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7-1-2020

2020 July - Tennessee Monthly Climate Report

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July 2020 Tennessee State Climate Summary

Tennessee Climate Office * East Tennessee State University

Prepared by William Tollefson and Dr. Andrew Joyner

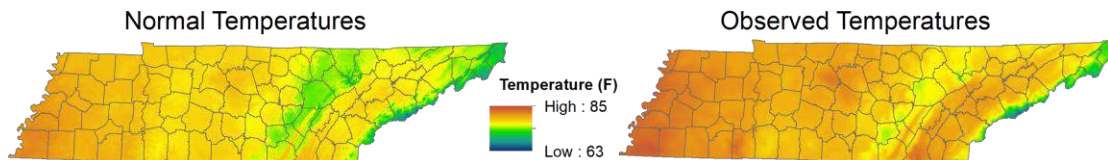
With contributions by Climate Data Representatives at University of Memphis, University of Tennessee-Martin, Vanderbilt University, University of Tennessee-Knoxville, and University of Tennessee-Institute of Agriculture

Monthly Temperature Summary:

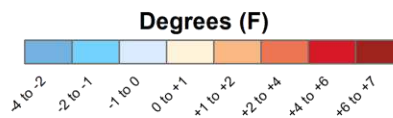
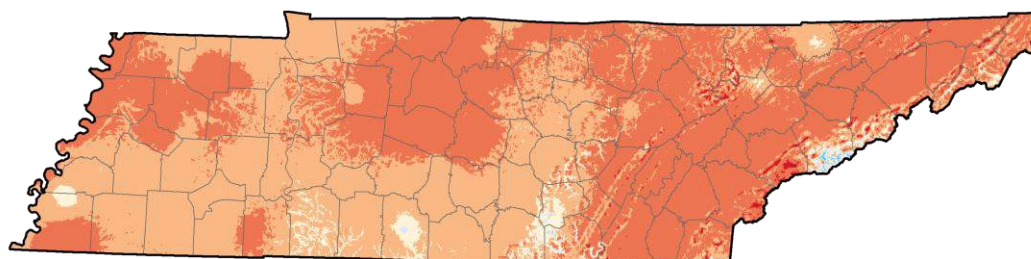
Average temperatures for the month were above normal for almost all areas of the state, with most areas recording a mean temperature 2-4°F above normal for July. Temperatures for the first half of the month were near normal with a few areas in southern middle Tennessee even averaging slightly below normal, but heat that had been baking the southwest and south-central portions of the country moved east and influenced Tennessee for the second half of the month. From the 15th to the 24th at least one station reported its highest temperature of the month. Only one weather station (Woodbury 1WNW, in Cannon County) reported a triple-digit-high, but many locations reached 98°F or 99°F, and experienced heat index values over 110°F! All six long-term climate-reporting stations in the state exceeded 95°F at some point during the month. Additionally, the Memphis area did not drop below 70°F all month. Heat advisories and air quality (ozone) alerts were issued in parts of the state during the heat wave in the middle of the month as well.



July 2020 Mean Temperature



Departure From Normal Temperatures



Stations with the highest mean temperature

Station Name	Station Type	Mean Temperature (F)
GERMANTOWN 4SE	COOP	84.8
MEMPHIS INTERNATIONAL AP	WBAN	84.1
CHATTANOOGA AP	WBAN	83.4
MEMPHIS WFO	WBAN	83.2
NASHVILLE INTL AP	WBAN	83

Map Data From: PRISM Climate Group, Oregon State University, 1981-2010 Normals Used
Station Data retrieved from SC ACIS2

Stations with the lowest mean temperature

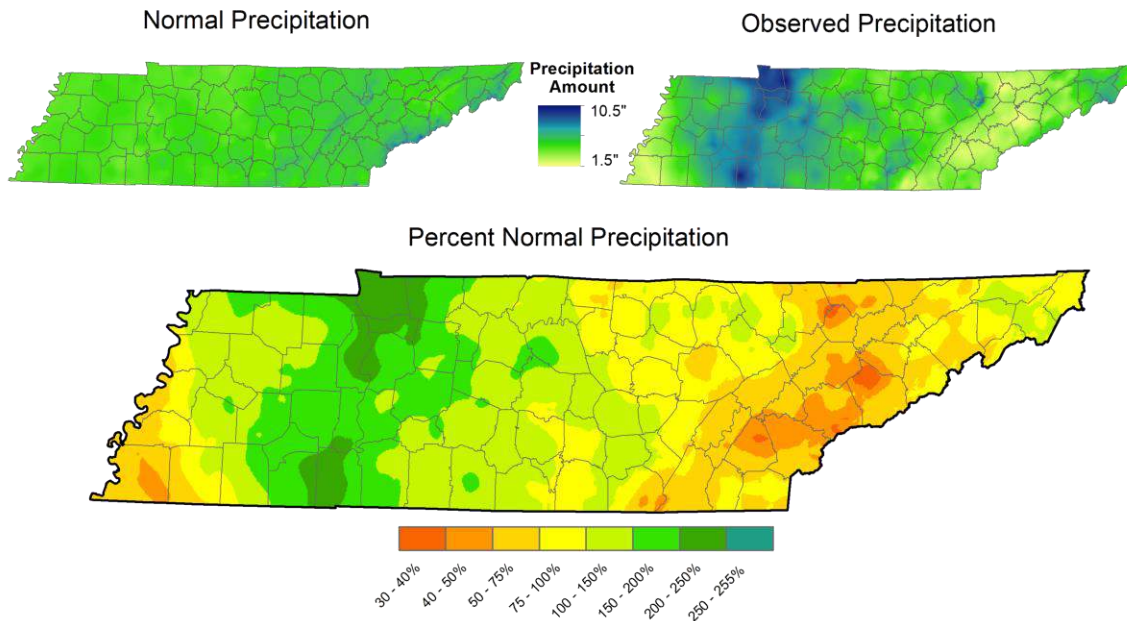
Station Name	Station Type	Mean Temperature (F)
MT LECONTE	COOP	59.9
NEWFOUND GAP	COOP	67.4
ROAN MOUNTAIN 3SW	COOP	70.5
CHEROKEE TENNESSEE	RAWS	71.7
CROSSVILLE EXP STN	COOP	73.5

Monthly Precipitation Summary:

Looking at precipitation patterns in July, it was a tale of the haves and the have-nots. Most of the rainfall during the month was associated with thunderstorms, which produced heavy downpours and caused some flash flooding. Generally, East Tennessee and the southwest portion of the state recorded below normal precipitation for the month, while most of Middle and northeastern sections of West Tennessee recorded above normal precipitation. Eastern portions of West Tennessee, and western portions of Middle Tennessee recorded back to back weeks of above normal precipitation for the first half of the month, while elsewhere was drier than normal (except for extremely localized areas with heavy thunderstorm rains). Rainfall for the second half of the month was more scattered, with most above normal precipitation totals found in the northern and eastern sections of the state. Two rain gauges exemplify the extremes in precipitation this month with one (in East Tennessee) reporting less than one inch of rain, and another (in Middle Tennessee) reporting over one foot of rain!



July 2020 Precipitation



Stations with the most precipitation

Station Name	Station Type	Total Precipitation (in)
GALLATIN 5.7 SSE	CoCoRaHS	12.42
CLARKSVILLE 14.4 WSW	CoCoRaHS	11.48
DICKSON 5.8 NW	CoCoRaHS	11.29
CLARKSVILLE 3.4 NNW	CoCoRaHS	11
CUNNINGHAM 0.5 NW	CoCoRaHS	10.98

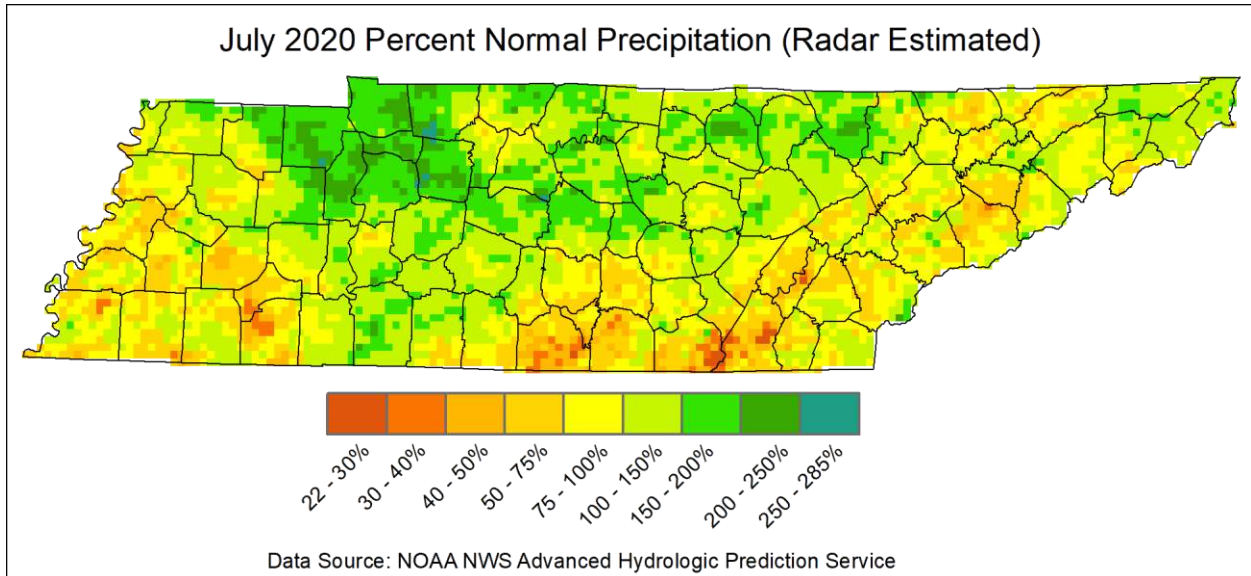
Map Data From: PRISM Climate Group, Oregon State University, 1981-2010 Normals Used
Station Data retrieved from SC ACIS2

Stations with the least precipitation

Station Name	Station Type	Total Precipitation (in)
MADISONVILLE 1.2 NNE	CoCoRaHS	0.58
SEVIERVILLE 2.8 NNW	CoCoRaHS	0.79
CHEATHAM LOCK & DAM	COOP	1.04
KINGSTON	COOP	1.09
TOWNSEND 5S	COOP	1.2

It was not uncommon for a thunderstorm to remain stationary over an area and produce two to three inches of rain in a matter of hours, while locations in the same county never recorded rainfall from that storm. This highly localized pattern in rainfall is common in Tennessee during the summer season. However, this pattern also produces some error in the interpolated datasets we at the Tennessee Climate Office use to produce our monthly precipitation map. It can be noted on the map above that some areas shown as having recorded above normal precipitation, in fact did not. This issue is most common in portions of West Tennessee and southern sections of Middle Tennessee. For example, the Jackson Airport in Madison County recorded only 47% of the normal July rainfall total, while some locations in the

northern sections of Madison County recorded over 150% of normal rainfall totals. The above precipitation map does not correctly capture this disparity and tends to over-predict rainfall in southern Madison County and extending southward into Chester and McNairy counties, likely because of heavy rainfall in Wayne County to the east. The map below shows radar estimated percent normal rainfall from the National Weather Service's Advanced Hydrologic Prediction Service. This map better shows the spotty nature of rainfall for the month of July, and better matches with weather station observations.



Station Data and Top Tenn. (warmest/wettest, coldest/driest stations of the month):

Station data for airports across the state using WBAN weather stations:

Station Name	Temperatures (°F)								Precipitation (inches)		
	Averages				Extremes				Totals		
	Max	Min	Mean	Depart	High	Date	Low	Date	Obs	Depart	%Norm
Memphis	93.0	75.3	84.1	+1.4	97	7/20	71	7/1	1.73	-2.86	38%
Jackson	91.5	70.5	81.0	+1.5	95	7/20	64	7/11	2.12	-2.37	47%
Clarksville	89.5	70.3	79.9	+1.8	93	7/24	66	7/15	8.21	+4.29	209%
Nashville	93.5	72.6	83.0	+3.6	98	7/20	67	7/12	4.42	+0.78	121%
Chattanooga	93.5	73.3	83.4	+3.4	98	7/18	69	7/13	2.43	-2.48	49%
Crossville	85.1	65.8	75.5	+0.9	90	7/21	61	7/14	7.73	+2.58	150%
Knoxville	91.6	70.7	81.2	+2.8	97	7/20	65	7/14	2.58	-2.50	51%
Bristol	89.7	66.2	78.0	+3.4	95	7/16	60	7/14	6.62	+1.93	141%

Departures and %Norm Key: **Warmer than Normal**, **Cooler than Normal**; **Wetter than Normal**, **Drier than Normal**

Hottest Stations (highest maximum temperature)

Station Name	Station Type	Highest Temperature (F)	Date
WOODBURY 1 WNW	COOP	100	11
OLD HICKORY DAM	COOP	99	22
LEBANON 7 N	COOP	99	20
DECATUR 7NE	COOP	99	21
GERMANTOWN 4SE	COOP	99	12
ATHENS	COOP	98	19
LENOIR CITY	COOP	98	19
KINGSTON	COOP	98	21
NASHVILLE BERRY FIELD	COOP	98	21
GLADEVILLE	COOP	98	21
SHILOH NMP TENNESSEE	RAWS	98	21
LENOIR CITY TENNESSEE	RAWS	98	20
CHATTANOOGA AP	WBAN	98	18
MEMPHIS WFO	WBAN	98	16
NASHVILLE INTL AP	WBAN	98	20

Four stations tied for the second warmest temperature (99°F) and ten stations tied for the third warmest temperature (98°F).

Coldest Stations (lowest minimum temperature)

Station Name	Station Type	Lowest Temperature (F)	Date
MT LECONTE	COOP	43	31
INDIAN GRAVE TENNESSEE	RAWS	45	29
JAMESTOWN	COOP	50	14
ALLARDT	COOP	54	16
PORTLAND SEWAGE PLANT	COOP	54	6
ROAN MOUNTAIN 3SW	COOP	55	14
NEWFOUND GAP	COOP	55	13
ONEIDA	COOP	56	14
PICKETT STATE PARK	COOP	56	15
CHEROKEE TENNESSEE	RAWS	56	12

Warmest Stations (highest mean temperatures)

Station Name	Station Type	Mean Temperature (F)
GERMANTOWN 4SE	COOP	84.8
MEMPHIS INTERNATIONAL AP	WBAN	84.1
CHATTANOOGA AP	WBAN	83.4
MEMPHIS WFO	WBAN	83.2
NASHVILLE INTL AP	WBAN	83
SHILOH NMP TENNESSEE	RAWS	82.8
NASHVILLE BERRY FIELD	COOP	82.7
BROWNSVILLE	COOP	82.4
DYERSBURG III GOLF	WBAN	82.2
AMES PLANTATION	COOP	81.8
JACKSON EXP STA	COOP	81.8

Two stations tied for the 10th warmest mean temperature (81.8°F)

Coolest Stations (lowest mean temperatures)

Station Name	Station Type	Mean Temperature (F)
MT LECONTE	COOP	59.9
NEWFOUND GAP	COOP	67.4
ROAN MOUNTAIN 3SW	COOP	70.5
CHEROKEE TENNESSEE	RAWS	71.7
CROSSVILLE EXP STN	COOP	73.5
TOWNSEND 5S	COOP	73.6
GATLINBURG 2 SW	COOP	73.8
COALMONT	COOP	74.2
CROSSVILLE 7 NW	WBAN	74.2
MONTEAGLE	WBAN	75

Wettest Stations (highest precipitation totals):

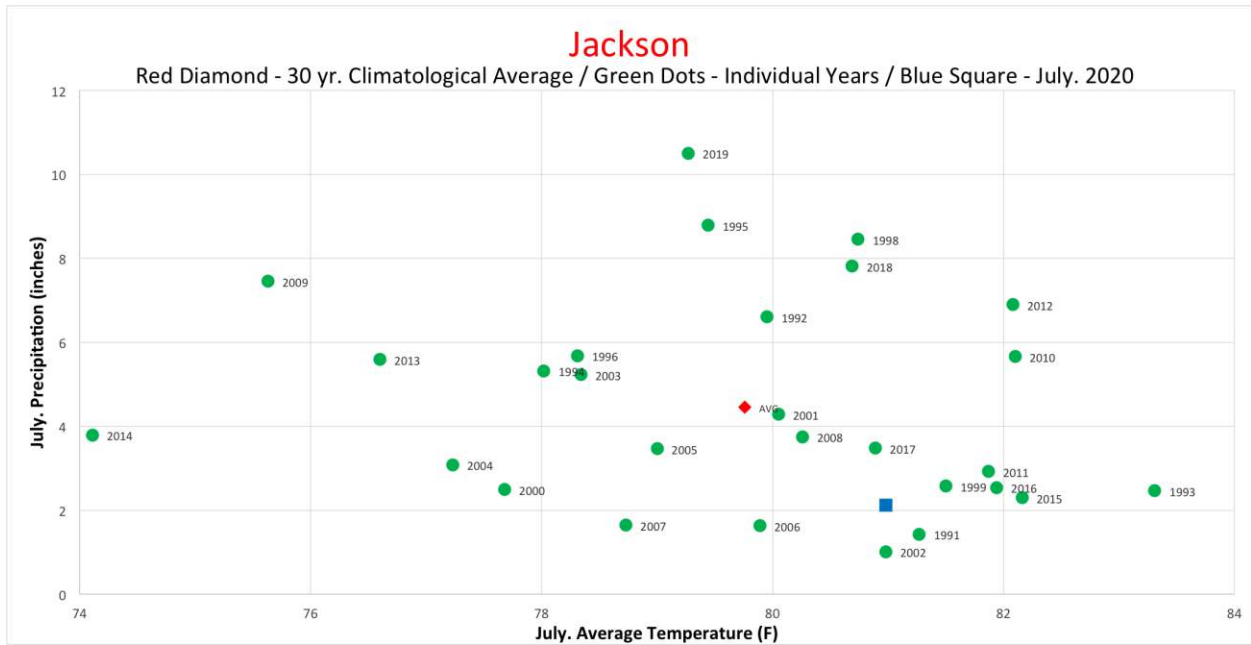
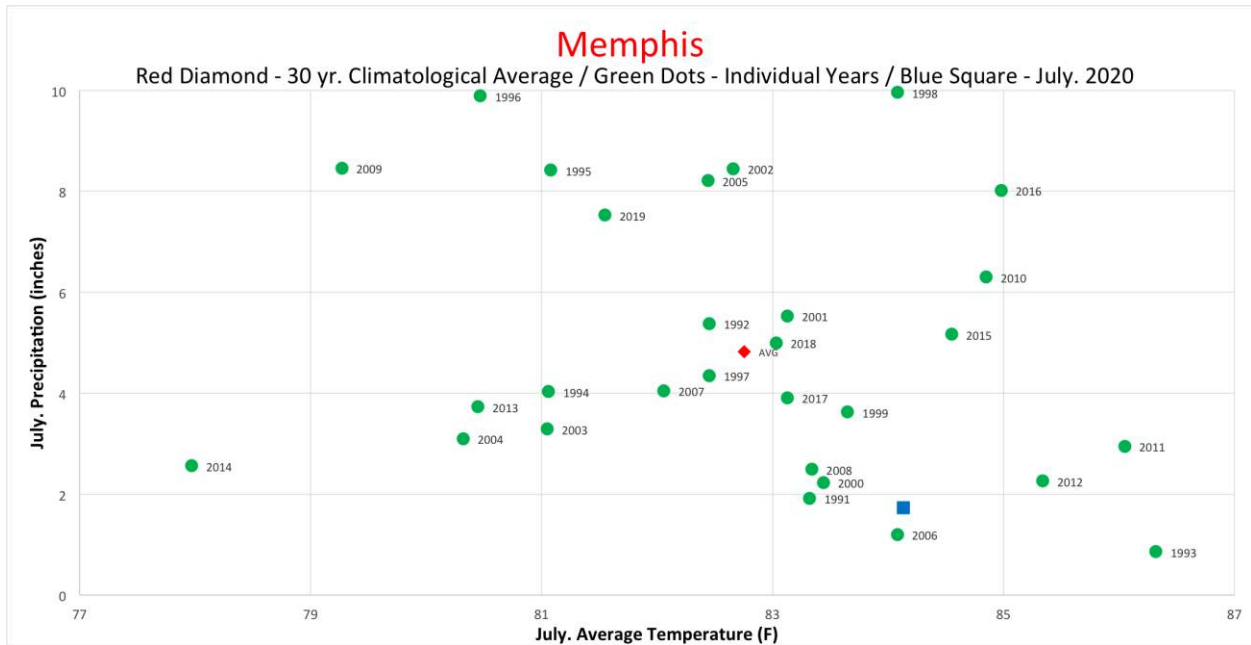
Station Name	Station Type	Total Precipitation (in)
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CLARKSVILLE 14.4 WSW	CoCoRaHS	11.48
DICKSON 5.8 NW	CoCoRaHS	11.29
CLARKSVILLE 3.4 NNW	CoCoRaHS	11
CUNNINGHAM 0.5 NW	CoCoRaHS	10.98
WAYNESBORO	COOP	10.98
DOVER 1 W	COOP	10.56
MONTGOMERY BELL STATE PARK	COOP	10.06
DICKSON 12.7 NW	CoCoRaHS	10
MOUNT JULIET 4.0 SE	CoCoRaHS	9.99

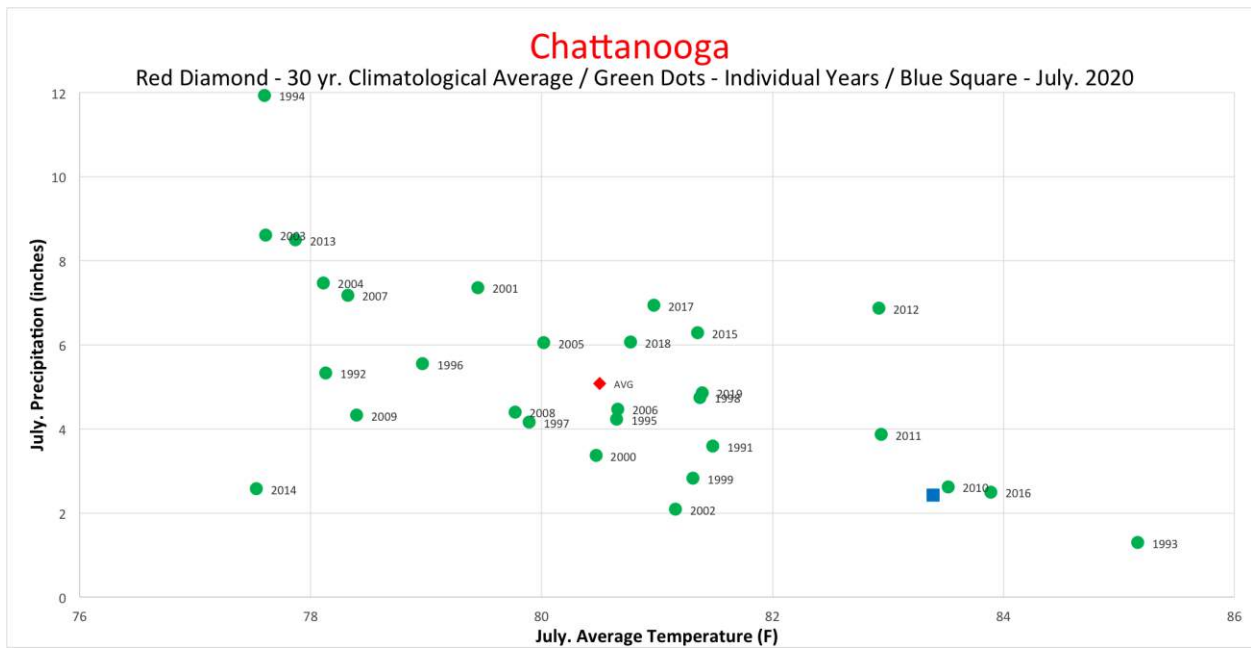
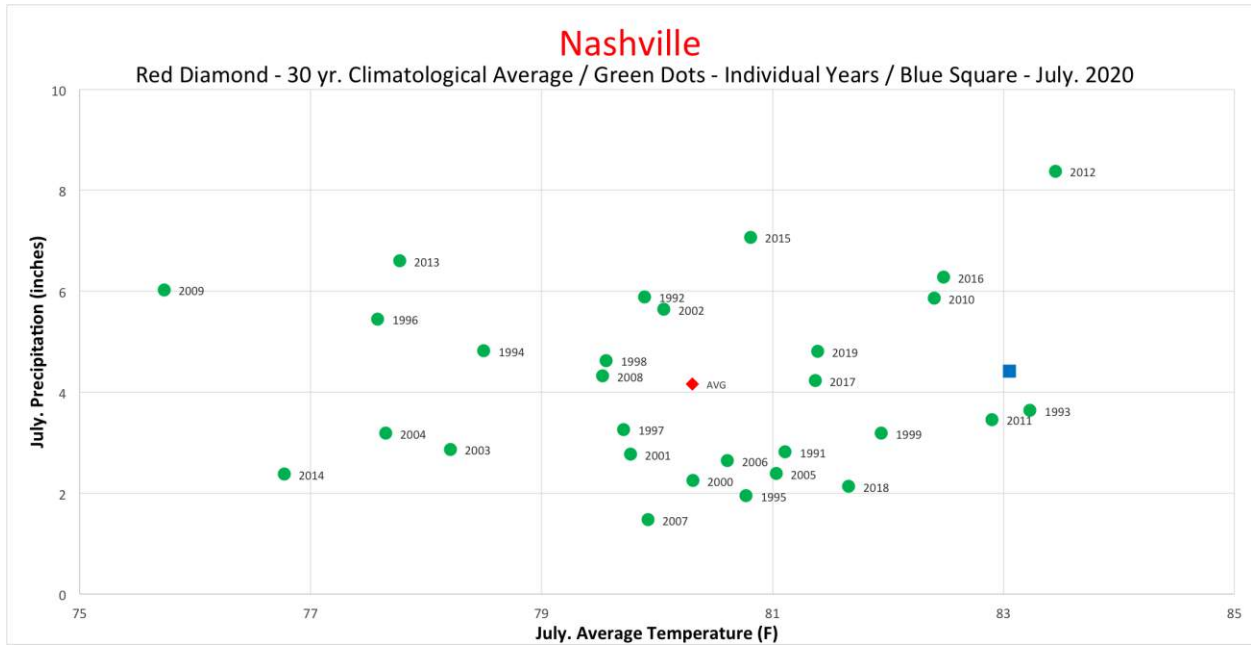
Driest Stations (lowest precipitation totals):

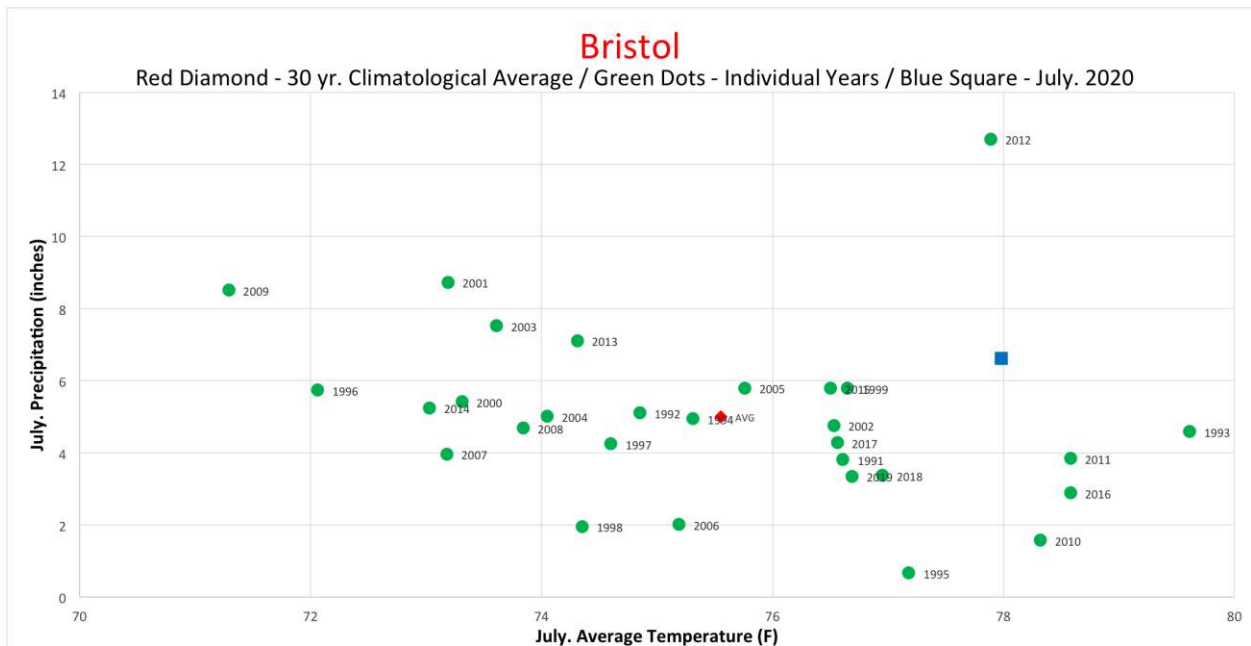
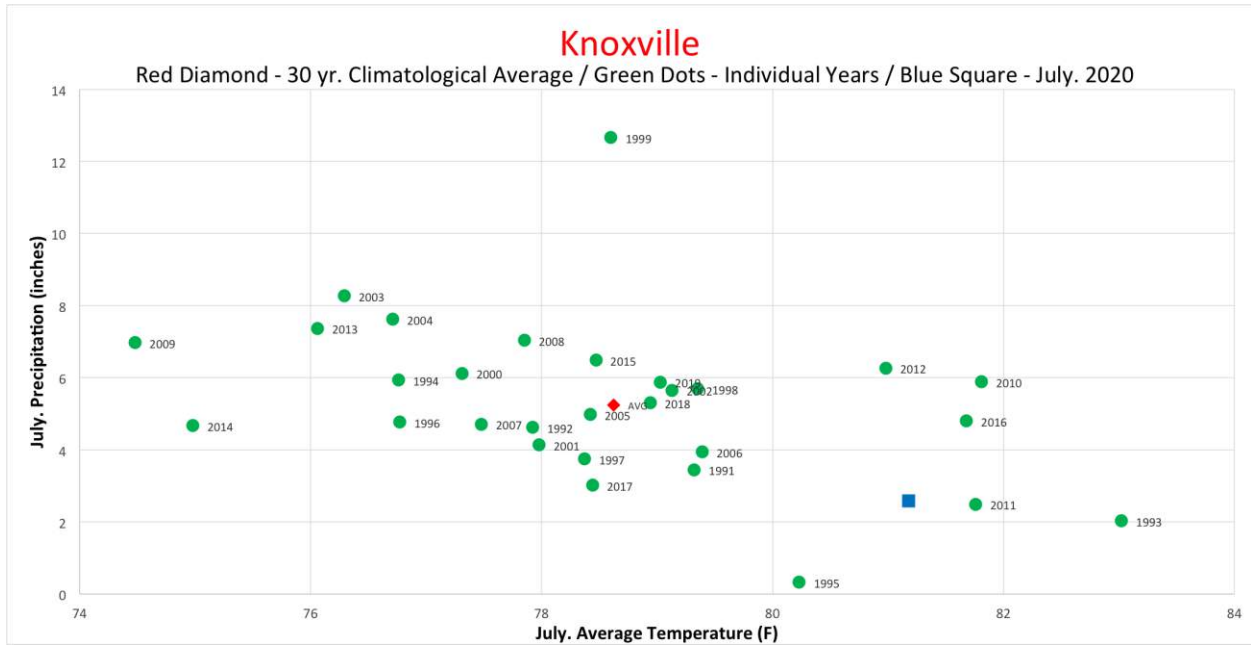
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SEVIERVILLE 2.8 NNW	CoCoRaHS	0.79
CHEATHAM LOCK & DAM	COOP	1.04
KINGSTON	COOP	1.09
TOWNSEND 5S	COOP	1.2
FRIENDSVILLE 2.3 ESE	CoCoRaHS	1.31
GERMANTOWN 4SE	COOP	1.31
OOLTEWAH 6.7 NNE	CoCoRaHS	1.34
ATHENS	COOP	1.35

The Month in Comparison:

Comparing July 2020 total precipitation and average temperature to that of the previous 30 years, all of our major airport weather stations were warmer than normal. In the eastern half of the state (from Nashville to Bristol), each station recorded one of the top-5 warmest Julys in the past 30 years, while Memphis and Jackson were not quite as anomalous. The precipitation totals show more spread, as Memphis, Jackson, Chattanooga, and Knoxville were below the average of the last 30 years, while Nashville was slightly above the average, and Bristol/Tri-Cities was above average.







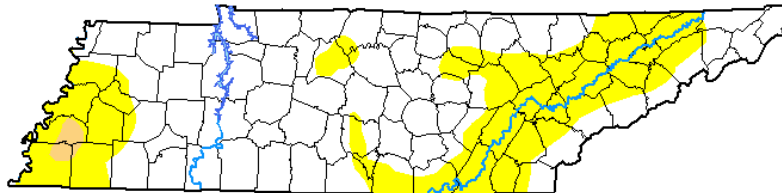
Drought Monitor:

Drought conditions expanded from covering 12.37% of the state at the end of June to 34.23% of the state by the last Drought Monitor release in July. Most of the expansion took place in East Tennessee, due to their much below normal precipitation and above normal temperatures. D0 (Abnormally Dry) conditions, the lowest level of drought in the U.S. Drought Monitor, was the most common level of drought; however a small area in southwest Tennessee was upgraded to D1 (Moderate Drought) this month. There were a few areas of improvement this month, in the northwest corner of the state, and in portions of middle Tennessee where above normal precipitation occurred at the end of June or in July leading to the erasure of drought conditions in those areas.

Author:
Richard Heim
NCEI/NOAA

U.S. Drought Monitor Tennessee

July 28, 2020
(Released Thursday, Jul. 30, 2020)
Valid 8 a.m. EDT



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

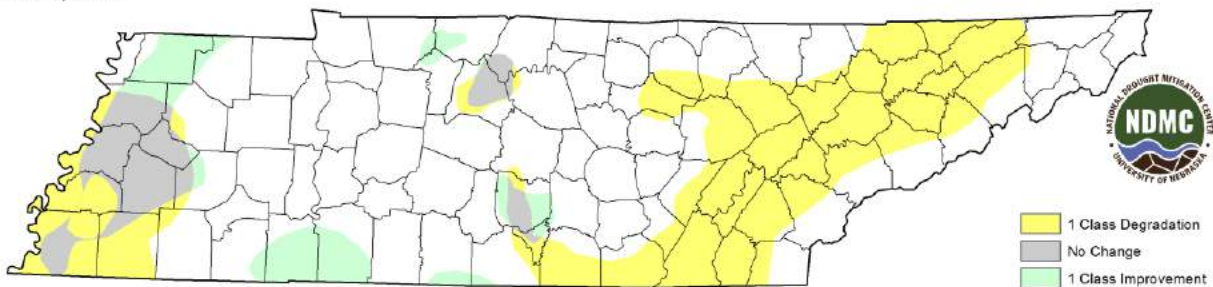
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



droughtmonitor.unl.edu

July 28, 2020
compared to
June 30, 2020

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



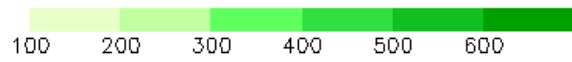
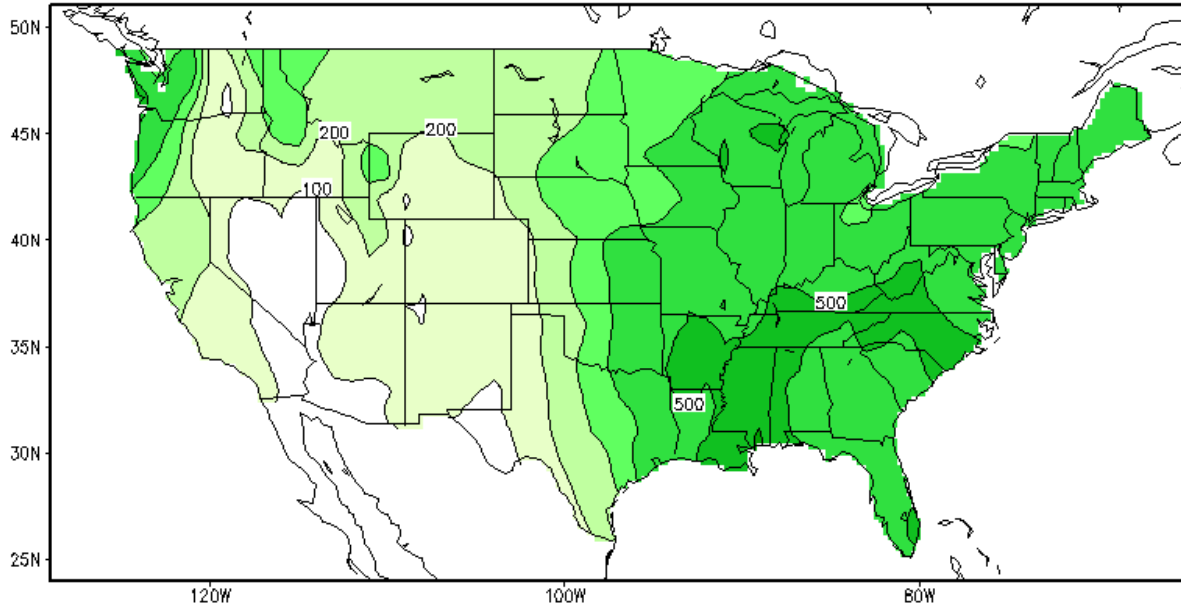
- 1 Class Degradation
- No Change
- 1 Class Improvement

droughtmonitor.unl.edu

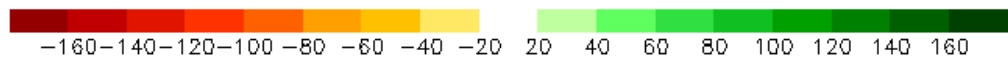
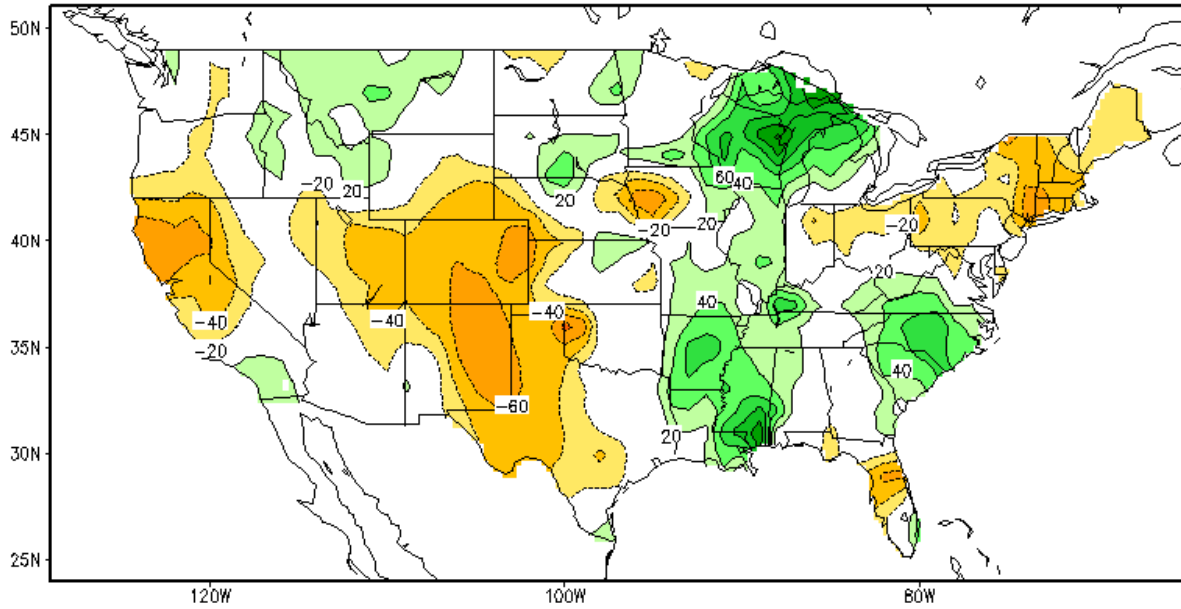
Soil Moisture:

Most areas of the state averaged soil moisture levels of 500mm during the month of July, which was at slightly above normal. However, outside of the area of above normal rainfall in parts of West and Middle Tennessee, the soil moisture levels dropped during the month. As of July 26th subsoil moisture was rated 6% very short, 24% short, 65% adequate, and only 5% had a surplus. Topsoil moisture was rated 7% very short, 26% short, 64% adequate, and only 3% of the state had a surplus.

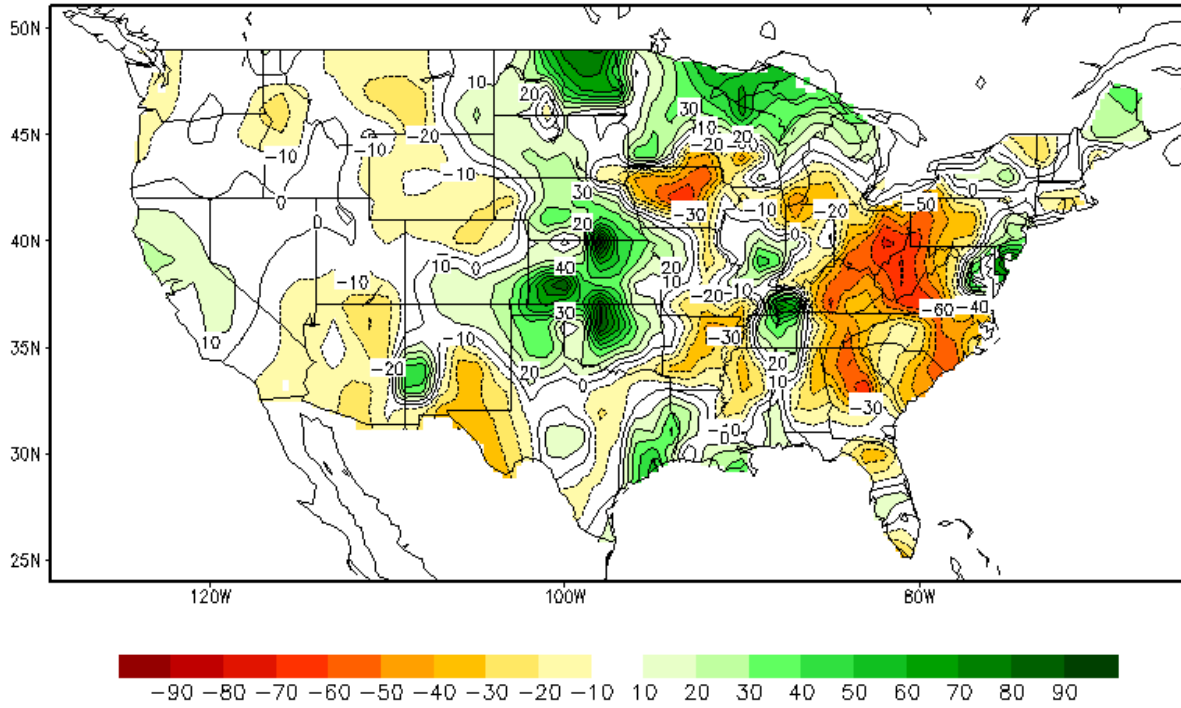
Calculated Soil Moisture (mm) JUL, 2020



Calculated Soil Moisture Anomaly (mm) JUL, 2020



Calculated Soil Moisture Anomaly Change JUL 29, 2020 from JUN.30



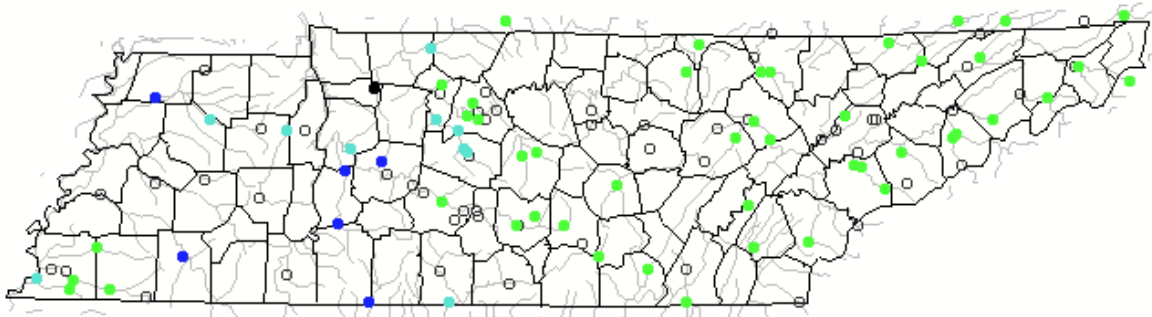
Streamflow:

Despite large areas of below normal precipitation and above normal temperatures, no USGS stream gauges reported below normal stream flow rates for the month of July. This was likely because none of the state’s major watersheds were fully in the drier than normal areas.

Map of monthly streamflow compared to historical streamflow for the month of the year (Tennessee)

Tennessee ▼ or Water-Resources Regions ▼

July 2020



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

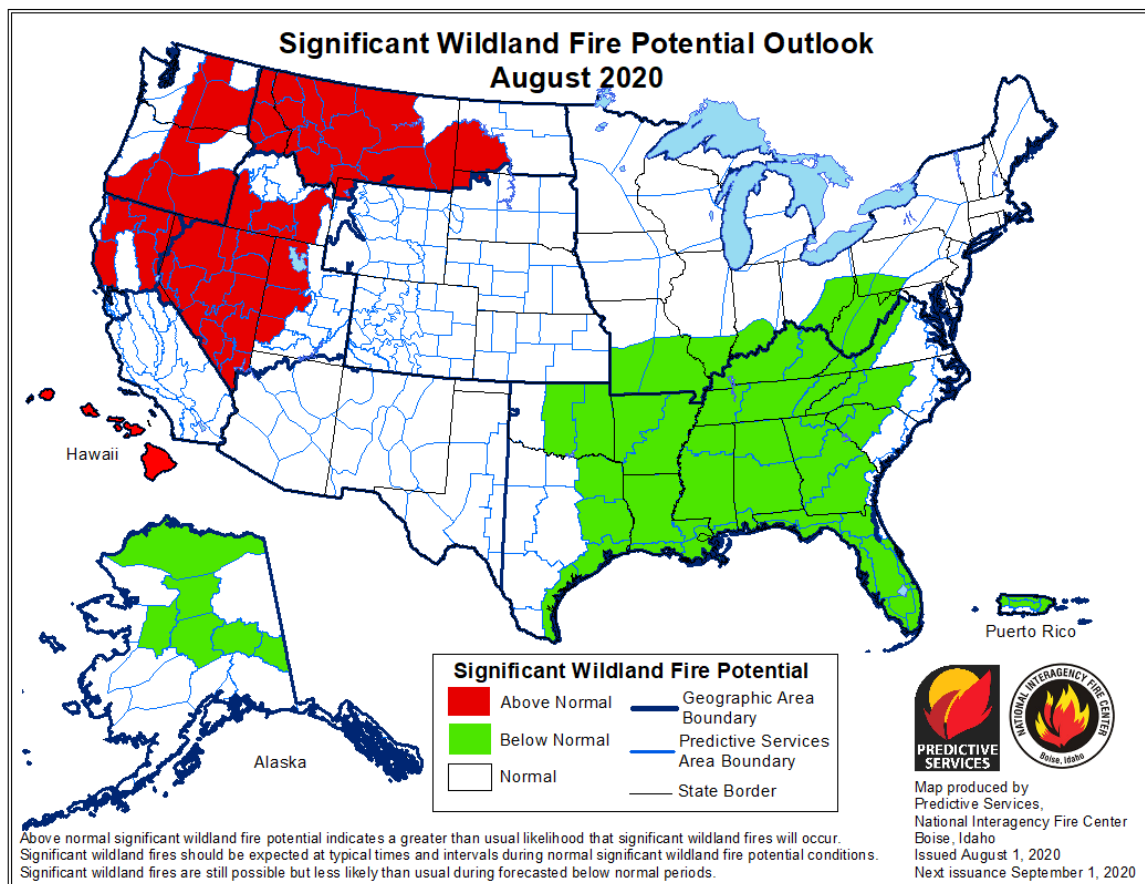
Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

Miscellaneous:

Crop Conditions from USDA: For areas that missed out on the scattered storms many crops were starting to show signs of impact from the dryness, and high temperatures and humidity also added stress to livestock in the state. The combination of a wet spring delaying many planters and now hot and dry conditions for the past month or two has led to most crops falling behind 5-year average progress.

CROP PROGRESS					CONDITION					
Crop	This Week	Last Week	2019	5 Year Avg.	Item	Very Poor	Poor	Fair	Good	Excellent
	Percent					Percent				
Corn – Silking	87	81	92	95	Corn	2	4	19	59	16
Corn – Dough	43	35	60	64	Cotton	4	10	20	50	16
Cotton – Squaring	86	80	85	91	Pasture	3	10	28	52	7
Cotton – Setting Bolls	42	37	40	52	Soybeans	3	5	20	58	14
Soybeans – Blooming	62	47	65	72	Tobacco	4	7	28	44	17
Soybeans – Setting Pods	35	21	37	42	Hay	3	8	24	57	8
Tobacco – Topped	55	51	50	40						

Fire Danger: The Interagency Fire Center indicates that all of Tennessee, along with most of the southeast will have a below normal potential for significant wildland fires during the month of August.



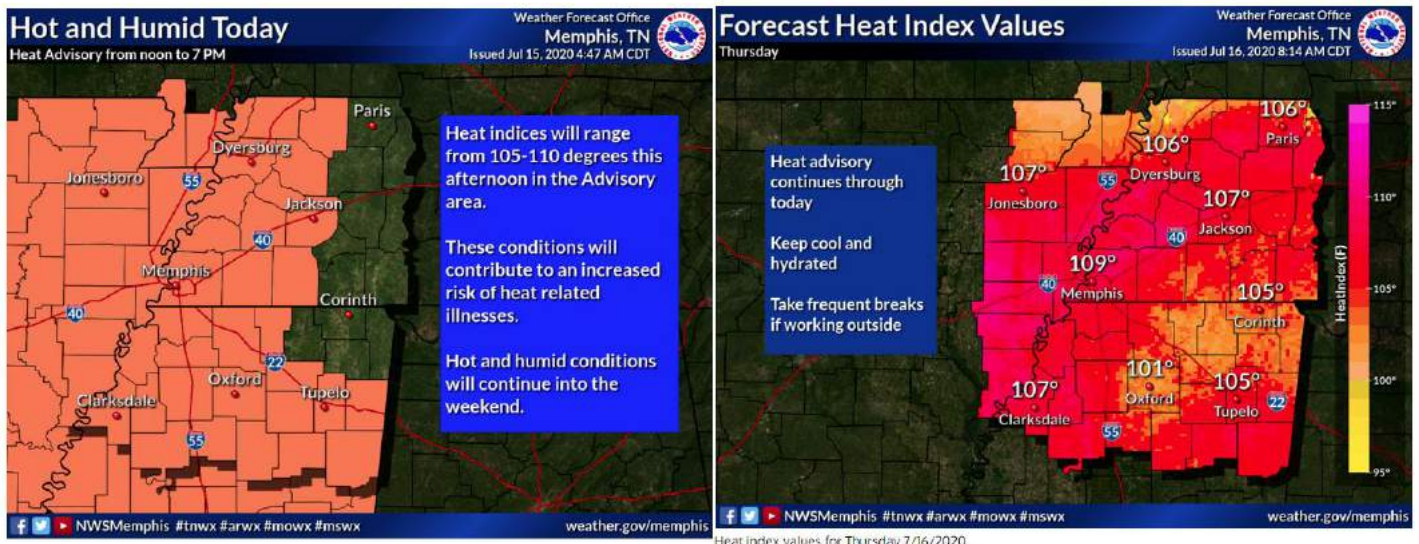
Story of the Month:

The main story of July was the heat, which affected the state during the middle and end of the month. Heat and humidity sent temperatures into the upper ninety's for many locations and produced heat index values above 100°F. This prompted heat advisories for much of West Tennessee, the Nashville metro area, and the Chattanooga metro area at least once during the month. Air quality alerts, for ozone, were also issued for the Memphis, Nashville, and Knoxville areas during the peak of the heat wave.

Relatively few high temperature records were broken across the state (aside from at Oak Ridge), but six of the eight climate reporting weather stations set record warm low temperatures this month. Averaging together the low temperatures for each day of the month can also show just how warm this month was, compared to normal. Chattanooga had the warmest average low temperature in the 142-year climate record of the city, Oak Ridge, with a 74-year climate record, tied for its second warmest average low temperature, and Nashville, with a 147-year record, had its sixth warmest average low temperature. Looking at the average high temperatures for July 2020, the Tri-Cities, Oak Ridge, Chattanooga, and Nashville all had one of their top-ten warmest July's on record.

Station	Days with Record Setting High Temperatures	Days with Record Setting Warm Low Temperatures	Length of Record
Jackson	0	1	72 years
Clarksville	0	2	20 years
Nashville	0	2	80 years
Chattanooga	0	4	82 years
Oak Ridge	6	5	21 years
Tri-Cities	1	1	82 years

Number of days each weather station reported a record warm high or low temperature. Data from the Southern Regional Climate Center's Climate Extremes Portal.



Heat Advisory Information and Heat Index Forecast for West Tennessee on July 15th and 16th, from the National Weather Service office in Memphis.

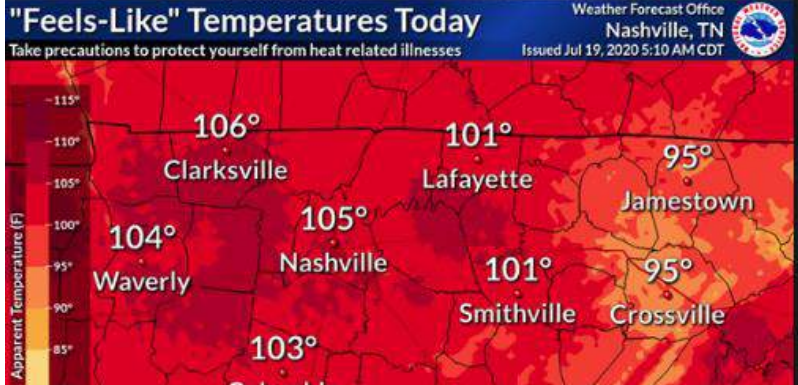


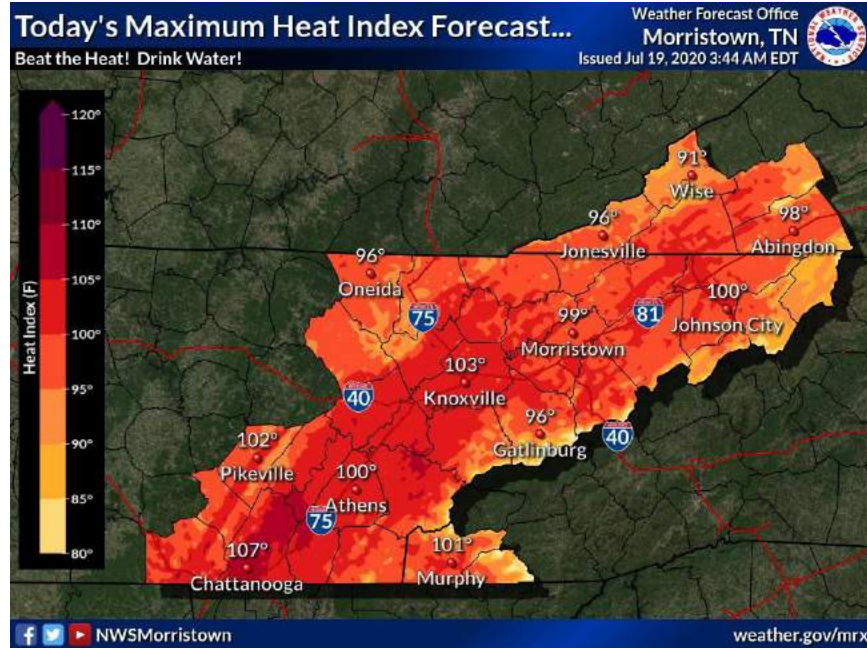
Air Quality Alert from July 15th and Head Advisory information from July 19th from the National Weather Service office in Nashville.

US National Weather Service Nashville Tennessee
 19 July at 07:11 · 🌐

After hitting 98 DEGREES yesterday, the NEW EDITION of the forecast would suggest we're not in for just 5 SECONDS OF SUMMER. If you're one of the NEW KIDS ON THE BLOCK, TAKE THAT to heart by getting yourself NSYNC with a heat index over 1-0-THE JACKSON 5 and drink lots of water. Of course, ONE DIRECTION you could go is just stay in the air conditioning, but putting up with heat like this has been known to change BOYZ II MEN.

I know. This has been a BIG TIME RUSH for all you boy-band fans.





The Tennessee Department of Environment and Conservation has issued a Code Orange Health Advisory for the Knoxville area...in effect until midnight EDT Wednesday night.

A Code Orange Air Quality Alert for Ozone means ground level Ozone concentrations within the region may approach or exceed unhealthy standards. The general public is not likely to be affected. Active children and adults, and people with a respiratory disease such as Asthma, should limit prolonged outdoor exertion. For additional information...visit the Tennessee Department of Environment and Conservation site at <http://www.tennessee.gov/environment>.

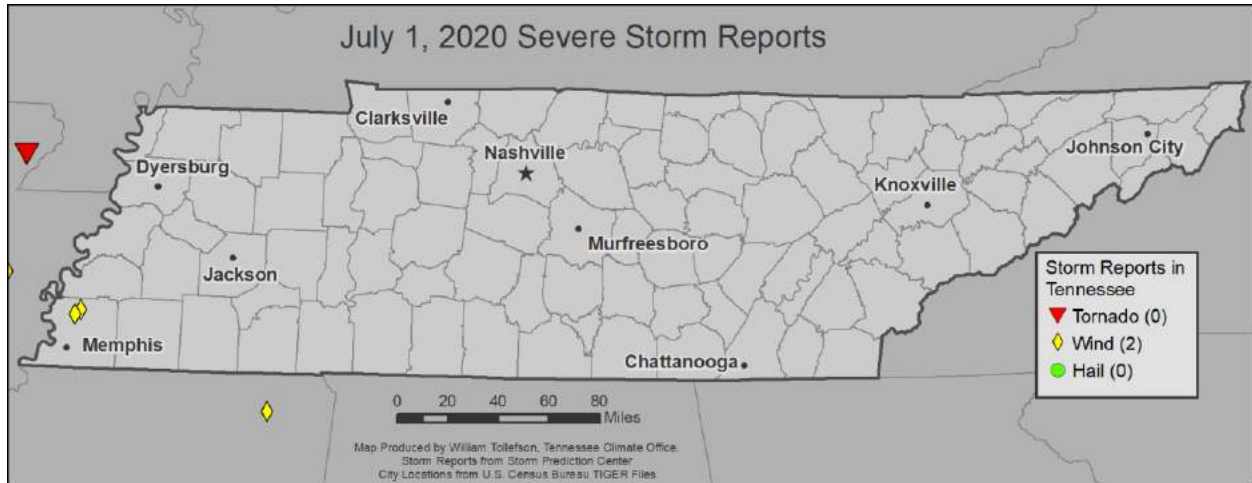
Heat index forecast in East Tennessee on July 19, and Air Quality Advisory for Knoxville issued July 15th from the National Weather Service office in Morristown.

Storm Reports:

**Storm Reports are based on filtered NOAA Storm Prediction Center data or local NWS storm reports. Future quality control checks may change the official record of severe events, please see spc.noaa.gov for any updates.*

There were thirteen days with reports of severe storms across the state in July, producing a total of 86 reports of severe wind damage, and 1 report of hail 1" or larger.

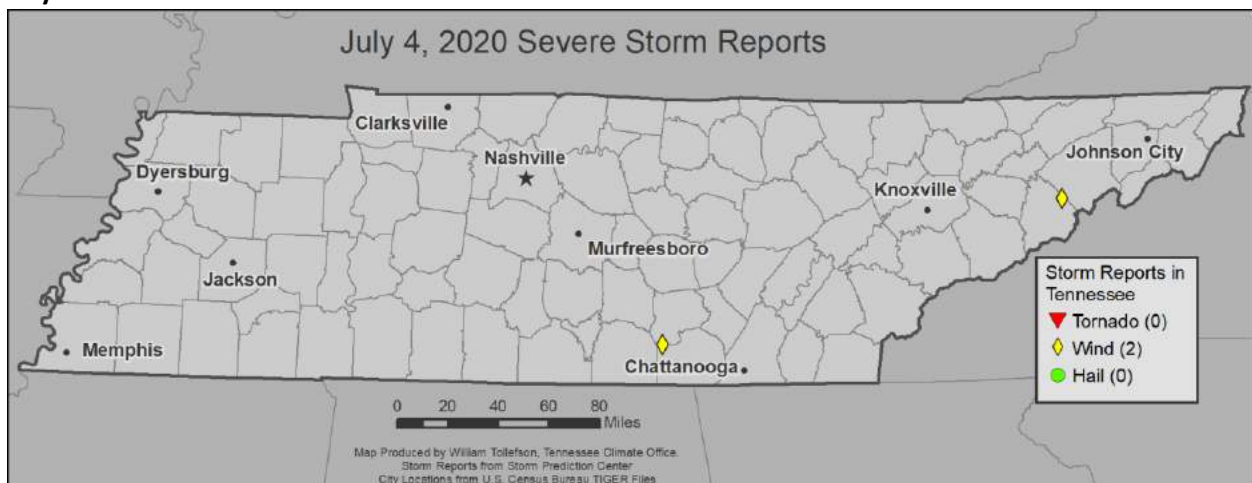
July 1



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
20:15	--	MILLINGTON	SHELBY	35.33	-89.89	LARGE TREE AND POWER LINES DOWN BLOCKING ROAD ON SOUTH LUCY ROAD IN MILLINGTON. (MEG)
21:15	--	3 SW MILLINGTON	SHELBY	35.3	-89.93	LARGE TREE AND POWER LINES DOWN BLOCKING ROAD ON SOUTH LUCY ROAD SOUTHWEST OF MILLINGTON. (MEG)

July 4

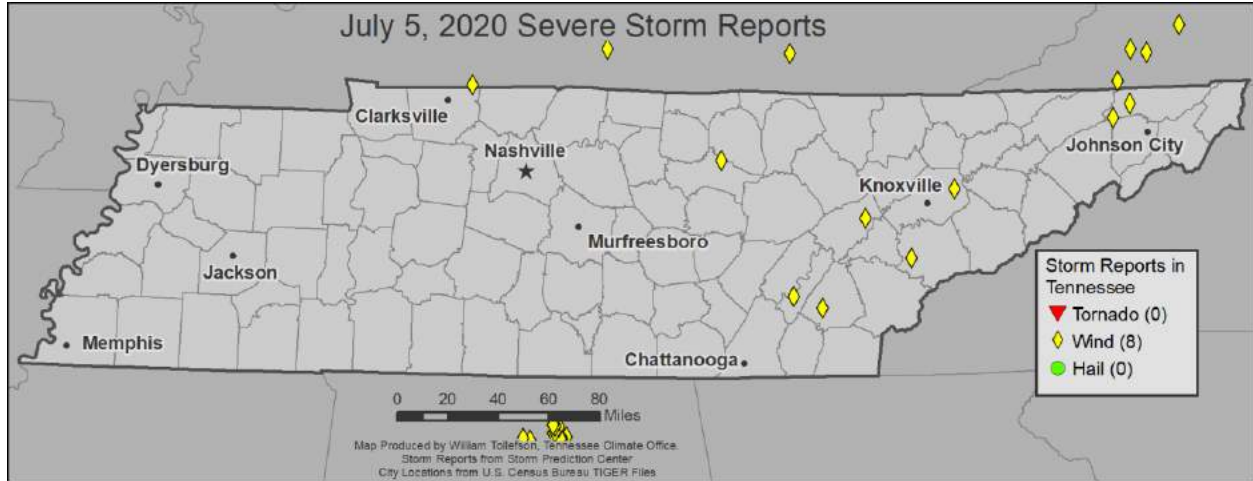


Wind Reports:

July 2020 Tennessee State Climate Summary

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
21:15	--	1 SE MONTEAGLE	MARION	35.22	-85.82	SEVERAL TREES DOWN. (MRX)
22:35	--	2 SSW CANEY BRANCH	COCKE	36.02	-83	SEVERE TREES DOWN JUST EAST OF PARROTSVILLE TN. (MRX)

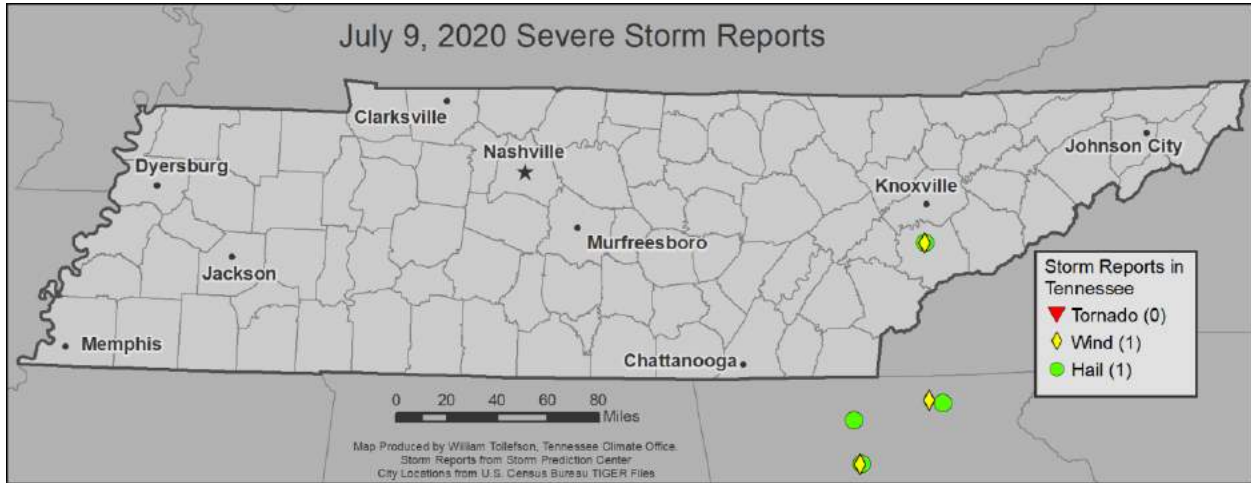
July 5



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
18:25	--	3 NE ALGOOD	PUTNAM	36.23	-85.4	LARGE ROOF RIPPED OFF BARN (OHX)
19:30	--	3 S CLOVER HILL	BLOUNT	35.66	-84.07	A TREE DOWN ONTO A BARN. (MRX)
20:27	--	2 NNE COLONIAL HEIGHTS	SULLIVAN	36.51	-82.5	SEVERAL TREES AND POWER LINES DOWN. (MRX)
20:38	--	1 SSE MASCOT	KNOX	36.05	-83.76	A FEW TREES DOWN. (MRX)
20:48	--	2 N BRADBURY	ROANE	35.89	-84.39	SEVERAL TREES DOWN. (MRX)
21:12	--	1 NNE FALL BRANCH	SULLIVAN	36.43	-82.62	A FEW TREES DOWN. (MRX)
21:34	--	RICEVILLE	MCMINN	35.38	-84.7	MEASURED 54 MPH WINDS AND REPORTED A FEW TREES DOWN. (MRX)
22:06	--	4 N BIG SPRING	MEIGS	35.45	-84.9	SEVERAL TREES DOWN. (MRX)

July 9



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
22:00	--	MARYVILLE	BLOUNT	35.75	-83.97	SEVERAL TREES DOWN THROUGHOUT MARYVILLE. (MRX)

Hail Reports:

Time (UTC)	Size (in)	Location	County	Lat	Lon	Comments
22:00	1.00	MARYVILLE	BLOUNT	35.75	-83.97	TIME OF HAIL ESTIMATED. (MRX)

July 11



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
8:09	--	5 E INDIAN MOUND	MONTGOMERY	36.5	-87.6	A TREE FELL ON A HOUSE EAST OF INDIAN MOUND IN MONTGOMERY COUNTY. (OHX)
8:42	--	4 ESE ERIN	HOUSTON	36.29	-87.64	POWER LINES DOWN AND TREES DOWN ALONG HIGHWAY 49. (OHX)
9:39	--	DICKSON	DICKSON	36.08	-87.38	A TREE WAS DOWN IN THE ROADWAY ON BEASLEY DR. (OHX)

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
9:45	--	TENNESSEE RIDGE	HOUSTON	36.32	-87.76	A FEW POWER LINES WERE BLOWN DOWN WITH POWER OUTAGES ACROSS HOUSTON COUNTY (OHX)
11:10	--	MOUNT PLEASANT	MAURY	35.55	-87.19	SEVERAL TREES DOWN THROUGHOUT MAURY COUNTY. (OHX)
11:15	--	CENTERVILLE	HICKMAN	35.79	-87.45	SEVERAL TREES AND POWER LINES WERE BLOWN DOWN ACROSS HICKMAN COUNTY WITH AROUND 1100 POWER OUTAGES (OHX)

July 12



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
12:02	--	7 ENE HOHENWALD	LEWIS	35.59	-87.45	SEVERAL TREES AND POWER LINES DOWN ALONG HIGHWAY 412 FROM LITTLE SWAN CREEK ROAD EASTWARD TO THE MAURY COUNTY LINE (OHX)
12:55	--	2 N KENTON	OBION	36.23	-89.01	SIGNIFICANT TREE AND POWERPOLE DAMAGE ON HIGHWAY 45 NEAR KENTON. UPWARDS OF 25 POWERPOLES DOWN OR SIGNIFICANTLY LEANING. A BARN WAS DESTROYED. (MEG)
13:42	--	3 SE HUMBOLDT	MADISON	35.79	-88.87	MULTIPLE TREES DOWN IN THE TOWN OF THREE WAY. (MEG)
13:50	--	4 N JACKSON	MADISON	35.68	-88.83	LARGE TREE DOWN ON HOME OFF OF OLD HUMBOLDT ROAD. (MEG)

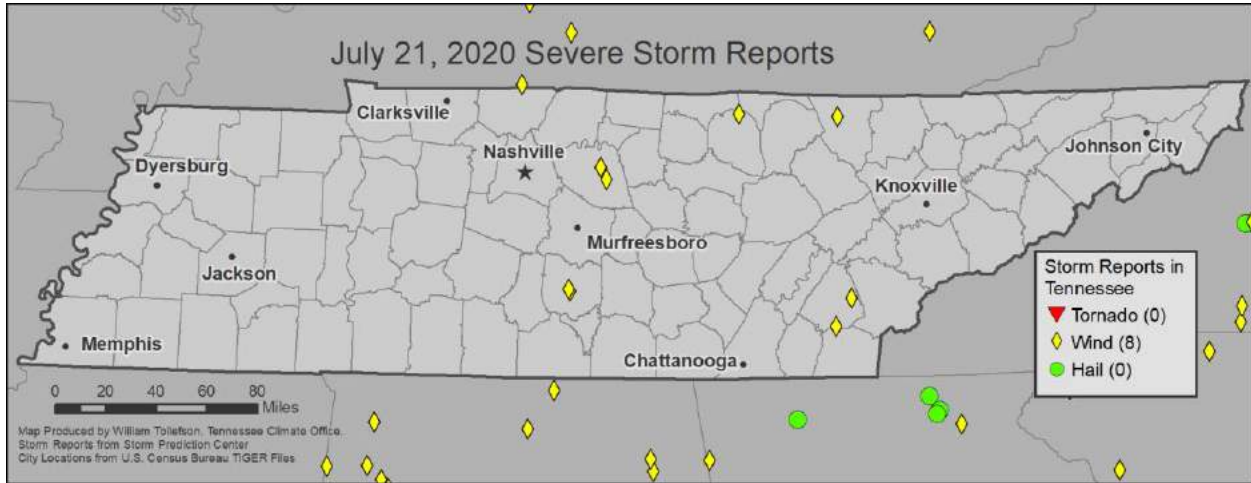
July 20



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
23:35	--	CAIRO BEND	WILSON	36.24	-86.4	TREES DOWN....AND 3/4" HAIL. (OHX)
23:45	--	LAGUARDO	WILSON	36.3	-86.44	PHOTO SHOWED TREES UPROOTED NEAR LAGUARDO (OHX)
1:11	--	6 ENE MCMINNVILLE	WARREN	35.73	-85.68	TREE AND POWER LINE DOWN ON OLD ROCK ISLAND ROAD (OHX)
1:20	--	2 W KARNS	KNOX	35.98	-84.15	MULTIPLE TREES DOWN. TRAFFIC BLOCKED IN BOTH DIRECTIONS. OAK RIDGE HIGHWAY AT MOSES LANE. TIME ESTIMATED. RELAYED FROM TRAINED SPOTTER. (MRX)
1:20	--	1 N KARNS	KNOX	35.99	-84.12	CORRECTS PREVIOUS TSTM WND DMG REPORT FROM 1 N KARNS. TREES DOWN AT COPPER RIDGE ROAD AND EMORY ROAD. TIME ESTIMATED. (MRX)
1:40	--	4 NNW KARNS	ANDERSON	36.03	-84.15	SEVERAL TREES DOWN IN THE CLAXTON AREA. TIME ESTIMATED. (MRX)
2:00	--	NIOTA	MCMINN	35.51	-84.55	A FEW TREES DOWN. TIME ESTIMATED FROM RADAR. (MRX)

July 21:



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
21:07	--	1 ENE DENTVILLE	MCMINN	35.28	-84.6	SEVERAL TREES DOWN. (MRX)
21:08	--	1 NNW ENGLEWOOD	MCMINN	35.44	-84.49	SEVERAL TREES DOWN AND VERY WINDY. (MRX)
0:01	--	1 W SHELBYVILLE	BEDFORD	35.49	-86.46	A TREE SPLIT AND FELL ON A HOME ON RIDGEWAY AVE. (OHX)
0:01	--	1 WNW SHELBYVILLE	BEDFORD	35.5	-86.47	TREES AND POWER LINES ON THE CORNER OF HORSESHOE DR AND VINE ST. (OHX)
0:40	--	SHOP SPRINGS	WILSON	36.13	-86.21	DELAYED REPORT. SEVERAL TREES WERE DAMAGED IN THE SHOP SPRINGS AREA. (OHX)
1:05	--	4 E LEBANON	WILSON	36.2	-86.25	DELAYED REPORT. SEVERAL TREES WERE BLOWN DOWN AND ROOFS BLOWN OFF OUTBUILDINGS AROUND THE PEYTON ROAD AND BLUEBIRD ROAD AREA. (OHX)
1:06	--	4 WSW ONEIDA	SCOTT	36.48	-84.57	SEVERAL TREES DOWN ACROSS THE COUNTY. (MRX)
1:42	--	8 NNE LIVINGSTON	OVERTON	36.5	-85.27	*OLD REPORT* TREE DOWN ON POWER LINE IN MONROE (OHX)

July 23



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
16:50	--	2 ENE SALE CREEK	HAMILTON	35.39	-85.07	ONE TREE DOWN ACROSS POOLE ROAD IN SALE CREEK TN. TIME ESTIMATED. (MRX)
19:20	--	3 N WATAUGA	SULLIVAN	36.4	-82.3	A FEW TREES DOWN ALONG PINEY FLATS ROAD. (MRX)
19:30	--	1 W HARROGATE-SHAWANEE	CLAIBORNE	36.58	-83.66	A FEW TREES DOWN. (MRX)
20:35	--	2 SE NEWPORT	COCKE	35.93	-83.17	SEVERAL TREES DOWN. (MRX)
20:50	--	2 NE PARROTTSVILLE	COCKE	36.03	-83.07	A FEW TREES DOWN. (MRX)
20:54	--	1 SW SURGOINSVILLE	HAWKINS	36.46	-82.87	SEVERAL TREES DOWN. (MRX)
21:00	65	CHURCH HILL	HAWKINS	36.52	-82.71	REPORT CAME FROM HOME WEATHER STATION. (MRX)
21:16	--	CHURCH HILL	HAWKINS	36.52	-82.71	TREES DOWN. (MRX)
21:53	--	3 ENE EMBREEVILLE	WASHINGTON	36.19	-82.41	SEVERAL TREES DOWN ACROSS THE AREA. (MRX)
21:56	--	2 ESE UNICOI	UNICOI	36.18	-82.31	SEVERAL TREES DOWN. (MRX)
21:58	--	6 W SOUTH CARTHAGE	SMITH	36.23	-86.06	A FEW TREES WERE BLOWN DOWN ALONG RAY SIRCY LANE AND RAWLS CREEK ROAD. (OHX)

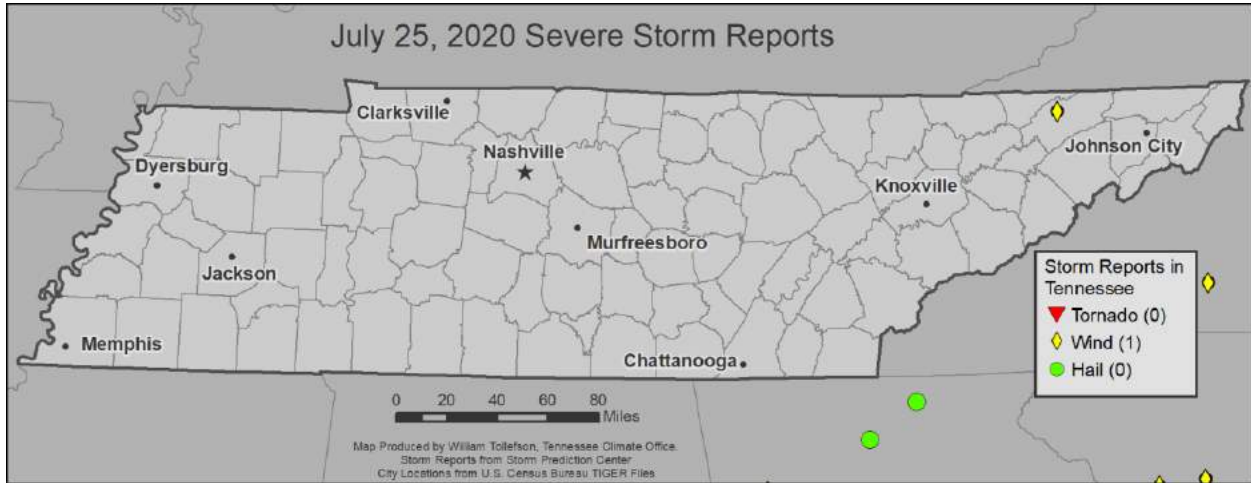
July 24



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
18:25	--	4 NW DICKSON	DICKSON	36.12	-87.44	SEVERAL TREES BLOWN DOWN ON NANCY SHAWL ROAD NEAR HIGHWAY 351 (OHX)
20:19	--	2 E DUFF	CAMPBELL	36.45	-84.03	SEVERAL TREES DOWN. (MRX)
20:30	--	2 S PAULETTE	KNOX	36.16	-83.9	SEVERAL TREES DOWN. (MRX)
20:37	--	7 NW HOWARD QUARTER	CLAIBORNE	36.55	-83.49	SEVERAL TREES DOWN WITH HIGH WINDS. (MRX)
20:49	--	MAYNARDVILLE	UNION	36.24	-83.8	SEVERAL TREES DOWN ACROSS THE AREA. (MRX)
21:03	--	2 E TURTLETOWN	POLK	35.12	-84.32	SEVERAL TREES DOWN AND HAIL UP TO PENNY SIZE. (MRX)
21:05	--	1 N SNEEDVILLE	HANCOCK	36.56	-83.21	SEVERAL TREES DOWN ACROSS THE AREA. (MRX)
21:13	--	2 NNE MALONEYVILLE	KNOX	36.11	-83.82	SEVERAL TREES AND POWER LINES DOWN. (MRX)
21:29	--	4 SSE HOWARD QUARTER	CLAIBORNE	36.42	-83.4	A FEW TREES DOWN. (MRX)
21:30	--	2 ENE SNEEDVILLE	HANCOCK	36.55	-83.17	SEVERAL TREES DOWN. (MRX)
21:54	--	1 W RUSSELLVILLE	HAMBLEN	36.26	-83.21	SEVERAL TREES DOWN ACROSS THE AREA. (MRX)
22:38	--	4 SW TARIFFVILLE	MONROE	35.45	-84.23	SEVERAL TREES DOWN. (MRX)
23:11	--	3 W BRISTOL TN	SULLIVAN	36.57	-82.24	A FEW TREES DOWN. (MRX)
0:30	--	2 NE EVENSVILLE	RHEA	35.58	-84.93	SEVERAL TREES DOWN ACROSS THE AREA. (MRX)

July 25



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
21:30	--	5 N ROGERSVILLE	HAWKINS	36.48	-83.01	REPORTS OF MULTIPLE TREES DOWN ACROSS THE COUNTY FROM HAWKINS CO DISPATCH. (MRX)

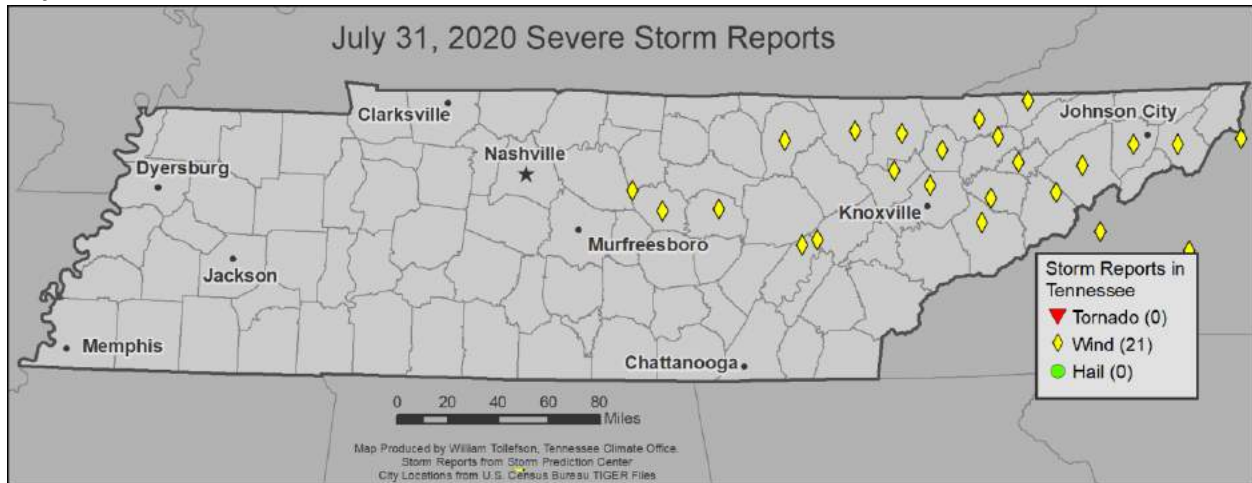
26 July



Wind Reports:

Time (UTC)	Speed (mph)	Location	County	Lat	Lon	Comments
23:21	--	4 S CHATTANOOGA	HAMILTON	35.01	-85.27	ONE TREE DOWNED ACROSS POWER LINES ON SOUTH CREST ROAD. A 37 MPH GUST WAS MEASURED AT THE NEARBY KCHA AIRPORT. (MRX)
1:10	--	2 NW TASSO	BRADLEY	35.22	-84.84	A COUPLE TREES DOWN WITH A NEARBY 49 MPH GUST MEASURED AT THE KRZR AIRPORT. (MRX)

July 31



Wind Reports:

Time	Speed (mph)	Location	County	Lat	Lon	Comments
18:53	--	ALEXANDRIA	DE KALB	36.08	-86.03	1 TREE DOWN FROM THUNDERSTORM WINDS (OHX)
19:06	--	SMITHVILLE	DE KALB	35.96	-85.82	2 TREES DOWN FROM THUNDERSTORM WINDS (OHX)
19:43	--	4 NE SPARTA	WHITE	35.97	-85.42	TREES DOWN ALONG MILLIGAN ROAD (OHX)
20:35	--	1 NNW GRANDVIEW	RHEA	35.76	-84.84	CORRECTS PREVIOUS TSTM WND DMG REPORT FROM 1 NNW GRANDVIEW. ONE TREE DOWN WITH POWER LINES IN THE FAR NORTHERN PORTION OF THE COUNTY. (MRX)
20:35	--	4 WSW ALLARDT	FENTRESS	36.36	-84.95	SEVERAL REPORTS OF TREES DOWN ACROSS THE SOUTH-CENTRAL PART OF THE COUNTY (OHX)
20:45	--	1 NNE EAGLE FURNACE	ROANE	35.79	-84.73	NUMEROUS TREES DOWN IN ROCKWOOD AND PHILADELPHIA AND SOUTH OF RIVER ROAD. (MRX)
21:06	--	2 E HUNTSVILLE	SCOTT	36.41	-84.45	ONE TREE DOWN ON HIGHWAY 63 NEAR NEWTOWN. A SMALL MUD SLIDE MAY HAVE ACCOMPANIED THE TREE THAT FELL. (MRX)
21:25	--	1 NNE LA FOLLETTE	CAMPBELL	36.39	-84.12	MANY TREES DOWN COUNTY WIDE ALONG WITH WIDESPREAD POWER OUTAGES. (MRX)
21:30	--	BRICEVILLE	ANDERSON	36.18	-84.18	SEVERAL TREES DOWN IN THE BRICEVILLE AREA. (MRX)
21:35	--	HALLS	KNOX	36.09	-83.93	PARTIAL BARN COLLAPSE IN HALLS FROM STRONG WINDS. (MRX)
21:45	--	4 NNW MAYNARDVILLE	UNION	36.29	-83.84	TREES DOWN COUNTY WIDE. (MRX)
22:15	--	TAZEWELL	CLAIBORNE	36.46	-83.57	LOTS OF TREES AND POWER LINES DOWN IN TAZEWELL WITH POWER OUTAGES. ONE TREE FELL ON A HOUSE

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Time	Speed (mph)	Location	County	Lat	Lon	Comments
						NEAR CANE CIRCLE... AND ONE HOUSE HAS SIDING BLOWN OFF. (MRX)
22:20	--	1 W THORN HILL	GRAINGER	36.36	-83.44	NUMEROUS TREES DOWN COUNTY WIDE. (MRX)
22:25	--	2 SSE SEVIERVILLE	SEVIER	35.87	-83.57	MANY TREES AND POWER LINES DOWN COUNTY WIDE... AND 1300 RESIDENTS WITHOUT POWER. (MRX)
22:30	--	2 SE PIEDMONT	JEFFERSON	36.01	-83.5	TREES AND POWER LINES DOWN COUNTY WIDE. (MRX)
22:31	--	MORRISTOWN	HAMBLEN	36.21	-83.3	SEVERAL REPORTS OF TREES DOWN ACROSS THE MORRISTOWN AREA. (MRX)
22:35	--	2 NNW SNEEDVILLE	HANCOCK	36.56	-83.22	SEVERAL TREES DOWN IN THE NEWMAN RIDGE AREA NORTH OF SNEEDVILLE. (MRX)
23:08	--	3 ENE PARROTTSVILLE	COCKE	36.03	-83.04	MANY TREES DOWN COUNTY WIDE. (MRX)
23:14	--	2 WNW GREENEVILLE	GREENE	36.18	-82.85	NUMEROUS TREES DOWN COUNTY WIDE. (MRX)
23:45	--	JONESBOROUGH	WASHINGTON	36.29	-82.48	MANY TREES DOWN COUNTY WIDE. (MRX)
0:05	--	HAMPTON	CARTER	36.28	-82.17	SEVERAL TREES DOWN FROM MILLIGAN COLLEGE EAST TO HAMPTON AND SOUTHEAST TO ROAN MOUNTAIN AREA. ONE TREE DOWN ON RESIDENCE IN HAMPTON BUT NO INJURIES. (MRX)

CPC Outlooks for the Next Month:

The Climate Prediction Center outlooks for August show West and Middle Tennessee having chances for below normal temperatures, with the western half of the state having a slightly higher probability. The Eastern half of the state is shown with chances for a wetter than normal August, with the northeast corner of the state having a slightly higher probability.

