

# July 2018 Tennessee Climate Summary

Prepared by William Tollefson and Dr. Andrew Joyner

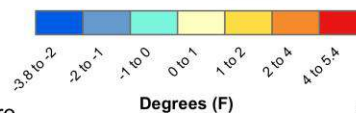
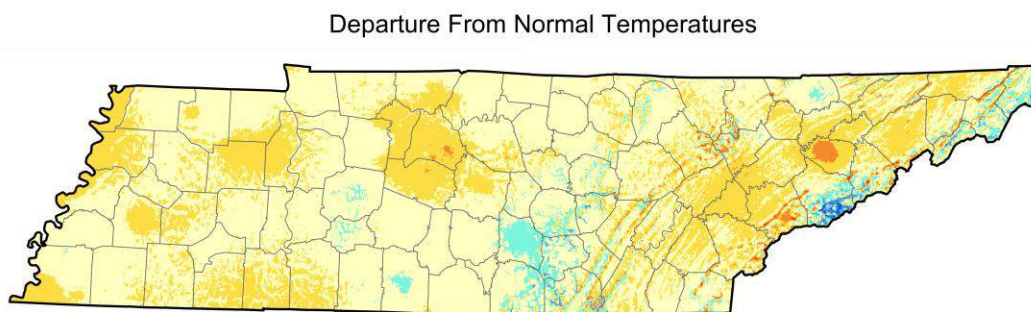
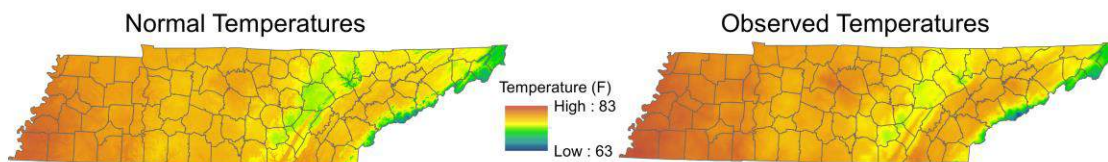
Tennessee Climate Office \* East Tennessee State University

## Monthly Temperature Summary:

For the month of July mean temperatures for most of the state were  $\pm 1^\circ\text{F}$  of normal temperature. In most of climate division 4 (West TN) temperatures were slightly warmer than normal (+2-3°F), and areas around Nashville, and in the Tennessee Valley in East TN were also about 2°F above normal. Some areas in southern middle Tennessee were slightly below normal temperature (-1°F). The monthly mean temperature trend however does not tell the whole story - the first half of the month was quite warm for most areas of the state; with temperatures running up to 4 degrees above normal for the first week of the month. These conditions were part of a heat wave that hit the eastern US, which peaked around the 4<sup>th</sup> of July, and resulted with heat advisories or special weather statements for heat in all but two Tennessee counties.



## July 2018 Mean Temperature



Stations with the highest mean temperature

Name	Station Type	Mean Temperature (F)
GERMANTOWN 4SE	COOP	84
MEMPHIS INTERNATIONAL AP	WBAN	83
BROWNSVILLE	COOP	82.2
SHILOH NMP TENNESSEE	RAWS	81.8
NASHVILLE INTL AP	WBAN	81.7

Map Data From: PRISM Climate Group, Oregon State University, 1980-2010 Normals Used  
Station Data retrieved from SC ACIS2

Stations with the lowest mean temperature

Name	Station Type	Mean Temperature (F)
MT LECONTE	COOP	58.8
NEWFOUND GAP	COOP	66.5
ROAN MOUNTAIN 3SW	COOP	69.7
CHEROKEE TENNESSEE	RAWS	71.1
TOWNSEND 5S	COOP	72.1

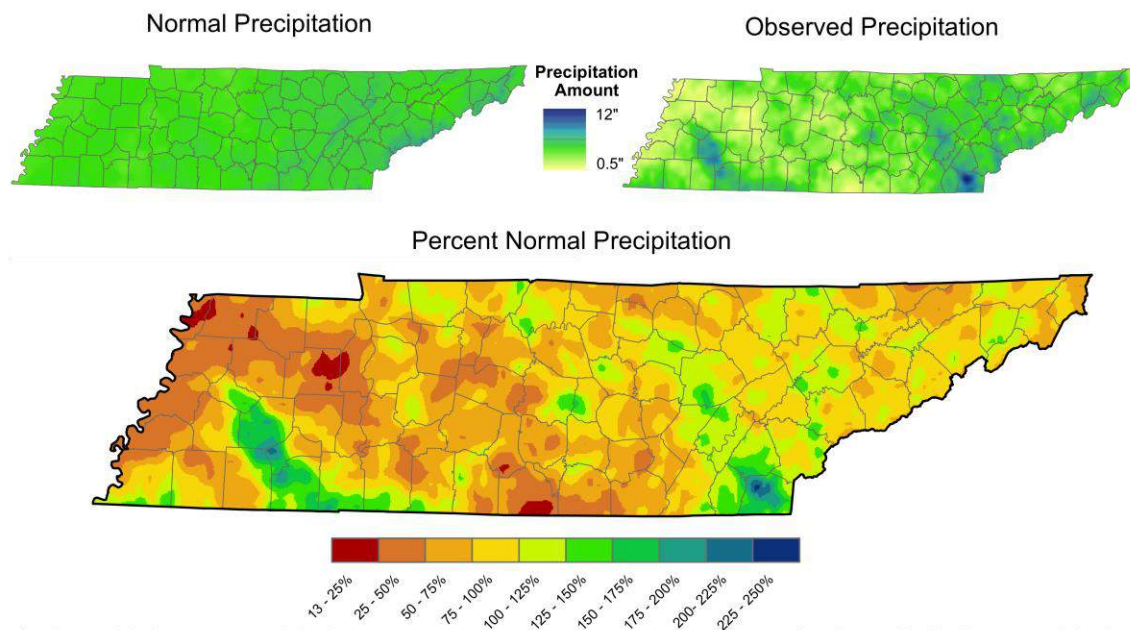
## Monthly Precipitation Summary:

For the month of July most of the state recorded below normal precipitation, with parts of West TN (Lauderdale, Tipton, and Lake Counties along the Mississippi River; and Benton, Decatur, Perry, and Carroll counties along and west of the Tennessee River) running more than 3" below normal. Areas in southeast Tennessee and parts of the Cumberland Plateau; as well as Unicoi, Carter, and Washington counties in northeast TN; and Maddison, Chester, and McNary counties in southwest Tennessee recorded 0 to 3" above normal precipitation this month.

The month started with heavy rains along the Cumberland Plateau, and central Middle TN. For the middle of the month there was widespread, but spotty rainfall from scattered storms and storm complexes which produced a range of observed rainfall from ¼ of an inch to 8 inches across the state (it was rainfall in this period that resulted in a monthly surplus in Maddison, Chester, and McNary counties). Then at the end of the month, heavy rains soaked East TN, while many areas in West Tennessee recorded no measureable precipitation. The drying trend in the second half of the month lead to the introduction of D0 drought conditions in West Tennessee, along the Mississippi River.



# July 2018 Precipitation



Stations with the most precipitation

Name	Station Type	Total Precipitation (in)
BENTON 2.3 ESE	CoCoRaHS	12.75
MEDON 3.5 SSW	CoCoRaHS	10.38
JACKSON EXP STA	COOP	8.77
CROSSVILLE 6.9 S	CoCoRaHS	8.38
FARRAGUT 1.0 WNW	CoCoRaHS	8.26

Map Data From: PRISM Climate Group,  
Oregon State University,  
1980-2010 Normals Used  
Station Data retrieved from SC ACIS2

Stations with the least precipitation

Name	Station Type	Total Precipitation (in)
CLARKSVILLE OUTLAW AP	WBAN	0.27
MURFREESBORO 3.2 WSW	CoCoRaHS	0.43
WATERTOWN PUB SAFETY	COOP	0.46
HUNTINGDON WATER PLANT	COOP	0.75
CLARKSVILLE NO.2	COOP	0.83

Top Tenn (warmest, coldest, wettest, driest stations of the month):

Hottest Stations (highest max temp):

Name	Station Type	Max Temperature (F)
FRANKLIN SEWAGE PLANT	COOP	100
GERMANTOWN 4SE	COOP	100
LEBANON	COOP	99
NASHVILLE BERRY FIELD	COOP	99
SHILOH NMP TENNESSEE	RAWS	99
NASHVILLE INTL AP	WBAN	99
MURFREESBORO 5 N	COOP	98
CLARKSVILLE NO.2	COOP	98
CLARKSVILLE WWTP	COOP	98
CAMDEN	COOP	98
THOMPSON STATION	COOP	98
WHITE HOUSE	COOP	98
CAMDEN TOWER TENNESSEE	RAWS	98
MEMPHIS WFO	WBAN	98

Coldest Stations (lowest min temp):

Name	Station Type	Lowest Temperature (F)
MT LECONTE	COOP	44
ROAN MOUNTAIN 3SW	COOP	52
NEWFOUND GAP	COOP	53
CROSSVILLE 7 NW	WBAN	55
COALMONT	COOP	55
CHEROKEE TENNESSEE	RAWS	56
JAMESTOWN	COOP	56
TAZEWELL	COOP	56
CROSSVILLE MEMORIAL AP	WBAN	57
BRISTOL AP	WBAN	57
BLEDSON SF TENNESSEE	RAWS	57
WOODBURY 1 WNW	COOP	57
FRANKLIN SEWAGE PLANT	COOP	57
NORRIS	COOP	57
ALLARDT	COOP	57
ONEIDA	COOP	57
NEWCUMB	COOP	57
WATERTOWN PUB SAFETY	COOP	57

Warmest Stations (highest mean temps):

Name	Station Type	Mean Temperature (F)
GERMANTOWN 4SE	COOP	84
MEMPHIS INTERNATIONAL AP	WBAN	83
BROWNSVILLE	COOP	82.2
SHILOH NMP TENNESSEE	RAWS	81.8
NASHVILLE INTL AP	WBAN	81.7
MEMPHIS WFO	WBAN	81.6
NASHVILLE BERRY FIELD	COOP	81.3
CAMDEN TOWER TENNESSEE	RAWS	81.1
JACKSON EXP STA	COOP	81.1
SELMER	COOP	80.9
CAMDEN	COOP	80.9

Coollest Stations (lowest mean temps):

Name	Station Type	Mean Temperature (F)
MT LECONTE	COOP	58.8
NEWFOUND GAP	COOP	66.5
ROAN MOUNTAIN 3SW	COOP	69.7
CHEROKEE TENNESSEE	RAWS	71.1
TOWNSEND 5S	COOP	72.1
GATLINBURG 2 SW	COOP	72.6
CROSSVILLE 7 NW	WBAN	73
COALMONT	COOP	73.5
ALLARDT	COOP	74.1
TAZEWELL	COOP	74.1

Wettest Stations (highest rainfall totals):

Name	Station Type	Total Precipitation (in)
BENTON 2.3 ESE	CoCoRaHS	12.75
MEDON 3.5 SSW	CoCoRaHS	10.38
JACKSON EXP STA	COOP	8.77
CROSSVILLE 6.9 S	CoCoRaHS	8.38
FARRAGUT 1.0 WNW	CoCoRaHS	8.26
HENDERSON 4 W	COOP	7.86
JACKSON MCKELLAR- SIPES AP	WBAN	7.81
HARRIMAN 4.5 SW	CoCoRaHS	7.73
GADSDEN 4.9 SSE	CoCoRaHS	7.64
NEWFOUND GAP	COOP	7.41

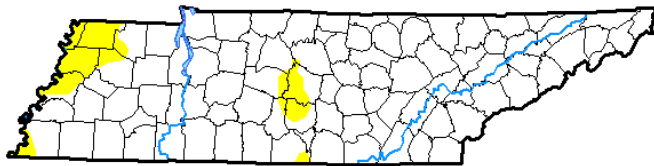
Driest Stations (lowest rainfall totals):

Name	Station Type	Total Precipitation (in)
CLARKSVILLE OUTLAW AP	WBAN	0.27
MURFREESBORO 3.2 WSW	CoCoRaHS	0.43
WATERTOWN PUB SAFETY	COOP	0.46
HUNTINGDON WATER PLANT	COOP	0.75
CLARKSVILLE NO.2	COOP	0.83
LEWISBURG 6.2 SSE	CoCoRaHS	0.97
UNION CITY	COOP	1.21
SHELBY BOTTOMS NATURE CENTER	COOP	1.24
LEWISBURG EXP STA	COOP	1.32
CAMDEN	COOP	1.4
KINGSTON SPRINGS 0.3 ENE	CoCoRaHS	1.4

Drought Monitor:

As of the last Drought Monitor release of the month, D0 drought conditions were introduced to portions of north-west Tennessee, and portions of Middle Tennessee, covering 7.09% of the state.

**U.S. Drought Monitor  
Tennessee**



*Intensity:*

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought



<http://droughtmonitor.unl.edu/>

*Author:*  
Chris Fenimore  
NCEI/NESDIS/NOAA

**July 24, 2018**

*(Released Thursday, Jul. 26, 2018)*

Valid 8 a.m. EDT

*Drought Conditions (Percent Area)*

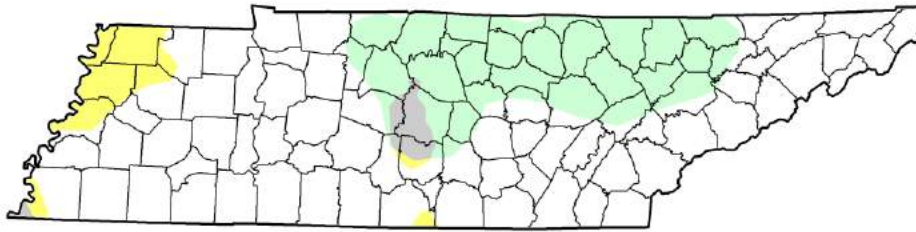
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	92.91	7.09	0.00	0.00	0.00	0.00
<b>Last Week</b> <i>07-17-2018</i>	99.51	0.49	0.00	0.00	0.00	0.00
<b>3 Months Ago</b> <i>04-24-2018</i>	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Calendar Year</b> <i>01-02-2018</i>	90.46	9.54	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> <i>09-26-2017</i>	92.57	7.43	0.00	0.00	0.00	0.00
<b>One Year Ago</b> <i>07-25-2017</i>	100.00	0.00	0.00	0.00	0.00	0.00

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

Looking back at changes from the end of June, a large area of D0 conditions in the upper Cumberland Plateau and northern Middle Tennessee were cleared by heavy rains at the beginning of the month. However drying trends at the end of the month will likely see expansion of D0 conditions in the first Drought Monitor release of August.

July 24, 2018  
compared to  
June 26, 2018

### U.S. Drought Monitor Class Change - Tennessee 1 Month

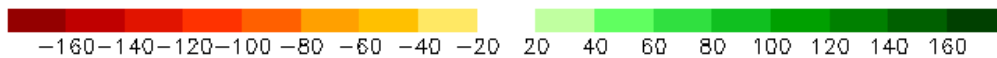
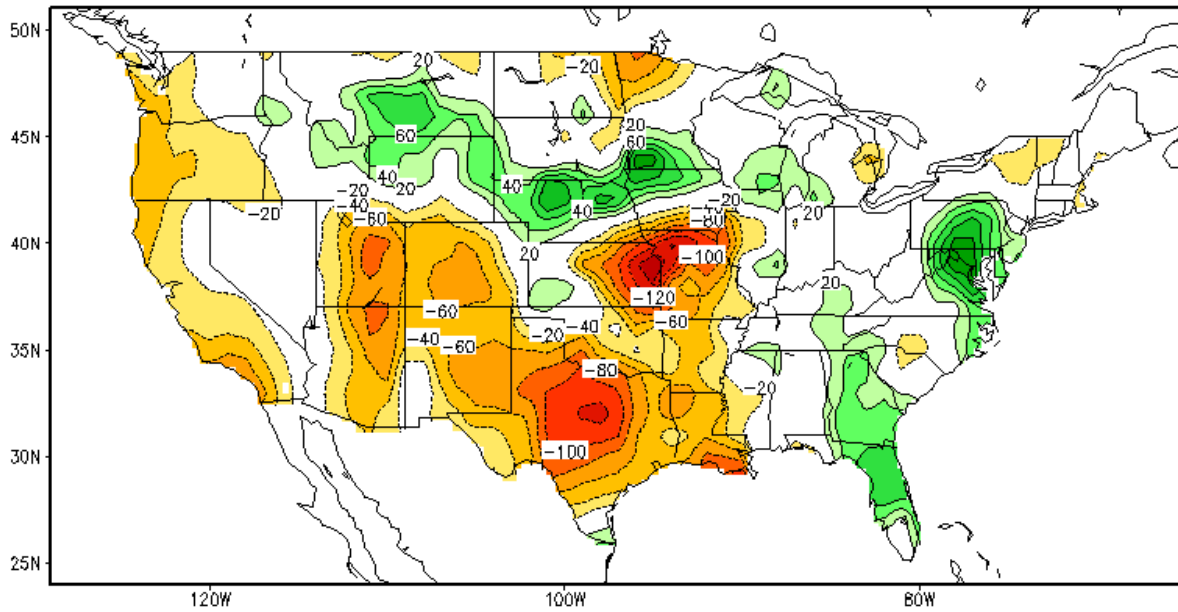


<http://droughtmonitor.unl.edu>

### Soil Moisture:

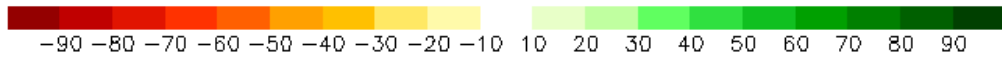
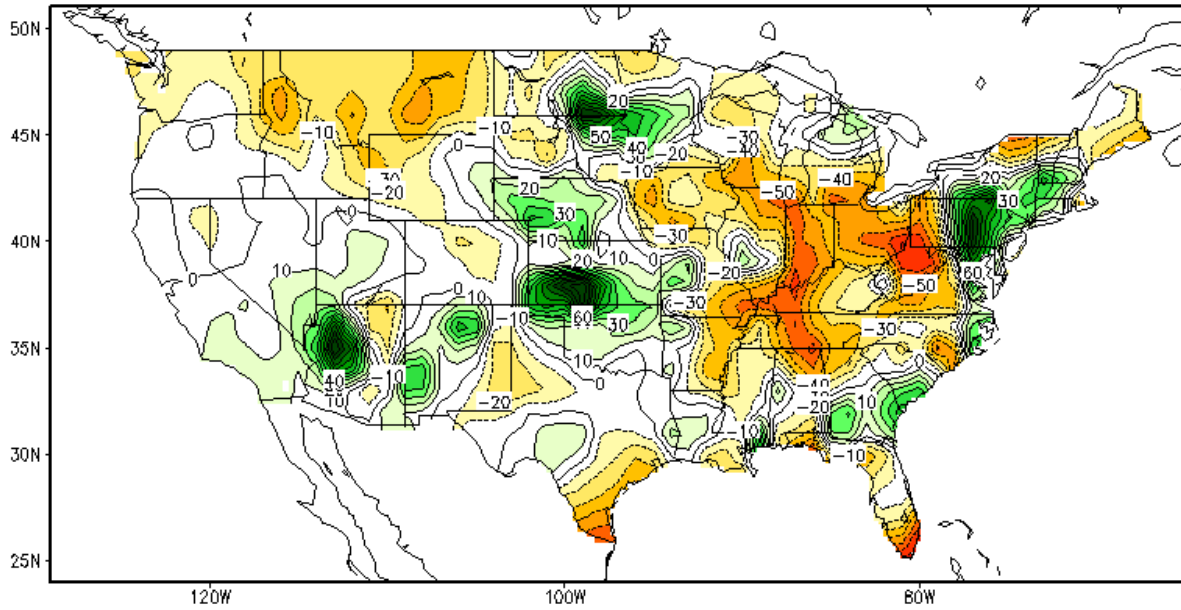
The monthly mean soil moisture anomaly shows most of Tennessee around or slightly above normal. However, there was a major drying trend through July, with all areas of the state recording decreases in soil moisture (ranging from 10 to 50mm). By the end of the month large areas in Middle Tennessee were recording negative anomalies (below normal soil moisture).

### Calculated Soil Moisture Anomaly (mm) JUL, 2018

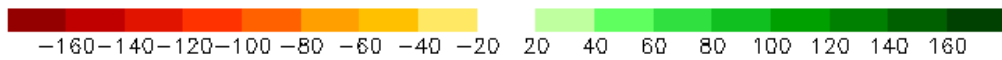
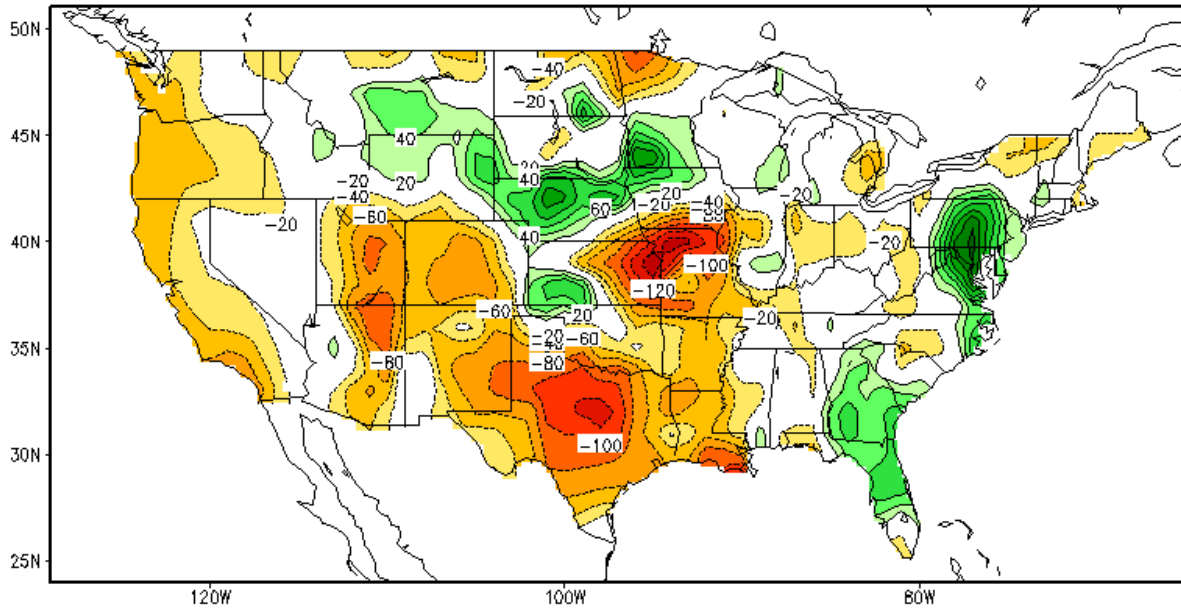




### Calculated Soil Moisture Anomaly Change JUL 31, 2018 from JUN.30



### Soil Moisture Anomaly (mm) Last day of JUL, 2018



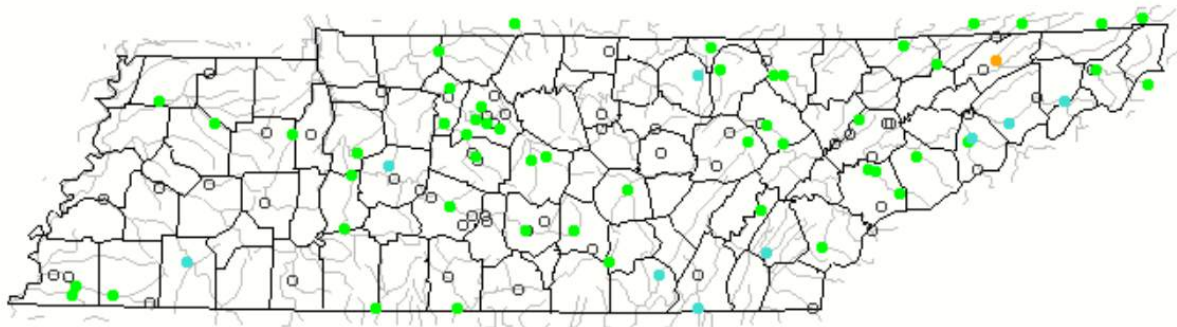
### Streamflow:

Monthly average streamflow was normal for almost all streams in the state, with one stream gauge reporting below normal flow and a few reporting above normal flow. However, the drying trend during the month led to more gauges reporting lower than normal flow by the end of the month.

## Map of 28-day average streamflow compared to historical streamflow for the day of the year (Tennessee)

Tennessee ▼ or Water-Resources Regions ▼

Tuesday, July 31, 2018



Search USGS streamgauge 🔍

Choose a data retrieval option and select a location on the map

List of all stations  Single station  Nearest stations

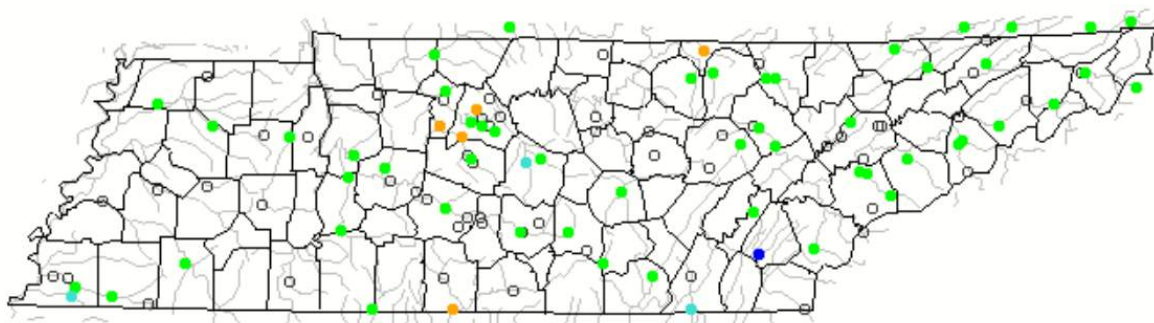
Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked



## Map of daily streamflow compared to historical streamflow for the day of the year (Tennessee)

Tennessee ▼ or Water-Resources Regions ▼ All Days

Tuesday, July 31, 2018



Search USGS streamgage 🔍

Choose a data retrieval option and select a location on the map

List of all stations  Single station  Nearest stations  Peak flow

Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

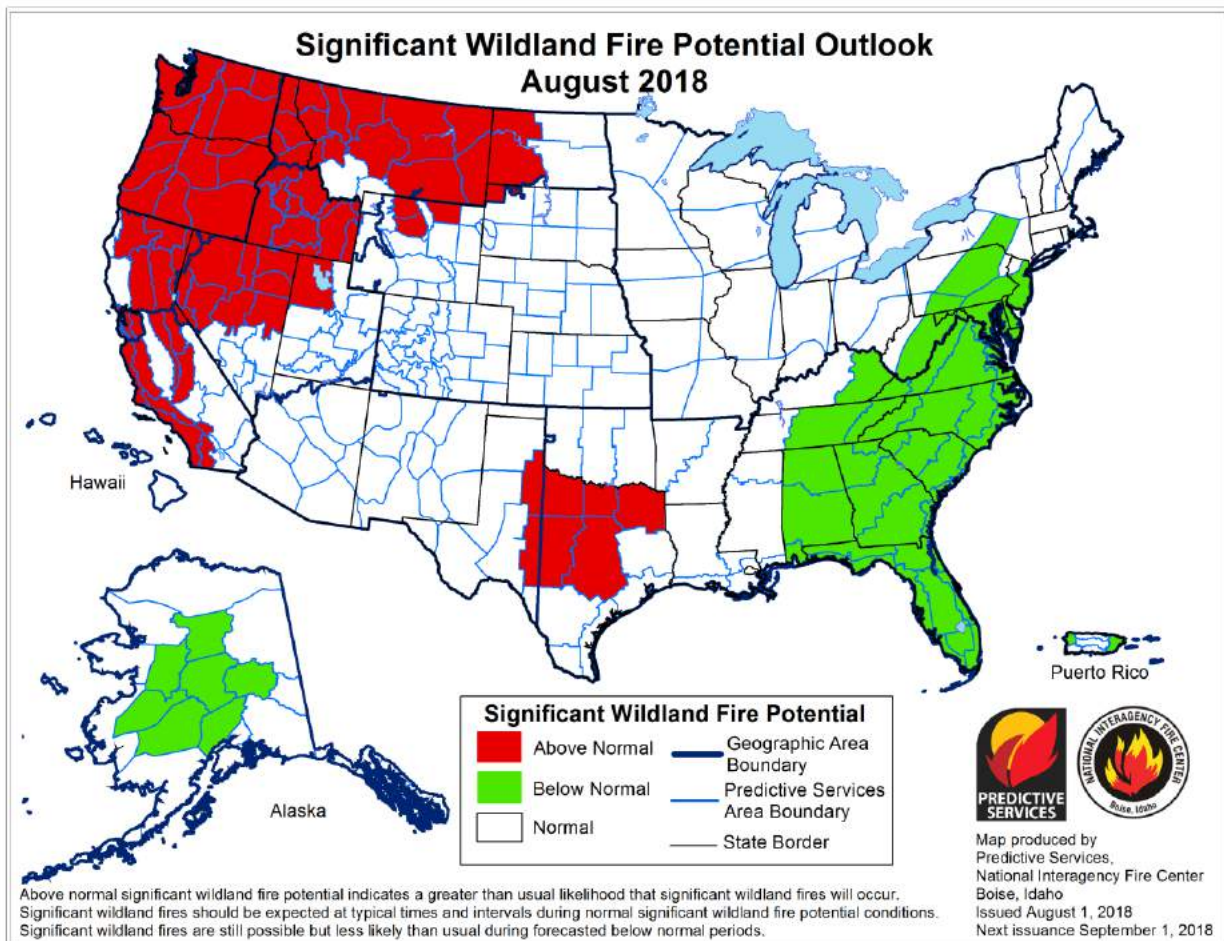
### Miscellaneous:

**Crop Conditions from USDA:** For agricultural concerns in the state, July was a tale of the haves and the have-nots with rainfall. Many farmers were hindered from field work by consistent rain/stormy patterns, while many others started to report crop stress from lack of rain. Row crop farmers were busy spraying for pests, while forage producers worked on their second cutting of hay. Pasture conditions declined slightly as pastures in drier areas began to show signs of stress due to lack of moisture. Topsoil moisture rated 8 percent very short, 33 percent short, 53 percent adequate, and 6 percent surplus. Subsoil moisture rated 6 percent very short, 28 percent short, 65 percent adequate, and 1 percent surplus, at the end of the month.

Corn, cotton, soybean, and tobacco crops were all at or ahead of 5-year average progress at the end of the month. The cotton, corn, and soybean crops had the largest percentages of 'Excellent' and 'Good' conditions reported, while pastures had the largest percentage of 'Poor' conditions.

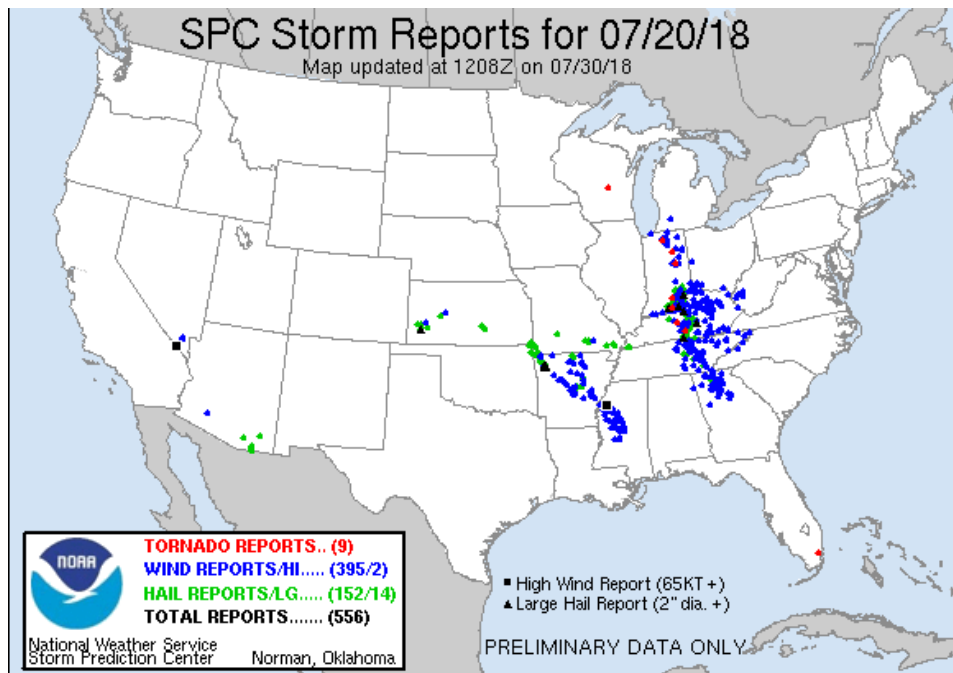
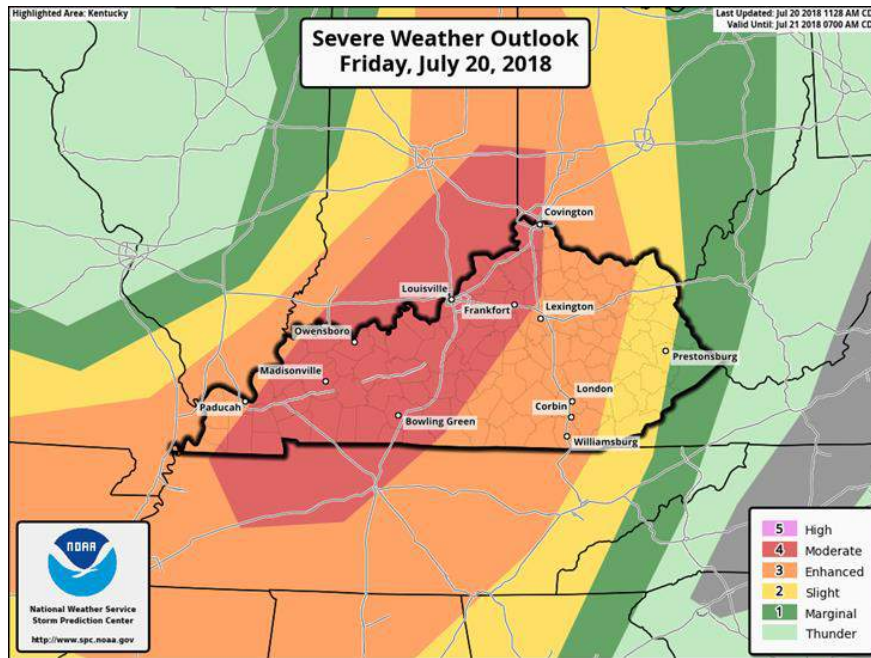
CROP PROGRESS					CONDITION					
Crop	This Week	Last Week	2017	5 Year Avg.	Item	Very Poor	Poor	Fair	Good	Excellent
	Percent									
Corn – Silking	96	95	98	96	Corn	3	5	18	56	18
Corn – Doughing	78	64	66	63	Tobacco	0	2	36	59	3
Cotton – Squaring	98	97	96	91	Cotton	1	1	8	62	28
Cotton – Setting Bolls	70	50	62	52	Pasture	1	14	28	46	11
Soybeans – Blooming	84	72	83	68	Soybeans	1	4	21	57	17
Soybeans – Setting Pods	55	38	50	40	Hay	1	5	35	48	11
Tobacco – Topped	50	30	43	39						

**Fire Danger:** Fire danger in East and Middle Tennessee is expected to be lower than normal during the month of August. However, due to drying conditions in the western part of the state they will have a normal risk.



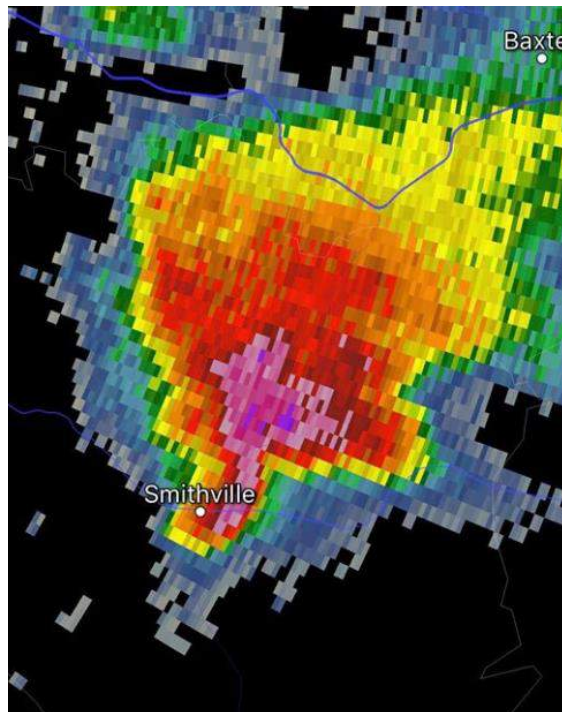
### Storm of the month:

The storm of the month for July was the severe weather outbreak of July 20<sup>th</sup>. This event was forecasted by the NOAA Storm Prediction Center, who put out a moderate outlook for severe weather on the morning of the 20<sup>th</sup>. The storm system kicked off in northern Indiana in the early afternoon and then moved south-southeast producing a line of severe storms across southern Indiana, central/eastern Kentucky, and Middle and East Tennessee.





The line of severe storms moved into Tennessee after sunset on the 20<sup>th</sup>, with a large squall line in eastern Tennessee, and a few discrete supercells present on the western end of the line on the Cumberland Plateau.



*Radar image of supercell near Smithville, TN (Source NWS Nashville Facebook)*



*Trees fallen on night watchman's truck at Warrior's Path State Park in Kingsport (image source: WJHL)*

Several trees were blown down at Warrior's Path State Park in Kingsport, one of which fell on the campground night watchman's truck after he had driven around the park to warn campers to seek shelter before the storms hit. He was pinned inside the truck, and it took three people to get him out,

but luckily he was not injured. Another tree fell on a camper, and a woman inside was taken to the hospital, but was released the next morning with no serious injuries.

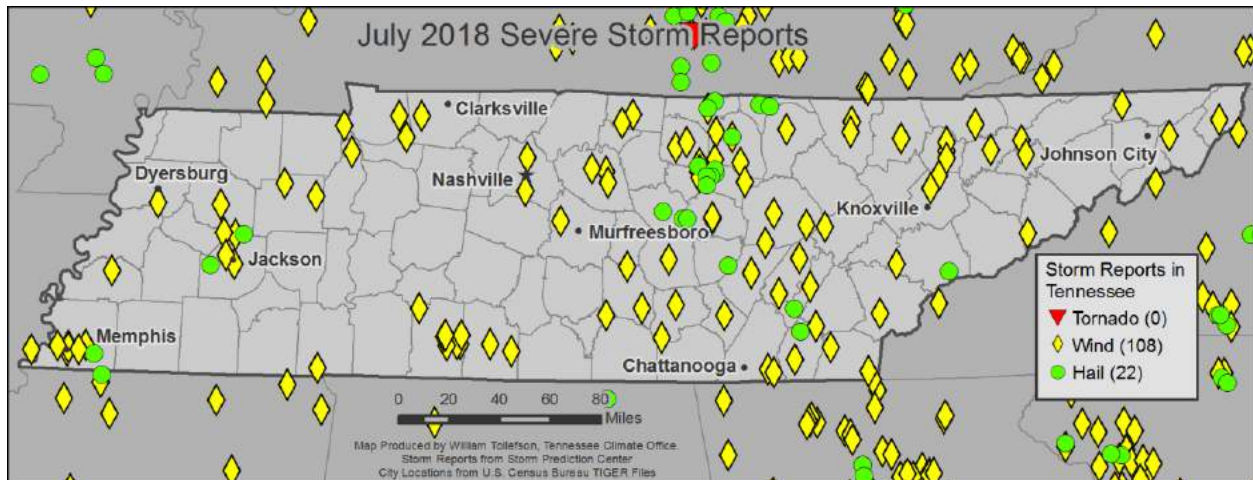


*Fallen tree in Elizabethton with one fatality reported (Image Source: WJHL)*

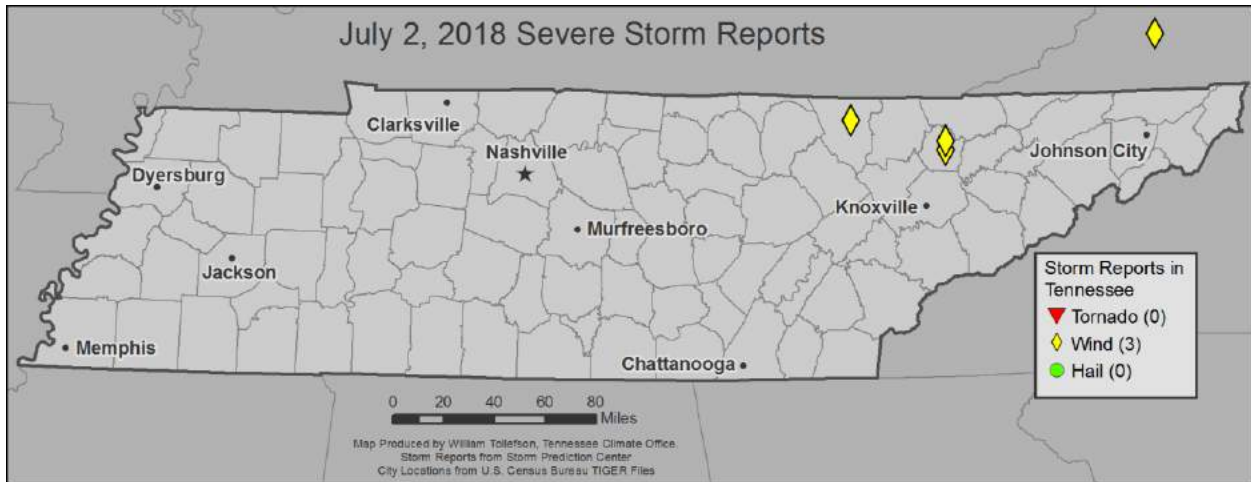
A tree fell on a house in Elizabethton, and unfortunately killed a 75 year-old resident of the home.

### Storm reports:

Severe storms produced damage on 11 days during the month, with a total of 108 severe wind reports and 22 reports of hail 1 inch or larger.



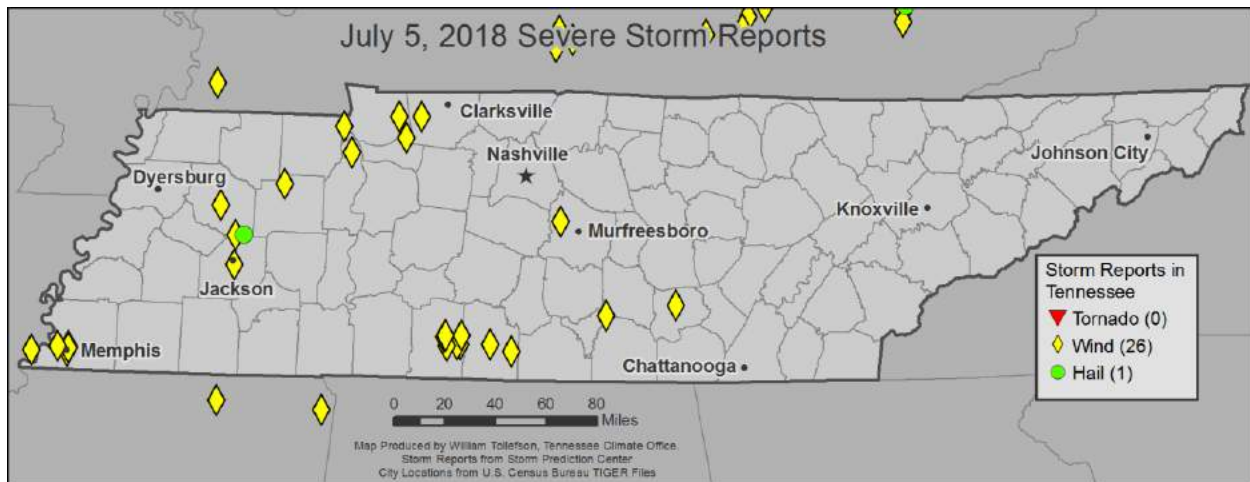




Time	Speed	Location	County	Lat	Lon	Comments
0:10	-	3 N MAYNARDVILLE	UNION	36.29	-83.81	HICKORY VALLEY ROAD...BARN WITH METAL ROOF AND 3 SIDED CARPORT DESTROYED. SOME SIDING REMOVED FROM HOME. SEVERAL TREES DOWN. (MRX)
1:40	-	SHARPS CHAPEL	UNION	36.34	-83.81	THREE TREES DOWN ACROSS THE COUNTY...AT LEAST ONE NEAR SHARPS CHAPEL (MRX)
1:40	-	3 SE ONEIDA	SCOTT	36.47	-84.48	ONE TREE DOWN ON PANIT ROCK RD. (MRX)



Time	Speed	Location	County	Lat	Lon	Comments
1:30	UNK	PICKWICK LANDING STATE	HARDIN	35.05	-88.23	TREE DOWN ON CAR... MINOR INJURIES REPORTED. TIME ESTIMATED BY RADAR. (MEG)

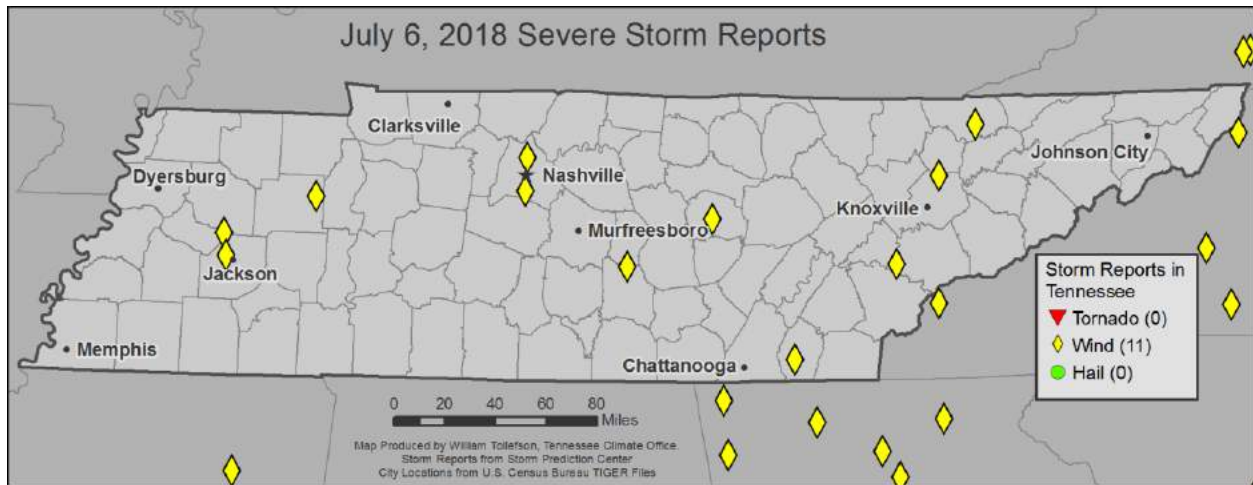


Time	Size	Location	County	Lat	Lon	Comments
2:25	1"	MEDINA	GIBSON	35.8	-88.77	QUARTER SIZED HAIL IN MEDINA. (MEG)

Time	Speed	Location	County	Lat	Lon	Comments
19:54	-	TULLAHOMA	COFFEE	35.37	-86.22	FACEBOOK PICTURE OF A TREE DOWN ON LYNN STREET IN TULLAHOMA. TIME ESTIMATED BASED ON RADAR. (OHX)
20:36	-	7 N ELKTON	GILES	35.16	-86.88	DELAYED REPORT FROM THURSDAY JULY 5TH. TREES DOWN BLOCKING THE NORTHBOUND LANES OF I-65 AT MILE MARKER 11 CLOSING THE INTERSTATE FOR A FEW HOURS. (OHX)
20:55	-	PULASKI	GILES	35.2	-87.03	REPORT OF TREES DOWN ON EAST JEFFERSON STREET. (OHX)
21:15	-	6 ESE LAWRENCEBURG	LAWRENCE	35.2	-87.24	REPORTS OF A ROOF BLOWN OFF SHED AT WESTSIDE ROAD IN EXTREME EASTERN LAWRENCE COUNTY. (OHX)
21:20	-	6 ESE LAWRENCEBURG	LAWRENCE	35.2	-87.24	REPORTS OF ROOF BLOW OFF SHEAD AT WESTSIDE ROAD IN EXTREME EASTERN LAWRENCE COUNTY. (OHX)
21:20	-	5 SE LAWRENCEBURG	LAWRENCE	35.2	-87.26	REPORT OF A TREE DOWN BLOCKING DURHAM ROAD. (OHX)
21:30	-	4 S LAWRENCEBURG	LAWRENCE	35.19	-87.33	REPORT OF TREE DOWN BLOCKING THE ROADWAY AT 116 DUNN LEOMA ROAD (OHX)
21:34	-	1 SW LAWRENCEBURG	LAWRENCE	35.24	-87.35	REPORT OF TREE DOWN BLOCKING SKYLINE DRIVE IN LAWRENCEBURG. (OHX)
21:34	-	6 E LAWRENCEBURG	LAWRENCE	35.25	-87.23	REPORT OF A TREE BLOCKING DURHAM ROAD. (OHX)
21:34	-	LAWRENCEBURG	LAWRENCE	35.25	-87.34	REPORTS OF TREES BLOCKING LEOMA ROAD NEAR LEOMA AND

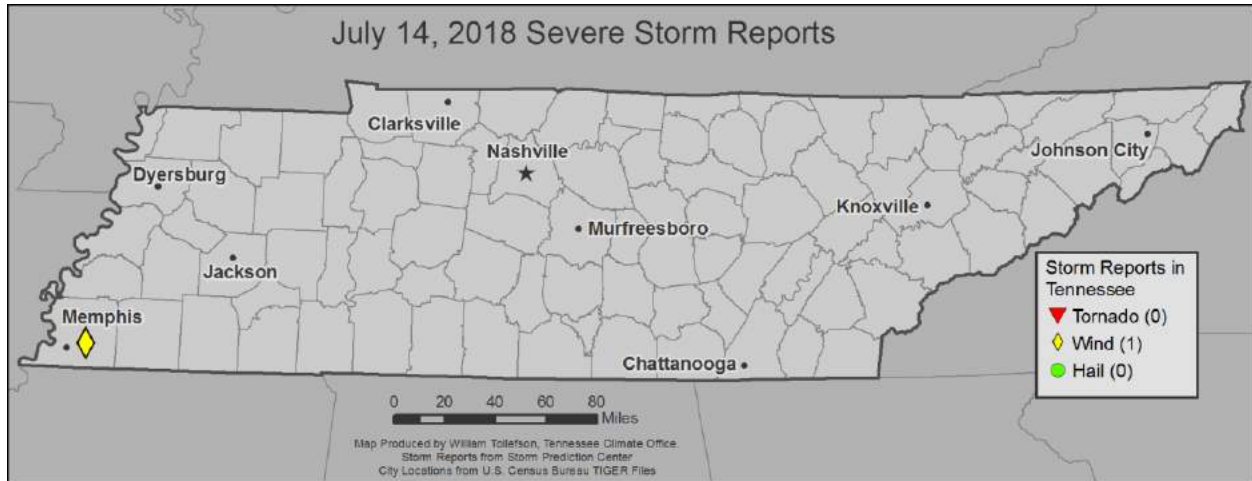
						SKYLINE DRIVE IN LAWRENCEBURG. (OHX)
22:09	-	9 WSW PARK LANE	MONTGOMERY	36.5	-87.53	REPORT OF TREES AND TREE LIMBS DOWN ABOUT 3 MILES SOUTH OF FORT CAMPBELL. ONE TREE FELL ONTO A TRUCK IN THE SPRING CREEK SUBDIVISION. (OHX)
22:43	-	INDIAN MOUND	STEWART	36.5	-87.69	TREES DOWN ON HIGHWAY 46 (OHX)
22:44	-	CUMBERLAND CITY	STEWART	36.38	-87.64	REPORT OF MULTIPLE TREES DOWN IN CUMBERLAND CITY WITH ONE TREE FALLING ON A HOME. (OHX)
22:49	-	CUMBERLAND CITY	STEWART	36.38	-87.64	TSPOTTER REPORT OF TREES AND POWER LINES DOWN ON THE 1500 BLOCK OF CUMBERLAND CITY ROAD IN STEWART COUNTY. (OHX)
23:20	-	5 NE BIG SANDY	BENTON	36.29	-88.02	LARGE TREE LIMBS DOWN ACROSS NORTHERN PARTS OF BENTON COUNTY. TIME ESTIMATED FROM RADAR. (MEG)
0:07	-	PARIS LANDING STATE PARK	HENRY	36.44	-88.08	THREE LARGE OAK TREES DOWN BEHIND THE POOL AT PARIS LANDING. PENNY SIZED HAIL FELL AS WELL. (MEG)
0:53	-	5 SSW SMYRNA	RUTHERFORD	35.91	-86.54	FACEBOOK PHOTO SHOWED TREE SNAPPED ON LONG SHADOW COURT (OHX)
1:15	-	3 SSE MCKENZIE	CARROLL	36.1	-88.49	TREE DOWN ON POWERLINES NEAR INTERSECTION OF HIGHWAY 22 AND HICO ROAD. (MEG)
2:10	-	TRENTON	GIBSON	35.97	-88.94	MULTIPLE TREES DOWN AND POWER LINES...ESPECIALLY HIGHWAY 45. (MEG)
2:19	-	1 E MIDTOWN MEMPHIS	SHELBY	35.13	-89.97	LARGE TREE DOWN BLOCKING WALNUT GROVE AT GOODLETT ROAD. (MEG)
2:22	-	2 S MIDTOWN MEMPHIS	SHELBY	35.1	-89.98	UPROOTED TREES AND POWER LINES DOWN NEAR THE PINK PALACE MUSEUM. (MEG)
2:24	-	7 S FRAYSER	SHELBY	35.12	-89.97	CONSIDERABLE DAMAGE TO A LARGE GAS STATION SIGN AT THE EXXON STATION ALONG POPLAR AVENUE NEAR OAK COURT MALL. TIME ESTIMATED FROM RADAR. (MEG)
2:25	-	3 W MEDINA	GIBSON	35.8	-88.83	SIGNIFICANT DAMAGE TO A MOBILE HOME ROOF OFF OF HIGHWAY 186. (MEG)
2:30	-	ALTAMONT	GRUNDY	35.43	-85.73	DELAYED REPORT FROM THURSDAY JULY 5TH. NUMEROUS TREES BLOWN DOWN IN AND AROUND ALTAMONT WITH SOME TREES

						FALLING ONTO HOMES AND CARS. SEVERAL ROADS BLOCKED BY FALLEN TRE (OHX)
2:35	-	DOWNTOWN MEMPHIS	SHELBY	35.13	-90.05	SEVERAL TREES DOWN ACROSS THE COUNTY. (MEG)
2:35	-	E JACKSON	MADISON	35.63	-88.83	SEVERAL TREES DOWN ALONG HIGHWAY 412 EAST OF JACKSON. (MEG)

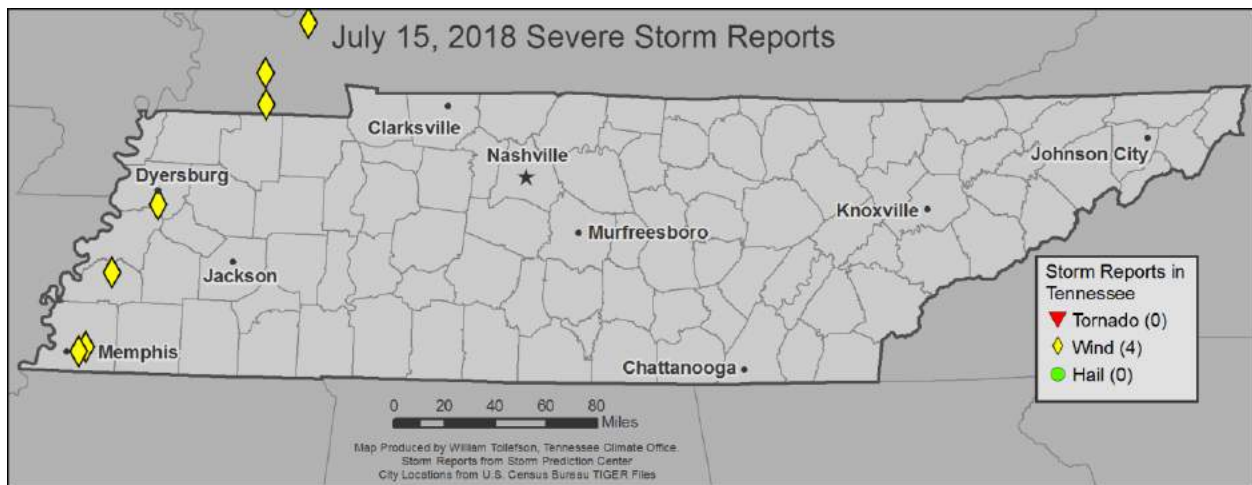


Time	Speed	Location	County	Lat	Lon	Comments
16:47	-	OAK HILL	DAVIDSON	36.08	-86.79	TSPOTTER REPORT OF TREE DOWN IN OAK HILL. TIME ESTIMATED BASED ON RADAR. (OHX)
17:37	-	3 E WHITES CREEK	DAVIDSON	36.27	-86.78	SEVERAL TREES DOWN IN THE BELLSHIRE AREA INCLUDING ONE ON BRICK CHURCH PIKE. (OHX)
17:55	-	8 SE BRADYVILLE	CANNON	35.65	-86.07	TSPOTTER REPORT OF TREES DOWN ON HIGHWAY 53 ONE MILE NORTH OF THE COFFEE COUNTY LINE. TIME ESTIMATED BASED ON RADAR. (OHX)
18:10	-	HOLLOW ROCK	CARROLL	36.03	-88.27	LARGE LIMBS RIPPED FROM TREES AND ONE TREE BENT OVER PERMANENTLY. (MEG)
18:15	-	1 S SPARTA	WHITE	35.92	-85.47	FACEBOOK PHOTOS SHOWED A CEDAR TREE WAS SNAPPED AND LARGE TREE BRANCHES WERE BLOWN DOWN ON KNOWLES STREET IN SPARTA (OHX)
18:17	-	1 S HUMBOLDT	GIBSON	35.81	-88.91	TREE BLOCKING WINDY CITY RD. (MEG)
18:45	-	5 NW JACKSON	MADISON	35.68	-88.89	TREE DAMAGE AND CARPORT DAMAGE NEAR INTERSECTION OF PLEASANT PLAINS RD AND ASHPORT RD. (MEG)
20:37	-	GREENBACK	LOUDON	35.65	-84.18	NUMEROUS TREES DOWN ACROSS SOUTHEAST LOUDON COUNTY NEAR GREENBACK. TIME ESTIMATED BY RADAR. (MRX)

20:40	-	5 SSW CLEVELAND	BRADLEY	35.11	-84.9	WIND DAMAGE TO BARN/SHED ROOF OFF OF BLUE SPRINGS RD. (MRX)
22:30	-	2 SW TAZEWELL	CLAIBORNE	36.44	-83.6	SEVERAL TREES DOWN NEAR 1ST AVENUE IN NEW TAZEWELL. (MRX)
23:37	-	8 NW MASCOT	KNOX	36.15	-83.87	COUPLE OF TREES DOWN. (MRX)



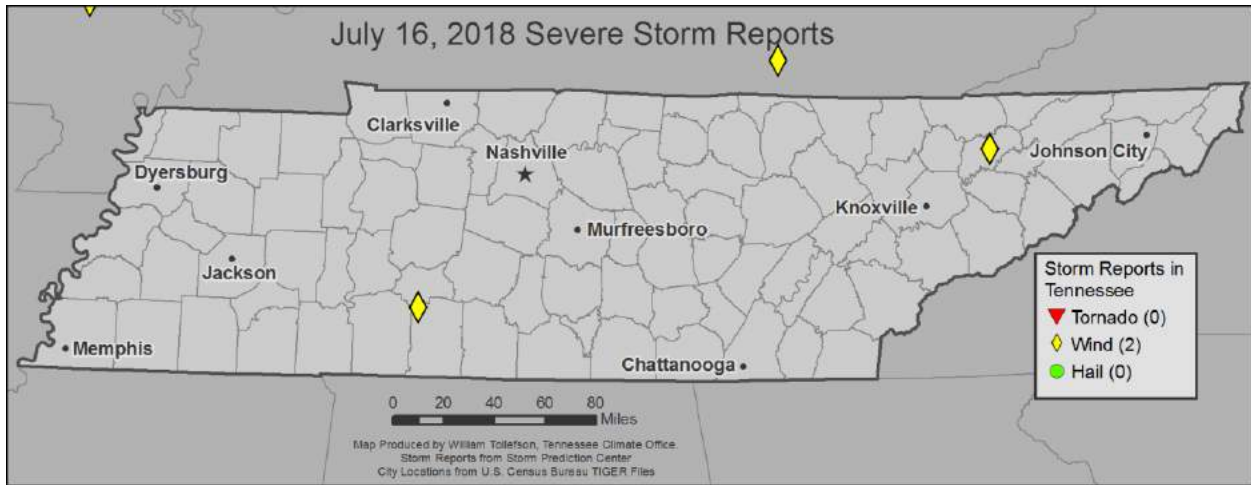
Time	Speed	Location	County	Lat	Lon	Comments
23:40	-	5 NW GERMANTOWN	SHELBY	35.14	-89.85	A FEW MEDIUM SIZE TREES DOWN ACROSS SHELBY FARMS PARK. TIME ESTIMATED OFF RADAR. (MEG)



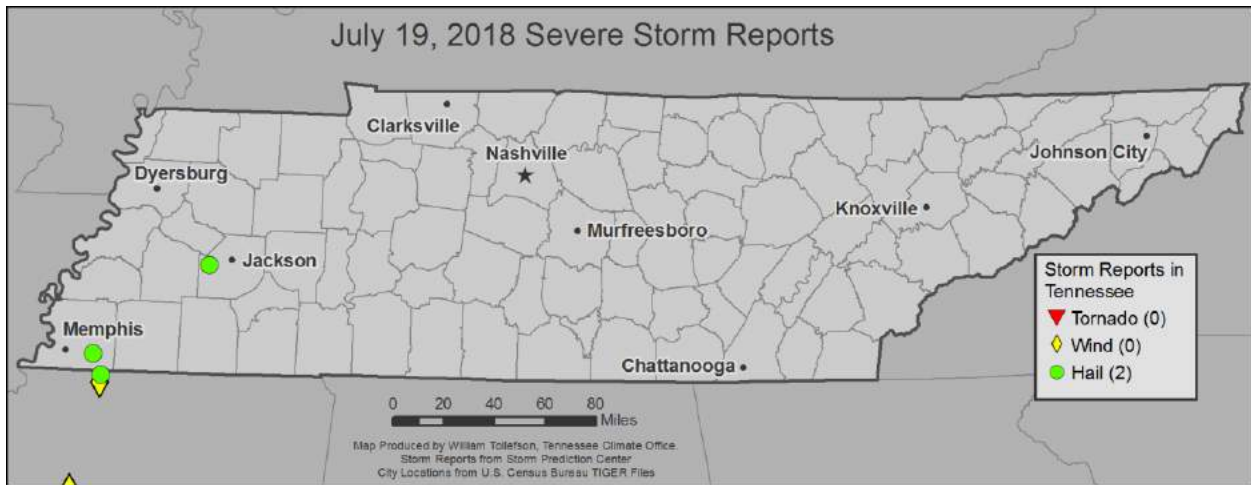
Time	Speed	Location	County	Lat	Lon	Comments
20:45	-	5 S DYERSBURG	DYER	35.97	-89.38	SEVERAL TREE LIMBS BLOCKING THE ROAD NEAR THE FOWLKES COMMUNITY. (MEG)
23:39	60	2 W COVINGTON	TIPTON	35.57	-89.69	(MEG)
23:40	-	5 NW GERMANTOWN	SHELBY	35.14	-89.85	A FEW MEDIUM SIZE TREES DOWN ACROSS SHELBY FARMS PARK. TIME ESTIMATED OFF RADAR. (MEG)



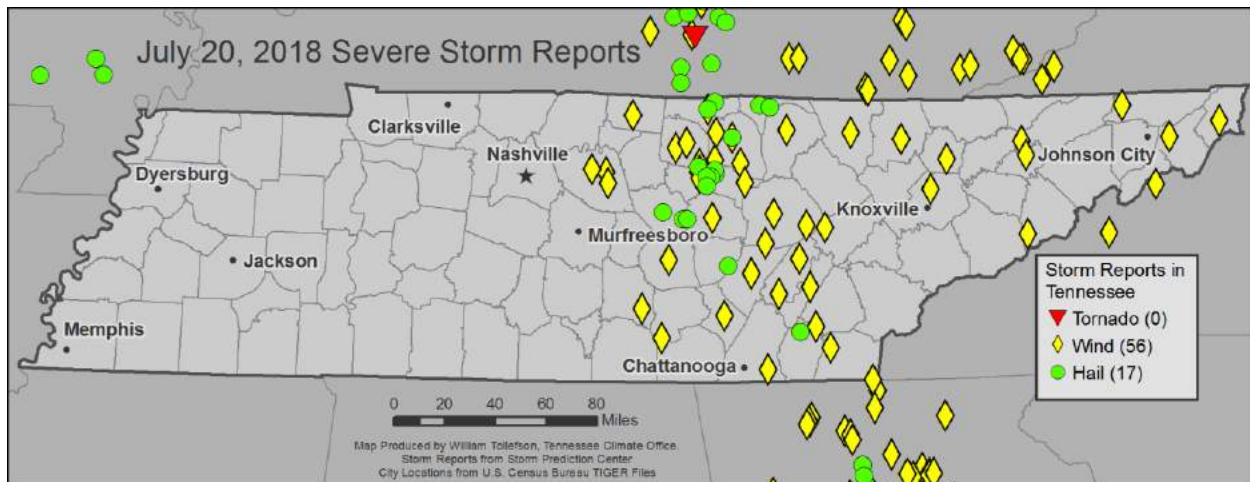
0:40	-	3 NNW SOUTHEAST MEMPHIS	SHELBY	35.11	-89.9	LARGE TREE DOWN ACROSS SAINT NICK DR. (MEG)
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Time	Speed	Location	County	Lat	Lon	Comments
12:09	-	15 NW LAWRENCEBUR G	LAWRENCE	35.4	-87.53	A LARGE TREE FELL ON A FENCE AND SEVERAL BRANCHES WERE DOWN ALONG THE NACHEZ TRACE. (OHX)
21:23	-	2 NE RUTLEDGE	GRAINGER	36.29	-83.5	COUPLE OF TREES DOWN NEAR RUTLEDGE AND TO THE NORTHEAST BETWEEN RUTLEDGE AND BEAN STATION. (MRX)



Time	Size	Location	County	Lat	Lon	Comments
1:22	1"	N GERMANTOWN	SHELBY	35.09	-89.79	QUARTER SIZED HAIL AROUND HOUSTON LEVEE ROAD AND WOLF RIVER. (MEG)
3:00	1"	1 W HUNTERSVILLE	MADISON	35.62	-89	QUARTER SIZED HAIL ON PROVIDENCE ROAD SOUTH OF I-40. (MEG)



Time	Size	Location	County	Lat	Lon	Comments
0:30	1"	4 NE CELINA	CLAY	36.59	-85.45	ESTIMATED 1 INCH HAIL REPORTED IN PEA RIDGE (OHX)
0:32	1"	BYRDSTOWN	PICKETT	36.57	-85.13	FACEBOOK PHOTOS SHOWED DIME TO QUARTER SIZE HAIL IN BYRDSTOWN (OHX)
0:50	1"	4 ESE BYRDSTOWN	PICKETT	36.56	-85.06	FACEBOOK PHOTOS SHOWED QUARTER SIZE HAIL IN THE CEDAR GROVE AREA (OHX)
1:07	1"	CELINA	CLAY	36.55	-85.5	QUARTER SIZE HAIL REPORTED IN CELINA. (OHX)
1:20	1"	2 SSW CUMMINS FALLS STA	PUTNAM	36.22	-85.57	QUARTER SIZE HAIL REPORTED NEAR CUMBY ROAD AND GAINESBORO GRADE. (OHX)
1:24	1.75"	1 SSW ALGOOD	PUTNAM	36.18	-85.45	DELAYED REPORT FROM FRIDAY JULY 20. GOLFBALL SIZE HAIL REPORTED NEAR ALGOOD ELEMENTARY SCHOOL. (OHX)
1:25	1.25"	ALGOOD	PUTNAM	36.2	-85.45	(OHX)
1:31	1.25"	COOKEVILLE	PUTNAM	36.16	-85.51	TSPOTTER REPORT OF HAIL IN COOKEVILLE. LARGER THAN A QUARTER IN COMPARISON. (OHX)
1:34	1"	LIVINGSTON	OVERTON	36.39	-85.33	(OHX)
1:35	1.5"	1 E COOKEVILLE	PUTNAM	36.16	-85.48	REPORT OF 1.5 INCH HAIL IN COOKEVILLE. (OHX)
1:35	1.5"	COOKEVILLE	PUTNAM	36.16	-85.51	REPORT OF 1.5 INCH HAIL IN COOKEVILLE. (OHX)
2:22	1"	3 S COOKEVILLE	PUTNAM	36.11	-85.51	REPORT OF QUARTER SIZE HAIL SOUTH OF COOKEVILLE IN PUTNAM COUNTY. (OHX)
5:36	1"	6 WSW CHARLESTON	BRADLEY	35.27	-84.86	(MRX)
10:10	1.25"	SMITHVILLE	DE KALB	35.96	-85.82	IMAGE SHOWED HAIL COVERING PATIO WITH SOME HAIL UP TO HALF DOLLAR SIZE. (OHX)
10:15	1.75"	8 ESE SMITHVILLE	DE KALB	35.92	-85.68	TWITTER REPORT OF HAIL UP TO GOLFBALL SIZE IN EASTERN DE KALB COUNTY (OHX)
10:16	1.75"	9 SW BAKERS CROSSROADS	WHITE	35.92	-85.65	TWITTER REPORT OF PEA TO GOLFBALL SIZE HAIL ON THE DE KALB/WHITE COUNTY LINE (OHX)

10:43	1"	8 SE SPENCER	VAN BUREN	35.65	-85.36	QUARTER SIZE HAIL REPORTED AT FALL CREEK FALLS CAMPGROUND (OHX)
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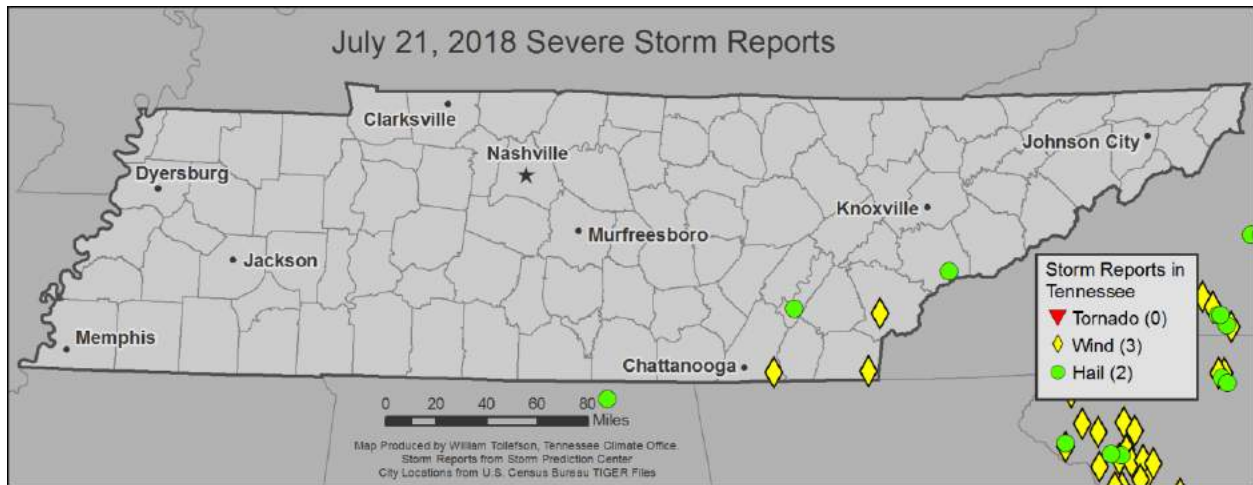
Time	Speed	Location	County	Lat	Lon	Comments
0:44	-	7 WNW LIVINGSTON	OVERTON	36.42	-85.44	TREE REPORTED DOWN NEAR 170 STANDING STONE PARK HIGHWAY NEAR HILLHAM. POWER OUTAGES REPORTED AS WELL. (OHX)
0:49	-	5 WSW GAINESBORO	JACKSON	36.33	-85.73	SEVERAL TREES REPORTED DOWN IN THE FLYNN'S LICK AREA. (OHX)
1:08	-	CELINA	CLAY	36.55	-85.5	SEVERAL TREES DOWN ON MOSS ARCOT ROAD. (OHX)
1:16	-	JAMESTOWN	FENTRESS	36.43	-84.94	MINOR ROOF DAMAGE TO A HOUSE IN JAMESTOWN OFF OF HWY 52 EAST. TREE DOWN ON STEVENS ROAD. (OHX)
1:25	-	LIVINGSTON	OVERTON	36.39	-85.33	NUMEROUS TREES DOWN IN LIVINGSTON INCLUDING ON PRESTON STREET...WEST MAIN STREET...MONTEREY HIGHWAY...1972 VILLA DRIVE...AND 900 NORTH CHURCH STREET. POWER LINES ALSO D (OHX)
1:30	-	7 N MONTEREY	OVERTON	36.24	-85.27	TREES DOWN ON RUSHING SPRINGS ROAD (OHX)
1:33	-	1 SSE CUMMINS FALLS STA	JACKSON	36.24	-85.56	TREES DOWN WITH POWER OUTAGES ON CUMMINS MILL RD. (OHX)
1:35	-	5 N ALGOOD	PUTNAM	36.26	-85.45	TREES DOWN NEAR ZEB WARREN ROAD AND BEN MASON ROAD. (OHX)
1:40	-	LA FOLLETTE	CAMPBELL	36.37	-84.13	SEVERAL TREES DOWN ACROSS THE COUNTY. (MRX)
1:49	-	LA FOLLETTE	CAMPBELL	36.37	-84.13	TREE DOWN ON SOUTH HIGHWAY 25. (MRX)
2:15	-	4 NW COOKEVILLE	PUTNAM	36.19	-85.55	DELAYED REPORT FROM FRIDAY JULY 20. SEVERAL TREES BLOWN DOWN ON WAKEFIELD DRIVE NEAR COUNTY FARM ROAD (OHX)
2:17	-	4 WNW COOKEVILLE	PUTNAM	36.19	-85.57	DELAYED REPORT FROM FRIDAY JULY 20. SEVERAL TREES SNAPPED AND UPROOTED AROUND THE POST OAK SHADE CHURCH AT THOMAS ROAD AND PIPPIN ROAD INTERSECTION (OHX)
2:20	-	2 WNW COOKEVILLE	PUTNAM	36.17	-85.54	DELAYED REPORT FROM FRIDAY JULY 20. CANE CREEK PARK MOUNTAIN BIKE TRAIL CLOSED FOR 2 TO 3 WEEKS DUE TO NUMEROUS TREES DOWN BLOCKING THE TRAIL. (OHX)
2:23	-	BEAN STATION	GRAINGER	36.34	-83.28	SEVERAL TREES DOWN IN GRAINGER COUNTY... TENNESSEE. (MRX)

2:27	-	MAYNARDVILLE	UNION	36.25	-83.81	SEVERAL TREES DOWN ACROSS THE MAYNARDVILLE... TENNESEE AREA. (MRX)
2:38	-	KINGSPORT	SULLIVAN	36.53	-82.56	TRAFFIC SIGNALS AND WIRES DOWN IN KINGSPORT DUE TO THE HIGH WINDS. (MRX)
2:45	-	HALLS	KNOX	36.08	-83.93	SEVERAL TREES DOWN. ONE TREE OVER A CAR. (MRX)
2:50	73	4 NE MORRISTOWN	HAMBLEN	36.26	-83.25	MEASURED REPORT OF 73 MPH AT WHITESBURG... TN. (MRX)
2:51	-	7 SSW LAKE TANSI	CUMBERLAND	35.78	-85.1	REPORTS OF TREES DOWN AND A TRANSFORMER DOWN ON VANDEVER ROAD IN CUMBERLAND COUNTY (OHX)
3:12	-	ELIZABETHTON	CARTER	36.34	-82.23	SEVERAL TREES DOWN ACROSS CARTER COUNTY... TENNESSEE. (MRX)
3:31	-	COSBY	COCKE	35.81	-83.25	SEVERAL TREES DOWN ACROSS THE COSBY AREA DUE TO HIGH WINDS. (MRX)
3:36	-	5 SW MOUNTAIN CITY	JOHNSON	36.42	-81.87	SEVERAL TREES DOWN AROUND THE COMMUNITY OF BUTLER... TENNESSEE. (MRX)
3:40	-	SPRING CITY	RHEA	35.69	-84.86	DAMAGE TO A HOME IN SPRING CITY. TIME IS ESTIMATED. (MRX)
4:06	-	DECATUR	MEIGS	35.53	-84.79	SEVERAL TREES DOWN ACROSS THE CITY OF DECATUR... TENNESSEE. (MRX)
4:20	-	SPRING CITY	RHEA	35.69	-84.86	NUMEROUS TREES AND POWER LINES DOWN ACROSS THE NORTHERN HALF OF THE COUNTY. PENNY SIZE HAIL AS WELL. (MRX)
4:35	-	PIKEVILLE	BLEDSON	35.61	-85.2	SEVERAL TREES DOWN ACROSS THE PIKEVILLE... TN AREA. (MRX)
4:39	-	DECATUR	MEIGS	35.53	-84.79	TREES DOWN COUNTY-WIDE ACROSS MEIGS COUNTY... TENNESSEE. (MRX)
4:57	-	GAINESBORO	JACKSON	36.36	-85.65	LARGE TREE BLOCKING HIGHWAY 56 SOUTH LEAVING GAINESBORO GOING TOWARD BAXTER AT HALE HOLLOW. (OHX)
5:10	-	DAYTON	RHEA	35.49	-85.01	MULTIPLE TREES DOWN. (MRX)
5:15	-	BENTON	POLK	35.18	-84.65	2 TREES DOWN HIGHWAY 64. (MRX)
5:15	-	4 NW COOKEVILLE	PUTNAM	36.2	-85.56	A POWER POLE WAS BLOWN DOWN AT CUMBY ROAD AND PIPPIN ROAD. THIS WAS REPORTED ON THE PUTNAM COUNTY EMA FACEBOOK SITE. TIME WAS ESTIMATED BY RADAR. (OHX)
5:25	-	PIKEVILLE	BLEDSON	35.61	-85.2	SEVERAL TREES DOWN AND A POWER LINE DOWN ACROSS THE ROAD. (MRX)

5:40	-	3 W COOKEVILLE	PUTNAM	36.16	-85.56	TREES AND POWER LINES WERE BLOWN DOWN ALONG PIPPIN ROAD. REPORT WAS POSTED ON PUTNAM COUNTY EMA FACEBOOK. TIME WAS ESTIMATED BY RADAR. (OHX)
5:40	-	LAFAYETTE	MACON	36.52	-86.03	NUMEROUS TREES AND SOME POWER LINES DOWN ACROSS MACON COUNTY FROM LAFAYETTE EASTWARD (OHX)
5:48	-	MONTEREY	PUTNAM	36.13	-85.24	DELAYED REPORT FROM SATURDAY JULY 21. NUMEROUS TREES BLOWN DOWN ALL ACROSS PUTNAM COUNTY. (OHX)
5:50	-	HUNTSVILLE	SCOTT	36.41	-84.49	A FEW TREES DOWN NEAR HUNTSVILLE (MRX)
5:54	-	CALHOUN	MCMINN	35.3	-84.75	2 TREES DOWN ON THE SOUTHERN END OF MCMINN COUNTY. (MRX)
5:59	-	COOKEVILLE	PUTNAM	36.16	-85.5	SEVERAL TREES REPORTEDLY BLOWN DOWN IN COOKEVILLE (OHX)
6:30	-	5 ESE CRAB ORCHARD	CUMBERLAND	35.88	-84.81	DELAYED REPORT FROM SATURDAY JULY 21. SEVERAL TREES BLOWN DOWN IN THE OZONE AND WESTEL COMMUNITIES. (OHX)
6:30	-	CROSSVILLE	CUMBERLAND	35.95	-85.04	HIGHWAY DEPARTMENT REPORTED NUMEROUS TREES DOWN... BLOCKING ROADS ACROSS CUMBERLAND COUNTY. (OHX)
6:35	-	LA FOLLETTE	CAMPBELL	36.37	-84.13	SEVERAL TREES DOWN JUST EAST OF LA FOLLETTE (MRX)
6:38	-	3 W TUCKERS CROSSROADS	WILSON	36.19	-86.22	TREE ACROSS ROADWAY AT 4033 BLUEBIRD ROAD (OHX)
6:40	-	ROCKWOOD	ROANE	35.87	-84.68	SEVERAL TREES DOWN AROUND THE ROCKWOOD AREA (MRX)
6:40	-	LEBANON	WILSON	36.21	-86.32	DELAYED REPORT FROM SATURDAY JULY 21. TREE FELL ON A JEEP IN LEBANON. (OHX)
6:42	-	SPARTA	WHITE	35.93	-85.47	DELAYED REPORT FROM SATURDAY JULY 21. TREE UPROOTED AT THE WHITE COUNTY PUBLIC LIBRARY (OHX)
6:45	-	3 SW LINWOOD	WILSON	36.13	-86.21	LARGE TREE ACROSS ROADWAY ON SPARTA PIKE AT YOUNG ROAD (OHX)
7:15	-	MCMINNVILLE	WARREN	35.69	-85.78	DELAYED REPORT FROM SATURDAY JULY 21. TREES DOWN THROUGHOUT WARREN COUNTY WITH SOME FALLING ON HOUSES. (OHX)
7:37	-	PIKEVILLE	BLEDSON	35.61	-85.2	NUMEROUS REPORTS OF TREES DOWN ACROSS THE NORTHERN PART OF THE COUNTY. (MRX)
7:55	-	7 ESE MANCHESTER	COFFEE	35.41	-85.97	TREES REPORTED DOWN ACROSS EASTERN COFFEE COUNTY (OHX)

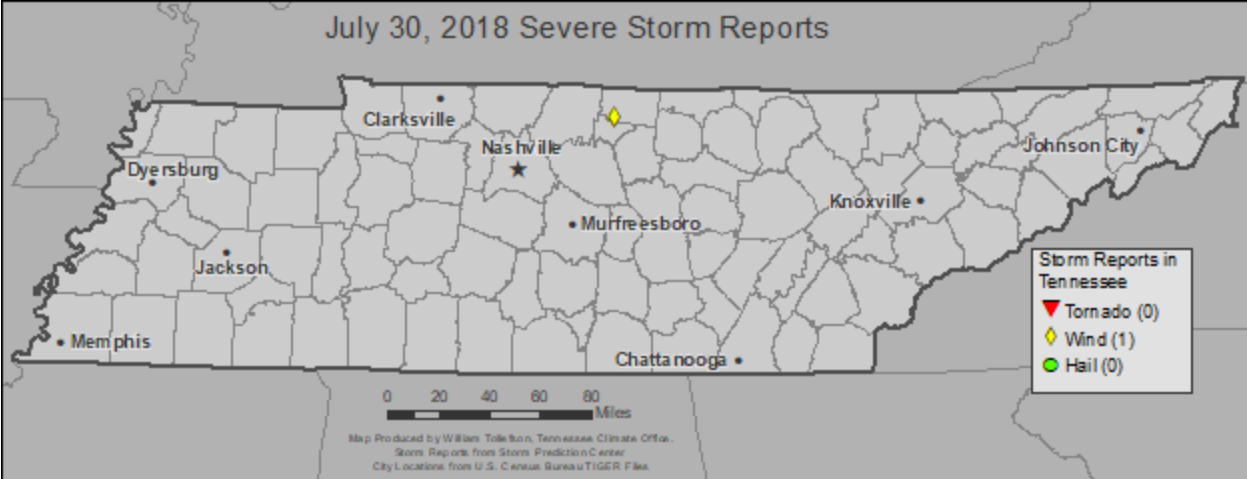


7:55	-	DAYTON	RHEA	35.49	-85.01	SEVERAL TREES DOWN ACROSS THE SOUTHERN PART OF RHEA COUNTY. (MRX)
8:00	-	DUNLAP	SEQUATCHIE	35.37	-85.39	SEVERAL TREES DOWN COUNTY-WIDE. (MRX)
8:15	-	CALHOUN	MCMINN	35.3	-84.75	TREE DOWN ON HIGHWAY 163 (MRX)
8:24	-	OOLTEWAH	HAMILTON	35.06	-85.09	ONE TREE DOWN IN OOLTEWAH (MRX)
8:25	-	5 WSW TRACY CITY	GRUNDY	35.24	-85.83	DELAYED REPORT FROM SATURDAY JULY 21. TREE BLOWN DOWN IN MONTEAGLE (OHX)
8:40	-	COPPERHILL	POLK	34.99	-84.36	SEVERAL TREES SNAPPED AND UPROOTED NEAR THE OCOEE WHITEWATER CENTER. (MRX)
11:08	-	PIKEVILLE	BLEDSE	35.61	-85.2	MULTIPLE TREES DOWN. (MRX)



Time	Size	Location	County	Lat	Lon	Comments
21:35	1"	BIG SPRING	MEIGS	35.4	-84.9	(MRX)
23:20	1"	CADES COVE	BLOUNT	35.6	-83.81	(MRX)

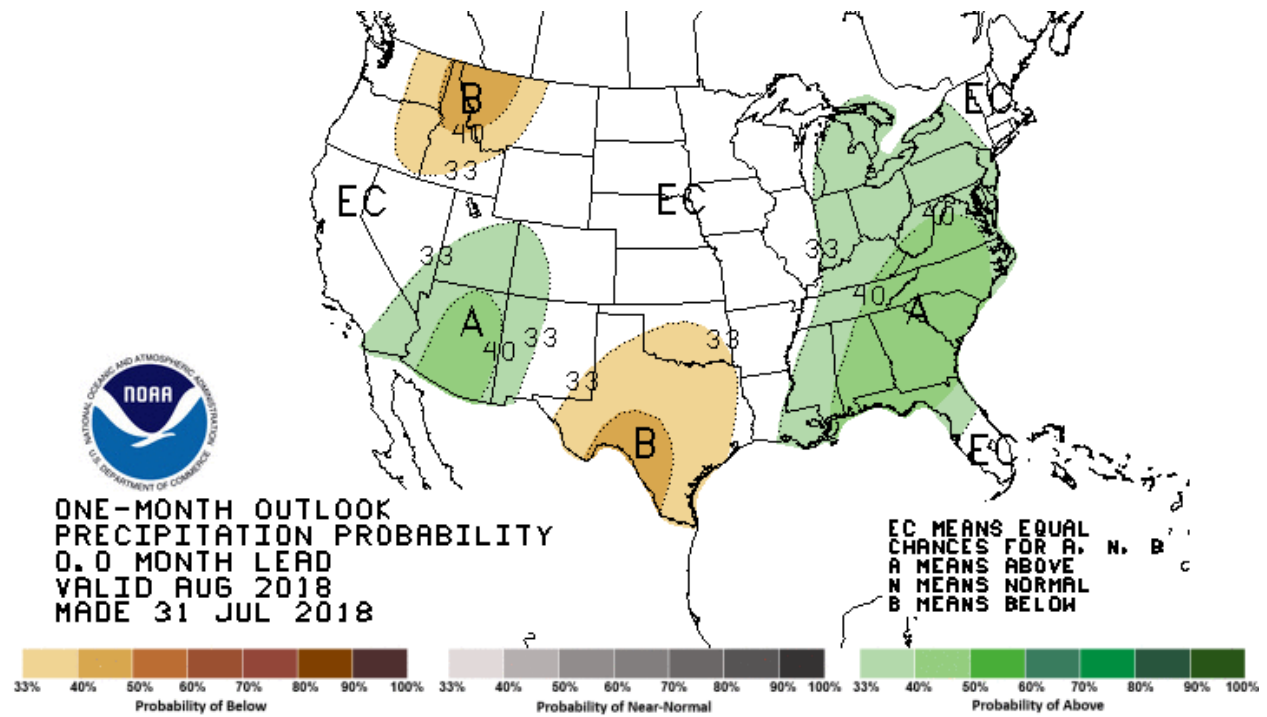
Time	Speed	Location	County	Lat	Lon	Comments
12:24	-	TELLICO PLAINS	MONROE	35.37	-84.3	SEVERAL TREES AND POWER LINES DOWN. (MRX)
22:05	-	COLLEGEDALE	HAMILTON	35.04	-85.05	MULTIPLE TREES AND POWERLINES DOWN. (MRX)
22:40	-	DUCKTOWN	POLK	35.04	-84.39	SEVERAL TREES DOWN ACROSS THE COUNTY. (MRX)



Time	Speed	Location	County	Lat	Lon	Comments
23:55	-	6 SW LAFAYETTE	MACON	36.47	-86.11	TREES DOWN ON BEECH HILL. TIME ESTIMATED VIA RADAR. (OHX)

### CPC outlooks for the next month:

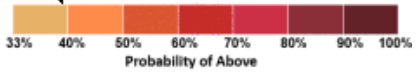
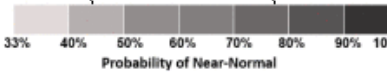
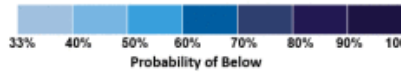
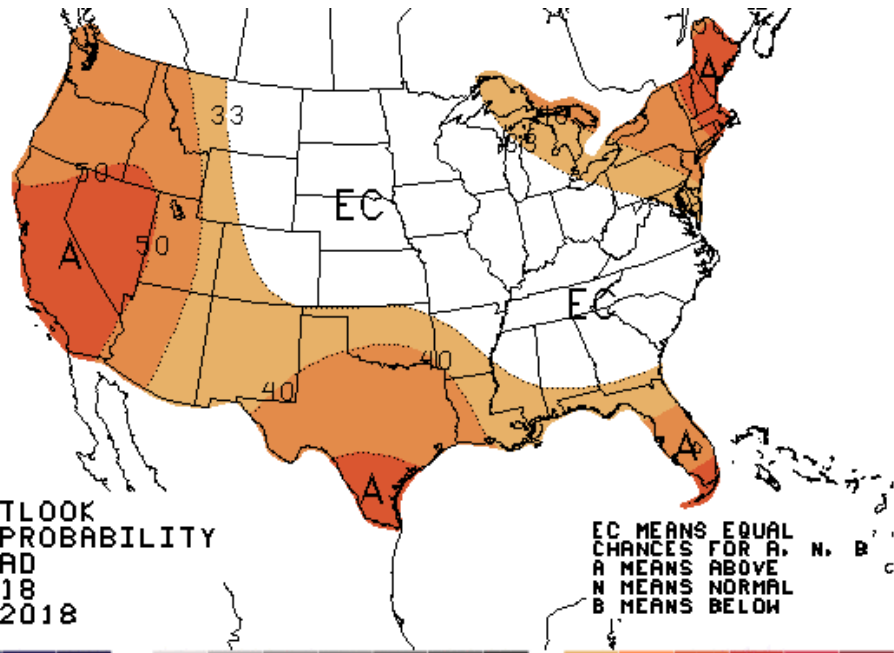
The Climate Prediction Center outlook for precipitation for August shows a likely continuance of the pattern from the second half of July. With continued wetter than average conditions across the eastern third of the state, but with a slight chance of being wetter than average in the rest of the state as well (except the area right along the Mississippi River).



The temperature outlook indicates that the entire state has equal chances of being at, above, or below normal for August; indicating a lack of a strong climatological control on our temperatures for the next month.



ONE-MONTH OUTLOOK  
TEMPERATURE PROBABILITY  
0.0 MONTH LEAD  
VALID AUG 2018  
MADE 31 JUL 2018



EC MEANS EQUAL  
CHANCES FOR A, N, B  
A MEANS ABOVE  
N MEANS NORMAL  
B MEANS BELOW