report	ed trees and	wires downe	0 ed by thund	0 erstorm wind	10.00K ds.	0.00K	Thunderstorm Wind (50EG)
	Note:	Γhe estimated wi	nd gust of 50) knots is equ	uivalent to 5	58 mph.			
Livingston County				-		•			
Livonia	15 Law en	1539EST forcement report	ed trees and	wires downe	0 ed by thund	0 erstorm wind	12.00K ds.	0.00K	Thunderstorm Wind (50EG)
	Note:	Γhe estimated wi	nd gust of 50) knots is equ	uivalent to 5	58 mph.			
Livingston County									
2 NW White Bridge	15 Law en	1631EST forcement report	ed trees and	wires downe	0 ed by thund	0 erstorm wind	10.00K	0.00K	Thunderstorm Wind (50EG)
		·			•				
	Note:	The estimated wi	nd gust of 50	knots is equ	uivalent to 5	8 mph.			

Yasadan	Dete	Time Local/	Path Length	Path Width	Number Persons		Estima Dama;	ge	June 201
Location	Date	Standard	(Miles)	(Yards)		ijured	Property	Crops	Character of Storm
NEW YORK, West			CO	KKEC	TIONS				
Livingston County 2 SSE Ross Corners	15 Law enforc	1632EST cement reporte	d trees and v	vires downed	0 d by thunderst	0 orm winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: The	estimated win	d gust of 50	knots is equ	ivalent to 58 n	nph.			
Wyoming County 1 W Fairview	15 A house wa	1645EST as damaged by	downed tree	es at Lakesh	0 ore Drive and	0 West Sprin	25.00K ngbrook Roa	0.00K ad.	Thunderstorm Wind (50EG)
	Note: The	estimated win	d gust of 50	knots is equ	ivalent to 58 n	nph.			
Allegany County 5 WNW Rushford 4 N Rawson	15	1650EST 2030EST			0	0	30.00K	0.00K	Flash Flood
Monroe County 1 E Mendon	15 Law enforce	1750EST cement reporte	d trees and v	vires downed	0 d by thunderst	0 orm winds.	14.00K	0.00K	Thunderstorm Wind (50EG)
	Note: The	estimated win	d gust of 50	knots is equ	ivalent to 58 n	nph.			
Livingston County 2 E Piffard 3 WSW Lakeville Hannas Arp	15	1825EST 2130EST			0	0	30.00K	0.00K	Flash Flood
	the afterno with trees damaged b produced f	oon hours thun and wires repo by falling trees	derstorms do orted down i at the interse Several road	eveloped alon n parts of Lection of Lab	ong the Lake livingston, Wy keshore Drive	Erie lake be oming and and Spring	reeze. Seve Monroe co brook Road	ral of these ounties. Nea . The heavy	ley and Finger Lakes. During storms reached severe limits ir Silver Lake, one house was y rains that fell from the storm ersection of West Branch and
Ontario County 1 N Seneca Castle	16 Law enforc	1657EST cement reporte	d trees and v	vires downe	0 d by thunderst	0 orm winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: The	estimated win	d gust of 50	knots is equ	ivalent to 58 n	nph.			
Ontario County 1 E Flint	16 Law enfor	1700EST	ed trees and	wires dowi	0 ned by thunde	0 rstorm wir	12.00K ads near the	0.00K intersectio	Thunderstorm Wind (50EG) on of Vogt and Seneca Castle
									oundaries. The thunderstorm of 50 knots is equivalent to 58
Chautauqua County 2 NNE Panama	18 Law enforce	1330EST cement reporte	d trees and v	vires downe	0 d by thunderst	0 orm winds.	12.00K	0.00K	Thunderstorm Wind (50EG)
	Note: The	estimated win	d gust of 50	knots is equ	ivalent to 58 n	nph.			
Chautauqua County 1 SW Summerdale	18 Law enforc	1420EST cement reporte	d trees and v	vires downe	0 d by thunderst	0 orm winds	10.00K on Sherman	0.00K n-Westfield	Thunderstorm Wind (50EG) Road.
	Note: The	estimated win	d gust of 50	knots is equ	ivalent to 58 n	nph.			
Chautauqua County 2 NNE Panama	18 Law enforc	1430EST cement reporte	d trees and v	vires downe	0 d by thunderst	0 orm winds.	10.00K	0.00K	Thunderstorm Wind (50EG)

	_	Time Local/	Path Length	Path Width	Numl Perso	ns	Estim Dama	ige	CI	June 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
NEW YORK, West			CO	RREC	TION	8				
Chautauqua County 3 SSW Nashville	18 Law enf	1432EST Forcement repor	rted trees and	wires down	0 ed by thunde	0 erstorm wind	10.00K ds on Dye Roa	0.00K ad.	Thunderstorm Wir	nd (50EG)
Cattaraugus County 1 N Leon	18	The estimated w 1506EST Forcement report		_	0	0	10.00K ds.	0.00K	Thunderstorm Wir	nd (50EG)
Chautauqua County 2 E Frewsburg	18	The estimated w 1517EST Spotters report		-	0	0	10.00K	0.00K	Thunderstorm Wir	nd (50EG)
Cattaraugus County 1 W Onoville	18	The estimated w 1530EST Forcement report			0	0	10.00K ds.	0.00K	Thunderstorm Wir	nd (50EG)
Cattaraugus County 1 NW Allegany	18	The estimated w 1607EST Forcement report			0	0	10.00 K	0.00K	Thunderstorm Wir	nd (50EG)
Monroe County 1 E Scottsville	18	The estimated w 1615EST ast media report			0	0	10.00K Is on Quaker F	0.00K Road.	Thunderstorm Wir	nd (50EG)
Lewis County 1 NNW Denmark	18	The estimated w 1621EST Forcement report		_	0	0	10.00K ds on Old Stat	0.00K e Road.	Thunderstorm Wir	nd (50EG)
Allegany County Bolivar	18	The estimated w 1624EST Forcement report		•	0	0	10.00K ds.	0.00K	Thunderstorm Wir	nd (50EG)
Livingston County 1 E Geneseo	18	The estimated w 1624EST Forcement report		•	0	0	10.00K ds on Eagle Po	0.00K oint Road.	Thunderstorm Wir	nd (50EG)
Allegany County 1 NW Hume	18	The estimated was 1630EST Torcement report		•	0	0	10.00K ds.	0.00K	Thunderstorm Wir	nd (50EG)
Monroe County 1 SW Brighton	18	The estimated w 1632EST nedia had repor			0	0	12.00K rinds.	0.00K	Thunderstorm Wir	nd (50EG)
	Note: T	he estimated w	ind gust of 50) knots is eq	uivalent to 5	8 mph.				

.	D.	Time Local/	Path Length	Path Width	Number Persons		Estima Damas	ge		e 2017
Location	Date	Standard	(Miles)	(Yards)		ijured	Property	Crops	Character of Storm	
NEW YORK, West			CO.	KKEC	TIONS					
Lewis County 1 NW Croghan	18 Law enforce	1640EST cement reported	trees and v	vires downe	0 d by thunderst	0 orm winds	10.00K on George S	0.00K Street.	Thunderstorm Wind (50E	G)
Ontario County 1 S Manchester	18	estimated wind 1704EST cement reported		·	0	0	12.00K	0.00K	Thunderstorm Wind (50E)	.G)
Lewis County 3 SSW Chase Lake	18	estimated wind 1710EST cement reported		·	0	0	10.00K	0.00K	Thunderstorm Wind (50E)	.G)
Wayne County 1 SE Newark	18	estimated wind 1716EST cement reported		•	0	0	12.00K	0.00K	Thunderstorm Wind (50E)	(G)
Wayne County 1 SE Lyons	18	estimated wind 1724EST cement reported			0	0	10.00K	0.00K	Thunderstorm Wind (50E)	.G)
Cayuga County 3 NNW Weedsport Whtfrds Ar	· 18	estimated wind 1746EST eement reported		·	0	0	10.00K	0.00K	Thunderstorm Wind (50E	G)
Cayuga County 1 S Cato	18	estimated wind 1748EST cement reported			0	0	10.00K	0.00K	Thunderstorm Wind (50E	.G)
Cayuga County 1 SE Meridian	18	estimated wind 1751EST rement reported			0	0	12.00K	0.00K	Thunderstorm Wind (50E	.G)
Oswego County 1 NE Lacona	18	estimated wind 1821EST rement reported		·	0	0	15.00K	0.00K	Thunderstorm Wind (50E	.G)
Oswego County 1 NNE West Amboy	18	estimated wind 1827EST cement reported		·	0	0	10.00K at the interse	0.00K ection of Li	Thunderstorm Wind (50Ettle Pond and Coan Roads.	(G)
Oswego County 1 S Boyleston Center	18	estimated wind 1827EST cement reported		·	0	0	12.00K	0.00K	Thunderstorm Wind (50E	(G)
	Note: The	estimated wind	gust of 50	knots is equ	ivalent to 58 n	nph.				

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nur Pers Killed	nber of sons Injured	Estim Dama Property		June 201 Character of Storm
			CO	RREC	TION	JS	1 ,	1	
NEW YORK, West			CO	MILL	1101	10			
Chautauqua County 2 SE Ellery Center	18 Law en	1840EST forcement reporte	ed trees and	wires downe	0 d by thund	0 lerstorm wind	10.00K ds on Dutch H	0.00K follow Road	Thunderstorm Wind (50EG)
	multi-ce the regi- trees an	ell cluster of stor on from Chautau	ms over nort qua County t by thunderst	theast Penns to Lewis Cor corm winds.	ylvania, tr unty during Several ro	acked northe g the afternoo ads were par	east forming a on and early evitially or comp	line of thu	h-central New York. A severe inderstorms that moved across rs. Law enforcement reported ked by debris from the falling
Niagara County 1 NE Falls	24 A thund	1514EST lerstorm in Niaga	ra Falls proc	luced three-o	0 quarter inc	0 h hail.			Hail (0.75)
Wayne County 1 S East Bay Park	25 A thund	1547EST lerstorm near Por	t Bay produc	ced three-qua	0 arter inch l	0 nail.			Hail (0.75)
Wyoming County 2 NW Dale	26	1546EST			0	0			Hail (1.00)
Oswego County 1 NNW Dexterville	26 With th This spa	1800EST e area under the awned a broken	influence of	unseasonat	0 oly cool ai oroduced h	0 r, an upper a ail of three-o	ir disturbance quarters to one	crossed the-inch in d	Hail (1.00) e region during the afternoon. iameter.
Erie County 1 S West Seneca	27	1715EST			0	0			Hail (0.75)
Erie County 1 S East Hamburg	27 Thunde	1740EST rstorms in Orcha	rd Park and '	West Seneca	0 produced	0 three-quarter	r inch hail.		Hail (0.75)

Path July 2017 Time Path Number of Estimated Local/ Standard Length (Miles) Damage Width Persons Property Date (Yards) Injured Crops Character of Storm Location **CORRECTIONS** LAKE ONTARIO LOZ044 Sodus Bay To Mexico Bay Ny 0400EST 0 0 0.00KMarine Thunderstorm Wind A cluster of thunderstorms moved across eastern Lake Ontario during the pre-dawn hours. Wind gusts to 34 knots were measured at Oswego. LOZ042 Niagara River To Hamlin Beach Ny 0 0 0.00KAn area of thunderstorms moved across western Lake Ontario. Wind gusts were measured to 40 knots at Youngstown and to 54 knots at Olcott. **NEW YORK, West Genesee County** East Pembroke 08 0049EST 0 0 Hail (1.75) **Genesee County** 0 0 Batavia 08 0107EST 20.00K 0.00KThunderstorm Wind (50EG) Law enforcement reported several trees down across the City of Batavia. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. **Genesee County** 12.00K 0.00KThunderstorm Wind (50EG) Batavia 0112EST Law enforcement reported trees down in the Town of Batavia. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Oswego County 0325EST 10.00K 0.00K1 S Hastings Thunderstorm Wind (50EG) Thunderstorm winds downed trees in Hastings. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. Monroe County 2 NNW Sweden Center 0329EST 08 0 0 20.00K 0.00KLightning Oswego County Williamstown 0343EST 0 15.00K 0.00KThunderstorm Wind (50EG) Highway Department reported several trees down near Williamstown. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. **Monroe County** 1 SW Penfield Center 08 0450EST 0 0 25.00K 0.00KLightning **Allegany County** 1 W Little Genesee 08 0712EST 0 0 15.00K 0.00KThunderstorm Wind (50EG) Law enforcement reported trees and wires downed by thunderstorm winds. A cold front slowly advanced its way across the eastern Great Lakes region during the overnight and early morning hours. The thunderstorms produced damaging winds and large hail. Hail up to 1.75, fell in East Pembroke in Genesee County. The thunderstorm winds downed trees and power lines. Route 183 near Williamstown and Route 11 in Hastings were blocked by debris. Two homes in Monroe County, one in Brockport on Monroe-Orleans County Line Road and one in Penfield on Pipers Meadow Trail, were struck by lightning during the pre-dawn hours. All occupants were able to get out without injury. Note: The estimated wind gust of 50 knots is equivalent to 58 mph. **Wyoming County**

An isolated thunderstorm crossed Wyoming County during the evening hours. The thunderstorm winds downed trees and blew

15.00K

15.00K

0.00K

0.00K

Flood

Thunderstorm Wind (50EG)

3 ESE Eagle

Genesee County 1 SSW Batavia 12

13

2200EST

0915EST 2300EST

Law enforcement reported damage from thunderstorm winds.

		Time	Path	Path		ber of	Estim			July 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	Injured	Dama Property	ge Crops	Character of Storm	
			CO	RREC	TION	S				
NEW YORK, West				_						
Erie County 2 SW Sloan 1 ESE Buffalo	13	0933EST 1245EST			0	0	50.00K	0.00K	Flash Flood	
Erie County 1 W West Seneca	13	1011EST 1315EST			0	0	20.00K	0.00K	Flash Flood	
Livingston County 1 WNW Caledonia	13	1031EST 1245EST			0	0	20.00K	0.00K	Flash Flood	
Wyoming County 3 SE Bennington 3 WSW Attica	13	1046EST 1245EST			0	0	30.00K	0.00K	Flash Flood	
Erie County 1 ENE Elma 1 NE Blossom	13	1136EST 1315EST			0	0	15.00K	0.00K	Flash Flood	
Ontario County 2 WNW Ennerdale 1 NW Victor	13	1200EST 1345EST			0	0	50.00K	0.00K	Flash Flood	
Ontario County Geneva	13	1200EST 1345EST			0	0	20.00K	0.00K	Flash Flood	
Wyoming County Attica	13	1200EST 1815EST			0	0	10.00 K	0.00K	Flood	
Erie County 1 WSW Lancaster Depew	13	1345EST 2130EST			0	0	15.00K	0.00K	Flood	
	A conve	ective complex n	noved across	Western Ne	w Vork late	e in the mor	ning This pro	duced a or	ick 2 to 4 inches of ra	in which

A convective complex moved across Western New York late in the morning. This produced a quick 2 to 4 inches of rain which covered a significant portion of the region and resulted in flash flooding that impacted the Buffalo metro area, the Boston/Wyoming hills and parts of the northern Finger Lakes Region. The flash flooding resulted in numerous road closures, including: Back Creek Road in Boston, Route 6 in Geneva, Route 5 in Canandaigua, Prospect Road in Attica, Route 98 between Attica and Varysburg, Route 240 in West Seneca, Walden Ave in Depew, Transit Road in Depew, Scajaquada Expressway in Cheektowaga, Union Road in Cheektowaga, Broadway Ave in Buffalo, and William Street in Cheektowaga and Buffalo. The heavy rain also resulted in river and creek flooding which is relatively rare for July. Tonawanda Creek at Attica and Batavia and Cayuga Creek at Lancaster all exceeded flood stage. Tonawanda Creek at Attica crested at 9.6 feet the third highest crest on record. Flood stage is 8 feet. Tonawanda Creek at Batavia crested at 9.88 feet. Flood stage is 9 feet. Cayuga Creek at Lancaster crested at 11.06 feet. Flood Stage is 8 feet. It was the fifth highest crest on record and the highest warm season crest. Rises were quick on the creeks due to the brief period the rain fell.

Oswego County 3 NE Little France		1206EST orcement reported trees down the estimated wind gust of 50		0 8 mph.	10.00K	0.00K	Thunderstorm Wind (50EG)
Oswego County 1 SSW Amboy Center	14 Law enfo	1218EST orcement reported trees down	0 n on Route 17A.	0	10.00K	0.00K	Thunderstorm Wind (50EG)

		Time	Path	Path	Numbe		Estima		July 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed	s Injured	Damag Property	e Crops	Character of Storm
			CO	RREC	TIONS	3			
NEW YORK, West									
Oswego County 1 N Carterville	14	1236EST			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Thunders	orcement reporte storms develope Voorhees Road,	d along a L	ake Ontario	Lake Breeze	e. One of the	ne storms mo d wind gust o	ved across f 50 knots	Oswego county and downed is equivalent to 58 mph.
Lewis County 1 S Glenfield	17 Law enfo	0531EST preement reporte	d trees dowr	ned by thunc	0 lerstorm wind	0 ds.	10.00K	0.00K	Thunderstorm Wind (50EG)
		of thunderstori trees in Glenfie							hours. Thunderstorm winds
Niagara County 2 N Newfane Hollands Arp	20 Law enfo	1050EST orcement reporte	d trees and v	wires down	0 by thundersto	0 orm winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	d gust of 50	knots is equ	ivalent to 58	mph.			
Erie County 1 W Mt Vernon	20 Law enfo	1128EST orcement reporte	d trees and v	wires down	0 by thundersto	0 orm winds no	15.00K ear St. Mary's	0.00K on the Lak	Thunderstorm Wind (50EG) e Church.
	Note: Th	ne estimated win	d gust of 50	knots is equ	ivalent to 58	mph.			
Erie County 1 SE Locksley Park 2 SW Ellicott	20	1130EST 1140EST	6.11	700	0	0	3.50K	0.00K	Tornado (EF2)
	A NWS s	storm survey cor	nfirmed an E	F2 tornado	touched down	n in Hambu	rg.		
Erie County 2 SSE South Wales	20	1155EST							
2 NNW Holland		1156EST	1.34	450	0	0	100.00K	0.00K	Tornado (EF0)
	A NWS s	storm survey cor	nfirmed an E	EF1 tornado	touched down	n in Holland	1.		
Livingston County 1 NE Lima	20 Law enfo	1224EST preement reporte	d trees and v	wires down	0 by thundersto	0 orm winds.	15.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	d gust of 50	knots is equ	ivalent to 58	mph.			
Allegany County 1 N Hume	20 Law enfo	1227EST preement reporte	d trees and v	wires down	0 by thundersto	0 orm winds o	15.00K n Mills Road	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	d gust of 50	knots is equ	ivalent to 58	mph.			
Allegany County 2 W Houghton College Arp 2 WNW Houghton	20	1229EST 1230EST	1.06	150	0	0	25.00K	0.00K	Tornado (EF0)
	Drone vio	deo provided by	the county of	emergency r	nanager conf	irmed an EF	70 tornado tou	iched down	near Rushford.
Allegany County Caneadea	20 Law enfo	1235EST preement reporte	d trees and v	wires down	0 by thundersto	0 orm winds.	12.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Th	ne estimated win	d gust of 50	knots is equ	ivalent to 58	mph.			

Number of

Estimated

July 2017

Path

Time

Path

Tti	Dete	Local/ Standard	Length	Width	Perso		Damag		Cl
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NEW YORK, West			CO	RREC	TION	S			
<u> </u>									
Allegany County 2 E Houghton	20 Law enf	1235EST Forcement report	ed trees and	wires down	0 by thunders	0 torm winds	15.00K on Council Ho	0.00K ouse Road.	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50	knots is equ	uivalent to 5	68 mph.			
Allegany County 2 E Houghton	20	1242EST Forcement report		Î	0	0	12.00K on Holiday Ro	0.00K oad.	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50	knots is eau	uivalent to 5	8 mph.			
Allegany County 3 N Angelica 3 SSW Scholes	20	1245EST 1252EST	4.22	740	0	0	250.00K	0.00K	Tornado (EF1)
	A NWS	storm survey co	nfirmed an E	EF1 tornado	touched do	wn in Angel	lica.		
Cattaraugus County 5 NNW Riceville	20 Law enf	1302EST Forcement report	ed trees and	wires down	0 by thunders	0 torm winds	12.00K at Beach Tree	0.00K Road and	Thunderstorm Wind (50EG) Highway 240.
	Note: T	he estimated wi	nd gust of 50	knots is equ	uivalent to 5	i8 mph.			
Cattaraugus County 1 S Yorkshire	20 Law enf	1304EST Forcement report	ed trees and	wires down	0 by thunders	0 torm winds	15.00K on Creek Road	0.00K l.	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50	knots is equ	uivalent to 5	8 mph.			
Allegany County 1 E Short Tract	20 Law enf	1335EST Forcement report	ed trees and	wires down	0 by thunders	0 torm winds	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50	knots is equ	uivalent to 5	8 mph.			
Allegany County 1 NNE Angelica	20	1347EST Forcement report		Î	0	0	15.00K o a car.	0.00K	Thunderstorm Wind (50EG)

A nearly stationary frontal zone was located just to the north of the area over far southern Ontario, Canada. A weak wave of low pressure tied to a cluster of thunderstorms moved east along this stalled frontal zone during the late morning and early afternoon. Thunderstorms strengthened across southern Ontario during the late morning. These storms further intensified as they moved into Western NY during the early afternoon. The southernmost storm of the cluster quickly evolved into a long lived cyclic supercell, going through numerous cycles of weakening and strengthening. This storm was responsible for all four tornadoes across Western NY. The storms moved onshore from Lake Erie with damage beginning in Hamburg before moving across Orchard Park. Windows of hundreds of car windows were blown out at the Hamburg Fairgrounds where trees were downed and several buildings including the Grandstand sustained damage. The tornado continued across the Chestnut Ridge Park and the Town of Orchard Park causing more structural and tree damage. About ten miles further down along the thunderstorm's path, a second tornado touched down in the Town of Holland. Several structures were damaged with a significant amount of tree damage. Roads were blocked and wires were downed. Tracks of the Norfolk Southern Railway were blocked in several places by large downed trees. The storm briefly re-intensified near Rushford spinning up a weak tornado over a mainly wooded area. A small shed was destroyed and drone video shows a path of downed and twisted trees. Finally, based on radar and spotter reports two thunderstorms merged and intensified and produced a tornado that extended from the Town of Allen across the Town of Angelica to the Town of West Almond. Several homes were damaged. A barn was severely damaged. Several sheds or small outbuildings were tipped and moved. Numerous large trees were shredded and downed. Some fell causing additional structural damage. These thunderstorms later evolved into a line, producing a corridor of wind damage extending through the Southern Tier of New York. Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

		Time	Path	Path		mber of	Estim		July 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	sons Injured	Dama Property	Crops	Character of Storm
			CO	RREC	TION	IS			
NEW YORK, West				IIIL	71101	10			
Allegany County									
Scio	23 Law ent	1345EST forcement report	ed trees dow	ned by thun	0 derstorm v	0 vinds.	15.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is eq	uivalent to	58 mph.			
Allegany County Belmont	23 Law ent	1345EST forcement report	ed trees dow	ned by thun	0 derstorm v	0 vinds.	12.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is eq	uivalent to	58 mph.			
Allegany County				•		•			
Andover		1416EST ere downed by t				0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is eq	uivalent to	58 mph.			
Ontario County Canandaigua	23 Law ent	1418EST forcement report	ed trees dow	ned by thun	0 derstorm v	0 vinds.	12.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	The estimated wi	nd gust of 50) knots is ea	uivalent to	58 mph.			
Ontario County				1					
2 S Canandaigua	23	1511EST 1830EST			0	0	50.00K	0.00K	Flash Flood
Ontario County									
Canaoice Corners	23	1600EST							
2 SSW Honeoye		2000EST			0	0	20.00K	0.00K	Flash Flood
Genesee County									
2 SW West Bethany 1 SSE Bethany Center	23	1645EST 1800EST			0	0	15.00K	0.00K	Flash Flood
	formed develop produce The sto	along the Lake led on the Lake ded heavy downporm had rainfall	Erie breeze d Ontario bree ours that resu rates in exce	lowned trees eze downed alted in areas ss of four in	s and wires trees and s of flash f nches per l	s in Belmont, wired in Car looding. IN C hour at times	Scio and And nandaigua and andandaigua, with more that	lover. In C d Crystal E the flash f an two-and	ounty, the thunderstorms that Ontario County, the storms that seach. The thunderstorm also looding was rather widespread. I-a-half inches falling in some al cars were stranded in flood
Genesee County 2 E North Bergen	24	0620EST			0	0	75.00K	0.00K	Lightning
Monroe County (ROC)Rochester Arpt	Lakes. Another	A lightning stril	ce caused a le hit the Air	nouse fire in Traffic Co	n Bergen. I	No one was i er. No one w	njured howev	er the hou	Lightning the Genesee Valley and Finger se suffered extensive damage. and flights were not affected

		Time	Path	Path	Number of		Estimated			August 2017
		Local/	Length	Width	Pers	ons	Damag	ge		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

CORRECTIONS

GULF OF MEXICO

GMZ335-355 Galveston Bay - High Is To Freeport Tx Out 20nm

06 1312CST

1429CST 0 0.00K 0.00K Marine Thunderstorm Wind

Thunderstorms moved eastward across the Galveston Bay area and produce several marine wind gusts.

23 1055CST

1100CST 0 0 0.00K 0.00K Waterspout

Morning storms in Galveston Bay produced waterspouts.



A picture of Clear Lake waterspout that was observed from Seabrook, Texas on August 23rd, 2017. Photo courtesy of Helen Odat.

GMZ335-350-355-

Freeport To Matagorda Ship Chnl 20 To 60nm - Freeport To Matagorda Ship Chnl Out 20nm - Galveston Bay - High Is To Freeport Tx Out 20nm

25 0300CST

 $1425 CST \hspace{1.5cm} 0 \hspace{1.5cm} 0.00 K \hspace{1.5cm} 0.00 K \hspace{1.5cm} Marine \hspace{1.5cm} Thunderstorm \hspace{1.5cm} Wind$

Marine thunderstorm wind gusts were observed ahead of Harvey's landfall along the central Texas coast.

IOWA, Central

Humboldt County

3 NW Livermore 13 1230CST 0 0 0.00K 0.00K Funnel Cloud

A trained spotter reported a funnel cloud near US Hwy 169 just south of St. Joseph.

Hancock County
3 NNW Hutchins

13 1321CST 0 0 0.00K 0.00K Funnel Cloud

Public reported a funnel cloud via social media. This is a delayed report and time estimated from radar.

A few showers were around and one produced a funnel cloud near St. Joseph.

Franklin County
7 NNE Alexander

14 0345CST 0 0 50.00K 0.00K Thunderstorm Wind (52EG) Emergency manager reported a large machine shed partially destroyed, partial roof damage, a hog building with door damage

and tin ripped up, and grain storage bins with damage to 2 doors. This is a delayed report and time estimated from radar.

August 2017

		Time Local/	Path Length	Path Width	Numl Perso	ber of ons	Estin Dama	age	August 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
IOWA, Central			CO	ORREC	TION	S			
Story County 3 E Nevada	14 Trained	0530CST spotter reported	l brief pea to	quarter sized	0 d hail betwee	0 en Nevada a	0.00K and Colo on F	0.00K Highway 30	Hail (1.00)
	surface round of bulk she hail. By	low pressure ce f elevated storm ear values aroun y the afternoon	nter slowly r as were strong ad 30 to 40 kt , much of th	made its way gest across n ts. While mo te state found	out of South orthern Iow ost storms we d itself with	h Dakota ar a within an ere sub-sev in the weal	nd into parts of environment ere, a couple k warm secto	of western a of 500-100 were able to or and was a	convection later in the day. A and central Iowa. The morning 10 J/kg MUCAPE and effective to produce damaging winds and able to experience some weak cloud reports were received.
Calhoun County 2 SSE Manson	18 Trained	2138CST spotter reported	l quarter size	d hail lasting	0 g about 3 to 5	0 5 minutes, r	5.00K esulting in so	0.00K me damage	Hail (1.00) to vehicles.
	weak st	urface converg	ence, a clus	ster of storm	is was able	to develop	in west cen	ıtral Minne	40 kts effective bulk shear, and esota. Said cluster of storms report in Calhoun county.
Audubon County									
1 N Audubon Arpt	20 21	0555CST			0	0	0.00K	0.00K	Heavy Rain
	Audubo	n AWOS record	led heavy rai	infall of 3.17	inches over	the last 24	hours.		
Adair County 1 E Adair	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain
	Coop ob	server reported	heavy rainfa	ıll of 2.40 inc	ches over the	e last 24 hou	ırs.		
Carroll County 1 NE Manning	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain
		aHS observer re	ported heavy	rainfall of 3	.37 inches o	ver the last	24 hours.		
Cass County 1 E Massena	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain
		server reported	heavy rainfa	all of 3.43 inc	ches over the	e last 24 hou	ırs.		
Cass County									
2 NE Atlantic	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain
		server reported	heavy rainfa	ıll of 2.99 inc	ches over the	e last 24h ou	ırs.		
Cass County									
3 ESE Anita Muni Arpt	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain
	CoCoRa	aHS observer re	ported heavy	rainfall of 2	.45 inches o	ver the last	24 hours.		
Crawford County									
2 NE Denison	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain
	Coop ob	oserver reported	heavy rainfa	ıll of 6.47 inc	ches over the	e last 24 hou	ırs.		
Crawford County									
Schleswig	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain
	CoCoRa	aHS observer re	ported heavy	rainfall of 4	.64 inches o	ver the last	24 hours.		

		Time	Path	Path		iber of	Estin			August 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ons Injured	Dama Property	age Crops	Character of Storm	
			CO	RREC	TION	S				
IOWA, Central										
Dallas County 1 SSE Shuler Mine	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain	
	CoCoR	aHS observer rep	orted heavy	rainfall of 2	.06 inches of	over the last	24 hours.			
Kossuth County 3 ENE Swea City	20 21 Coop ol	0600CST	neavy rainfa	11 of 2 93 inc	0 ches over th	0 e. last 24 hou	0.00K	0.00K	Heavy Rain	
	F									
Polk County 2 SSE Saydell	20 21 CoCoR	0600CST aHS observer rep	orted heavy	rainfall of 2	0	0 over the last	0.00K	0.00K	Heavy Rain	
	CoCoR	aris ooserver rep	orted heavy	Taillian Of 2	70 menes (over the last	24 Hours.			
Sac County 4 NW Wall Lake	20 21	0600CST			0	0	0.00K	0.00K	Heavy Rain	
	CoCoR	aHS observer rep	orted heavy	rainfall of 3	.30 inches of	over the last	24 hours.			
Dallas County 1 NNW Shuler Mine	20 21	0615CST			0	0	0.00K	0.00K	Heavy Rain	
	Coop of	bserver reported l	neavy rainfa	ll of 2.28 inc	ches over th	e last 24 hou	ırs.			
Guthrie County Guthrie Center	20 21	0700CST			0	0	0.00K	0.00K	Heavy Rain	
	Coop of	bserver reported l	neavy rainfa	ll of 4.85 inc	ches over th	e last 24 hou	ırs.			
Polk County 1 SW Lovington	20 21	0701CST			0	0	0.00K	0.00K	Heavy Rain	
	Mesone	t station recorded	l heavy rain	fall of 2.01 i	nches over	the last 24 ho	ours.			
Cass County										
2 E Atlantic	20 21 Mesone	0715CST	l heavy raint	fall of 2 81 i	0	0 the last 24 ha	0.00K	0.00K	Heavy Rain	
	Wesone	a station recorded	r neavy rann	1411 01 2.01 1	nenes over	ine iust 24 in	ours.			
Crawford County 1 NE Denison	20 21	2140CST 0354CST			0	0	0.00K	0.00K	Heavy Rain	
	Online l	home weather sta	tion recorde	d heavy rair	nfall of 6.34	inches.				
Crawford County 1 W Denison	20 21	2140CST 0355CST			0	0	0.00K	0.00K	Heavy Rain	
	Online 1	home weather sta	tion measur	ed heavy rai	nfall of 4.03	3 inches.				
Audubon County 1 E Audubon	20 21	2230CST 0813CST			0	0	0.00K	0.00K	Heavy Rain	
	Local fi	re department rep	ported heavy	rainfall of	5.30 inches.					

		Time	Path	Path		nber of	Estim		August 2017	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	ge Crops	Character of Storm	
			CO	RREC	TION	IS				
IOWA, Central										
Polk County										
2 W Herrold	20 21	2300CST 1500CST			0	0	0.00K	0.00K	Heavy Rain	
								0.0011	1100017 110001	
	KCCI r	elayed a viewer i	report of hea	vy rainfall o	f 3.60 inche	es since midn	night.			
Guthrie County										
1 E Guthrie Center	20	2315CST								
	21	0220CST			0	0	0.00K	0.00K	Heavy Rain	
	Trained	spotter reported	heavy rainfa	all of 4.30 in	iches.					
Guthrie County										
1 N Guthrie Center	20	2315CST					0.00**	0.0077		
	21	0307CST			0	0	0.00K	0.00K	Heavy Rain	
	Emerge	ncy manager rep	orted heavy	rainfall of 4	.70 inches.					
Polk County										
1 SW Des Moines	21	0100CST			0	0	0.0017	0.0017	H D-:-	
		0731CST			0	U	0.00K	0.00K	Heavy Rain	
	KCCI r	ecorded 2.20 inc	hes of heavy	rainfall ove	rnight.					
Cass County										
1 N Atlantic Arpt	21 Atlantic	0105CST Municipal Airp	ort AWOS r	ecorded a 50	0) kt (58 mpl	0 1) gust.	0.00K	0.00K	Thunderstorm Wind (50MG)	
	Note: 7	The measured wi	nd gust of 50) knots is eq	uivalent to	58 mph.				
Palo Alto County 1 NE Ruthven	21	0108CST			0	0	0.00K	0.00K	Hail (1.00)	
I NE Kutiiveii		bserver reported	quarter sized	l hail.	U	U	0.00K	0.00K	Hall (1.00)	
Cass County										
1 E Atlantic	21	0115CST	1: 1 1		0	0	1.00K	0.00K	Thunderstorm Wind (52EG)	
	Public i	reported several l	arge iimbs d	iown and dai	mage to a si	nea.				
	Note: 7	The estimated wi	nd gust of 52	2 knots is eq	uivalent to	60 mph.				
Cass County										
Atlantic	21 Public r	0120CST reported three inc	h tree limbs	down and n	0 nower poles	0 broken	10.00K	0.00K	Thunderstorm Wind (56EG)	
	i done i	eported three his	in tree innes	down and p	ower poles	oronen.				
	Note: 7	The estimated wi	nd gust of 56	6 knots is eq	uivalent to	64 mph.				
Audubon County	21	0215GGT								
1 SSE Audubon 1 NNW Audubon Arpt	21	0215CST 0615CST			0	0	0.00K	0.00K	Flash Flood	
		forcement reportoadway.	ted water ov	er the road	one half mi	le south of to	own from Blu	egrass Cre	ek. Debris and mud remained	
Poweshiek County										
2 S Brooklyn	21	1805CST			0	0	0.00K	0.00K	Thunderstorm Wind (52EG)	
·	Emerge	ncy manager rep	orted estima	ited 60 to 65	mph winds	at Brooklyn	exit on I-80.		` '	

With the help of a couple weak boundaries in the area, storms initiated on the nose of the low level jet and generally remained over the same areas overnight. The primary result of the storms was heavy rainfall, though a few initial storms were able to produce damaging winds and severe hail within 2000+ J/kg CAPE and borderline effective bulk shear around 30 kts. Other than the few initial severe storm reports, total rainfall reports exceeded 5 inches in some locations. During the afternoon and evening on the 21st, ahead of a cold front, storms once again initiated and produced primarily sub-severe winds and hail, though two weak tornadoes and one severe wind gust were reported. Note: The estimated wind gust of 52 knots is equivalent to 60 mph.

		Time Local/	Path Length	Path Width		mber of	Estim Dama		August 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
			CO	RREC	CTION	NS			
IOWA, Central									
Palo Alto County 1 SE Emmetsburg	26	1000CST 1030CST			0	0	0.00K	0.00K	Heavy Rain
	Coop ob	server recorded	heavy rainfa	ll of 1.35 in	ches over	a 30 minute p	eriod from 11	am to 11:3	30 am CDT.
Pocahontas County 1 NW Pocahontas	26 Trained	1205CST spotter reported	quarter sized	l hail.	0	0	0.00K	0.00K	Hail (1.00)
Pocahontas County 1 SW Pocahontas Muni Arpt	26 Trained	1215CST spotter reported	quarter sized	l hail.	0	0	0.00K	0.00K	Hail (1.00)
	the 60s. western effective	With low pres Iowa and north bulk shear gen	sure located ern Nebrask erally under	over Minn a respective 30 kts. Res	esota, wea ely. In the sulting stor	ak warm from e afternoon, s rms were uno	tal and cold f torms initiate rganized and	rontal bou ed within l sub-severe	many cases and dew points in ndary reflections resided over 000-2000 J/kg MUCAPE and in nature for the most part. A n most often prevailed.
LAKE ERIE									
LEZ145	Vermil	ion To Avon l	Point Oh						
	03 Scattered	2000EST d thunderstorms	moved acros	ss Lake Erie	0 e causing g	0 usty winds.	0.00K	0.00K	Marine Thunderstorm Wind
LAKE ERIE									
LEZ040-041	Dunkir	k To Buffalo	Ny - Riple	y To Dunl	kirk Ny				
	04	1108EST 1142EST			0	0		0.00K	Marine Thunderstorm Wind
		and thundersto o 42 knots at Bu				of an advancii	ng cold front.	The thund	derstorms produced winds that
LAKE ERIE									
LEZ146	Avon P	oint To Willo	wick Oh						
	05 Several v	1755EST waterspouts wer	e reported or	ı Lake Erie.	0	0	0.00K	0.00K	Waterspout
	07	1015EST			0	0	0.00K	0.00K	Waterspout
LEZ145	Vermil	ion To Avon l	Point Oh						
	07 Waterspo	1051EST outs were observ	ved on Lake	Erie.	0	0	0.00K	0.00K	Waterspout
LAKE ERIE									
LEZ041	Dunkir	k To Buffalo	Ny						
	23 Convecti	1730EST	eloped as co			0 ively warmer	waters of Lal	0.00K ke Erie. Th	Waterspout e storms produced waterspouts

		Time Local/	Path Length	Path Width	Numbe Persons		Estin Dama		August 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
LAKE ERIE			CO	RREC	CTIONS	}			
LEZ040-146	Avon I	Point To Willo	wick Oh -	Ripley To	Dunkirk N	v			
222010 110	23	1735EST	, , , , , , , , , , , , , , , , , , ,	-upioj 10	- 	J			
		1809EST			0	0	0.00 K	0.00K	Waterspout
	A water	spout was obser	ved on Lake	Erie.					
LAKE ERIE									
	26	0634EST 0638EST			0	0	0.00K	0.00K	Waterspout
	A water	spout was obser	ved on Lake	Erie.					
LAKE ONTARIO									
LOZ043-044	Hamli	n Beach To So	odus Bay N	y - Sodus	Bay To Me	xico Bay	Ny		
	04	1450EST			0	0		0.0017	M · m · w
		1524EST			0	0		0.00K	Marine Thunderstorm Wind
	Shower gusted t	s and thundersto to 41 knots at O	orms develop swego and 3	ed along ar 4 knots at F	nd ahead of an Rochester.	n advancii	ng cold front	. The thunc	derstorms produced winds that
	22	1200EST			0	0		0.00K	Marine Thunderstorm Wind
	Thunder	rstorms that cros	sed Lake On	tario produc	ed winds gust	ing to 36 l	knots at Irond	lequoit Bay	' .
NEW YORK, West									
Monroe County 1 W Parma Corners	01 Thunde boundar Spencer	ry of the Lakes I	ped in aftern Erie and Onta	noon summ ario lake bre	0 ertime warm eezes produced	0 th and hu d large ha	5.00K midity. One il. Hail up to	0.00K of the storone inch in	Hail (1.00) rms that developed along the a diameter was reported in near
Lewis County 1 NW Lowville	03	1130EST			0	0			He:1 (0.99)
1 NW Lowvine		rstorms that deve	eloped during	g the afterno	on hours prod	uced dime	e- to nickel-si	zed hail.	Hail (0.88)
Erie County									
2 WSW Buffalo	04 Thunder	1140EST rstorm winds tor	e part off of a	a roof buildi	0 ng in Buffalo.	0	35.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50	knots is ear	uivalent to 58	mph.			
Erie County	11000. 1	no estimated wi	na gust of 50	knots is eq	arvarent to 50	mpm.			
3 S Buffalo	04 The Fire	1142EST e Department rep	oorted trees d	own at Oco	0 nnell and Alat	0 oama Stree	10.00K ets.	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	nd gust of 50	knots is equ	uivalent to 58	mph.			
Erie County									
2 NW West Seneca		1143EST ere downed by the estimated wi					15.00K	0.00K	Thunderstorm Wind (50EG)
Erie County									
2 N Lackawanna		1145EST ed tree damaged he estimated wi				0 mph.	15.00K	0.00K	Thunderstorm Wind (50EG)
Erie County			-	1		·			
3 N Lackawanna	04 Trained	1150EST spotters reported	d trees down	on Dash Str	0 reet in Buffalo	0	8.00K	0.00K	Thunderstorm Wind (50EG)

Logation	D-4	Time Local/	Path Length	Path Width	Number Persons		Dama		August 201' Character of Storm
Location	Date	Standard	(Miles)	(Yards)		njured	Property	Crops	Character of Storm
NEW YORK, West			CO	KKEC	TIONS				
Chautauqua County 1 NW Hanover Center	04 Law enfo	1212EST preement report	ted trees dow	n by thunder	0 storm winds o	0 on Hanford	10.00K d Road.	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wi	ind gust of 50	knots is equ	ivalent to 58 i	mph.			
Erie County 1 W Forest Glen	04 Law enfo	1243EST orcement report	ted trees dow	n by thunder	0 storm winds i	0 n the Villa	12.00K age of Hambu	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	ind gust of 50	knots is equ	ivalent to 58 i	mph.			
Orleans County Carlton	04 Law enfo	1247EST orcement report	ted trees and	wires down l	0 by thunderstor	0 m winds i	12.00K in Carlton.	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	ind gust of 50	knots is equ	ivalent to 58 i	mph.			
Erie County Elma		1259EST preement report the estimated wi		•		0 mph.	10.00K	0.00K	Thunderstorm Wind (50EG)
Orleans County 1 SSW Kendall	04 Law enfo	1259EST orcement report	ted trees and	wires down l	0 by thunderstor	0 m winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	ind gust of 50	knots is equ	ivalent to 58 i	mph.			
Oswego County 4 SSE East Boyleston		1354EST storm winds do he estimated wi			0 ivalent to 58 i	0 mph.	8.00K	0.00K	Thunderstorm Wind (50EG)
Wayne County 1 SE Lyons	_	1400EST rees downed by he estimated wi				0 mph.	15.00K	0.00K	Thunderstorm Wind (50EG)
Jefferson County Carthage	04 Law enfo	1437EST preement report	ted trees and	power lines of	0 lown by thunc	0 derstorm v	12.00K vinds.	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	ind gust of 50	knots is equ	ivalent to 58 i	mph.			
Jefferson County 1 SSE Philadelphia	04 Law enfo	1450EST orcement report	ted trees and	wires down l	0 by thunderstor	0 m winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	ind gust of 50	knots is equ	ivalent to 58 i	mph.			
Jefferson County Redwood	04 Law enfo	1522EST preement report	ted trees and	wires down l	0 by thunderstor	0 m winds.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	he estimated wi	ind gust of 50	knots is equ	ivalent to 58 i	mph.			
Cayuga County 1 E Weedsport		1607EST storm winds lift the estimated wi				0 mph.	5.00K	0.00K	Thunderstorm Wind (50EG)
Erie County 1 S Sloan	04 Law enfo	1608EST preement report	ted trees dow	n by thunder	0 storm winds o	0 on Bright S	10.00K Street.	0.00K	Thunderstorm Wind (50EG)

		Time Local/	Path Length	Path Width	Number of Persons		Estim Dama	ge	August 20
ocation	Date	Standard	(Miles)	(Yards)		jured	Property	Crops	Character of Storm
NEW YORK, West			CO	KKEC	TIONS				
Erie County 1 W (BUF)Gtr Buffalo Int	04 Law enf	1610EST orcement report	ted trees dow	n by thunder	0 estorm winds or	0 n Chapel A	10.00K Avenue.	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	ind gust of 50	knots is equ	nivalent to 58 m	ıph.			
Cayuga County 1 SW Meridian		1620EST storm winds do he estimated wi		•		0 nph.	8.00K	0.00K	Thunderstorm Wind (50EG)
Allegany County 1 N Caneadea	04 Law enf	1645EST orcement report	ted trees and	wires down	0 by thunderstorn	0 n winds	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	ind gust of 50	knots is equ	ivalent to 58 m	nph.			
Allegany County 4 NNE Angelica	04 Law enf	1648EST orcement report	ted trees and	wires down	0 by thunderstorn	0 n winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	ind gust of 50	knots is equ	ivalent to 58 m	ıph.			
Jefferson County 1 SE Adams		1653EST d wires were do he estimated wi	•			0 uph	10.00K	0.00K	Thunderstorm Wind (50EG)
Jefferson County Adams	04	1655EST	ma gust of 50	kilots is equ	0	0	5.00K		Hail (1.00)
Jefferson County 1 N Ellisburg	04 Law enf	1656EST forcement report	ted trees and	wires down	0 by thunderstorn	0 n winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	ind gust of 50	knots is equ	nivalent to 58 m	ıph.			
Oswego County 2 WSW Southwest Oswego	04 Law enf	1817EST orcement report	ted trees and	wires down	0 by thunderstorn	0 n winds.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	ind gust of 50	knots is equ	nivalent to 58 m	ıph.			
Wayne County 1 E Wolcott	04 Law enf	1838EST forcement report	ted trees and	wires down	0 by thunderstorn	0 n winds.	12.00K	0.00K	Thunderstorm Wind (50EG)
	winds the Massach	nat downed tree	es and powe In Weedspor	r lines. In l rt, a trampoli	Buffalo, the wi	inds parti nd landed	ally tore the	roof off The thund	derstorms produced damaging a building at Utica Street and erstorms also produced hail up 58 mph.
Oswego County Hannibal	12 Law enf	1300EST orcement report	ted trees and	wires downe	0 ed by thundersto	0 orm winds	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	ind gust of 50	knots is equ	nivalent to 58 m	ıph.			
Oswego County 1 N Granby Center	12 Law enf	1313EST orcement report	ted trees and	wires downe	0 ed by thundersto	0 orm winds	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: T	he estimated wi	ind gust of 50	knots is equ	nivalent to 58 m	ıph.			
Oswego County 1 S Hastings	12 Law enf	1336EST orcement report	ted trees and	wires downe	0	0 orm winds	10.00K	0.00K	Thunderstorm Wind (50EG)

		Time	Path	Path	Numb		Estim		August 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed	ns Injured	Dama Property	ge Crops	Character of Storm
			CO	RREC	TION	S			
NEW YORK, West			00		11011	,			
Oswego County 1 N Central Square	12	1342EST			0	0			Hail (0.88)
Oswego County 2 E Constantia Shrwd Arp	12 Law enfo	1356EST preement reporte	ed trees and	wires downe	0 ed by thunder	0 rstorm wind	8.00K s.	0.00K	Thunderstorm Wind (50EG)
	Note: T	ne estimated wir	nd gust of 50	knots is equ	uivalent to 58	3 mph.			
Oswego County 1 SE West Amboy	12	1358EST			0	0			Hail (0.88)
Oswego County 3 N Carterville	These pr		ng winds an	d hail up to	one-inch in	diameter. N	ear Williams		Hail (1.00) developed along the cold front. ickel- to quarter-size hail was
Ontario County 1 E Pre Emption	An isola	1235EST storm winds dow ted thunderstord d wind gust of £	m produced	damaging v		0 neva. Trees	12.00K were downe	0.00K ed near Ger	Thunderstorm Wind (50EG) neva High School. Note: The
Chautauqua County 1 W Cassadaga		2023EST orcement reported the estimated wire			0	0 2 mph	12.00K	0.00K	Thunderstorm Wind (50EG)
Erie County 1 N Langford	17 Law enfo Convect North C	2121EST orcement reported ive showers who	ed damage fi ich crossed signs were	rom thunder western Ne also damag	0 storm winds. w York duri ed. The wii	0 ng the even	25.00K ing hours pro- trees on Bo	0.00K oduced wir owers Road	Thunderstorm Wind (50EG) ands which blew over a barn in the near Cassadaga. Note: The
Chautauqua County 1 S Pleasantville	22 Law enfo	1107EST orcement reporte	ed trees and	wires down	0 by thunderst	0 orm winds.	12.00K	0.00K	Thunderstorm Wind (50EG)
Chautauqua County 1 S Victoria	22 Law enfo	ne estimated wir 1112EST procement reporte ne estimated wir	ed trees and	wires down	0 by thunderst	0 orm winds.	10.00K	0.00K	Thunderstorm Wind (50EG)
Chautauqua County Ellery Center	22 Law enfo	1114EST orcement reporte	ed trees and	wires down	0 by thunderst	0 orm winds.	8.00K	0.00K	Thunderstorm Wind (50EG)
Chautauqua County 1 N Cherry Creek	22 Spotters	1137EST reported trees do ne estimated wir	owned in Ch	nerry Creek.	0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
Erie County 2 W Collins Center		1141EST storm winds dow ne estimated wir		-		0 3 mph.	10.00K	0.00K	Thunderstorm Wind (50EG)
Cattaraugus County 1 N Leon		1143EST orcement reportence estimated wire		•			8.00K	0.00K	Thunderstorm Wind (50EG)

		Time	Path	Path	Number		Estima		August 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Persons Killed I	njured	Damaş Property	ge Crops	Character of Storm
			CO	RREC	TIONS				
NEW YORK, West									
Cattaraugus County 1 S Cattaraugus	22 Law enfo	1151EST orcement reporte	ed trees dow	ned by thund	0 derstorm wind	0 s.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Monroe County 2 SW Pt Pleasant	22 Law enfo	1217EST orcement reporte	ed wires dov	vned by thun	0 derstorm wind	0 ds on Lase	15.00K er Street.	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Monroe County 1 SE Northeast Henrietta	22 Law enfo	1219EST orcement reporte	ed trees dow	ned by thun	0 derstorm wind	0 s that wer	50.00K re blocking Bri	0.00K ighton-Hei	Thunderstorm Wind (50EG) nrietta Town Line Road.
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Cattaraugus County 1 W Machias	22 Law enfo	1220EST orcement reporte	ed trees and	wires downe	0 ed by thunders	0 torm wind	10.00K ds.	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Wayne County 1 SE West Walworth	22 Law enfo	1230EST preement reporte	ed power lin	es downed b	0 y thunderstori	0 n winds.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Wayne County 1 S Williamson	22 Law enfo	1235EST preement reporte	ed trees dow	rned by thund	0 derstorm wind	0 s.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Wayne County 1 S Palmyra	22 Law enfo	1245EST preement reporte	ed trees dow	ned by thund	0 derstorm wind	0 s.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Allegany County 1 SE Houghton	22 Law enfo	1250EST orcement reporte	ed trees dow	ned by thund	0 derstorm wind	0 s.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Jefferson County 1 SE Watertown	22 Thunder	1325EST storm winds dov	vned a large	tree in the C	0 City of Waterto	0 own.	15.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Oswego County 1 S Mexico	22 Thunder	1337EST storm winds dov	vned a large	tree which o	0 lamaged a truc	0 ck.	20.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Tl	ne estimated wir	nd gust of 50) knots is equ	uivalent to 58	mph.			
Oswego County 1 S Parish	22 Law enfo	1347EST preement reporte	ed trees dow	ned by thund	0 derstorm wind	0 s.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Ti	ne estimated wir	nd gust of 50) knots is equ	aivalent to 58	mph.			

		Time Local/	Path Length	Path Width	Num Perso	ber of	Estim Dama		August 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
			CO	RREC	CTION	\mathbf{S}			
NEW YORK, West									
Oswego County Redfield	22 Law en	1350EST forcement repor	ted trees dow	vned by thun	0 derstorm wi	0 nds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	The estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	8 mph.			
Oswego County 1 N Altmar	22 Law en	1352EST forcement repor	ted trees dow	vned by thun	0 derstorm wi	0 nds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	The estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	8 mph.			
Oswego County 1 S Orwell	22 Law en	1353EST forcement repor	ted trees dow	vned by thun	0 derstorm wi	0 nds.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	The estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	8 mph.			
Cattaraugus County 1 S Randolph	22 Law en	1402EST forcement repor	ted trees dow	vned by thun	0 derstorm wi	0 nds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	The estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	8 mph.			
Cattaraugus County 1 W Little Vly	22 Law en	1409EST forcement repor	ted trees dow	vned by thun	0 derstorm wi	0 nds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	Γhe estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	8 mph.			
Lewis County 2 NE Osceola	22	1410EST forcement repor			0	0	15.00K es damaged a	0.00K house.	Thunderstorm Wind (50EG)
	Note: 7	The estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	i8 mph.			
Lewis County 3 ENE Osceola	22	1412EST rstorm winds do			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	Γhe estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	8 mph.			
Cattaraugus County 1 NW Delevan		1415EST rstorm winds blo The estimated wi	_		0 uivalent to 5	0 58 mph.	15.00K	0.00K	Thunderstorm Wind (50EG)
Cattaraugus County 3 E Ellicottville	22	1421EST forcement repor			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	Γhe estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	i8 mph.			
Lewis County 2 NW Constableville	22	1427EST forcement repor		•	0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	The estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	68 mph.			
Lewis County 1 W Beaches Bridge	22	1429EST forcement repor			0	0	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note: 7	The estimated wi	ind gust of 50	0 knots is eq	uivalent to 5	68 mph.			

		Time	Path	Path	Numb		Estim		August 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Person Killed	is Injured	Dama Property	ge Crops	Character of Storm
			CO	RREC	CTIONS	5			
NEW YORK, West									
Lewis County 1 N Tallcottville	22 Law en	1430EST forcement repor	rted trees dow	ned by thun	0 derstorm win	0 ds.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	The estimated w	ind gust of 50) knots is equ	uivalent to 58	3 mph.			
Wyoming County 1 S Pike	22 Law en	1433EST forcement repor	rted trees dow	ned by thun	0 derstorm win	0 ds.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	The estimated w	ind gust of 50) knots is equ	uivalent to 58	3 mph.			
Lewis County 1 W Lyonsdale	22 Law en	1437EST forcement repor	rted trees dow	ned by thun	0 derstorm win	0 ads.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	The estimated w	ind gust of 50) knots is equ	uivalent to 58	3 mph.			
Allegany County Caneadea	22 Law en	1443EST forcement repor	rted trees dow	ned by thun	0 derstorm win	0 ds.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	The estimated w	ind gust of 50) knots is equ	uivalent to 58	3 mph.			
Allegany County 1 NE Belfast	22 Law en	1445EST forcement repor	rted trees dow	ned by thun	0 derstorm win	0 ods.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	Γhe estimated w	ind gust of 50) knots is equ	uivalent to 58	3 mph.			
Livingston County 1 E Nunda		1446EST erstorm winds do The estimated w				0 S mph	10.00K	0.00K	Thunderstorm Wind (50EG)
Ontario County 1 E Farmington	22	1505EST forcement report			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	The estimated w	rind gust of 50) knots is equ	uivalent to 58	3 mph.			
Cayuga County 1 S Cato	22 Law en	1542EST forcement report	rted trees dow	ned by thun	0 derstorm win	0 ds.	8.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	The estimated w	ind gust of 50) knots is equ	uivalent to 58	3 mph.			
Cayuga County 1 SE Ira	22 Law en	1548EST forcement repor	rted trees dow	ned by thun	0 derstorm win	0 ads.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	Γhe estimated w	ind gust of 50) knots is equ	uivalent to 58	3 mph.			
Jefferson County 1 SE Watertown	22 Law en	1648EST forcement repor	rted trees dow	ned by thun	0 derstorm win	0 ods.	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note:	The estimated w	rind gust of 50) knots is equ	uivalent to 58	3 mph.			
Jefferson County Carthage	22 Law en	1712EST	rted trees dow	ned by thun	0 derstorm win	0 ods.	10.00K	0.00K	Thunderstorm Wind (50EG)

Three waves of severe storms moved across western and north-central NY making for an almost 8-hour severe event. The first thunderstorms which developed over northeast Ohio and northwest Pennsylvania moved across the western southern tier. The second round of thunderstorms developed mid-afternoon again across the western southern tier. These storms then moved across western New York to the eastern Lake Ontario region. The third wave of storms developed along an advancing cold front during the evening hours over the Niagara Peninsula then moving across western New York. Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

		Time		th Numb		Estima		August 201
Location	Date	Local/ Standard		ridth Person (ards) Killed	ns Injured	Dama; Property	ge Crops	Character of Storm
			CORF	RECTION	S			
OHIO, North								
Ashtabula County								
1 N Windsor	02	1343EST		0	0	15.00K	0.00K	Thunderstorm Wind (50EG)
	Thunder	storm winds dov	vned a few trees a	nd some utility line	es near Win	dsor.		
	Note: T	he estimated wir	nd gust of 50 knot	s is equivalent to 5	8 mph.			
Seneca County								
Tiffin	02	1414EST	1	0	0	0.00K	0.00K	Hail (0.75)
	A cold f	zed hail was obs ront moved acro derstorms becan	oss northern Ohio	on August 2nd. So	cattered thu	nderstorms de	eveloped a	along this front. At least one of
Seneca County								
1 E Tiffin	03 Penny si	1844EST zed hail was obs	served	0	0	0.00K	0.00K	Hail (0.75)
Seneca County	1 chiny si	zed hair was oos	er ved.					
1 E Tiffin	03	1844EST		0	0	0.00K	0.00K	Thunderstorm Wind (52EG)
	A traine	d spotter estimat	ed thunderstorm v	vinds gusts at 60 m	ph.			
				August 3rd. At levalent to 60 mph.	ast one pro	duced some	small hail	and gusty winds. Note: The
Trumbull County	0.4	4.4. 2 c E C E						
Vernon Orangeville	04	1126EST 1129EST		0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
								,
	Thunder	storm winds dov	vned multiple tree	s in the Vernon Ce	nter and Or	angeville area	S.	
	Note: T	he estimated wir	nd gust of 50 knot	s is equivalent to 5	8 mph.			
Medina County								
1 SSW Windfall	gusts. T		the front half of the					Thunderstorm Wind (50EG) ed down by thunderstorm wind ving. Her baby in the back seat
	Note: T	he estimated wir	nd gust of 50 knot	s is equivalent to 5	8 mph.			
Lorain County								
1 NNE Oberlin	04 Thunder	1220EST storms winds do	wned several larg	0 e tree limbs	0	2.00K	0.00K	Thunderstorm Wind (50EG)
			_	s is equivalent to 58	8 mph.			
Richland County								
Lucas	04 Thursday	1240EST	runad sama tuass a	0	0	25.00K	0.00K	Thunderstorm Wind (50EG)
	Thunder	storiii wiiius uov	viied some trees a	nd power lines in the	ie Lucas an	ea.		
	Note: T	he estimated wir	nd gust of 50 knot	s is equivalent to 5	8 mph.			
Trumbull County								
Girard	04 Thunder	1312EST storm winds dox	wned several trees	0 A couple homes:	0 sustained da	35.00K amage from fa	0.00K llen trees.	Thunderstorm Wind (50EG)
				1				
	Note: T	he estimated wir	nd gust of 50 knot	s is equivalent to 5	8 mph.			
Portage County Ravenna	04	1400EST		0	0	10.00K	0.00K	Thundaratorm Wind (50EC)
Kaveilla			vned a few large t	ree limbs across the		10.00K	0.00K	Thunderstorm Wind (50EG)
	NT (TO	ho antit 1 '	ad anat -£501	a ia ami1- · · · · · · ·	O 1-			
Doute as Court	Note: T	ne esumatea wii	ia gust of 50 knot	s is equivalent to 58	5 трп.			
Portage County Kent	04	1412EST						
 -	· ·	1415EST		0	0	25.00K	0.00K	Thunderstorm Wind (50EG)

		Time Local/	Path Length	Path Width		mber of	Estim Dama		August 201
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
			CO	RREC	CTION	NS			
OHIO, North					,				
Geauga County									
2 ENE Parkman	04	1435EST			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
		rstorm winds do			. 1	50 1			
	Note: 1	he estimated wi	na gust of 50) knots is eq	uivaient to	58 mpn.			
Geauga County 2 ENE Parkman	04	1435EST			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
2 ENE I al Killali		rstorm winds do	wned several	l trees.	U	U	10.00K	0.001	Thunderstorm wind (50EG)
	Note: T	he estimated wi	nd gust of 50) knots is eq	uivalent to	58 mph.			
Stark County									
Waynesburg	04	1604EST			0	0	0.00K	0.00K	Funnel Cloud
		d spotter reporte			al Great L	akes on Augu	ıst 4th forcine	a strong o	cold front across the region. A
									orms developed right along the
	front be	ginning around	midday. Bo	th lines proc	luced sever	re weather.			
Cuyahoga County									
1 SSW Beachwood	10	1710EST							
1 S Pepper Pike		1930EST			0	0	2.00M	0.00K	Flash Flood
	An isola	ated thunderstor	m develone	d on an afte	rnoon lake	hreeze on A	monst 10th T	his storm	, though small in structure and
	spatial c	overage, had a l	nigh rainfall	rates. The ra	in started a	around 5 pm a	and ended aro	und 7 pm.	The storm peaked around 6 pm
									age in Beachwood just west of 4.5 in Pepper Pike. The storm
									on first floors. Over 200 homes
	and bus	inesses experier	nced water d	amage, prin	narily from	backed up s	torm drainage	into base	ments.
									the lake breeze over eastern the high rainfall rates combined
									Pike community.
Lake County									
Concord	11 Thunder	1015EST rstorm winds do	wned a coun	le of trees n	0 ear Concor	·d	2.00K	0.00K	Thunderstorm Wind (50EG)
		he estimated wi	-						
Cuyahoga County			Ü						
Shaker Hgts	11	1654EST			0	0	0.00K	0.00K	Hail (0.88)
		sized hail was ob							, ,
	A broke this line		erstorms dev	eloped over	northern (Ohio on Augi	ust 11th. The	re were a	couple reports of damage from
M. P. G. G.	uns me	·•							
Medina County 1 S Lafayette	17	1524EST			0	0	1.00K	0.00K	Thunderstorm Wind (50EG)
1 5 Daily ette		rstorm winds do	wned several	l large tree l					
	Note: T	The estimated wi	nd gust of 50) knots is eq	uivalent to	58 mph.			
Medina County									
2 SSW Medina	17 Thunder	1527EST rstorm winds do	wned a large	tree	0	0	1.00K	0.00K	Thunderstorm Wind (50EG)
		he estimated wi			uivalent to	58 mph.			
Trumbull County				1		1			
1 SSW Fowler	17	1811EST							
Nutwood		1819EST	1.04	100	0	0	50.00K	0.00K	Tornado (EF1)
	A C	1 1 10		c	.1 1 .		d .	т.	

A funnel cloud formed east of Warren from a thunderstorm moving northeast across Trumbull County. The funnel was observed for many minutes and passed a few miles north of the Youngstown-Warren Regional Airport. A tornado eventually developed and touched down just northwest of the intersection of State Routes 193 and 305 near Fowler. A mobile home near that location was knocked off it's foundation and lost some metal sheeting. The tornado crossed State Route 193 and moved northeast across a wooded area. Over 100 trees were snapped or uprooted in the woods with a clear convergent pattern evident. Most of the trees were hardwood and wind speeds were estimated to be at least 90 mph. The tornado lifted before reaching Sodom Hutchings Road after being on the ground for just over a mile. The damage path was more than 100 yards in width some of time. The damage was intermittent for the first portion of the tornado track.

Path Path Number of August 2017 Time Estimated Local/ Standard Length (Miles) Width (Yards) Damage Property Persons Injured Location Date Character of Storm

CORRECTIONS

OHIO, North



A picture of tree damage from an EF-1 tornado that developed near Fowler in Trumbull County, Ohio on August 17th, 2017. Photo courtesy of NWS.

Trumbull County (YNG)Youngstown Muni

17 1900EST 1920EST 0.00K0.00KFunnel Cloud

A weather observed at the Youngstown-Warren Regional Airport observed a funnel cloud for around 20 minutes. The funnel developed just east of the airport and moved east. No touchdown was observed.

A warm front lifted across northern Ohio on August 17th as an area of low pressure moved across the northern Great Lakes. A cluster of thunderstorms developed in advance of this front and moved across northern Ohio during the afternoon and early evening hours. One of thunderstorms produced a tornado in Trumbull County. A second storm produced a funnel cloud nearby. Most of the tornado damage was from downed trees.

Knox	County
2 E	Fredericktown

0 15.00K 0.00KThunderstorm Wind (50EG) Thunderstorm winds downed a few trees and some power lines along Montgomery Road east of Fredericktown.

	Note: The estimated wind gust of 50 knots is equivalent to 58 mph.										
Mahoning County 1 SE New Buffalo	19 Hail the	1343EST e size of quarters was observed.	0	0	0.00K	0.00K	Hail (1.00)				
Stark County											
2 S Alliance	19	1345EST 1346EST	0	0	0.00K	0.00K	Hail (0.88)				
	Penny	to nickel sized hail was reported.									
Stark County Waynesburg	19 Hail the	1353EST e size of quarters was observed.	0	0	0.00K	0.00K	Hail (1.00)				
Knox County 2 SW Monroe Mills	19	1407EST	0	0	0.00K	0.00K	Hail (1.00)				

Hail the size of quarters was observed. A cold front moved across northern Ohio on August 19th causing scattered showers and thunderstorms to develop. A couple of thunderstorms became severe.

		Time	Path	Path		nber of	Estim		August 2017
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dama Property	ge Crops	Character of Storm
			CO	RREC	TION	IS			
OHIO, North				1112					
Sandusky County Clyde	21 Penny siz	1438EST ed hail was ob	oserved.		0	0	0.00K	0.00K	Hail (0.75)
Sandusky County Green Spgs	21	1439EST			0	0	0.00K	0.00K	Hail (1.00)
	Hail the s	ize of quarters	s was observe	d.					
Trumbull County Niles	21 Nickel siz	1509EST red hail was ol	bserved.		0	0	0.00K	0.00K	Hail (1.00)
Erie County Huron		1526EST ize of quarters thunderstorms			0 Ohio. There	0 e were a few	0.00K reports of sev	0.00K ere weathe	Hail (1.00) er.
PENNSYLVANIA, North	hwest								
Erie County Waterford	04	1119EST torm winds do	owned a large	tree. The tr	0 ee damaged	0 d a parked ve	15.00K chicle.	0.00K	Thunderstorm Wind (50EG)
	Note: Th	e estimated w	ind gust of 50	knots is equ	ivalent to	58 mph.			
Crawford County Springboro		1120EST torm winds do e estimated wi			0 nivalent to :	0 58 mph.	0.00K	0.00K	Thunderstorm Wind (50EG)
Erie County 1 SE Middleboro	04 Thunders	1128EST torm winds do	owned a tree.		0	0	1.00K	0.00K	Thunderstorm Wind (50EG)
0 6 10 4	Note: In	e estimated w	ina gust of 50	knots is equ	iivaient to :	os mpn.			
Crawford County Conneaut Lake		1157EST torm winds do			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Note: Th	e estimated w	ind gust of 50	knots is equ	ivalent to	58 mph.			
Crawford County Saegertown		1241EST torm winds do			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
G 4 1 G	Note: Th	e estimated w	and gust of 50	knots is equ	iivalent to :	58 mph.			
Crawford County Townville		1258EST torm winds do			0 nivalent to :	0 58 mph.	10.00K	0.00K	Thunderstorm Wind (50EG)
Crawford County Cochranton	04	1420EST			0	0	10.00K	0.00K	Thunderstorm Wind (50EG)
	Thunders An area of the front and	torm winds do of low pressur understorms d	e moved acro leveloped in a s western Pen	oss the centradvance of the nsylvania la	al Great La ne front late	ikes on Augu	ust 4th forcing	g a strong of	cold front across the region. A orms developed right along the weather. Note: The estimated
TEXAS, Central Southea	<u>ast</u>								
TXZ237	Brazori	a							
	07 Two peop	1010CST ole drowned do	ue to rip curre	ents. M67IV	2 V, M46IW	0	0.00K	0.00K	Rip Current

		Time Local/	Path Length	Path Width	Pers		Estima Damag	ge	August 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, Central Southeast			CO	RREC	TION	NS			
Walker County 4 NW Loma	07 A carport v	1145CST vas flattened w	ith some da	mage to an a	0 adjacent st	0 ructure.	8.00K	0.00K	Thunderstorm Wind (52EG)
Matagarda Carreto		storm produce to 60 mph.	ed strong w	ind gusts tl	hat caused	l some dama	iged. Note: T	The estima	ated wind gust of 52 knots is
Matagorda County 1 WNW S Texas Nuclear Pland	. 10	0852CST 0854CST			0	0	0.00K	0.00K	Funnel Cloud
	A funnel cl	loud was report	ted near the	South Texas	s Nuclear	Plant.			
	A funnel cl	loud was sighte	ed in Matago	orda County	•				
Galveston County 2 ENE Galveston	18 A funnel cl	0735CST loud was obser	ved near Ha	rborside Dr	0 ive on Gal	0 veston Island	0.00K	0.00K	Funnel Cloud
Galveston County 2 ENE Galveston	18 A second fi	0739CST unnel cloud wa	us observed	near Harbor	0 side Drive	0 on Galvestor	0.00K n Island.	0.00K	Funnel Cloud
	Two funne	l clouds were s	ighted on G	alveston Isla	and.				
TXZ176-195>198- 200-211>212-214- 226-235>237	Austin - ! Waller -	Brazoria - B Washington	razos - Bu - Wharto	ırleson - (on	Chambei	rs - Grimes	- Jackson -	Liberty	- Madison - Matagorda -
110 1 00 1 0 (25 29	1200CST 0000CST			0	0	4.866B		Tropical Storm
Galveston County 3 ENE Galveston	25	1318CST 1319CST	0.12	20	0	0	0.50K		Tornado (EF0)
	Funnel clo	ud sighting wit	h fence dam	age near Fe	rry Road.				
Brazoria County Perry Lndg	25	1430CST 1431CST	0.23	30	0	0	30.00K	0.00K	Tornado (EF0)
	Very brief	tornado touche	d down nea	r HWY 36 v	with nume	rous trees sna	pped or down	ed. Barn al	so damaged.
Matagorda County									
4 SSE Sargent	25	1508CST 1514CST	2.18	50	0	0	500.00K	0.00K	Tornado (EF1)
		e. Numerous t							to one home and overturning a famage to several homes and
Brazoria County 2 W Bailey Prairie 3 NNE East Columbia	25	1711CST 1720CST	3.98	50	0	0	100.00K		Tornado (EF0)
	neighborho		way 35. A	barn and se	everal outh	ouildings wer			roofsand outbuildings in a east side of the Brazos River.
Brazoria County Oyster Creek	25	2053CST			0	0	0.00K	0.00K	Funnel Cloud

		Time Local/	Path Length	Path Width	Num Pers	nber of	Estima Dama		Au	gust 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
TEXAS, Central Southeast			COl	RREC	TION	S				
Brazoria County 1 S Danbury 3 E Chenango	25	2144CST 2152CST	4.76	50	0	0	100.00K		Tornado (EF0)	
	Hwy 35		r an open fie	ld. The tor	nado then				207. The tornado then cress along County Rd 45 b	
Brazoria County 1 W Liverpool 5 SE Manvel Coyle Arpt	25	2328CST 2337CST	4.31	50	0	0	50.00K	0.00K	Tornado (EF0)	
	Gulf Coa		he tornado th						ong with several trees nea ome barns and outbuilding	
Jackson County 5 W Morales 3 W El Toro	25 26	2345CST 0245CST			0	0	100.00K	0.00K	Flash Flood	
	County r	oads 283, 284, 4	01, and 127 i	north of the	town of E	dna were inu	ndated with fl	ood waters		
Brazoria County 3 SSW Iowa Colony	25	2350CST 2357CST	1.57	50	0	0	500.00K	0.00K	Tornado (EF0)	
	288. Dar		y confined to	roofs fer					g county road 56 and hig Damage path crossed co	
Fort Bend County 2 ESE Juliff	25	2350CST 2357CST	1.57	50	0	0	500.00K	0.00K	Tornado (EF0)	
	288. Dar		y confined to	roofs fer					g county road 56 and hig Damage path crossed co	
Fort Bend County 1 NNE Sugarland Jct	25	2356CST 2359CST	1.46	100	0	0	500.00K		Tornado (EF1)	
		tracked across See Ct were harde		tion subdiv	vision dow	ning trees an	nd damaging r	oofs on ab	out 25 homes. Vieux Car	re Ct
Fort Bend County 4 SSE House 6 SSE Juliff	26	0000CST 0200CST			0	0	0.00K	0.00K	Flash Flood	
	Major re Rosharor County. Barker, (River, R including Parkway Greenwo	n. Massive flood Home flooding Cumings, Sixth ivers Edge and g, but not limite , Carrol Road, Nood Drive, Second	ing of both t ding occurred occurred at V Street, Aver Pecan Estate d to, Highwand AcKeever Roand McKeever and	he Brazos ad in Tierra I alley Lodg I alley B and I es in Thom ay 90A, Pit ad, Knights I low lying	and San Be Grande sul ge in Simon Rio Brazos apsons floc tts Road, F Court, Mi roads in Q	ernard Rivers bdivision ald nton, along I s Roads in R oded. Many FM 1489, FM ller Road, riv puail Valley	s caused significations the San B Edgewood and cosenberg. Secountywide r M 723, FM 10 ver Oaks Road in Missouri C	ernard Rivid Baudet Rictions of Foads becans, FM 351, Thompsofity. Due t	ne flooding from Richmo fer in southwestern Fort oads in Richmond, along M 2759 as well as the C me inundated in flood w 199, SH 6 feeder roads, S ons Ferry Road, Strange I o record pool levels in B g of homes on Ansel Ro	Bend g Bar, Grand vaters ienna Drive, sarker
TXZ213	Harris									
	26 30	0000CST			36	0	10.0B		Tropical Storm	

Location	Time Path Path Number of Local/ Length Width Persons Date Standard (Miles) (Yards) Killed Injured		Estima Damaş Property		August 201' Character of Storm				
			CO	RREC	TION	IS			
TEXAS, Central Southeast									
Wharton County 4 S Egypt	26	0110CST 0112CST	1.45	30	0	0	0.00K	0.00K	Tornado (EF0)
	Brief touc	hdown. Tornado	Damage S	ignature on	radar.				
Fort Bend County 5 W Clodine	26	0112CST 0114CST	0.11	30	0	0	30.00K	0.00K	Tornado (EF0)
	Roof dam	age to a home n	ear Westpar	k Tollway a	and Grand	Parkway.			
Jackson County 12 WSW Morales 10 WSW El Toro	26	0245CST 0530CST			0	0	100.00K	0.00K	Flash Flood
	Numerou	s roads and bridg	ges north of	Highway 5	9 and west	of FM 822 w	ere inundated	with floor	d waters.
Harris County 2 S Lake Houston	26	0330CST 0332CST	1.02	30	0	0	100.00K	0.00K	Tornado (EF0)
			down result	ing in dama	age to tree	s, fences and	l roofs in Lak		d Summerwood subdivisions.
Fort Bend County 3 WSW Katy	26	0357CST 0400CST	0.4	50	0	0	200.00K	0.00K	Tornado (EF1)
		appeared to touch n north side of I							t then damaged Pepperl Fuchs
Waller County 3 WSW Katy	26	0357CST 0400CST	0.4	50	0	0	200.00K	0.00K	Tornado (EF1)
	Tornado a facility of	appeared to touch n north side of I	ch down at a interstate. T	an RV and ornado cros	boat storag	ge facility the Fort Bend int	en cross Inter to Waller Cou	state 10. I inty.	t then damaged Pepperl Fuchs
Matagorda County 23 WNW Pledger 6 NW (PSX)Palacios Muni A	26	0545CST 0815CST			0	0	0.00K	0.00K	Flash Flood
	Bay City The El De	were flooded.	ve, and Tres	Palacios su	ıbdivisions	along the Tr	es Palacios R		sworth. Portions of SH 35 near ed. Major flooding occurred in
Harris County 1 WSW Louetta 1 NNE Jersey Village	26	0600CST 1600CST			0	0	0.00K	0.00K	Flash Flood
	Sections of	of US 290 were	closed due to	o flooding b	etween the	e 610 Loop an	nd FM 529 in	Jersey Vil	lage.
Brazos County 2 WSW Enright	26	0705CST 0706CST	0.16	20	0	0	0.00K	0.00K	Tornado (EF0)
	Tree dow	n at property on	Olympia Bu	ıddy Road.	A brief spi	n up.			

		Time Local/	Path Length	Path Width		nber of sons	Estima Damas		August 201	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			CO	RREC	TION	IS				
TEXAS, Central Southeast			•			, ~				
Matagorda County 1 NNW Blessing	26	1200CST								
4 NE Markham	27	1700CST			0	0	0.00K	0.00K	Flash Flood	
	Sections	of SH 35 were	closed due to	flash flood	ina					
D. H. C.	Sections	311 33 WEIE (liosed due to	masii mood	ilig.					
Polk County 4 NW Onalaska	26	1215CST								
11 SW Lake Livingston Dam	20	1430CST			0	0	300.00M	0.00K	Flash Flood	
5	_									
	There was high flood water on roads FM 3126 and FM 356 along the eastern shore of Lake Livingston. The lowest homes and businesses within close vicinity of the lake, Trinity River and Long King Creek flo the southern end of Lake Livingston such as FM 3278 were inaccessible, FM 3128 and FM 1988 near Long flooded. Major lowland flooding occurred on the Trinity River near Goodrich.									
Galveston County										
3 E Port Bolivar Arpt	26	1315CST								
1 ESE Rollover		1430CST			0	0	0.00K	0.00K	Flash Flood	
	Low lying	g sections of Hi	ghway 87 on	the Boliva	r Peninsula	were flooded	I due to rain.			
Harris County										
4 WSW Houston Weiser Arpt	26	1450CST								
4 S Cypress		1457CST	0.94	50	0	0	500.00K	0.00K	Tornado (EF1)	
	Trees dow	vned and roof d	amage near l	Berry Cente	er and Lone	e Oak Subdivi	sion.			
Harris County										
2 SE Cypress	26	1520CST	0.50	50	0	0	20.0017	0.0017	T 1 (DE0)	
		1522CST	0.52	50	0	0	30.00K	0.00K	Tornado (EF0)	
	A second	tornado spotteo	d near Hwy 2	90 and Bar	ker Cypres	s.				
Harris County										
3 NW Cypress	26	1600CST								
		1730CST			0	0	0.00K	0.00K	Flash Flood	
	Flash floc	oding was repor	ted in and ar	ound the to	wn of Cyp	ress.				
		0 1			71					
Wharton County										
1 NNW East Bernard	26	1623CST								
		1626CST	0.54	30	0	0	50.00K	0.00K	Tornado (EF0)	
	Trees dow	vn along a soutl	heast to north	west path.	Horse trail	er overturned.	Tornado caug	ght on vide	О.	
Fort Bend County										
Kendleton	26	1840CST								
1 NW Katy	29	2000CST			3	0	8.00B	50.00K	Flash Flood	
	There we	re numerous ro	ad closures	around the	Rosenberg	and Richmor	nd areas. Som	e of these	roads included Highway 90 at	

There were numerous road closures around the Rosenberg and Richmond areas. Some of these roads included Highway 90 at Highway 36 and Lane Drive, Lane Drive at Mustang Road and I-69 at FM 762 and Reading Road. Major record level flooding of both the Brazos and San Bernard Rivers caused significant home flooding from Richmond to Rosharon. Massive flooding occurred in Tierra Grande subdivision along the San Bernard River in southwestern Fort Bend County. Home flooding occurred at Valley Lodge in Simonton, along Edgewood and Baudet Roads in Richmond, along Bar, Barker, Cumings, Sixth Street, Avenue B and Rio Brazos Roads in Rosenberg. Sections of FM 2759 as well as the Grand River, Rivers Edge and Pecan Estates in Thompsons flooded. Many countywide roads became inundated in flood waters including, but not limited to, Highway 90A, Pitts Road, FM 1489, FM 723, FM 1093, FM 359, SH 6 feeder roads, Sienna Parkway, Carrol Road, McKeever Road, Knights Court, Miller Road, river Oaks Road, Thompsons Ferry Road, Strange Drive, Greenwood Drive, Second Street and low lying roads in Quail Valley in Missouri City. Due to record pool levels in Barker Reservoir, homes in Cinco Ranch flooded. Big Creek flooding in Needville caused the flooding of homes on Ansel Road. Flooding being reported in or within homes in Missouri City with water rescues being conducted off of the Westpark Tollway in the Jeanetta Sharpstown area. M63IW, M65VE, F58VE

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Nun Pers Killed	nber of ons Injured	Estin Dama Property		August 2 Character of Storm		
			, ,	RREC							
TEXAS, Central Southeas	st		CO	KKEC	HON	13					
Fort Bend County 2 WSW Hobby 2 NNE Stafford	26	1915CST 1923CST	5.78	100	0	0	2.00M	0.00K	Tornado (EF1)		
	Damage to 28 homes in the Woodland West subdivision. Damage path extends from Stafford into Missouri Cit the damage was high end EF1.										
Fort Bend County 7 N Stafford 1 WNW Trammells	26	1945CST 2200CST			0	0	0.00K	0.00K	Flash Flood		
		g being reported anetta Sharpstov		homes in M	Iissouri Ci	ty with wate	r rescues beir	ig conducted	l off of the Westpark Tollway		
Waller County											
2 E Prairie View 3 NNE Waller	26	1945CST 2215CST			0	0	0.00K	0.00K	Flash Flood		
	Multiple lanes of Highway 290 at the FM 2920 intersection near the town of Waller were closed due to flooding. In the southern part of the county, sections of FM 3318 near the Brazos River flooded and became inaccessible. The significant countywide home flooding along the various creeks/bayous and their tributaries.										
Brazoria County 8 WNW Pearland 4 NW Damon	26 29	2135CST 2200CST			0		2.00B		Flash Flood		

Flash flood waters, from sheet flooding and bayous/creeks coming out of banks, completely inundated hundreds to thousands of homes and businesses. Roads and highways in and around Pearland and south into Manvel, or east of Highway 288 along Highway 6, were flooded and therefore closed for long time periods. Major record flooding of the Brazos, San Bernard and Oyster Creek caused the flooding of hundreds to thousands of vicinity homes, vehicles and businesses. Numerous Roads and homes were inundated with flood waters on east side of Oyster Creek including the Columbia Lakes, Mallard Lakes, Great Lakes, Riverside Estates and Bar X subdivisions as well as homes along CR 39. Other county roads that became impassable due to high flood waters include, but are not limited to, FM 1462, Highways 35 and 90, FM 950, CR 25, 380A, CR 42 and FM 521. The Phillips refinery outside of the town of Sweeny took on water from the west near Little Linville Bayou. Hanson Riverside County Park along the San Bernard River southwest of West Columbia was inundated and water over-topped the Phillips Terminal. Areas around Alvin also flooded.

Harris County 1 E Joyce

 1 E Joyce
 26
 2145CST

 1 SSW Minnetex
 29
 2200CST
 36
 0
 10.00B
 100.00K
 Flash Flood

There were numerous water rescues within Houston and the surrounding suburbs. Flood waters completely inundated thousands of homes and businesses. Roads and highways in and around Houston were flooded and therefore closed for long time periods. Catastrophic flooding occurred on nearly every one of the 22 watersheds in Harris County. 10 out of the 19 bayous in the county reached record crests and flooding. There was widespread flooding along Buffalo Bayou and upstream and downstream of both Addicks and Barkers Reservoirs due to record level pool elevations. There was major flooding of hundreds of homes within numerous neighboring subdivisions along the San Jacinto River and the East Fork of the San Jacinto River. There were numerous water rescues within Houston and the surrounding suburbs. Roads and highways in and around Houston inundated and closed due to flash flooding.

Some of the reported flooded roads in Pasadena were Vista Street, Shafer Street, Fairmont Drive and Strawberry Road. M33BO, M45BO, M40BO, M33BO, M25BO, M31BO, M65IW, M42IW, M54IW, M62IW, M24IW, F73IW, M58IW, M67IW, M49IW, M66IW, F29IW, M58IW, F89PH, F77PH, F71PH, M64PS, F48PS, M71PS, F76VE, M45VE, M60VE, F81VE, M84VE, M8VE, M14VE, F6VE, F16VE, F32VE, M43VE, M82VE, F38VE, M25IW

Galveston County

 1 N San Leon
 26
 2200CST

 2 SE Texas City
 30
 0000CST
 3
 0
 10.00B
 10.00K
 Flash Flood

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

TEXAS, Central Southeast

CORRECTIONS

There were numerous water rescues across western and central Galveston County. Flood waters completely inundated hundreds to thousands of homes and businesses in League City, Dickinson and Santa Fe. Approximately 7,000 homes and 125 businesses were impacted by flood waters across the county. Clear Creek measured record levels that lead to the widespread flooding throughout Friendswood and League City. Major flooding occurred along the Dickinson Bayou; from Cemetery Road to east of Highway 3 along FM 517. Flood waters inundated sections of Interstate 45, Bay Area Boulevard, FM 528, FM 518 and numerous primary and secondary county roads. Approximately 7,000 homes and 125 businesses were impacted by flood waters across the county. Clear Creek measured record levels that lead to the widespread flooding throughout Friendswood and League City. Major flooding occurred along the Dickinson Bayou; from Cemetery Road to east of Highway 3 along FM 517. Flood waters inundated sections of Interstate 45, Bay Area Boulevard, FM 528, FM 518 and numerous primary and secondary county roads. There were numerous water rescues and flooded homes within the Friendswood, Pearland and Dickinson areas. M54IW, M59IW, M83IW, M64PH, F80PH, F69PH

August 2017

Harris County
1 NNE Acre Homes
3 SSW Webster

26 2200CST 0 0 0.00K 0.00K Flash Flood 29

There were numerous water rescues within Houston and the surrounding suburbs. Flash flood waters, from sheet flooding and bayous/creeks coming out of banks, completely inundated hundreds to thousands of homes and businesses. Roads and highways in and around Houston were flooded and therefore closed for long time periods.

Catastrophic flooding occurred on nearly every one of the 22 watersheds in Harris County. 10 out of the 19 bayous in the county reached record crests and flooding. There was widespread flooding along Buffalo Bayou and upstream and downstream of both Addicks and Barkers Reservoirs due to record level pool elevations. There was major flooding of hundreds of homes within numerous neighboring subdivisions along the San Jacinto River and the East Fork of the San Jacinto River. Lake Conroe's releases and backwater flow from Lake Houston also contributed to the widespread flooding across the northern and northeastern sectors of the county.

Brazoria County 6 W Iowa Colony 3 N Manvel

26 2230CST 0 0 0.00K 0.00K Flash Flood

There were numerous water rescues within the county; from Pearland down to the Angleton-Lake Jackson area. Flash flood waters, from sheet flooding and bayous/creeks coming out of banks, completely inundated hundreds to thousands of homes and businesses. Roads and highways in and along the Highway 288 corridor were flooded and therefore closed for long time periods.

Major record flooding of the Brazos, San Bernard and Oyster Creek caused the flooding of hundreds to thousands of vicinity homes, vehicles and businesses. Numerous Roads and homes were inundated with flood waters on east side of Oyster Creek including the Columbia Lakes, Mallard Lakes, Great Lakes, Riverside Estates and Bar X subdivisions as well as homes along CR 39. Other county roads that became impassable due to high flood waters include, but are not limited to, FM 1462, Highways 35 and 90, FM 950, CR 25, 380A, CR 42 and FM 521. The Phillips refinery outside of the town of Sweeny took on water from the west near Little Linville Bayou. Hanson Riverside County Park along the San Bernard River southwest of West Columbia was inundated and water over-topped the Phillips Terminal.

Harris County 9 WNW Hockley 14 SW Katy

26 2230CST 0 0 0.00K 0.00K Flash Flood 29

There were numerous water rescues within Houston and the surrounding western suburbs. Flash flood waters, from sheet flooding and bayous/creeks coming out of banks, completely inundated hundreds to thousands of homes and businesses. Roads and highways in and around Houston were flooded and therefore closed for long time periods.

Catastrophic flooding occurred on nearly every one of the 22 watersheds in Harris County. 10 out of the 19 bayous in the county reached record crests and flooding. There was widespread flooding along Buffalo Bayou and upstream and downstream of both Addicks and Barkers Reservoirs due to record level pool elevations. There was major flooding of hundreds of homes within numerous neighboring subdivisions along the San Jacinto River and the East Fork of the San Jacinto River. Lake Conroe's releases and backwater flow from Lake Houston also contributed to the widespread flooding across the northern and northeastern sectors of the county.

Harris County 1 W Clear Lake City

26 2300CST 2302CST 0.03 30 0 0 50.00K 0.00K Tornado (EF0)

Damage to awning at gas station. Funnel cloud sighted in the area at the time.

		Time Local/	Path Length	Path Width	Num Perso	ber of	Estima Damas			August 2017
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			COI	RREC	TION	S				
TEXAS, Central Southeast										
Harris County Clinton Park	26	2330CST								
2 SE Greens Bayou	30	0000CST			0	0	0.00K	0.00K	Flash Flood	
	Thoma v		tom magazzag v	vith maamla	haina atuan	dad svithin t	hair attica and	maafa in s	youth Houston and a	din a
	commun to thous: therefore Catastro county re of both A within n Conroe's	ities. Flash flood ands of homes a c closed for long phic flooding oc eached record cre Addicks and Barl umerous neighb	waters, from nd businesses time period curred on no ests and flood kers Reservo oring subdiv kwater flow	n sheet floor es. Roads a ds. early every ding. There wirs due to a visions alo	oding and b and highwa one of the was wides record level ing the San	ayous/creeks ys in and ar e 22 watersh pread floodid l pool elevat Jacinto Riv	s coming out of cound south Harris and south Harris and the Earth and th	of banks, controlled to the county. It is also become an also become as major fast Fork of the country of the c	south Houston and s completely inundate and Pasadena were flagger of the 19 bay and upstream and d flooding of hundred f the San Jacinto R pooding across the no	d hundreds looded and yous in the ownstream s of homes tiver. Lake
Colorado County										
3 ENE Alleyton	27	0000CST								
1 N Bernardo		0245CST			0	0	0.00K	0.00K	Flash Flood	
	Flash flo	oding closed sec	tions of FM 9	949 just off	of Interstat	te 10.				
Grimes County										
1 WNW Navasota	27	0030CST								
		0300CST			0	0	0.00K	0.00K	Flash Flood	
	Flooding	inundated roadv	vays in Nava	sota. Road	515 at High	nway 105 wa	s covered with	h flood wa	ters and impassable	
Wharton County										
1 ESE East Bernard	27	0043CST	2.27	50	0	0	200.0017	0.0017	T	
		0047CST	2.27	50	0	0	300.00K	0.00K	Tornado (EF1)	
	of severa		ak and pecai	n trees. A l					ned to EF1 snapping to one side of the l	
Wharton County										
4 NE Lissie 1 WSW El Campo Arpt	27	0145CST 0630CST			0	0	0.00K	0.00K	Flash Flood	
1 wsw El Campo Arpt	There w flooding town of Elm Gro Street, E 244, CR Orchard.	of FM 1164 near idespread catastr of the Colorado Wharton with ho ve, River Valley Im Street, FM 10 228, CR 137, FN	ophic floodi River betwe omes, busine and Pecan V)2, North Al M 249 and Fl d River floo	ng from bosen Hunger esses and valley subdabama Roa M 640. The	ed due to in oth the Cold ford and El ehicles bein ivisions. Cold, US 59, Gere was sign	oundating floorado and Sa Campo. Mang inundated ounty wide f CR 135, CR nificant hom	od waters. an Bernard Ri ajor flooding of al along the Ri looding of roa 150, CR 166, e flooding in	vers. High occurred a ver Reach ds include CR 133, the towns	nway 59 was closed long the Colorado F I, Hobben Oaks, Be I, but are not limited CR 153, CR 102, C of Glenflora, Peach M 442, CR 151, CI	River in the ear Bottom, I to, Sunset ER 232, CR Acres and
Matagorda County 2 SW Pledger	27	0200CST 0515CST			0	0	0.00K	0.00K	Flash Flood	
	High rois	nfall lead to the f	lash flooding	and event	ial closure	of FM 1301	at FM 1728 in	Pledger		
	riigii rali	nan icau to tile I	asii iioouiilg	, and evenll	iai Ciosule (01 1 101 1301	at 1 1v1 1 / 20 III	i icugei.		

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	Time Local/				Number of Persons		Estima		August 201	
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Perso Killed	ons Injured	Damaş Property	ge Crops	Character of Storm	
			CO	RREC	TION	S				
TEXAS, Central Southeast										
Grimes County 3 SE Todd Mission	27	0300CST 0530CST			0	0	0.00K	0.00K	Flash Flood	
	Flash floo	oding caused ro	ad closures	around Ma	gnolia. Roa	ids FM 1784	4 and FM 148	6 were int	indated with flood waters and	
Galveston County 2 SSE Kemah	27	0303CST 0307CST	0.73	30	0	0	200.00K	0.00K	Tornado (EF0)	
	Trees dov	n, minor roof d	amage in Ba	acliff. Fence	es down.					
Chambers County 6 NNW Beach City 3 SSW Eminence	27	0345CST 1100CST			0	0	0.00K	0.00K	Flash Flood	
	Major lov		occurred alo						closed across the county. the Milam Bend subdivision	
Liberty County 6 WNW Cottonwood 7 N Rye Station	27	0345CST 1100CST			0	0	0.00K	0.00K	Flash Flood	
	There was Many hor River tha Highway	s record level, r nes were floode t caused signifi 59 feeder roads	najor flooding and north of the cant flooding s, various ro	ng along the he town of ng in Cleve ads in the t	e Trinity Ri Liberty. Ma land, Willia own of Libe	ver with numajor flooding ams and Pluerty, Wallace	merous floode g was also obs im Grove. Nu- ce Road off of	d roads ne erved on the merous ho Highway	rere closed due to flooding. For the river including FM 787, the east fork of the San Jacinto mes and businesses along the 146, FM 1725, FM 2090, CR CR 3612 and CR 3600 were	
Walker County 7 E Hawthorne 6 S Loma	27	0345CST 1100CST			0	0	0.00K	0.00K	Flash Flood	
	the roadw Moderate along Hig	ay. flooding occur	red along th FM 3478, v	e Trinity R vith the lov	iver. Roads vest homes	in the Deep	River Plantat n Rich Shores	ion and G	due to flood waters inundating reen Rich Shores subdivisions on, flooded. There was major	
Harris County 2 E Bellaire Jct	27	0915CST 0916CST	0.08	20	0	0	50.00K	0.00K	Tornado (EF0)	
	Windows	blown out Torc	hy's Tacos							
Harris County 2 ESE White Oak Acres	27	1000CST	ny o rucos.		0	0	0.00K	0.00K	Flash Flood	
1 W Houston Hgts	Catastrop county rea of both A within nu Conroe's	ached record cre ddicks and Bar merous neighb	ecurred on n ests and floo kers Reserve oring subdi ckwater flow	ding. There oirs due to visions alo	one of the was widesprecord level ng the San	22 watersh pread floodi pool elevat Jacinto Riv	neds in Harris ng along Buffa tions. There we wer and the Ea	alo Bayou as major f ast Fork of	0 out of the 19 bayous in the and upstream and downstream looding of hundreds of homes the San Jacinto River. Lake boding across the northern and	

		Time Local/	Path Length	Path Width	Num Perso	ber of	Estin Dama		August 201		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
			CO	RREC	CTION	S					
TEXAS, Central Southeast											
Harris County											
9 WNW Tomball	27 28	1245CST			0	0	0.0017	0.0017			
4 N Spring	20	0015CST			0	0	0.00K	0.00K	Flash Flood		
									ing in northern Harris County.		
		in and around B							10 out of the 19 bayous in the		
	county	reached record c	rests and floo	oding. There	e was wides	pread floodi	ng along Buf	falo Bayou	and upstream and downstream		
									flooding of hundreds of homes f the San Jacinto River. Lake		
									ooding across the northern and		
	northea	stern sectors of	the county.								
Chambers County 2 SSW Mont Belvieu	27	1300CST									
2 55 W Wort Bervieu	28	0315CST			0	0	0.00K	0.00K	Flash Flood		
	Section	s of Highway 99	the Grand Pa	arkway wer	e inundated	with flood v	vaters.				
Washington County											
9 NW Burton	27	1345CST									
	28	0015CST			0	0	0.00K	0.00K	Flash Flood		
	Section	s of FM 2780 so	uth of Lake S	Somerville a	and the town	of Union H	ill were close	d due to flo	ooding.		
Harris County											
2 NW Westfield	27 28	2245CST 0615CST			0	0	0.00K	0.00K	Flash Flood		
	20	0015CS1			U	U	0.00K	0.00K	Flash Flood		
		g was occurring									
	county	opnic flooding (reached record c	rests and flor	nearly ever	y one of the e was wides	e 22 watersi pread floodi	neds in Harri ng along Buf	s County. falo Bayou	10 out of the 19 bayous in the and upstream and downstream		
	of both	Addicks and Ba	arkers Reserv	voirs due to	record leve	l pool eleva	tions. There v	was major i	flooding of hundreds of homes		
									f the San Jacinto River. Lake ooding across the northern and		
		stern sectors of		w Hom Eux	e Houston t	iiso contiiou	ned to the wi	acspread II	ooding across the northern and		
Chambers County											
1 W Mont Belvieu	28	0030CST 0600CST			0	0	0.00K	0.00K	Flash Flood		
		0000C31			U	U	0.00K	0.00K	r asii r tood		
	Section	s of Interstate 10	across Chan	nbers Count	ty were close	ed due to flo	od water inur	ndation.			
Housin Country											
Harris County 1 SSW Pasadena	28	0030CST									
1 WSW West Park	20	0630CST			0	0	0.00K	0.00K	Flash Flood		
•											
		ous roads and h						ng, but not	limited to, the Loop 610 near		
								s County.	10 out of the 19 bayous in the		

Catastrophic flooding occurred on nearly every one of the 22 watersheds in Harris County. 10 out of the 19 bayous in the county reached record crests and flooding. There was widespread flooding along Buffalo Bayou and upstream and downstream of both Addicks and Barkers Reservoirs due to record level pool elevations. There was major flooding of hundreds of homes within numerous neighboring subdivisions along the San Jacinto River and the East Fork of the San Jacinto River. Lake Conroe's releases and backwater flow from Lake Houston also contributed to the widespread flooding across the northern and northeastern sectors of the county.

		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage		August 20	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
			CO	RREC	TION	S				
TEXAS, Central Southeast										
Madison County	20	0020000								
2 W Midway 12 SSE Connor	28	0030CST 0315CST			0	0	0.00K	0.00K	Flash Flood	
~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~	Castion	s of FM 247 sout	h of Midway	, hotavoon E						
		as major lowland								
Harris County 2 NW Westfield	28	0920CST								
2 IVW Westheid	29	0115CST			0	0	0.00K	0.00K	Flash Flood	
	There was flooding through the neighborhoods between I-45 and the Hardy Tollway along FM 1960. Catastrophic flooding occurred on nearly every one of the 22 watersheds in Harris County. 10 out of the 19 bayous in the county reached record crests and flooding. There was widespread flooding along Buffalo Bayou and upstream and downstream of both Addicks and Barkers Reservoirs due to record level pool elevations. There was major flooding of hundreds of home within numerous neighboring subdivisions along the San Jacinto River and the East Fork of the San Jacinto River. Lake Conroe's releases and backwater flow from Lake Houston also contributed to the widespread flooding across the northern and northeastern sectors of the county.									
Chambers County 2 E Hankamer Monroe City	28 Sections	1045CST 1330CST s of FM 1724 sou	ith of I-10 w	ere closed d	0 ue to floodi	0 ng.	0.00K	0.00K	Flash Flood	
Brazoria County 1 S Anchor	28	1130CST								
1 W Angleton Cameron Arp	20	1515CST			0	0	0.00K	0.00K	Flash Flood	
	Sections of FM 523 near Highway 288 north of Angleton was closed due to flooding. Major record flooding of the Brazos, San Bernard and Oyster Creek caused the flooding of hundreds to thousands of vicinit homes, vehicles and businesses. Numerous Roads and homes were inundated with flood waters on east side of Oyster Cree including the Columbia Lakes, Mallard Lakes, Great Lakes, Riverside Estates and Bar X subdivisions as well as homes alon CR 39. Other county roads that became impassable due to high flood waters include, but are not limited to, FM 1462 Highways 35 and 90, FM 950, CR 25, 380A, CR 42 and FM 521. The Phillips refinery outside of the town of Sweeny took o water from the west near Little Linville Bayou. Hanson Riverside County Park along the San Bernard River southwest of West Columbia was inundated and water over-topped the Phillips Terminal.									Creeks along 1462 ook on
Chambers County Anahuac	28	1215CST								
3 NE Anahuac Arpt	20	1500CST			0	0	0.00K	0.00K	Flash Flood	
	Parts of FM 562 south of Anahuac were closed due to flooding.									
Brazoria County 5 WSW Iowa Colony	28	1300CST			0	0	0.00K	0.00K		

Major record flooding of the Brazos, San Bernard and Oyster Creek caused the flooding of hundreds to thousands of vicinity homes, vehicles and businesses. Numerous Roads and homes were inundated with flood waters on east side of Oyster Creek including the Columbia Lakes, Mallard Lakes, Great Lakes, Riverside Estates and Bar X subdivisions as well as homes along CR 39. Other county roads that became impassable due to high flood waters include, but are not limited to, FM 1462, Highways 35 and 90, FM 950, CR 25, 380A, CR 42 and FM 521. The Phillips refinery outside of the town of Sweeny took on water from the west near Little Linville Bayou. Hanson Riverside County Park along the San Bernard River southwest of West Columbia was inundated and water over-topped the Phillips Terminal.

Storm	Data	and	Hnusual	Weather	Phenomena
	Data	anu	Unusuai	vv cather	1 II CHUIICHA

S	torm Da	ata and	d Un	usua	l We	athe	r Phe	nom	iena		
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Perso Killed	Injured	Estim Dama Property		Character of Storm	August 2017	
TEXAS, Central Sou	theast		CO	RREC	TION	\mathbf{S}					
Fort Bend County	<u>tireast</u>										
3 NE Fulshear	28	1515CST 1800CST			0	0	0.00K	0.00K	Flash Flood		
	Major re Roshard County. Barker, River, F includin Parkway Greenwa	n. Massive floo Home flooding Cumings, Sixth Rivers Edge and Ig, but not limited V, Carrol Road, Mood Drive, Seco	ding of both ding occurred occurred at Street, Ave Pecan Esta ed to, Highy McKeever R and Street an	the Brazos ed in Tierra Valley Lod enue B and it tes in Thon way 90A, Pi oad, Knights d low lying	and San Be Grande sub ge in Simor Rio Brazos apsons floo tts Road, F s Court, Mil roads in Qu	rnard Rivers odivision ald nton, along I Roads in R ded. Many M 1489, FM ler Road, riv uail Valley	s caused sign: ong the San E Edgewood and osenberg. Se countywide 1 M 723, FM 10 wer Oaks Road in Missouri C	efficant home sernard Rived Baudet Rections of Foods became 193, FM 35 1, Thompsofity. Due to	looding. ne flooding from R yer in southwesterr loads in Richmond M 2759 as well as me inundated in fl 59, SH 6 feeder roo ons Ferry Road, Str o record pool level ag of homes on Ans	a Fort Bend , along Bar, s the Grand ood waters ads, Sienna ange Drive, s in Barker	
Brazoria County 1 NW Brazoria	28	1700CST									
i NW Brazoria	28	2245CST			0	0	0.00K	0.00K	Flash Flood		
Liberty County 2 S Cleveland Muni	homes, includin CR 39. Highway water fre Columb	vehicles and bus g the Columbia Other county ro ys 35 and 90, FM	sinesses. Nu Lakes, Mal oads that be M 950, CR 2 r Little Linv	imerous Roa lard Lakes, G ecame impa 5, 380A, CF ille Bayou. I	ds and hom Great Lakes ssable due 2 42 and FM Hanson Rive	nes were inut, Riverside I to high flow I 521. The Ferside Count	ndated with f Estates and B od waters inc Phillips refine	lood water ar X subdiv clude, but ry outside o	dreds to thousands s on east side of O visions as well as h are not limited to of the town of Swed rnard River southw	yster Creek omes along , FM 1462, eny took on	
	29	0300CST			0	0	0.00K	0.00K	Flash Flood		
	Sections	Sections of FM 163 in Tarkington Prairie were inundated with flood waters.									
Liberty County											
1 S Liberty 1 W Ames	29 30	1039CST 0800CST			0	0	0.00K	0.00K	Flash Flood		
- //	Portions	Portions of FM 563 were covered with high water and had become impassable.									
Galveston County											
3 ENE Galveston	29 30	1158CST 1200CST			0	0	1.00K	0.00K	Flash Flood		
	Areas al	Areas along Highway 87, or Ferry Drive south of Harborside Drive, were flooded and impassable.									
Chambana Canata											
Chambers County 2 ENE Hankamer 4 NW Winnie	29 31	1425CST 1200CST			0	0	0.00K	0.00K	Flash Flood		
	Sections	of Interstate 10	west of Win	ınie were inu							
Chambara Carret											
Chambers County 2 SSE Monroe City	29 31	1714CST 0600CST			0	0	0.00K	0.00K	Flash Flood		
	Flooding	g occurred over	Гехаs Roads	61 and 65 j	ust east of A	anahuac.					

302

0.00K

0.00K

Flash Flood

Harris County 2 WNW Westfield

29 31

1804CST 0600CST

Path

Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

Path

Time

CORRECTIONS

TEXAS, Central Southeast

FM 1960 at Interstate 45 and surrounding roadways within local neighborhoods were inundated with flood waters and impassable.

Number of

Estimated

August 2017

Catastrophic flooding occurred on nearly every one of the 22 watersheds in Harris County. 10 out of the 19 bayous in the county reached record crests and flooding. There was widespread flooding along Buffalo Bayou and upstream and downstream of both Addicks and Barkers Reservoirs due to record level pool elevations. There was major flooding of hundreds of homes within numerous neighboring subdivisions along the San Jacinto River and the East Fork of the San Jacinto River. Lake Conroe's releases and backwater flow from Lake Houston also contributed to the widespread flooding across the northern and northeastern sectors of the county.

Harvey made landfall as a category 4 hurricane near Rockport, Texas during the evening of August 25th. The storm then weakened to a tropical storm and slowed, looping back and tracking over SE Texas then back over the Gulf of Mexico making a second landfall along the Louisiana coast during the early morning hours of August 30th. Over that 5 day period over Southeast Texas TS Harvey produced catastrophic flooding with a large area of 30 to 60 inches of rain, 23 tornadoes, tropical storm force winds and a moderate storm surge near Matagorda Bay. In some of the heavier bands rain fell at a rate of over 5 inches per hour. This copious record amount of rain over a led to catastrophic flooding. Thousands of homes, businesses, and roads were flooded due to flash flooding and sheet flow from long duration intense rain. Main stem rivers and adjoining tributaries, creeks and bayous reached full capacity and came out of their banks and this also contributed to the massive flooding across southeastern Texas.