

VIRGINIA DROUGHT MONITORING TASK FORCE

Drought Status Report

July 01, 2024

Summary

On Monday July 1, 2024, the Virginia Drought Monitoring Task Force (DMTF) met to discuss the drought indicators identified by the Virginia Drought Assessment and Response Plan. Precipitation deficits in combination with increased temperatures have resulted in rapid intensification of drought throughout the majority of the Commonwealth. Significant declines in surface and groundwater indicators throughout the past thirty-day period have occurred, with much below normal observations within the Northern Virginia and Shenandoah drought evaluation regions. Soil moisture within the 0-100cm range show exceptional dryness occurring throughout the Shenandoah Valley and Northern Virginia regions. The 8-14 day outlook forecasts much above average temperatures and chances of normal to above average precipitation.

Due to below normal precipitation and continued declines of surface and groundwater indicators the Task Force recommends maintaining the Drought Watch for the following regions:

- Big Sandy
- Middle James
- New River
- Northern Piedmont
- Roanoke River
- Upper James
- Chowan
- Eastern Shore
- Northern Coastal Plain
- Southeast Virginia
- York-James

Due to rapid declines in surface and groundwater indicators, reported impacts to agriculture, and above average temperatures forecasted the Task Force recommends maintaining the Drought Warning for the following regions:

- Shenandoah
- Northern Virginia

The DMTF reviewed the status of drought monitoring and hydrologic conditions in the Commonwealth of Virginia. Precipitation over the past 7-14 day period show localized rainfall occurring throughout the state from scattered thunderstorms. Precipitation percent of normal over the 30-60 day period shows exceptional dryness within the Shenandoah Valley and Piedmont regions, with nearly all of Virginia much below normal. Area-average rainfall since the beginning of the current water year (October 1, 2023) has remained below long-term normal values for the Big Sandy and Eastern Shore drought evaluation regions (see [DEQ website](#) for more info on drought indicators). The Task Force will continue closely monitoring drought indicator and is scheduled to meet on July 16, 2024.

Streamflow over the past 14-day period has shown widespread declines throughout the Commonwealth. Flows are currently below the 25th percentile for 11 of the 13 drought evaluation regions (no surface water flow indicators are present due to tidal influence within the Eastern Shore and Southeast Virginia regions). Ten regions are currently below the 10th percentile including the Big

Sandy, Chowan, Middle James, New River, Northern Coastal Plain, Northern Piedmont, Roanoke, Shenandoah, Upper James, and York-James. Eight regions are currently below the 5th percentile including the Big Sandy, Chowan, Middle James, Northern Piedmont, Roanoke, Shenandoah, Upper James, and York-James.

Groundwater levels for monitoring wells in the Climate Response Network have shown continued declines within all portions of the state. All regions are currently below the 25th percentile excluding the Chowan and Middle James regions. Seven regions are currently below the 5th percentile including the Big Sandy, New River, Northern Coastal Plain, Northern Virginia, Roanoke, Shenandoah, and York-James. Continued lack of precipitation and above average temperatures continue to contribute to observed declines.

Storage at major water supply reservoirs throughout Virginia remain within normal ranges at this time.

The most recent weekly [U.S. Drought Monitor \(USDM\)](#) web page map for Virginia ([Appendix A](#), released June 27, 2024) showed abnormally dry (D0) conditions mapped across approximately 98% of the Commonwealth, moderate drought (D1) conditions mapped across approximately 90% of the Commonwealth, and (D2) severe drought mapped across 2%. Appendix B includes a presentation from the National Weather Service.

Virginia Department of Agriculture and Consumer Services

Producers throughout all regions of the Commonwealth report that dry conditions have negatively impacted most crops. Producers expect reduced corn, soybean, and cotton yields. Producers who have the ability to do so are supplementing with irrigating. Additionally, many livestock producers are feeding hay due to dry pastures. Producers in the Northern, Southside, and Southwestern regions report decreasing water levels in streams, rivers, and ponds.

Some farmers' markets throughout the Commonwealth have fewer produce vendors participating each week due to low production because of the dry conditions. Farm supply firms throughout the Commonwealth report low fertilizer sales because producers are not applying fertilizer due to the lack of rain.

As widespread impacts to producers throughout the Commonwealth have been experienced information regards assistance programs was provided by VDACS.

Information regarding the U.S. Department of Agriculture's Disaster Assistance Programs is available here: <https://www.fsa.usda.gov/programs-and-services/disaster-assistance-program/index>.

Information regarding the federal disaster declaration process is available here: https://www.fsa.usda.gov/Assets/USDA-FSA-Public/usdfiles/FactSheets/emergency_disaster_designation_declaration_process-factsheet.pdf

Contact information for each locality's USDA Farm Service Agency office can be found by clicking-through the map available here: <https://offices.sc.egov.usda.gov/locator/ap>

Virginia Department of Environmental Quality

The DEQ report presents a map of current conditions of DEQ Drought Indicators, and summary of current conditions at the four large multi-purpose reservoirs listed as key reservoir storage indicators in the [Virginia Drought Assessment and Response Plan](#). The U.S. Army Corps of Engineers (USACE) reported that Lake Moomaw, Philpott Lake, and J. H. Kerr Reservoir have received much below normal inflows over the past month. J. H. Kerr Reservoir and Philpott are currently below guide curve elevation.

[**Smith Mountain Lake**](#) on the Staunton River in the Roanoke drought evaluation region was observed at an adjusted elevation of 794.40 feet, which is 1.4 feet above Watch level (793 ft). The adjusted elevation is the level the lake would be if the water currently held in the lower Leesville Lake for reuse were pumped back into Smith Mountain Lake. Recent 7, 14, and 28-day inflows were much below normal for this time of year.

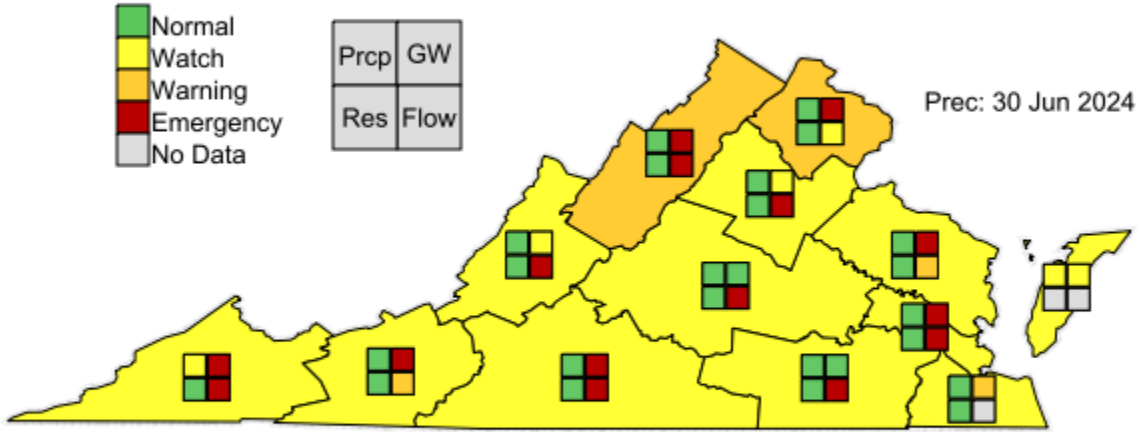
[**Lake Moomaw**](#) at Gathright Dam on the Jackson River in the Upper James drought evaluation region was observed at an elevation of 1577.59 feet, which is 14 feet above Watch level (1565 ft). Recent 7, 14, and 28-day average inflows were much below normal for this time of year.

[**Lake Anna**](#) on the North Anna River in the Northern Piedmont drought evaluation region was observed at an elevation of 249.5 feet, which is 1.5 feet above Watch level (248 ft). Recent 7, 14, and 28-day inflows were much below normal for this time of year.

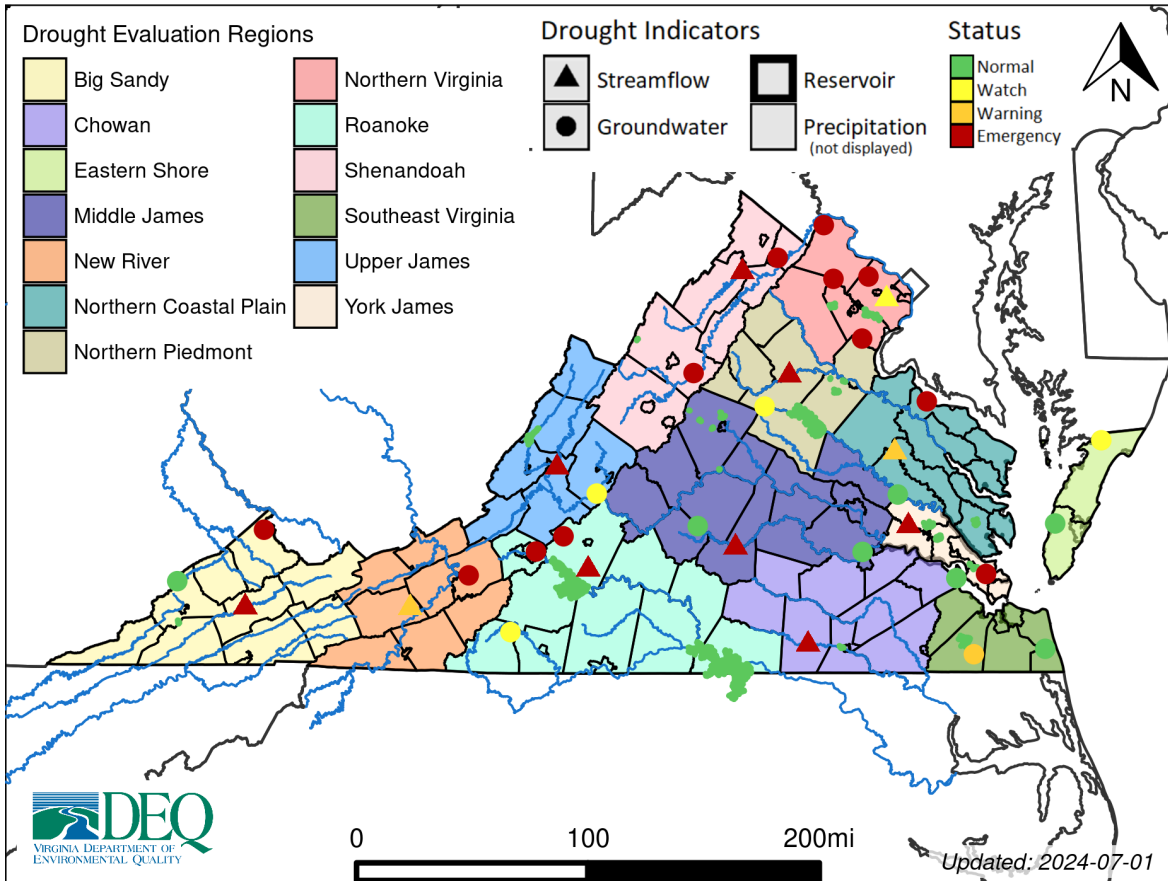
[**J. H. Kerr Reservoir**](#) on the Staunton River in the Roanoke drought evaluation region was observed at an elevation of 299.44ft, which is 2.0ft below the guide curve elevation for this time period (301.4 feet) and 1.0ft above the watch level (Watch level is 3 to 6 ft below guide curve). Recent 7, 14, and 28-day inflows were much below normal for this time of year.

DEQ Daily Drought Status Summary: 07/01/2024

Drought Summary Map:



Drought Indicator Map:



Regional Drought Response:

#	Region	Reduction Type	Target Reduction %
1	Eastern Shore	voluntary	none
2	Big Sandy	voluntary	none
3	Upper James	voluntary	none
4	Roanoke	voluntary	none
5	Southeast Virginia	voluntary	none
6	Northern Coastal Plain	voluntary	none
7	New River	voluntary	none
8	Middle James	voluntary	none
9	Chowan	voluntary	none
10	York James	voluntary	none
11	Northern Virginia	voluntary	none
12	Northern Piedmont	voluntary	none
13	Shenandoah	voluntary	none

Precipitation Indicators:

#	Region	Start Date	End Date	Water Year % of Normal	Status
1	Big Sandy	10/1/2023	6/30/2024	80.26	Watch
2	Eastern Shore	10/1/2023	6/30/2024	83.47	Watch
3	Roanoke	10/1/2023	6/30/2024	86.96	Normal
4	New River	10/1/2023	6/30/2024	87.48	Normal
5	Upper James	10/1/2023	6/30/2024	89.98	Normal
6	Middle James	10/1/2023	6/30/2024	93.83	Normal
7	Northern Piedmont	10/1/2023	6/30/2024	94.08	Normal
8	Shenandoah	10/1/2023	6/30/2024	96.63	Normal
9	Northern Virginia	10/1/2023	6/30/2024	101.3	Normal
10	Northern Coastal Plain	10/1/2023	6/30/2024	104.77	Normal
11	Southeast Virginia	10/1/2023	6/30/2024	104.81	Normal
12	York James	10/1/2023	6/30/2024	112.78	Normal
13	Chowan	10/1/2023	6/30/2024	115.07	Normal

Surface Water Indicators:

#	Region	Gage Name	Start Date	End Date	Percentile	Status
1	Upper James	COWPASTURE RIVER NEAR CLIFTON FORGE, VA	6/24/2024	6/30/2024	2.24	Emergency
2	York James	CHICKAHOMINY RIVER NEAR PROVIDENCE FORGE, VA	6/24/2024	6/30/2024	3.15	Emergency
3	Shenandoah	N F SHENANDOAH RIVER NEAR STRASBURG, VA	6/24/2024	6/30/2024	3.2	Emergency
4	Big Sandy	CLINCH RIVER AT CLEVELAND, VA	6/24/2024	6/30/2024	3.31	Emergency
5	Northern Piedmont	RAPIDAN RIVER NEAR CULPEPER, VA	6/24/2024	6/30/2024	4.02	Emergency
6	Roanoke	GOOSE CREEK NEAR HUDDLESTON, VA	6/24/2024	6/30/2024	4.44	Emergency
7	Chowan	MEHERRIN RIVER NEAR LAWRENCEVILLE, VA	6/24/2024	6/30/2024	4.86	Emergency
8	Middle James	APPOMATTOX RIVER AT FARMVILLE, VA	6/24/2024	6/30/2024	4.97	Emergency
9	Northern Coastal Plain	MATTAPONI RIVER NEAR BEULAHVILLE, VA	6/24/2024	6/30/2024	5.18	Warning
10	New River	REED CREEK AT GRAHAMS FORGE, VA	6/24/2024	6/30/2024	9.73	Warning
11	Northern Virginia	ACCOTINK CREEK NEAR ANNANDALE, VA	6/24/2024	6/30/2024	17.83	Watch

Groundwater Indicators:

#	Region	Well Name	Start Date	End Date	Percentile	Status
1	Big Sandy	Buchanan County USGS Observation Well (15G 19 SOW 222)	6/24/2024	6/30/2024	0.0	Emergency
2	New River	Christiansburg DEQ Observation Well (27F 2 SOW 019)	6/24/2024	6/30/2024	0.0	Emergency
3	Northern Virginia	Prince William County USGS Observation Well (51S 7)	6/24/2024	6/30/2024	0.0	Emergency
4	Northern Virginia	Prince William County USGS Observation Well (49V 1)	6/24/2024	6/30/2024	0.0	Emergency
5	Roanoke	Roanoke-Nelson DEQ Observation Well (31G 1 SOW 008)	6/24/2024	6/30/2024	0.0	Emergency
6	York James	York County DEQ Observation Well (59F74 SOW 184C)	6/24/2024	6/30/2024	0.0	Emergency
7	Roanoke	Bedford County USGS Observation Well (33G 1 SOW 224)	6/24/2024	6/30/2024	1.56	Emergency
8	Northern Virginia	Fairfax County USGS Observation Well (52V 2D)	6/24/2024	6/30/2024	1.98	Emergency
9	Northern Coastal Plain	George Washington Birthplace USGS Observation Well (55P 9)	6/24/2024	6/30/2024	2.2	Emergency
10	Shenandoah	McGaheysville USGS Observation Well (41Q 1)	6/24/2024	6/30/2024	2.87	Emergency
11	Northern Virginia	Harper's Ferry DEQ Observation Well (49Y 1 SOW 022)	6/24/2024	6/30/2024	3.13	Emergency
12	Shenandoah	Blandy Farm USGS Observation Well (46W 175)	6/24/2024	6/30/2024	3.21	Emergency
13	Southeast Virginia	Brinkley USGS Observation Well (58B 13)	6/24/2024	6/30/2024	9.88	Warning
14	Upper James	Glasgow DEQ Observation Well (35K 1 SOW 063)	6/24/2024	6/30/2024	10.67	Watch
15	Eastern Shore	Withams DEQ Observation Well (66M 19 SOW 110S)	6/24/2024	6/30/2024	12.73	Watch
16	Roanoke	Fairystone State Park USGS Observation Well (30C 1 SOW 010)	6/24/2024	6/30/2024	18.36	Watch
17	Northern Piedmont	Gordonsville DEQ Observation Well (45P 1 SOW 030)	6/24/2024	6/30/2024	18.4	Watch
18	Southeast Virginia	Pungo DEQ Observation Well (62B 1 SOW 098A)	6/24/2024	6/30/2024	41.9	Normal
19	Middle James	Buckingham USGS Observation Well (41H 3)	6/24/2024	6/30/2024	44.26	Normal
20	Chowan	Slade Farm DEQ Observation Well (57E 31 SOW 094C)	6/24/2024	6/30/2024	45.83	Normal
21	Eastern Shore	P. C. Kellam DEQ Observation Well (63H 6 SOW 103A)	6/24/2024	6/30/2024	53.85	Normal
22	York James	Hanover County DEQ Observation Well (53K 19 SOW 080)	6/24/2024	6/30/2024	56.25	Normal
23	Middle James	Colonial Heights USGS Observation Well (51G 1)	6/24/2024	6/30/2024	58.5	Normal
24	Big Sandy	U.S. Forest Service - SOW 223 Cane Patch Well	6/24/2024	6/30/2024	95.71	Normal

Reservoir Indicators:

Note, these reservoir statuses require manual review as they are NOT automated at this time

#	Region	Reservoir	Date	Status
1	Big Sandy	Big Cherry Reservoir	07/01/2024	Normal
2	Chowan	Emporia Reservoir	07/01/2024	Normal
3	Middle James	Beaver Creek Reservoir	07/01/2024	Normal
4	Middle James	Totier Creek Reservoir	07/01/2024	Normal
5	Middle James	Ragged Mountain	07/01/2024	Normal
6	Middle James	Sugar Hollow	07/01/2024	Normal
7	Middle James	Lake Moomaw	07/01/2024	Normal
8	Middle James	South Fork Rivanna River Reservoir	07/01/2024	Normal
9	Northern Coastal Plain	Beverdam Reservoir	07/01/2024	Normal
10	Northern Piedmont	Hunting Run Reservoir	07/01/2024	Normal
11	Northern Piedmont	Motts Run Reservoir	07/01/2024	Normal
12	Northern Piedmont	Lake Anna	07/01/2024	Normal
13	Northern Piedmont	Ni River Reservoir	07/01/2024	Normal
14	Northern Virginia	Lake Manassas	07/01/2024	Normal
15	Northern Virginia	Occoquan Reservoir	07/01/2024	Normal
16	Roanoke	Smith Mountain Lake	07/01/2024	Normal
17	Roanoke	Kerr Reservoir	07/01/2024	Normal
18	Shenandoah	Skidmore Fork Lake (Switzer Lake)	07/01/2024	Normal
19	Southeast Virginia	Lake Cohoon	07/01/2024	Normal
20	Southeast Virginia	Lake Kilby	07/01/2024	Normal
21	Southeast Virginia	Speights Run Reservoir	07/01/2024	Normal
22	Southeast Virginia	Lake Meade	07/01/2024	Normal
23	Southeast Virginia	Kerr Reservoir	07/01/2024	Normal
24	Upper James	Lake Moomaw	07/01/2024	Normal
25	York James	Diascund Creek Reservoir	07/01/2024	Normal
26	York James	Lee Hall - City Reservoir	07/01/2024	Normal
27	York James	Harwoods Mill Reservoir	07/01/2024	Normal
28	York James	Little Creek Reservoir	07/01/2024	Normal
29	York James	Skiffes Creek Reservoir	07/01/2024	Normal

Appendix A

U.S. Drought Monitor Virginia

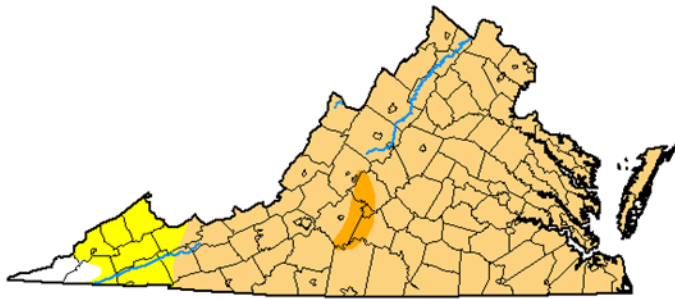
June 25, 2024

(Released Thursday, Jun. 27, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	1.73	98.27	90.60	2.25	0.00	0.00
Last Week <small>06-18-2024</small>	4.46	95.54	24.57	0.00	0.00	0.00
3 Months Ago <small>03-26-2024</small>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year <small>01-02-2024</small>	31.65	68.35	34.77	4.07	0.00	0.00
Start of Water Year <small>09-26-2023</small>	51.40	48.60	24.99	6.12	0.00	0.00
One Year Ago <small>06-27-2023</small>	61.37	38.63	7.17	0.41	0.00	0.00



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>

Author:

Adam Hartman
NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu

Appendix B



VA Drought Monitoring Task Force








Erik Taylor, Jon McGee, & Nick Fillo

National Weather Service – Baltimore/Washington DC/Blacksburg, VA,
Wakefield, VA

July 1, 2024

U.S. Drought Monitor

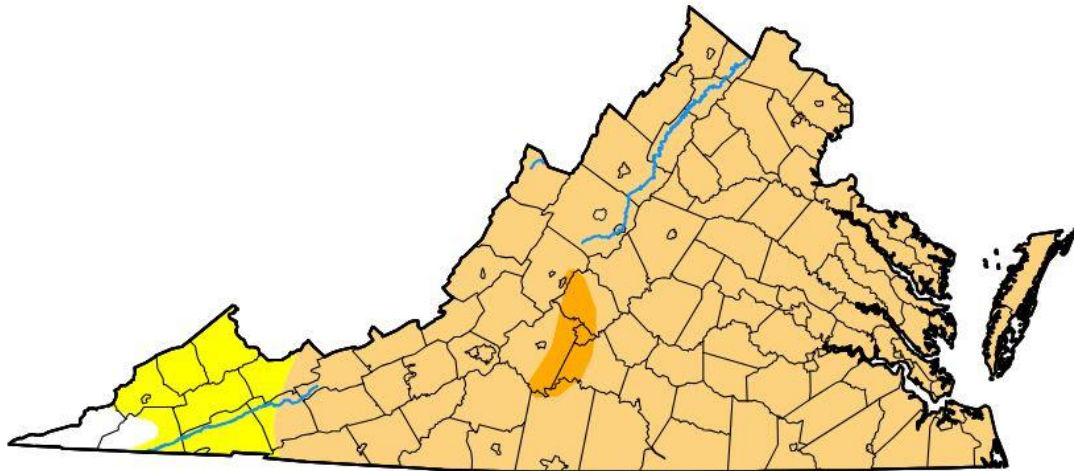
Intensity

-  None
-  D0 (Abnormally Dry)
-  D1 (Moderate Drought)
-  D2 (Severe Drought)
-  D3 (Extreme Drought)
-  D4 (Exceptional Drought)
-  No Data

Authors

United States and Puerto Rico Author(s):
[Adam Hartman](#), NOAA/NWS/NCEP/CPC

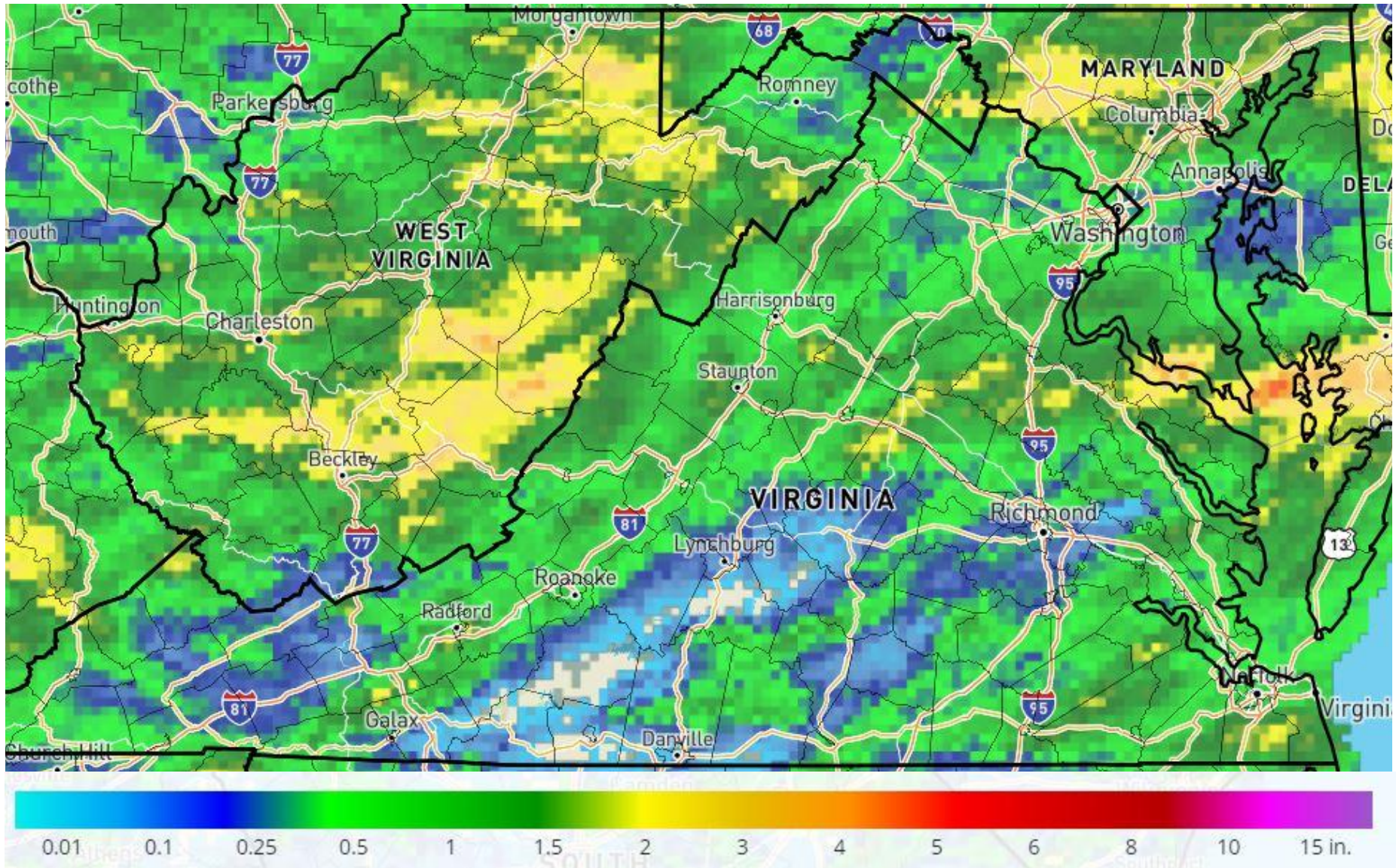
Pacific Islands and Virgin Islands Author(s):
[Rocky Bilotta](#), NOAA/NCEI



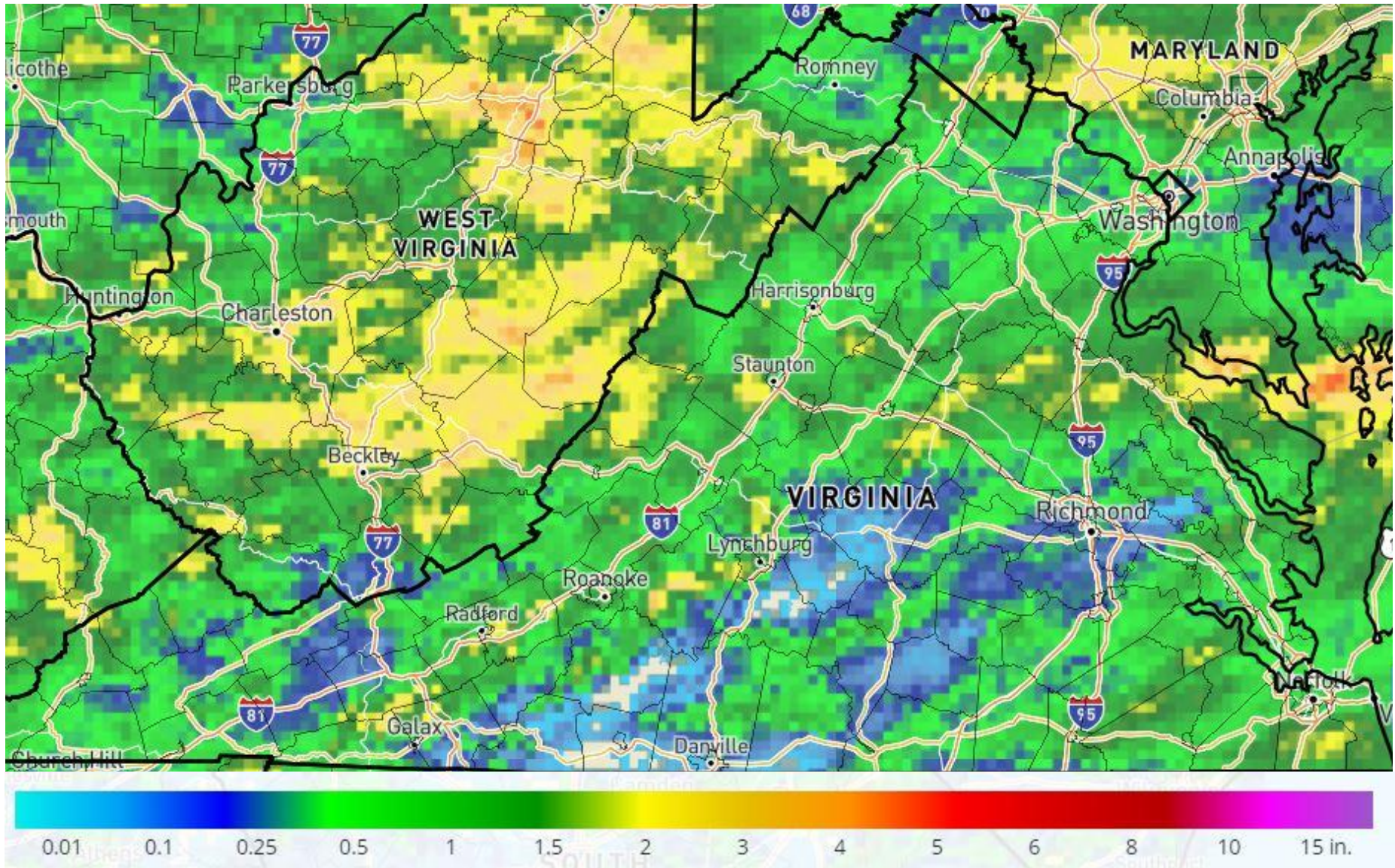
Map released: Thurs. June 27, 2024

Data valid: June 25, 2024 at 8 a.m. EDT

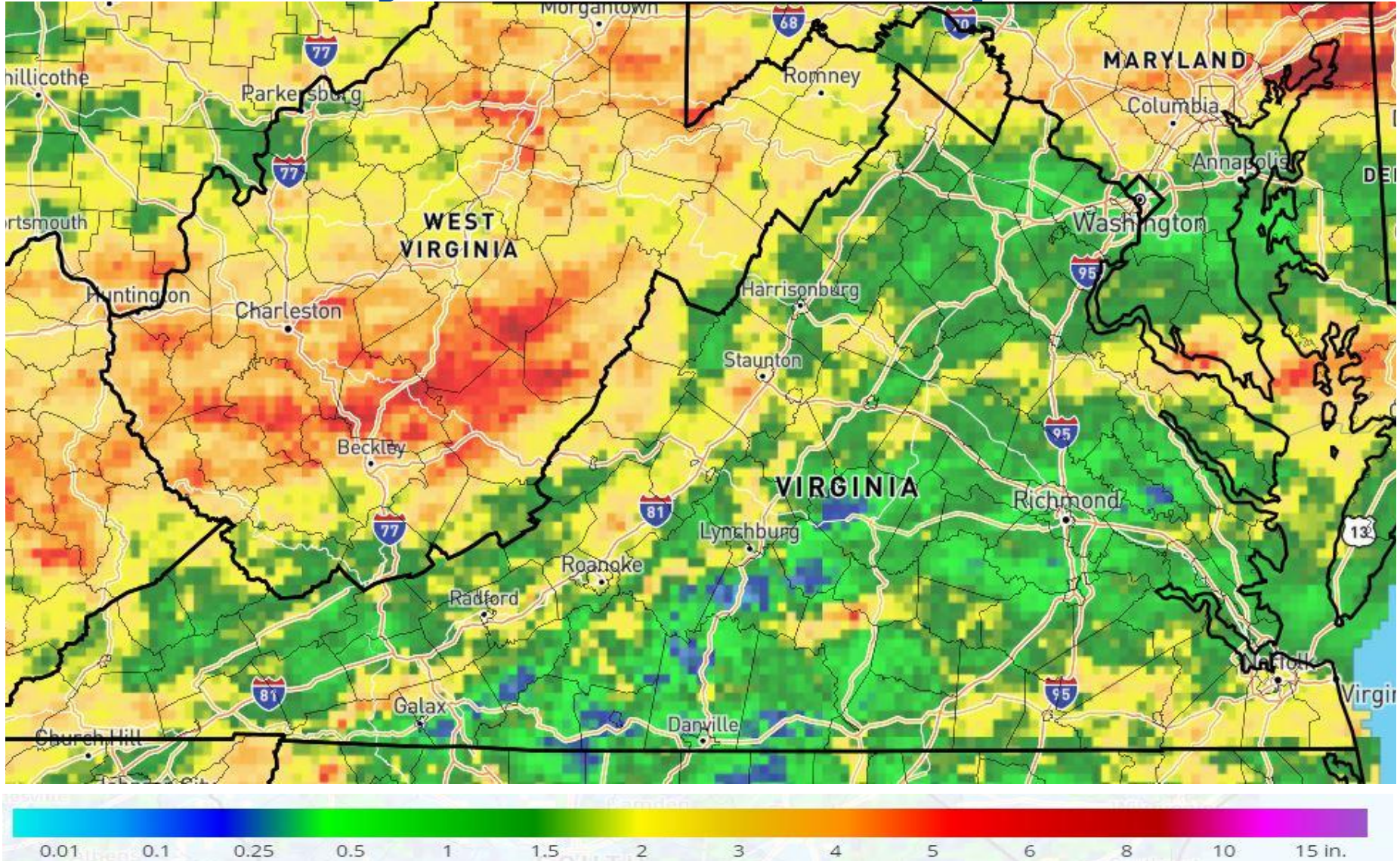
7-Day Observed Precipitation



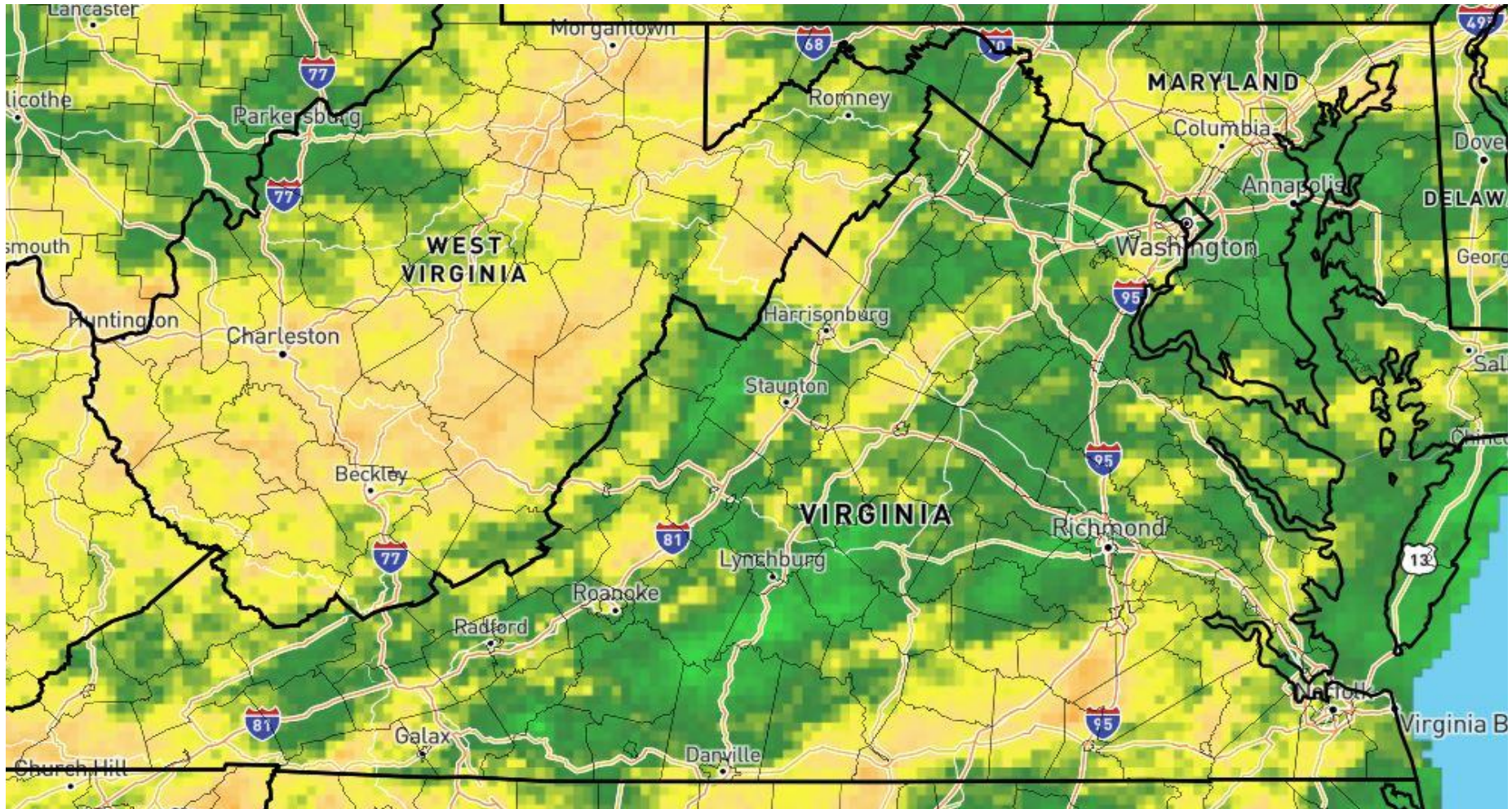
14-Day Observed Precipitation



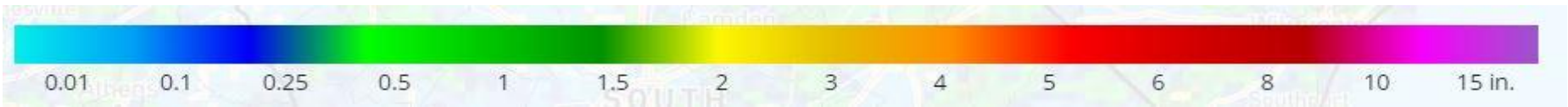
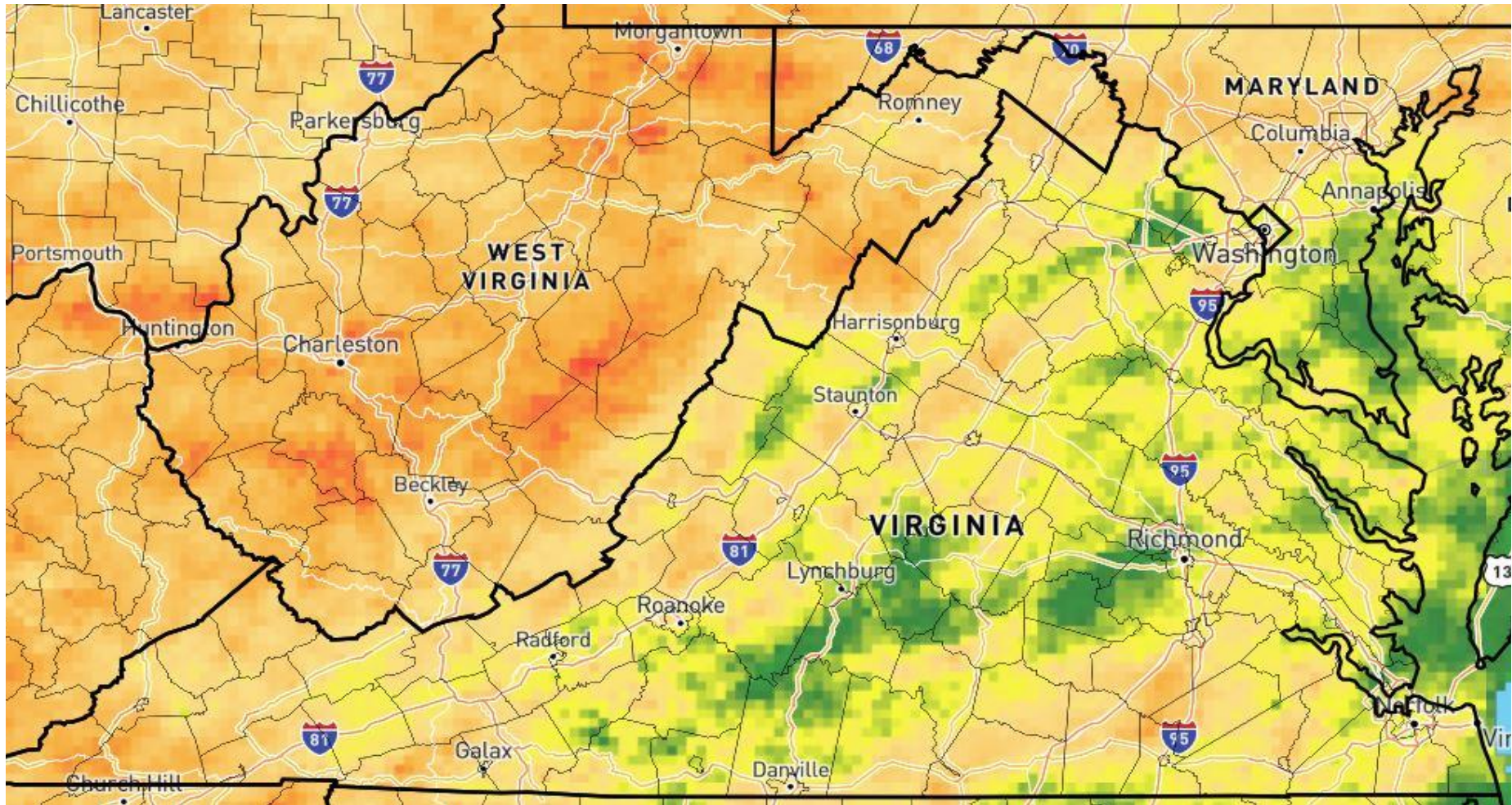
30-Day Observed Precipitation



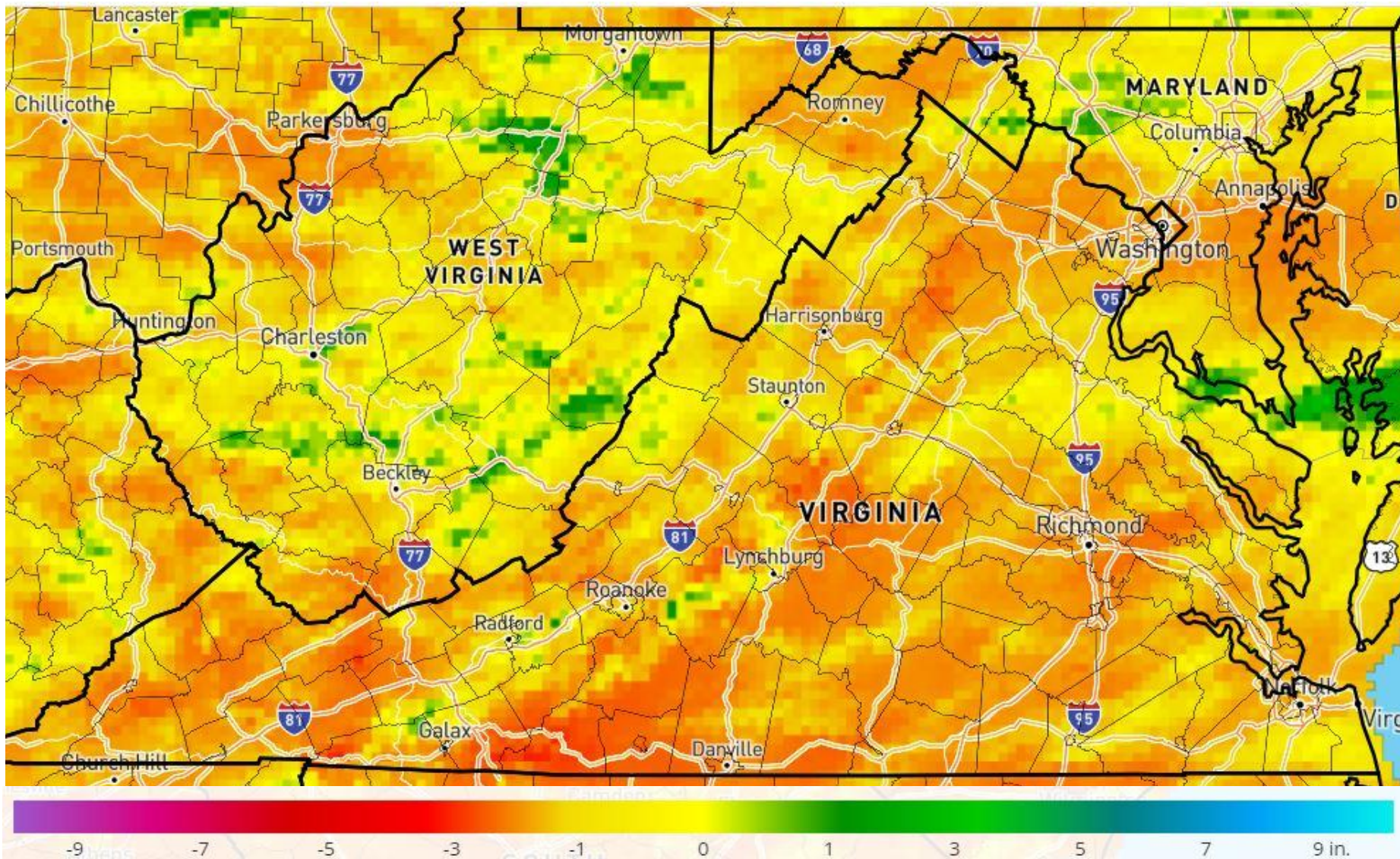
60-Day Observed Precipitation



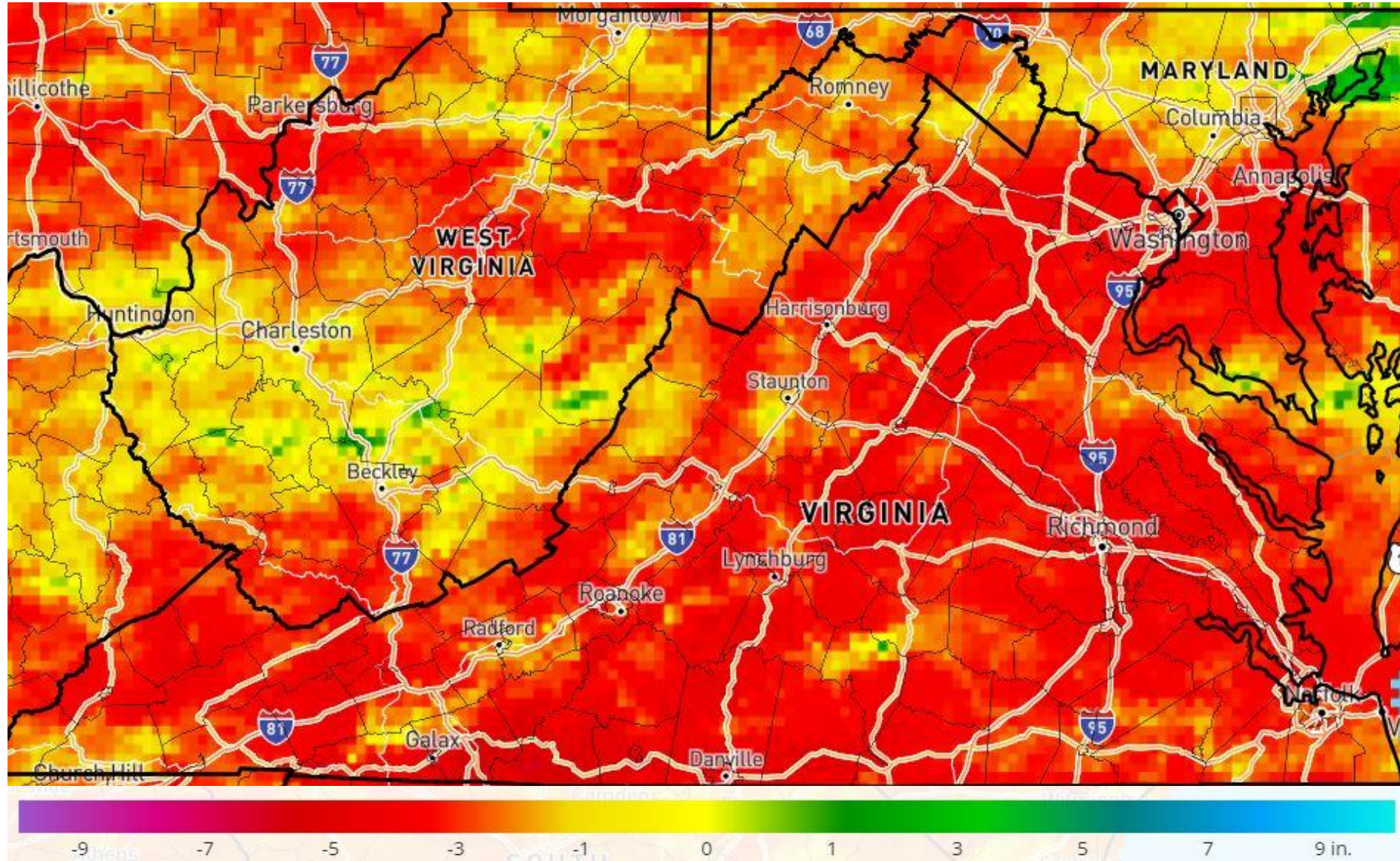
90-Day Observed Precipitation



14-Day Percent of Normal Precipitation



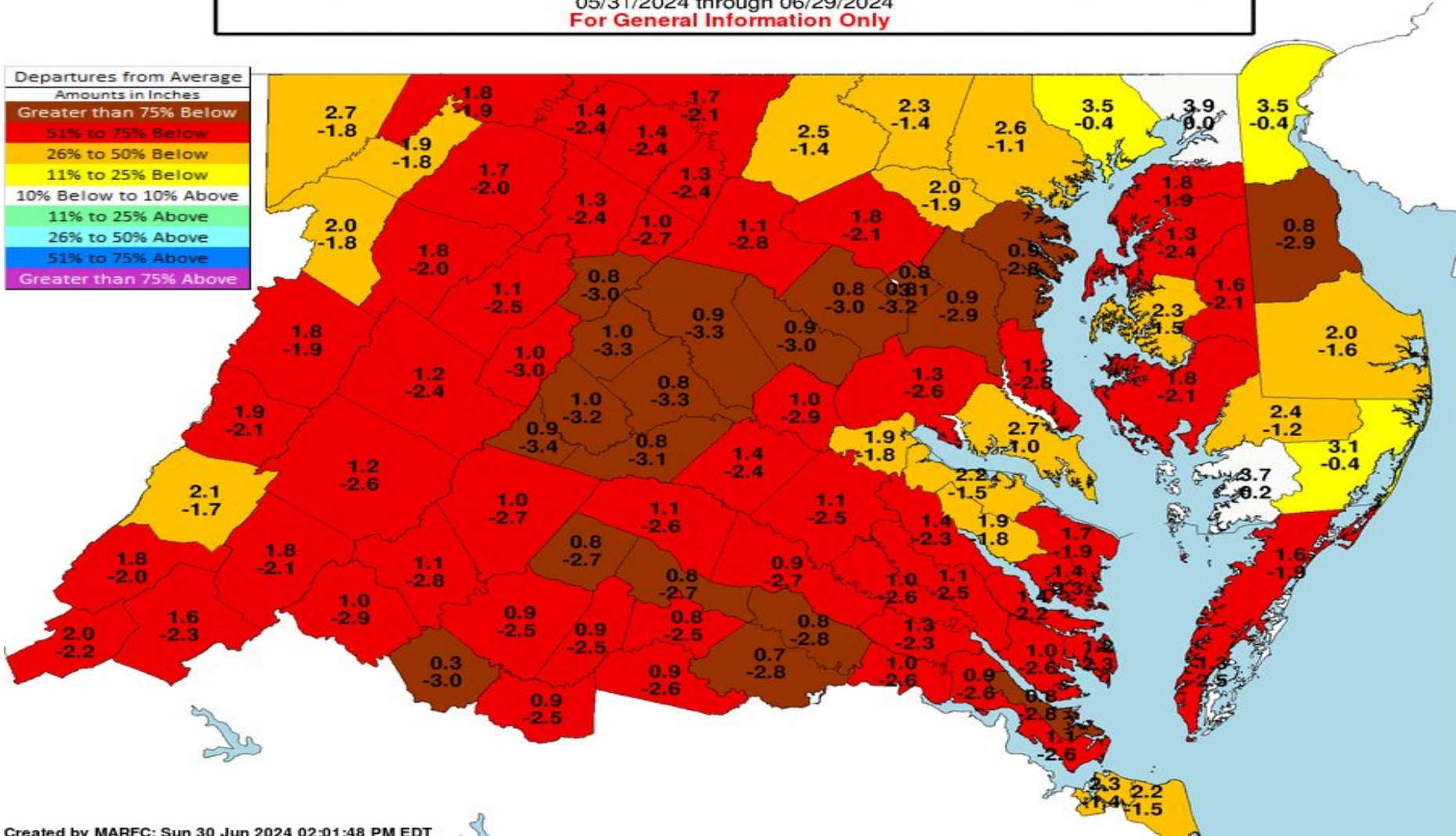
30-Day Percent of Normal Precipitation



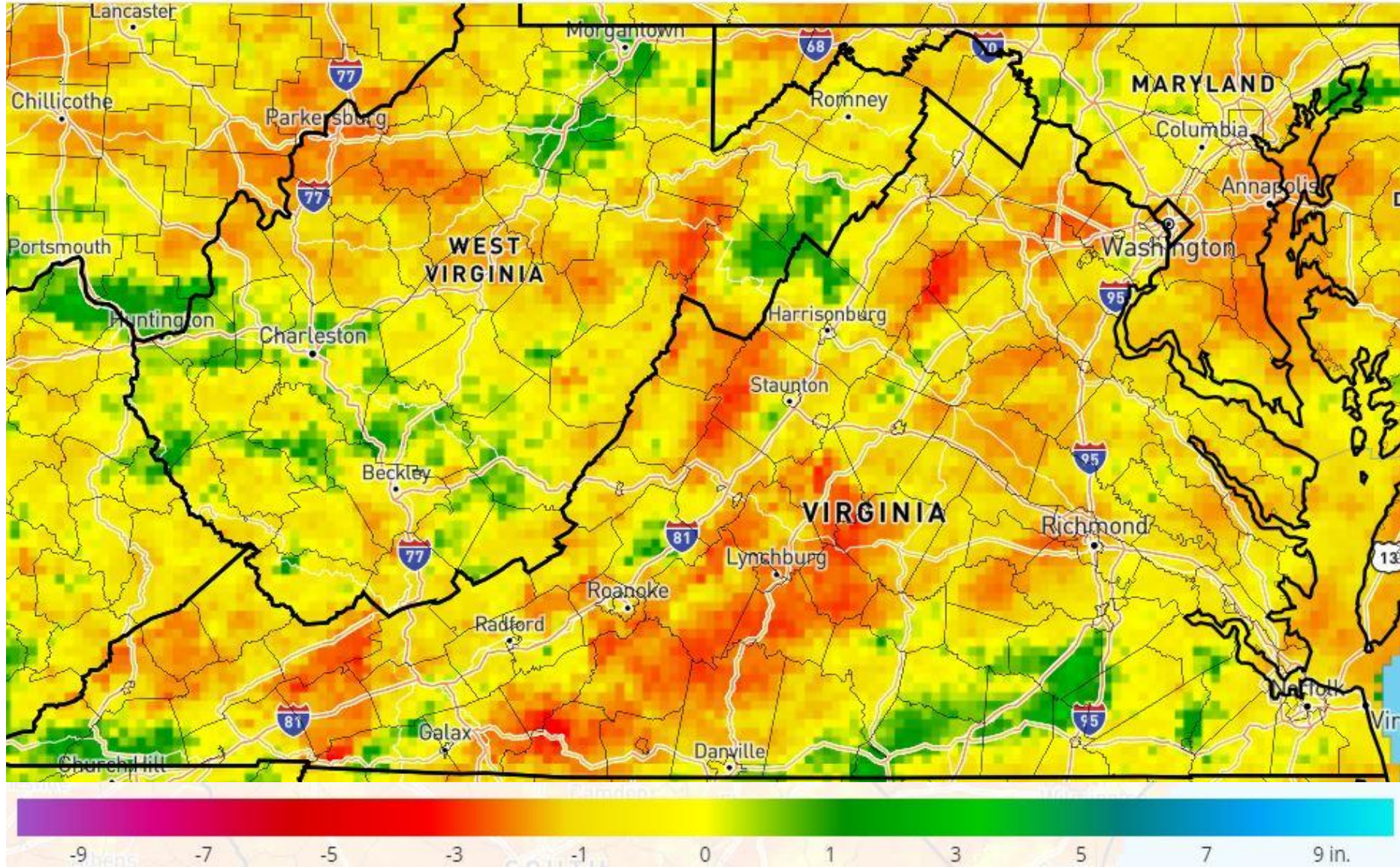
30-Day Departure Of Precipitation

30 Day Mean Areal Precipitation (top) and Departure From Average (bottom)
 05/31/2024 through 06/29/2024
 For General Information Only

Departures from Average
Amounts in Inches
Greater than 75% Below
51% to 75% Below
26% to 50% Below
11% to 25% Below
10% Below to 10% Above
11% to 25% Above
26% to 50% Above
51% to 75% Above
Greater than 75% Above



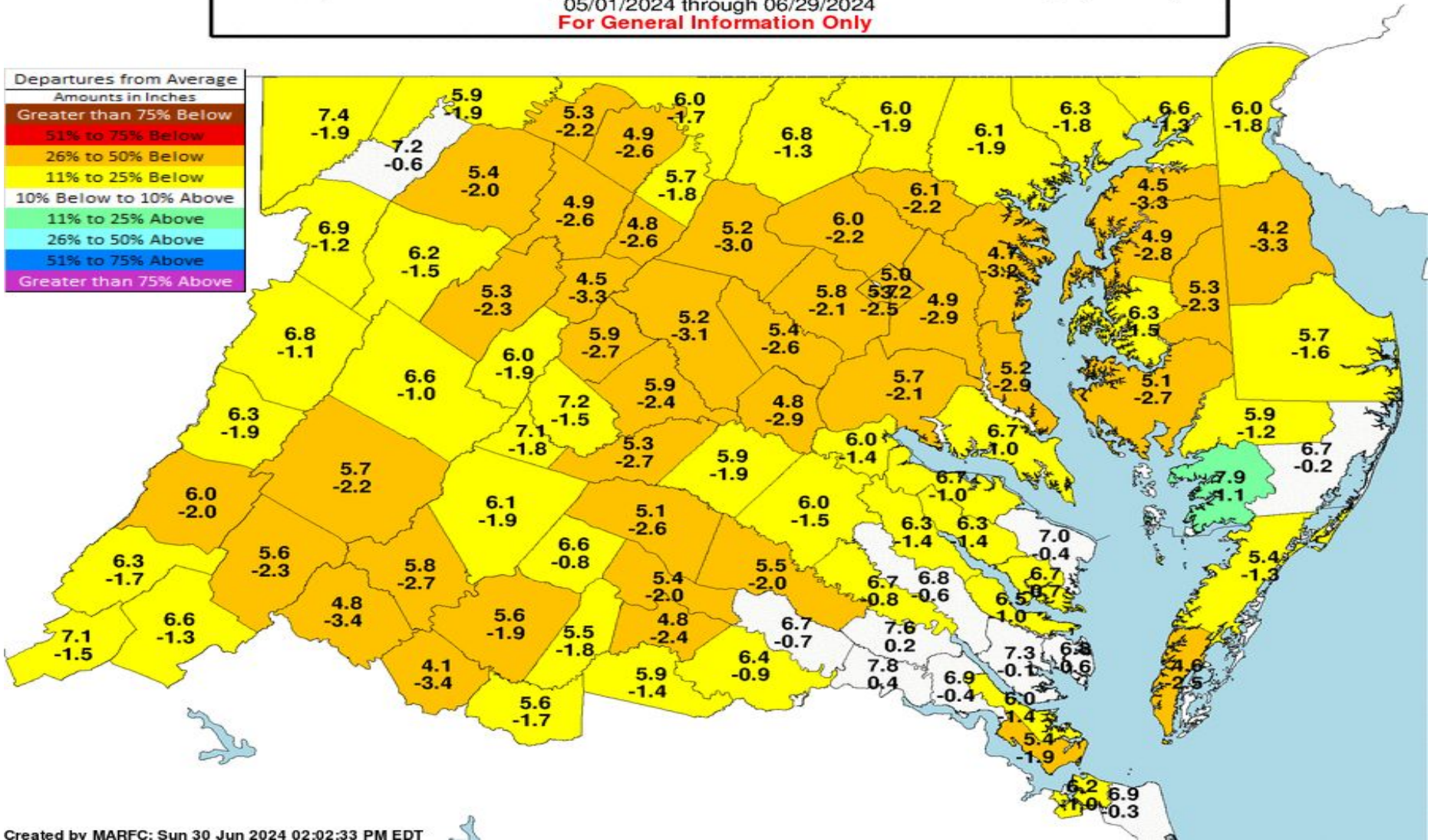
60-Day Percent of Normal Precipitation



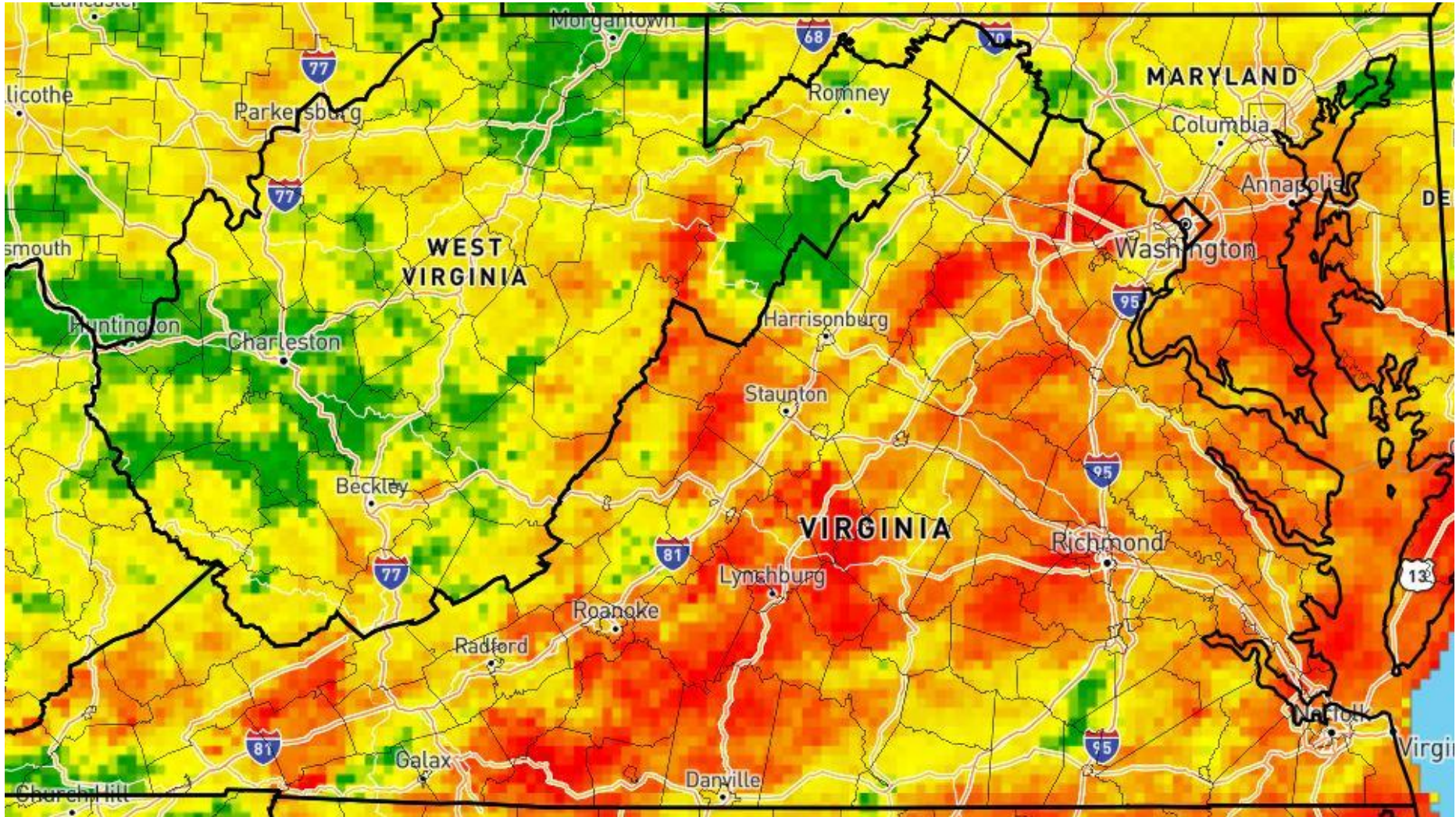
60-Day Departure Of Precipitation

60 Day Mean Areal Precipitation (top) and Departure From Average (bottom)
 05/01/2024 through 06/29/2024
 For General Information Only

Departures from Average	
Amounts in Inches	
Greater than 75% Below	51% to 75% Below
26% to 50% Below	11% to 25% Below
10% Below to 10% Above	11% to 25% Above
26% to 50% Above	51% to 75% Above
Greater than 75% Above	



90-Day Percent of Normal Precipitation

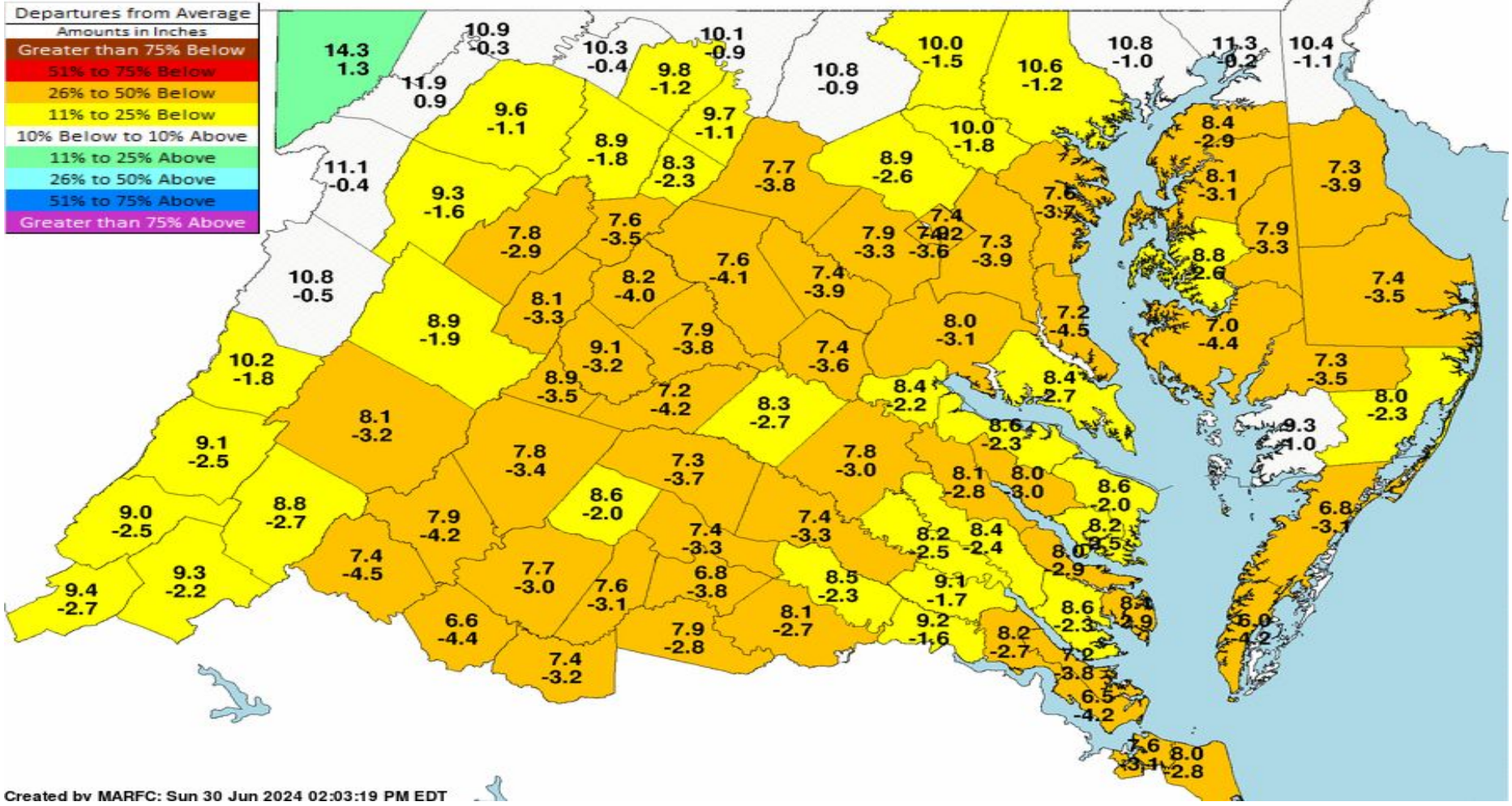


-9 -7 -5 -3 -1 0 1 3 5 7 9 in.

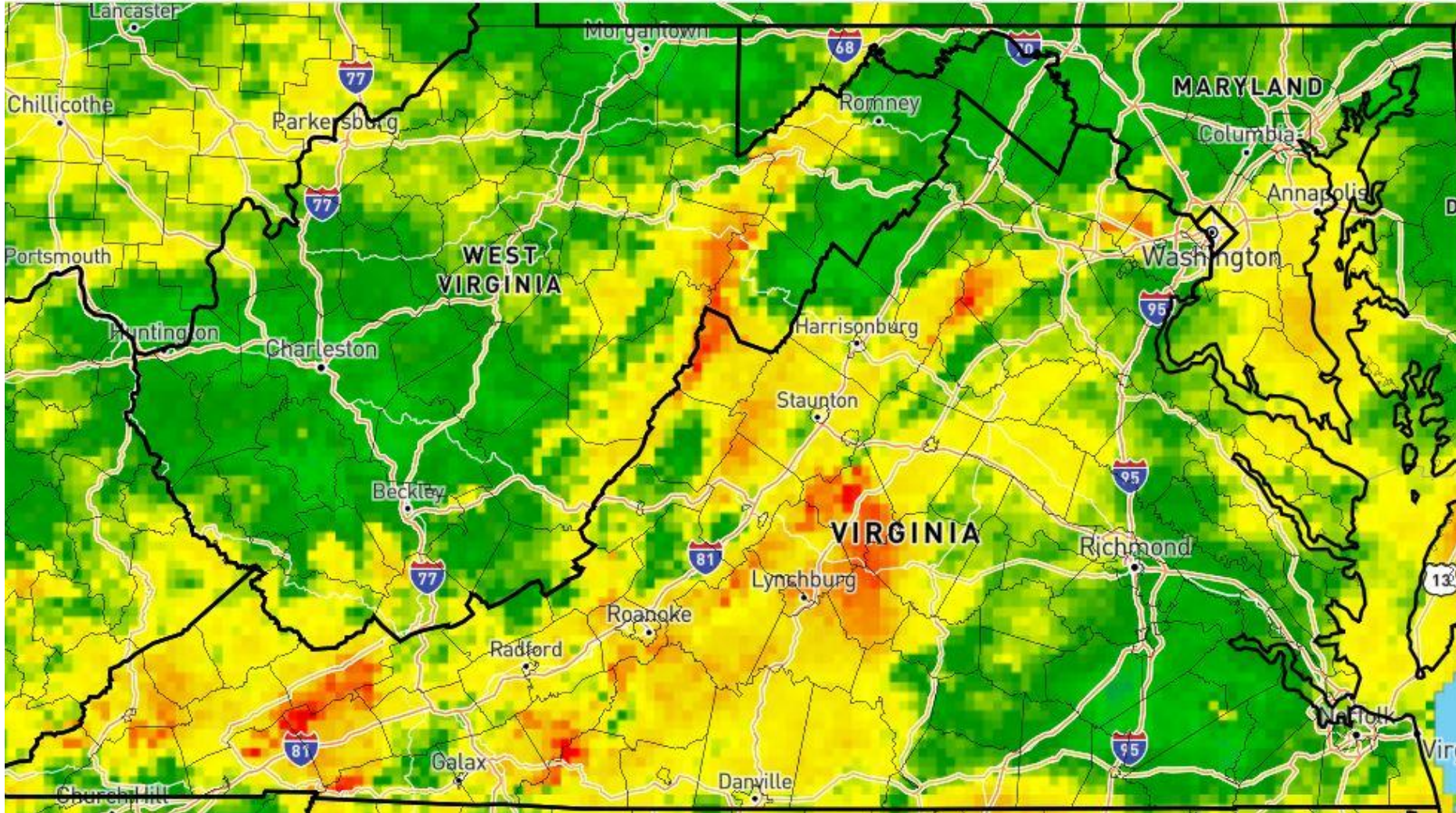
90-Day Departure Of Precipitation

90 Day Mean Areal Precipitation (top) and Departure From Average (bottom)
 04/01/2024 through 06/29/2024
 For General Information Only

Departures from Average	
Amounts in Inches	
Greater than 75% Below	Red
51% to 75% Below	Dark Orange
26% to 50% Below	Orange
11% to 25% Below	Light Orange
10% Below to 10% Above	Yellow
11% to 25% Above	Light Green
26% to 50% Above	Green
51% to 75% Above	Dark Green
Greater than 75% Above	Dark Blue



180-Day Percent of Normal Precipitation

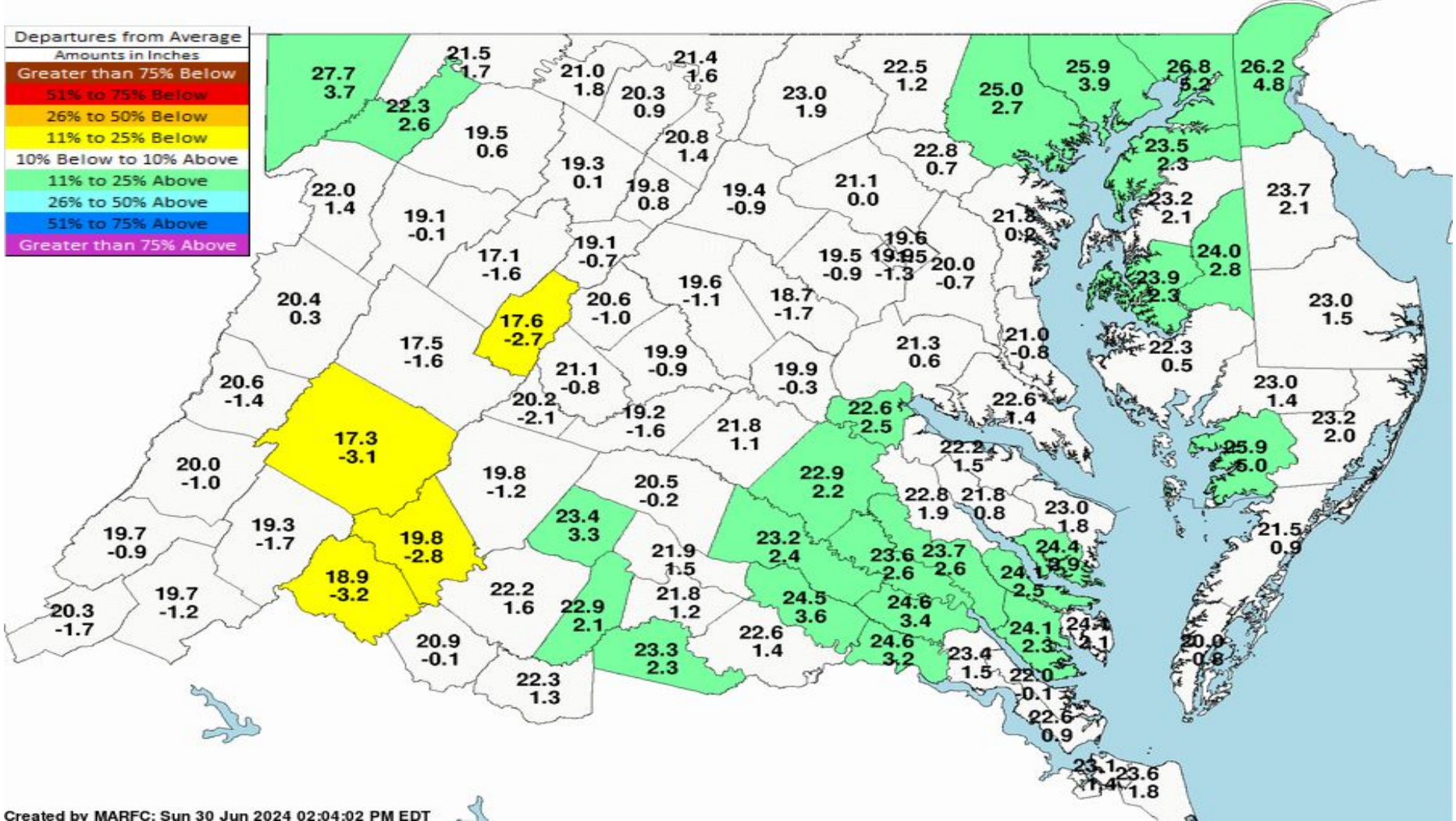


-9 -7 -5 -3 -1 0 1 3 5 7 9 in.

180-Day Departure Of Precipitation

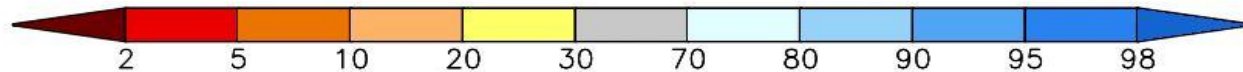
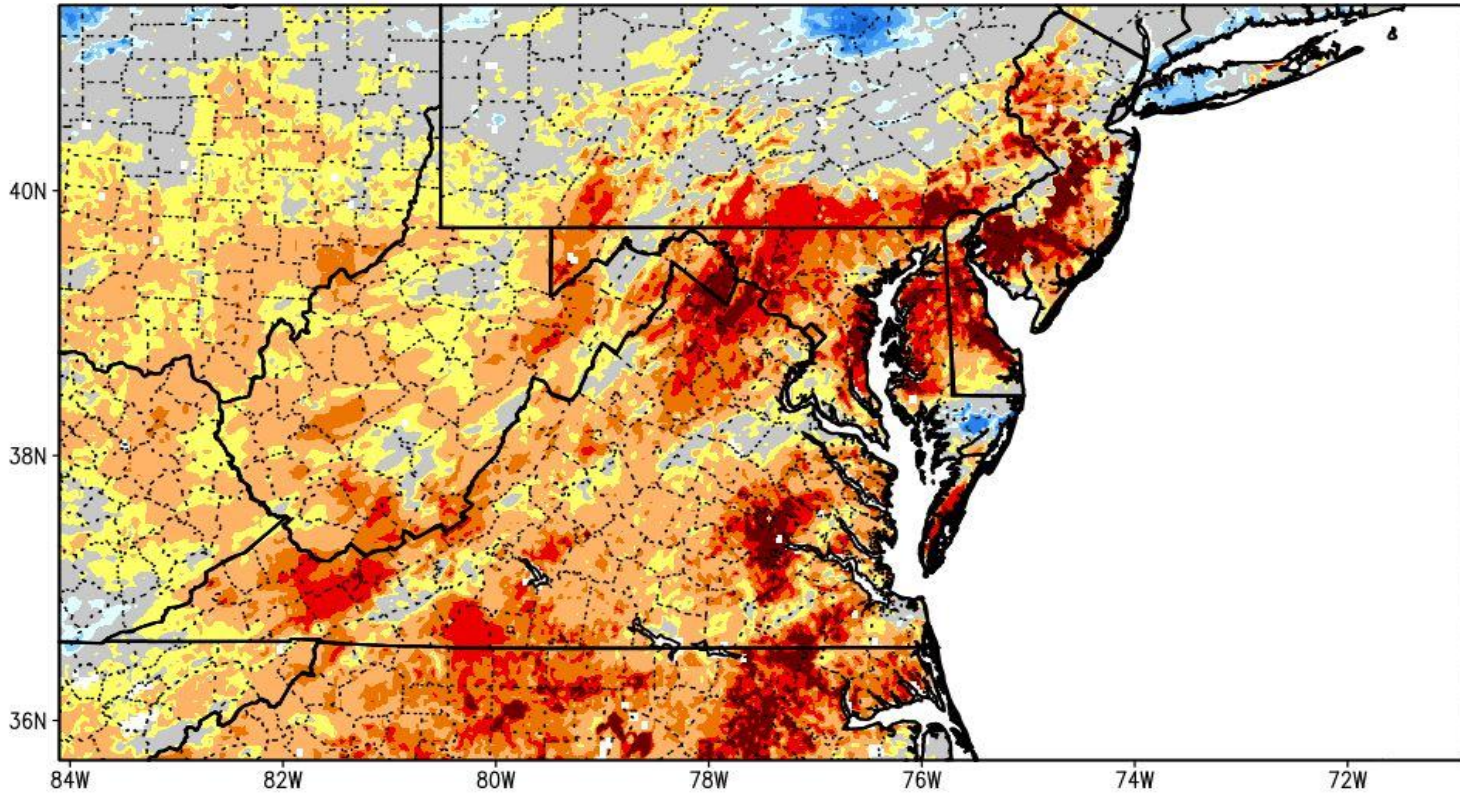
180 Day Mean Areal Precipitation (top) and Departure From Average (bottom)
 01/02/2024 through 06/29/2024
For General Information Only

Departures from Average	
Amounts in Inches	
Greater than 75% Below	51% to 75% Below
26% to 50% Below	11% to 25% Below
10% Below to 10% Above	11% to 25% Above
26% to 50% Above	51% to 75% Above
Greater than 75% Above	



NASA SPoRT LIS Soil Moisture

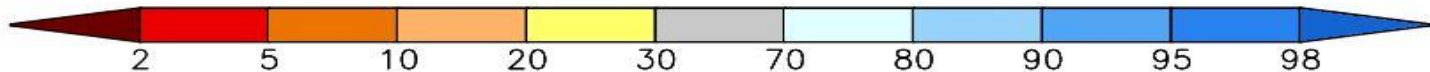
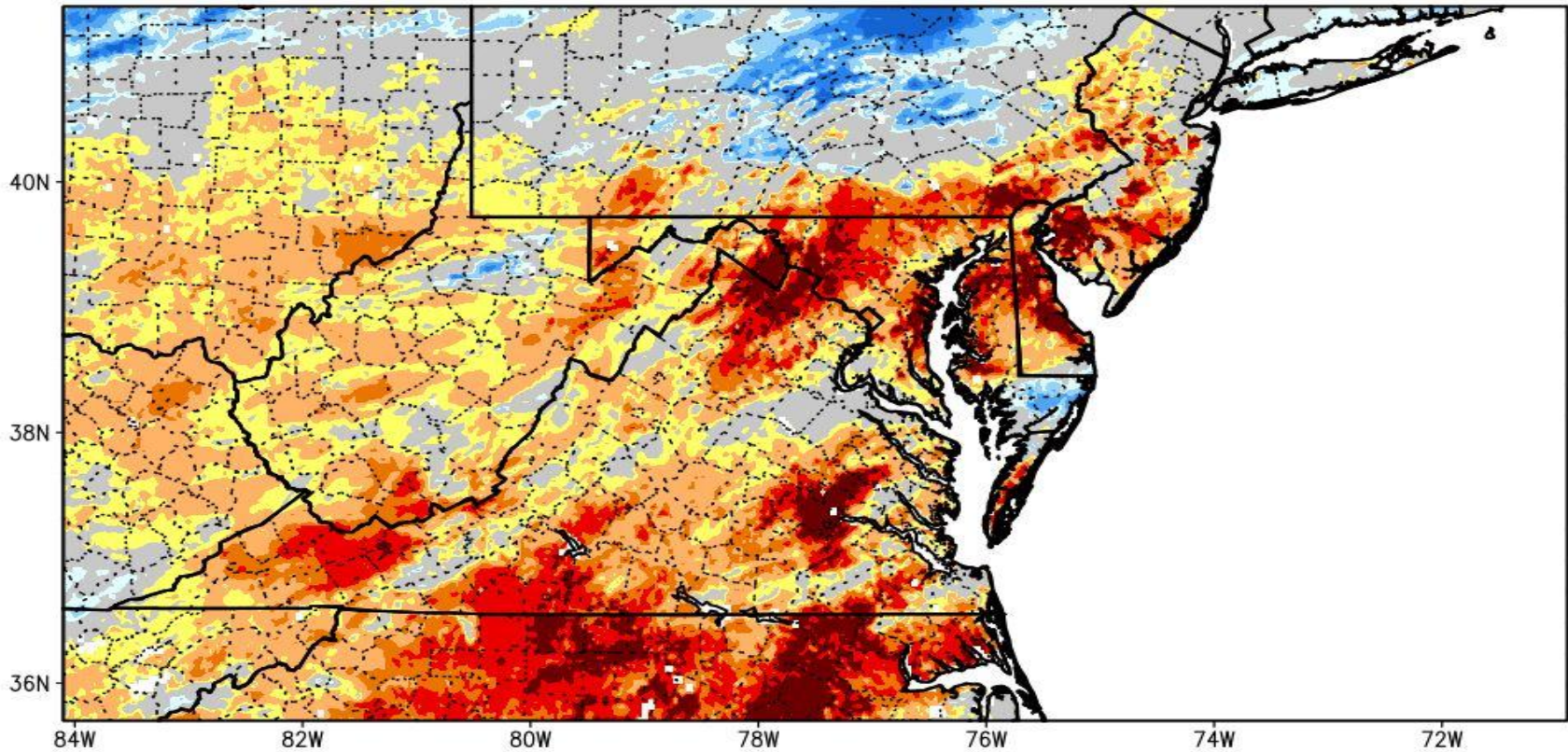
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 30 Jun 2024



****NOTE****
****Experimental****

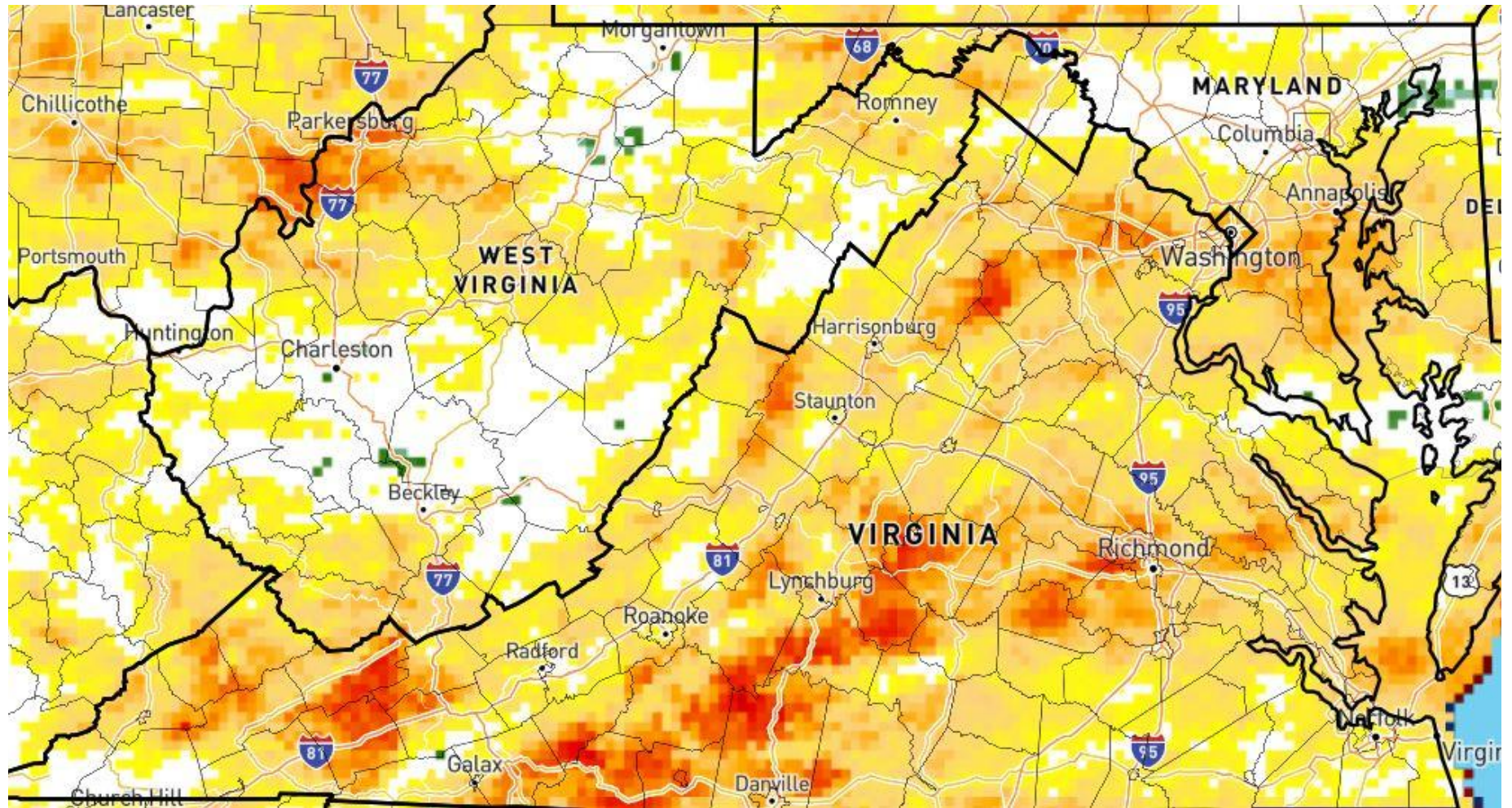
NASA SPoRT LIS Soil Moisture

SPoRT-LIS 0-40 cm Soil Moisture percentile valid 30 Jun 2024

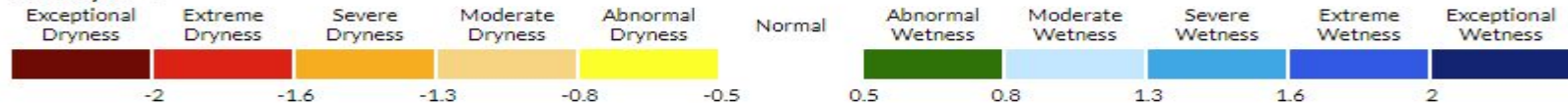


****NOTE****
****Experimental****

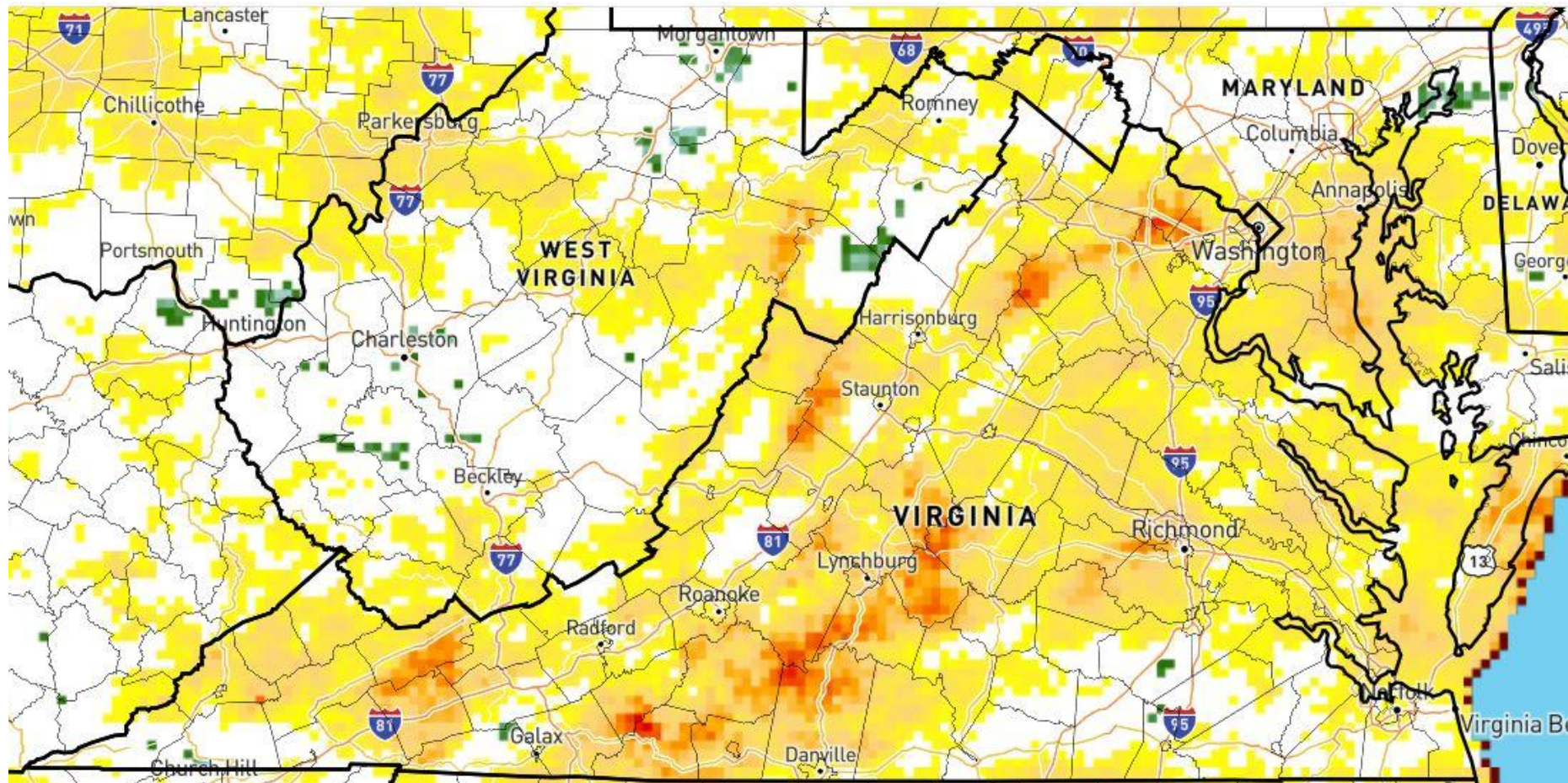
30-Day SPI



30-day SPI



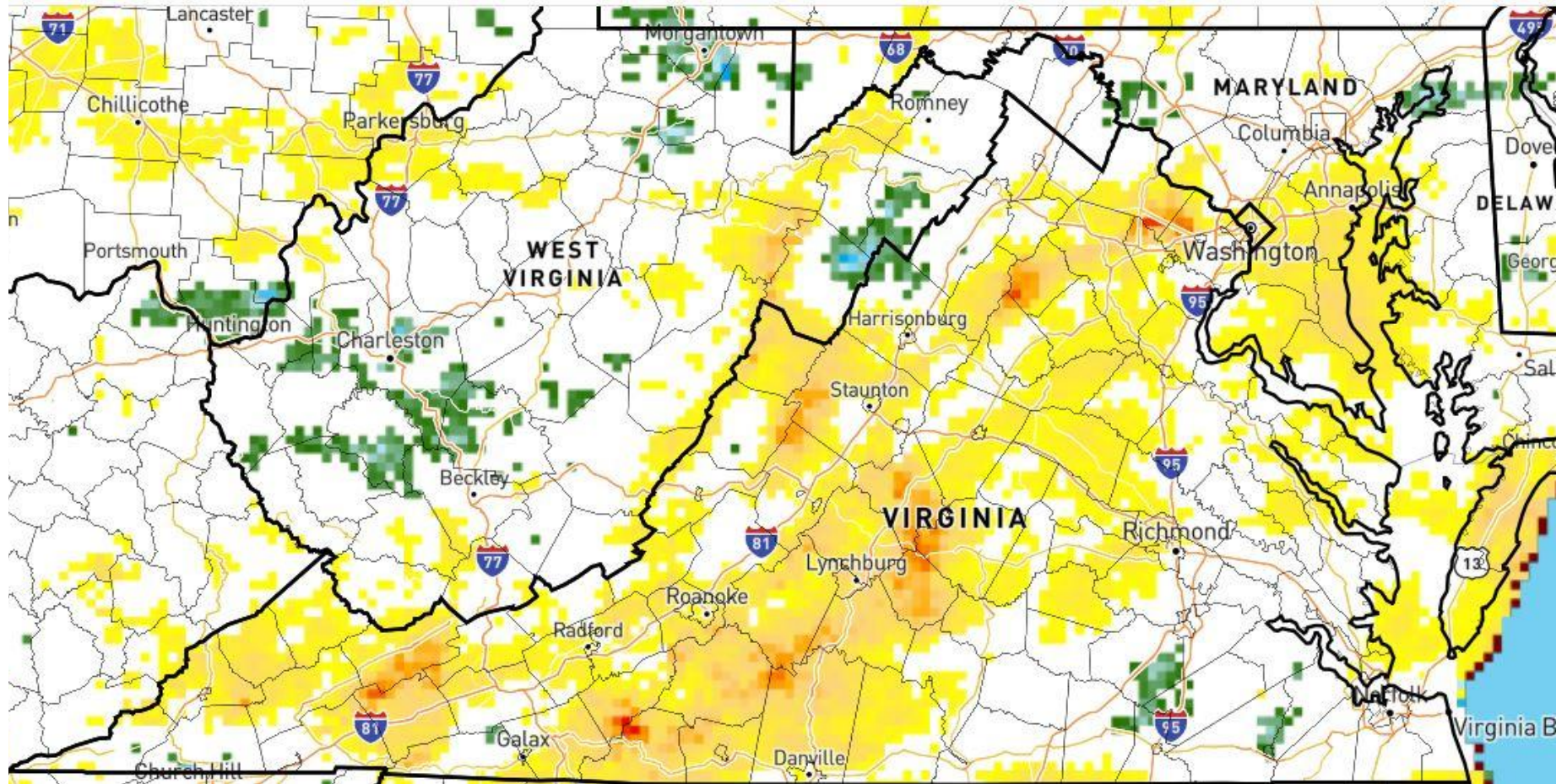
60-Day SPI



60-day SPI



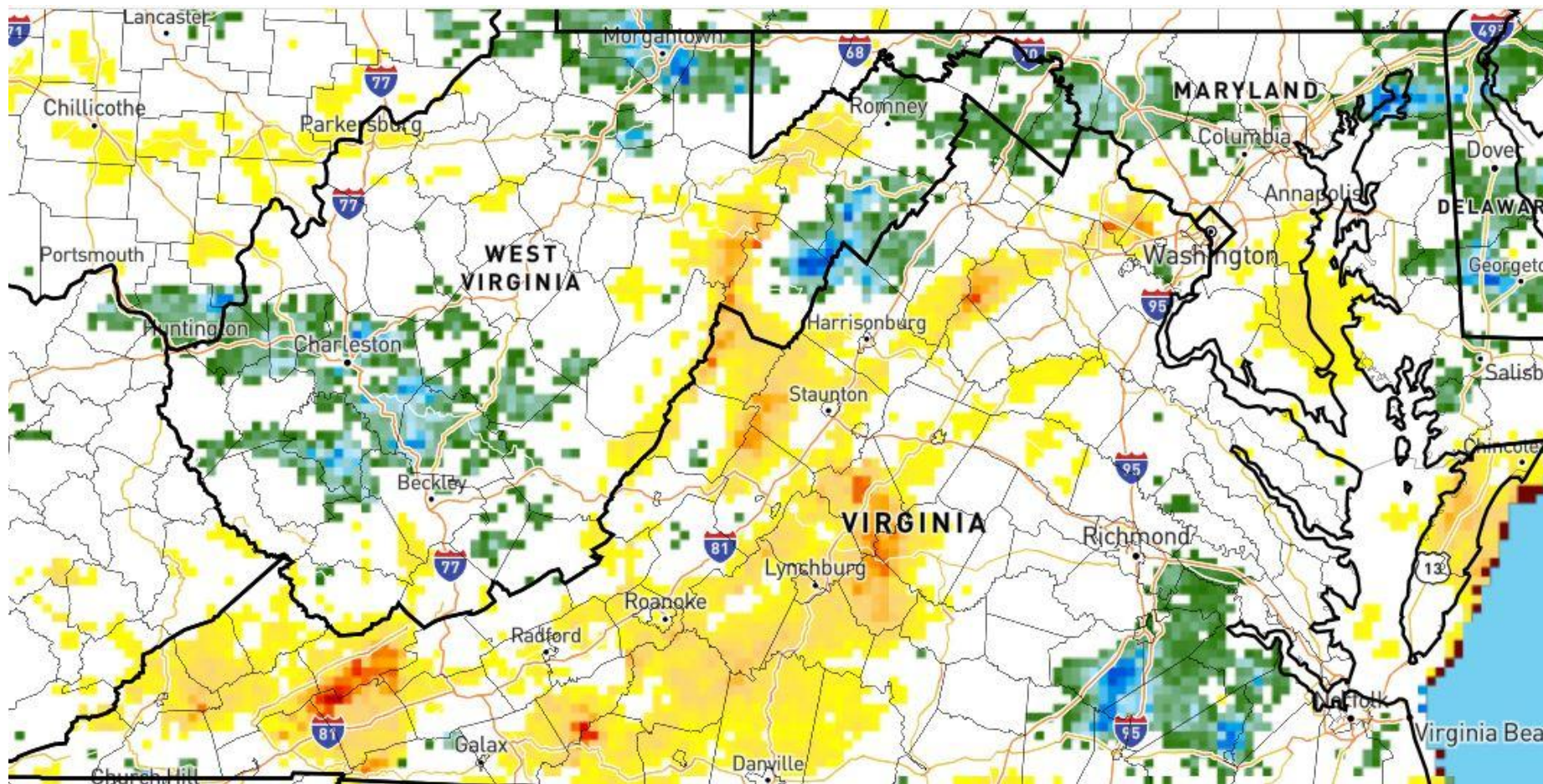
90-Day SPI



90-day SPI



120-Day SPI

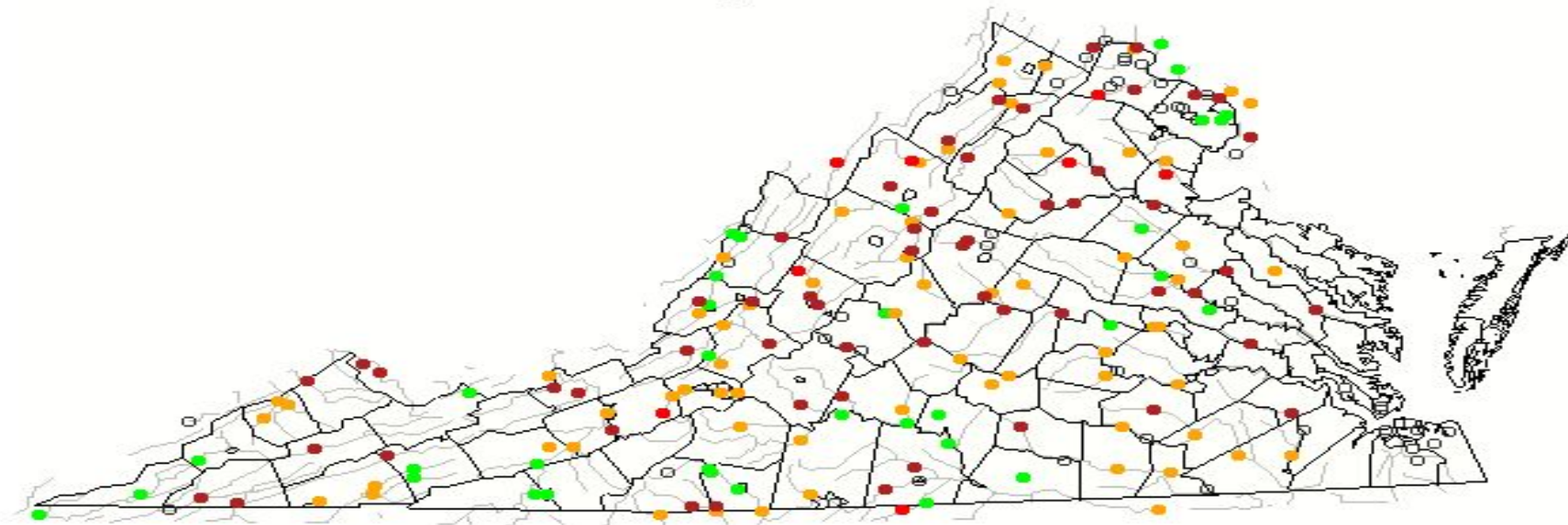


120-day SPI



7 Day Streamflows

Sunday, June 30, 2024



Search USGS streamgage

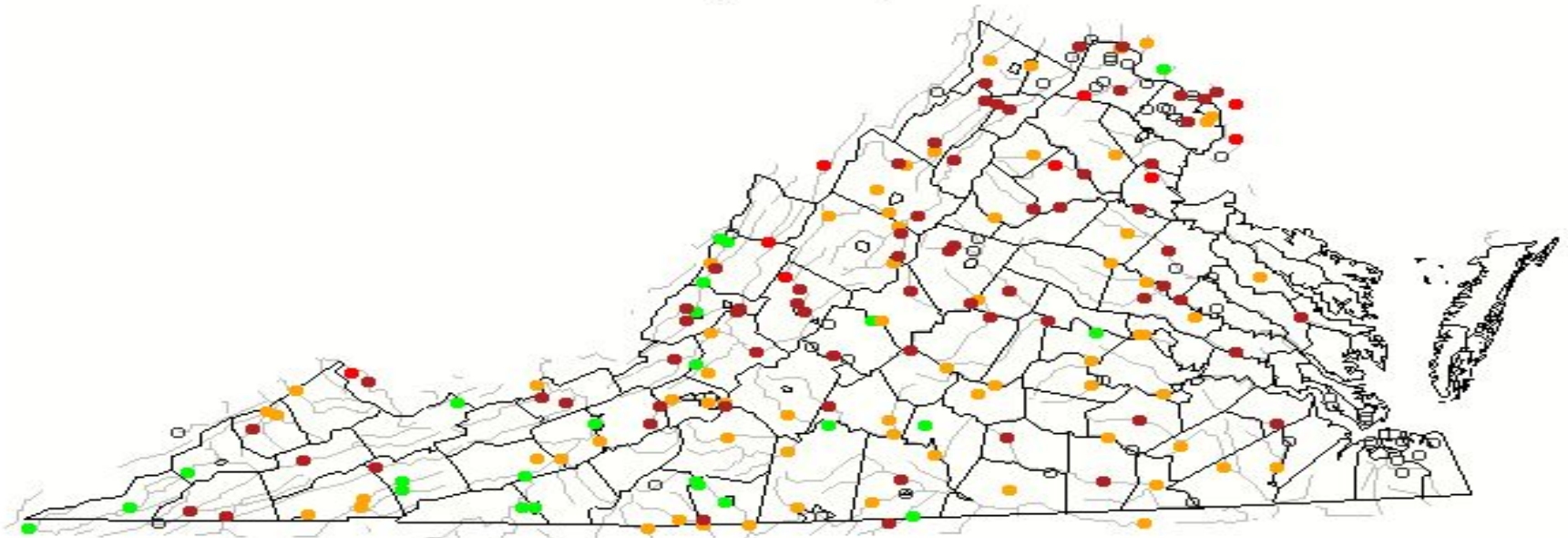
Choose a data retrieval option and select a location on the map

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

14 Day Streamflows

Sunday, June 30, 2024



Search USGS streamgage

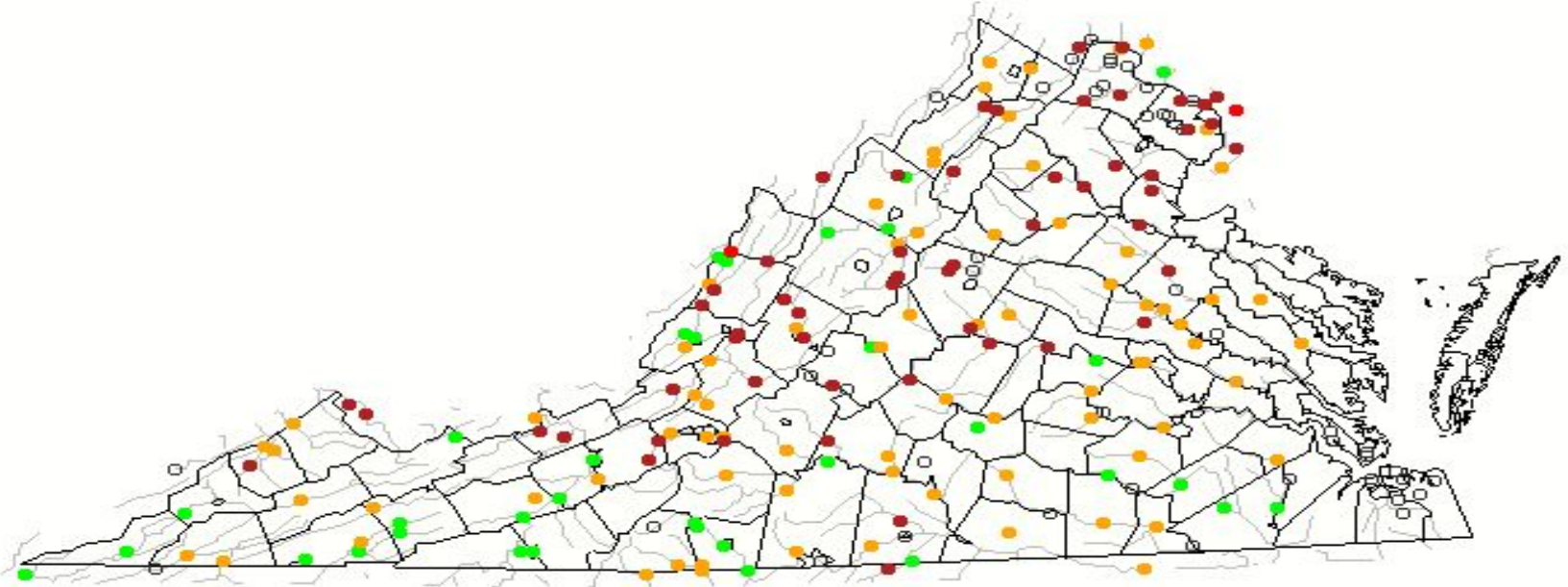
Choose a data retrieval option and select a location on the map

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

28 Day Streamflows

Sunday, June 30, 2024



Search USGS streamgage

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

- List of all stations
 Single station
 Nearest stations

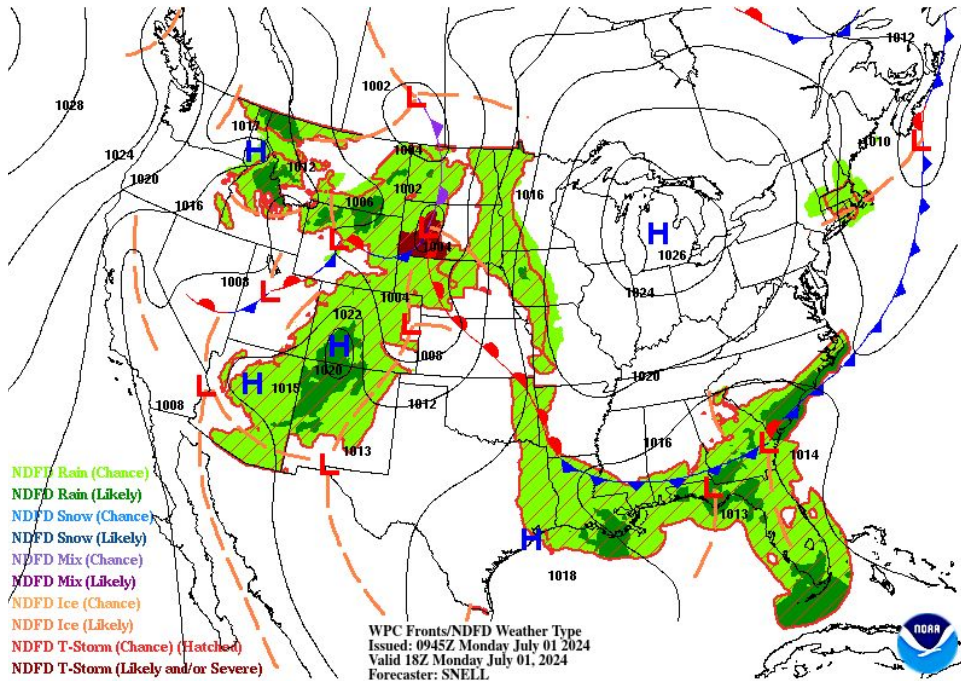
Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Upcoming Weather Pattern

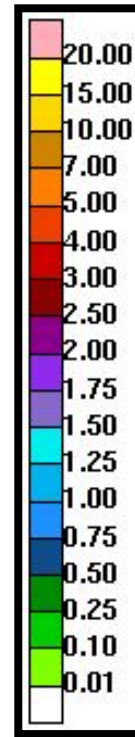
Today

Fronts and Weather

Accumulated Precipitation Forecasts



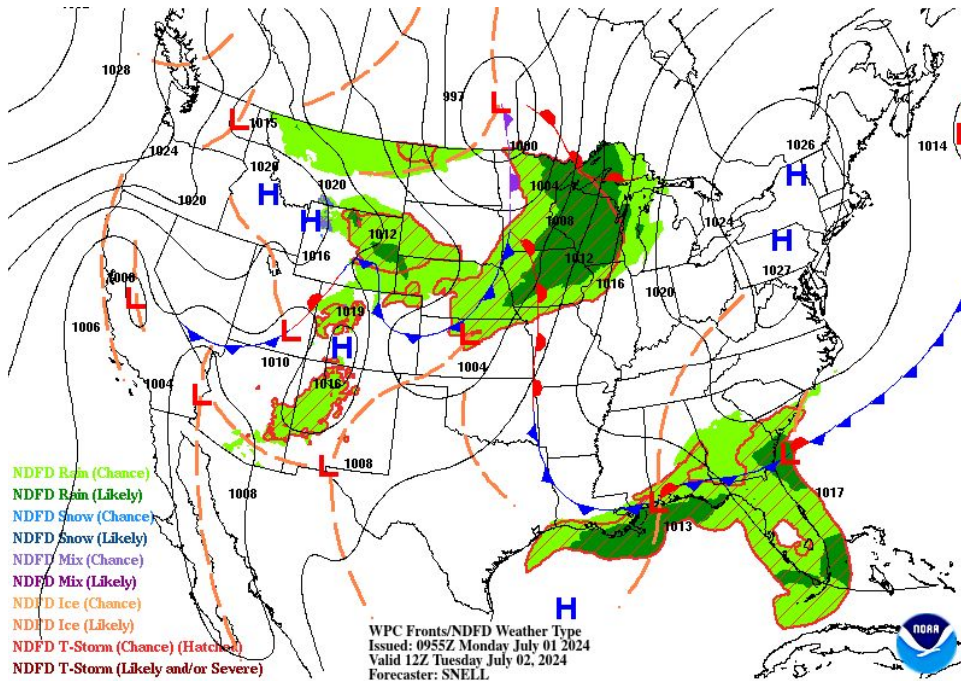
- NDFD Rain (Chance)
- NDFD Rain (Likely)
- NDFD Snow (Chance)
- NDFD Snow (Likely)
- NDFD Mix (Chance)
- NDFD Mix (Likely)
- NDFD Ice (Chance)
- NDFD Ice (Likely)
- NDFD T-Storm (Chance) (Hatched)
- NDFD T-Storm (Likely and/or Severe)



Upcoming Weather Pattern

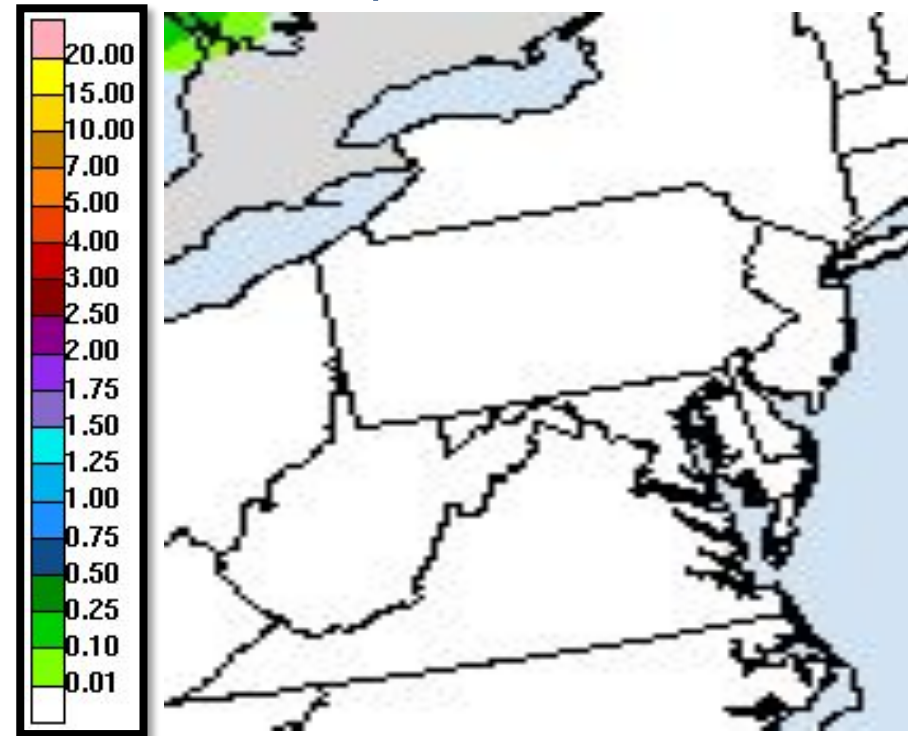
Tuesday

Fronts and Weather



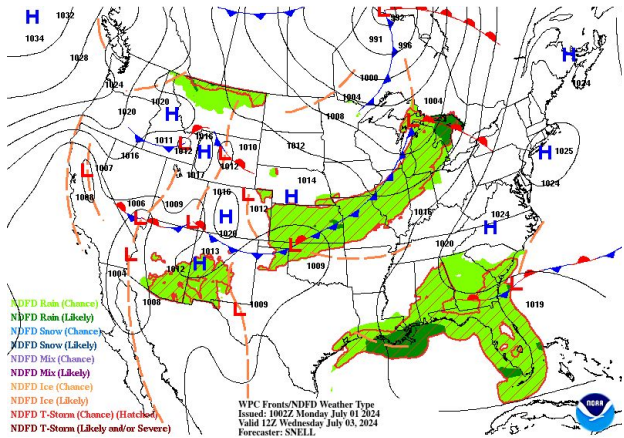
- NDFD Rain (Chance)
- NDFD Rain (Likely)
- NDFD Snow (Chance)
- NDFD Snow (Likely)
- NDFD Mix (Chance)
- NDFD Mix (Likely)
- NDFD Ice (Chance)
- NDFD Ice (Likely)
- NDFD T-Storm (Chance) (Hatched)
- NDFD T-Storm (Likely and/or Severe)

Accumulated Precipitation Forecasts

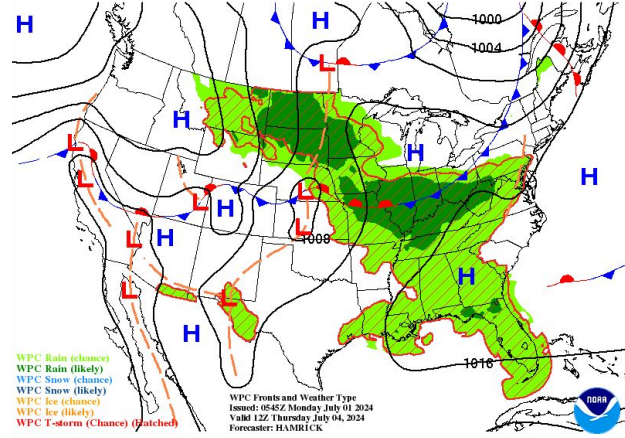


Upcoming Weather Pattern

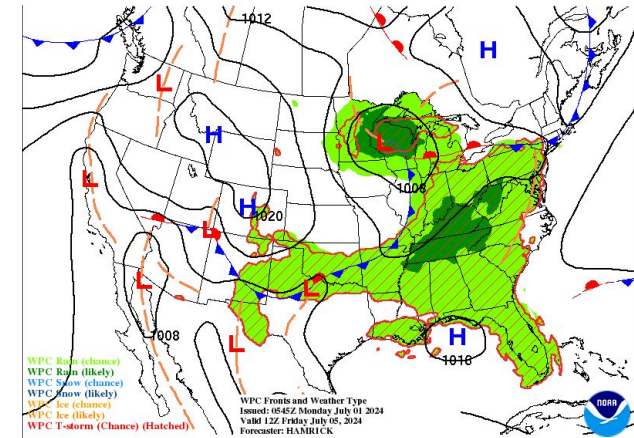
Wednesday



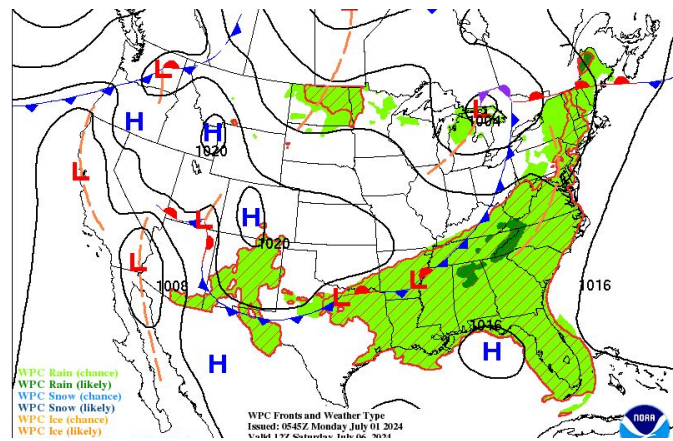
Thursday



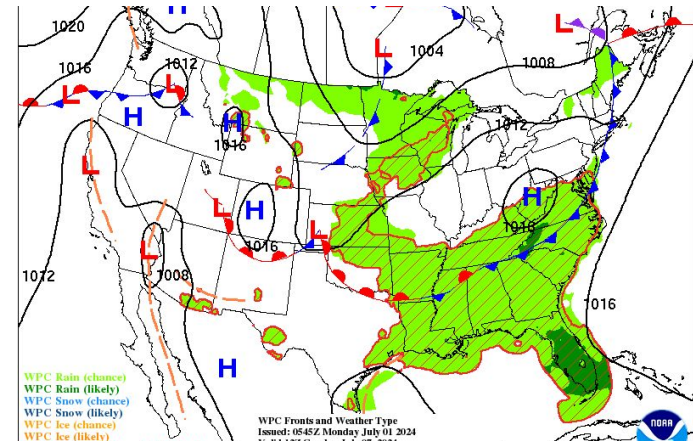
Friday



Saturday

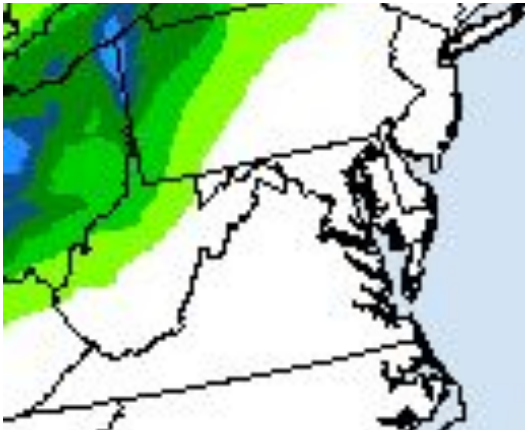


Sunday

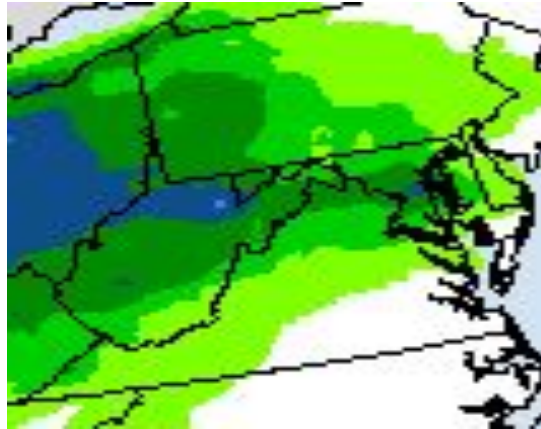


Precipitation Forecasts

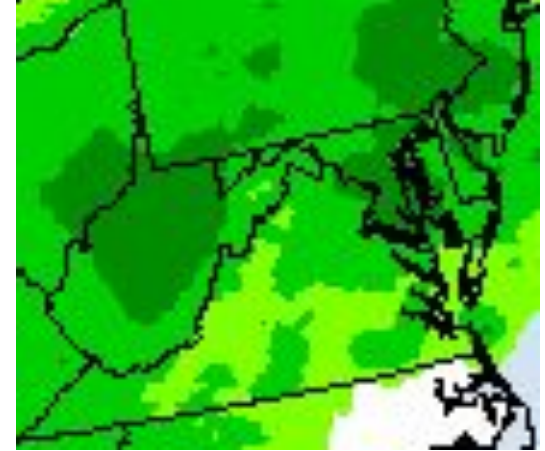
Wednesday



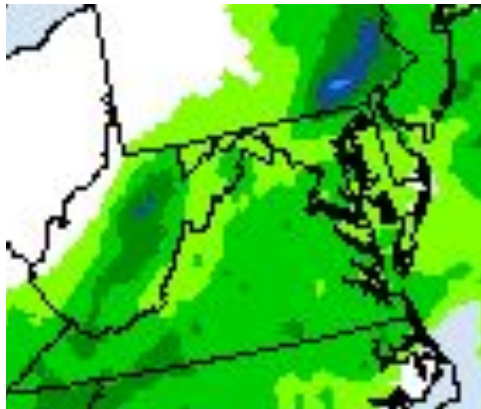
Thursday



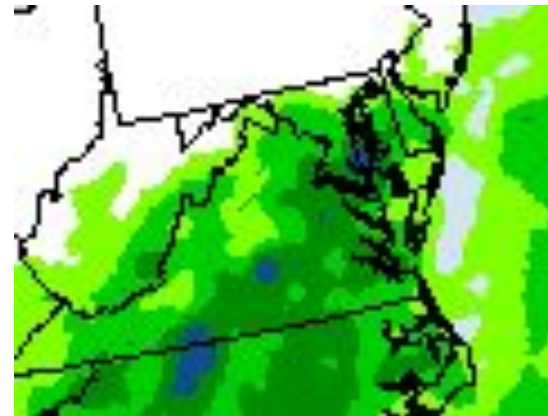
Friday



Saturday

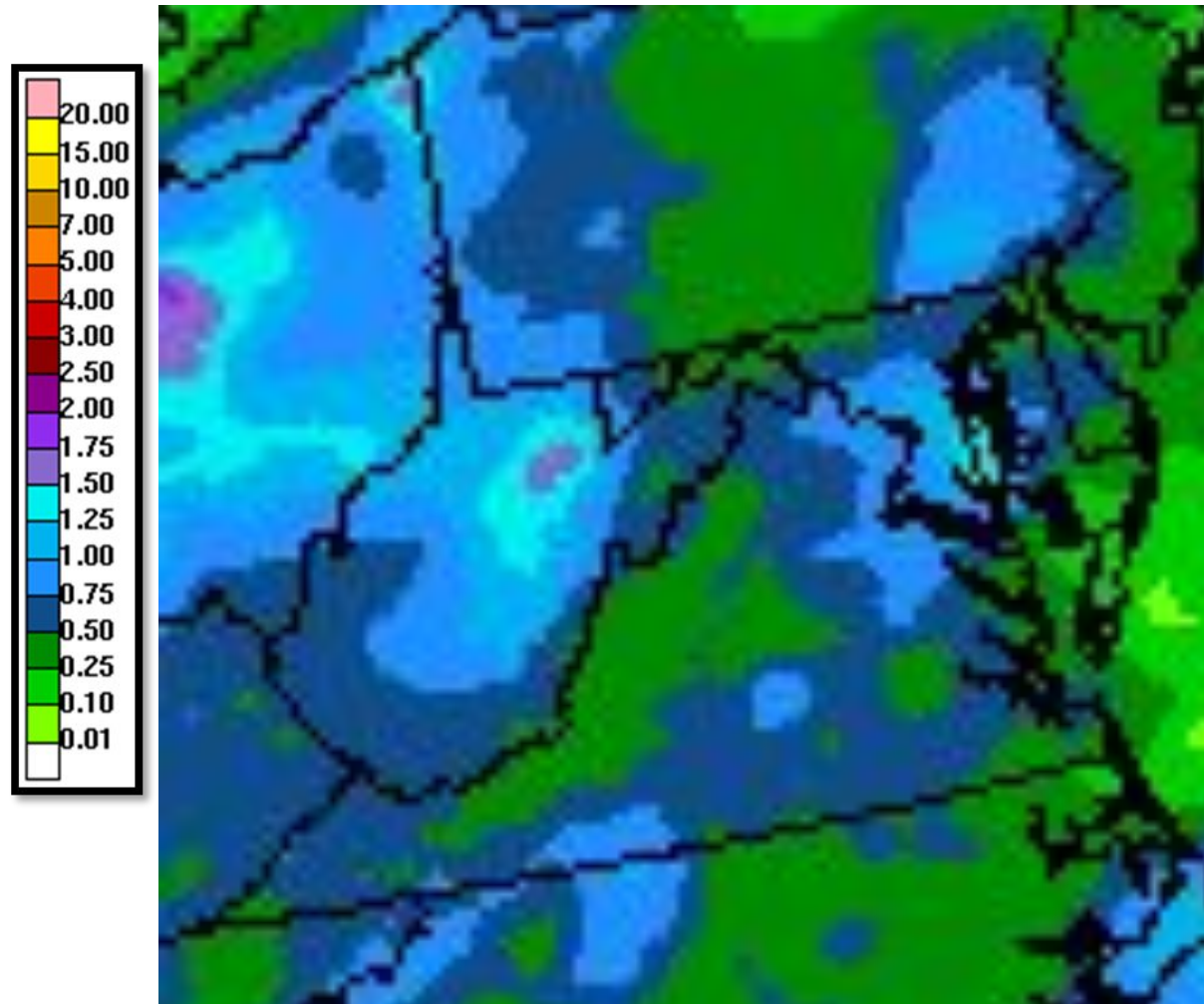


Sunday



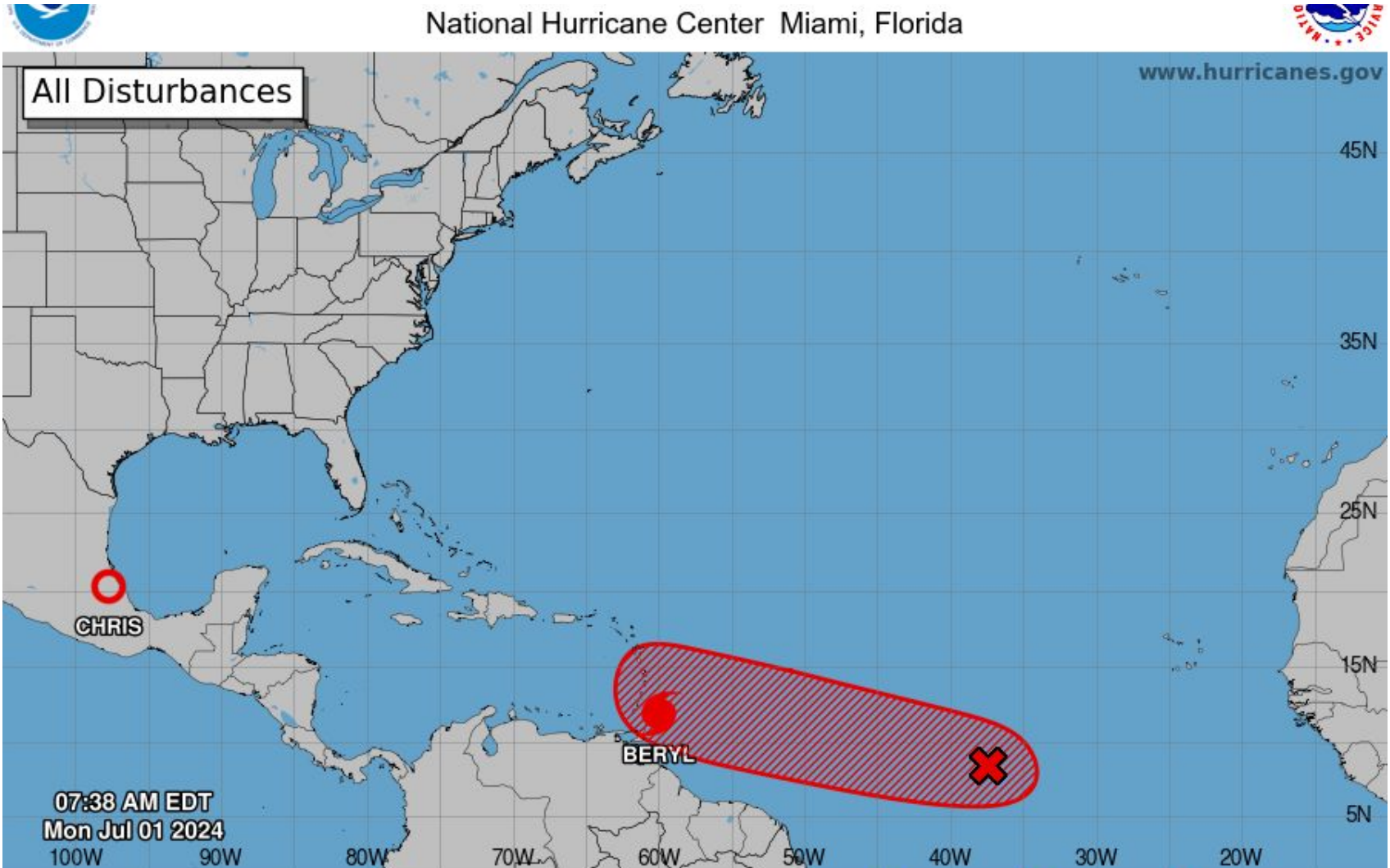
Courtesy of the Weather Prediction Center (www.wpc.ncep.noaa.gov)

Seven-Day Total Precipitation Forecast



Tropical Outlook

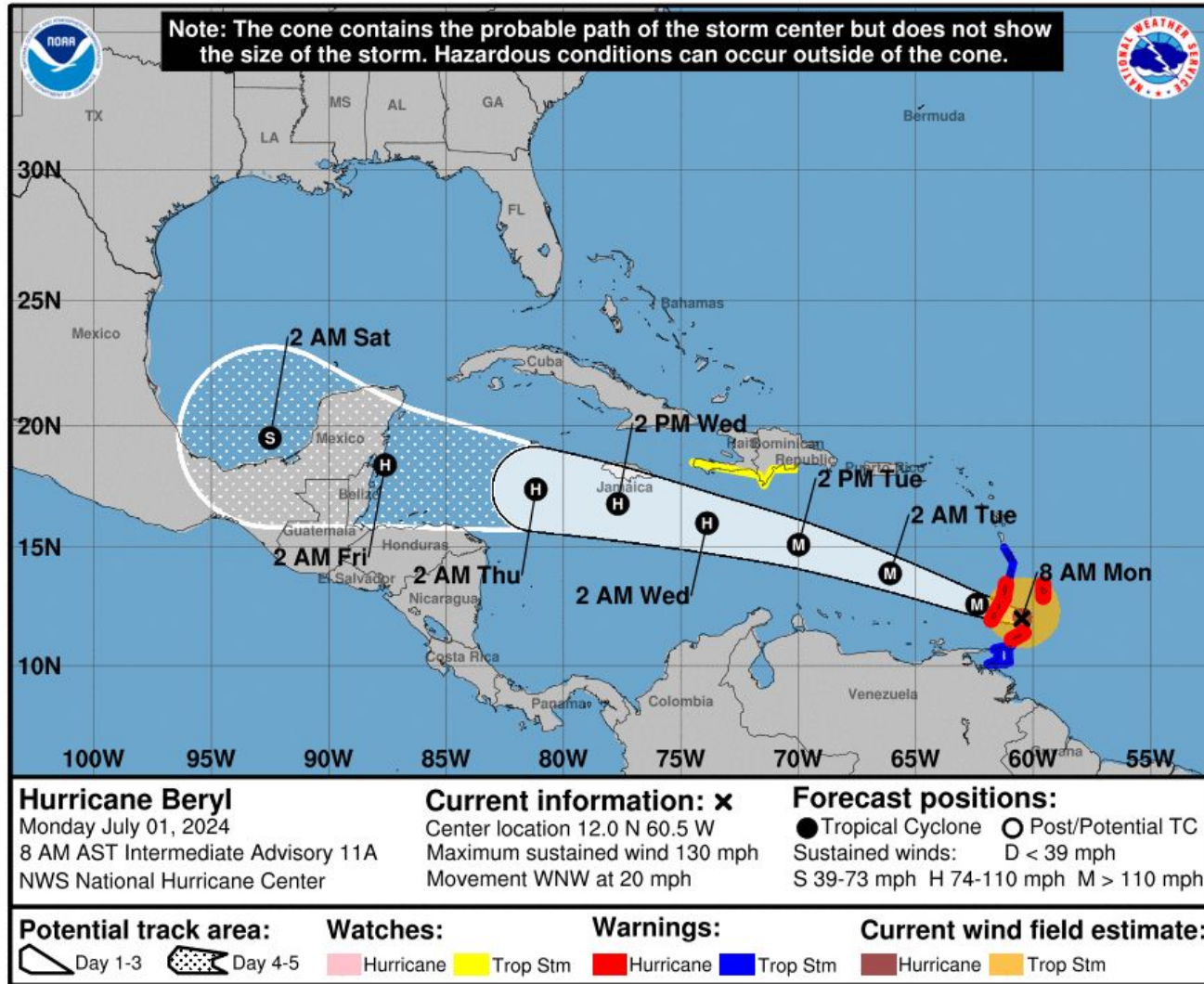
National Hurricane Center Miami, Florida



Current Disturbances and Seven-Day Cyclone Formation Chance: < 40% 40-60% > 60%
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Courtesy of the National Hurricane Center (www.nhc.noaa.gov)

Hurricane Beryl



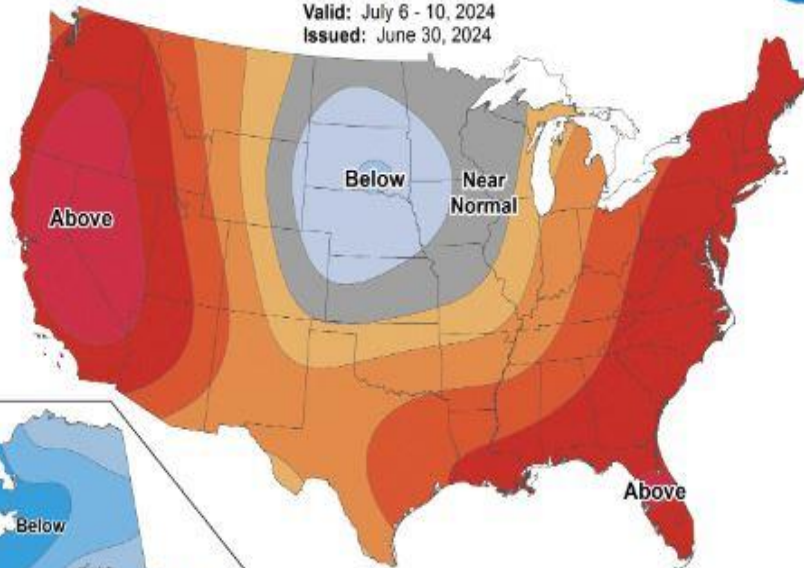
6-10 Day Outlook

Temperature

Precipitation

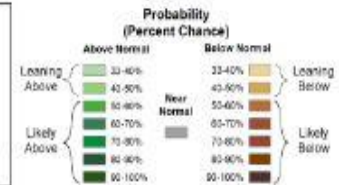
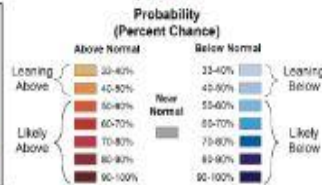
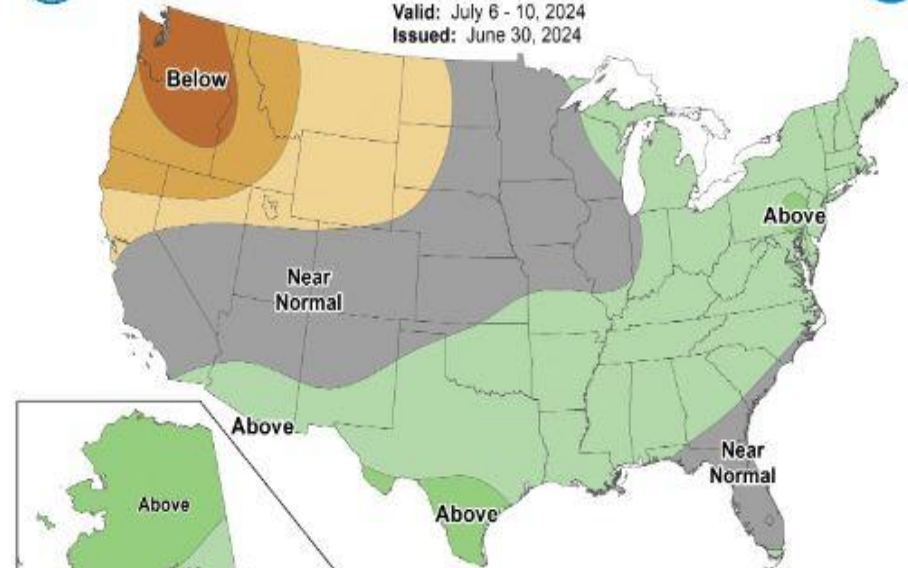
6-10 Day Temperature Outlook

Valid: July 6 - 10, 2024
Issued: June 30, 2024



6-10 Day Precipitation Outlook

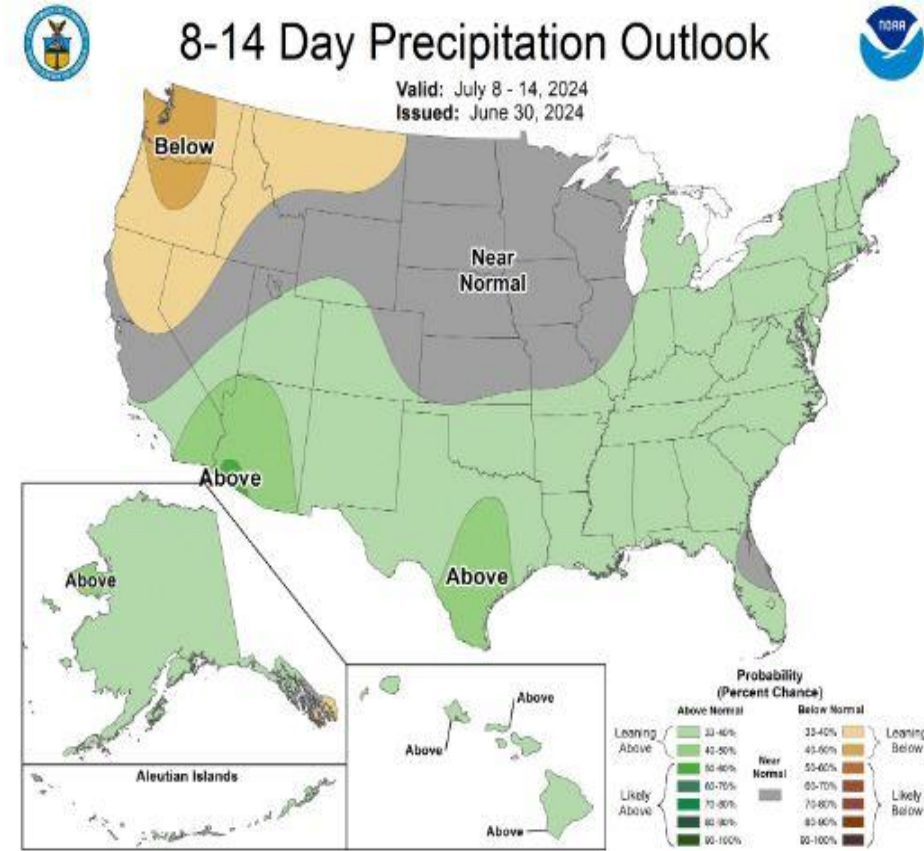
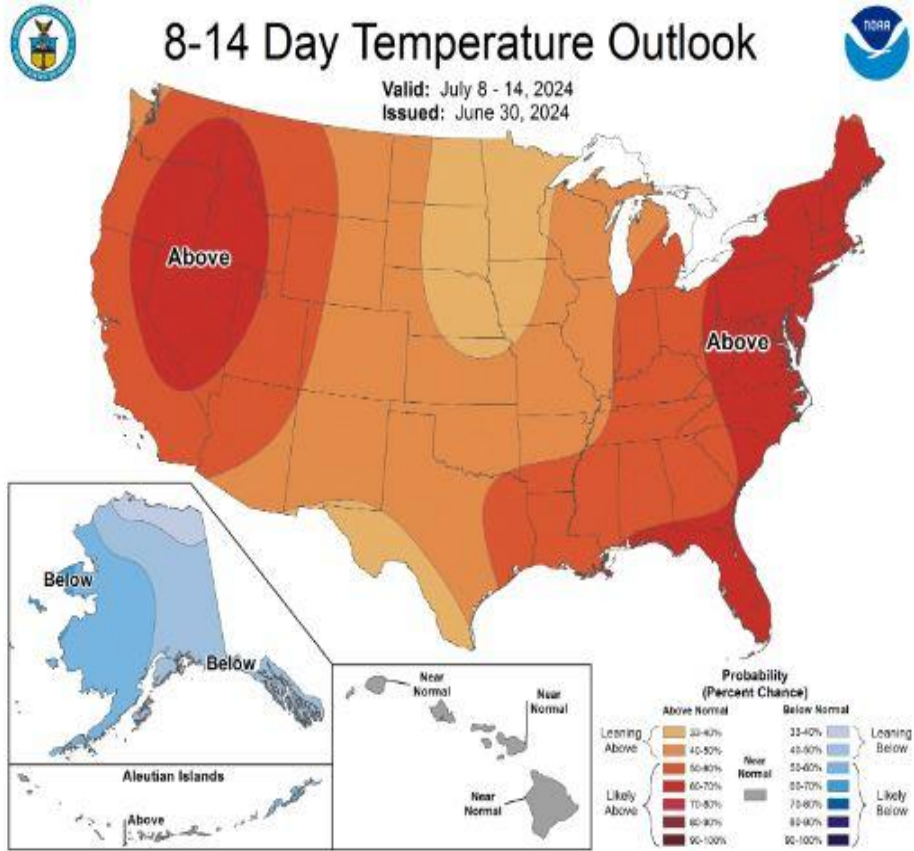
Valid: July 6 - 10, 2024
Issued: June 30, 2024



8-14 Day Outlook

Temperature

Precipitation



8-14 Day Hazards: July 8-14, 2024

Day 8-14 U.S. Hazards Outlook
Valid: 07/06/2024-07/12/2024



Climate Prediction Center

Made: 06/28/2024 3PM EDT

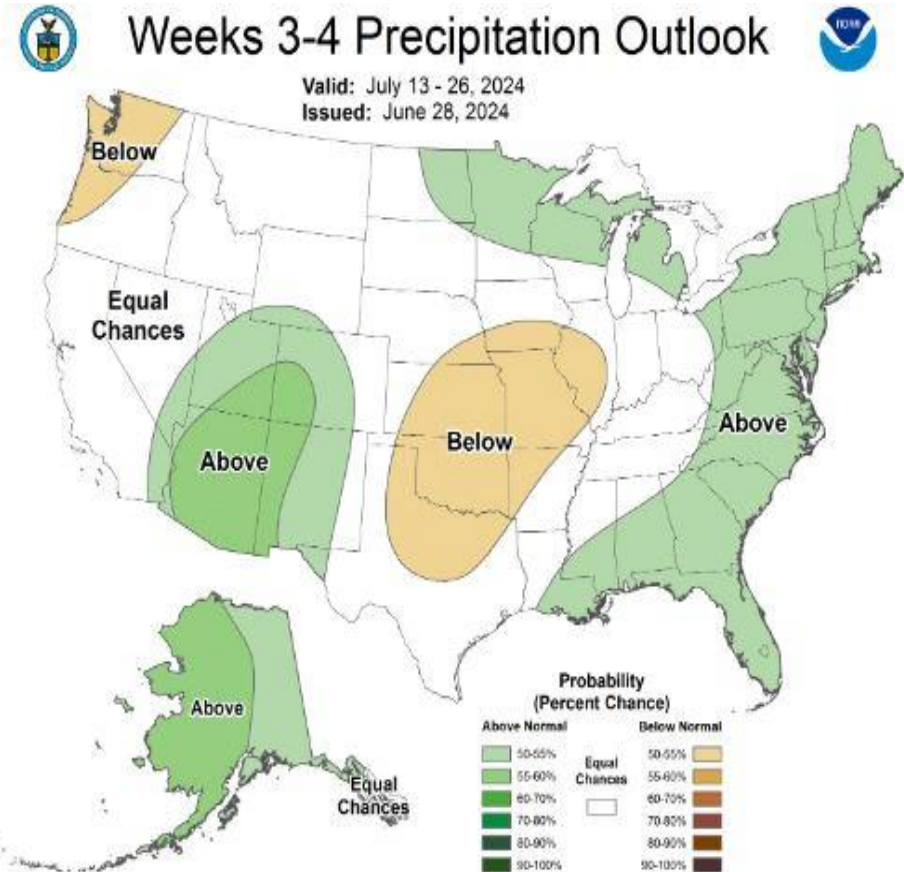
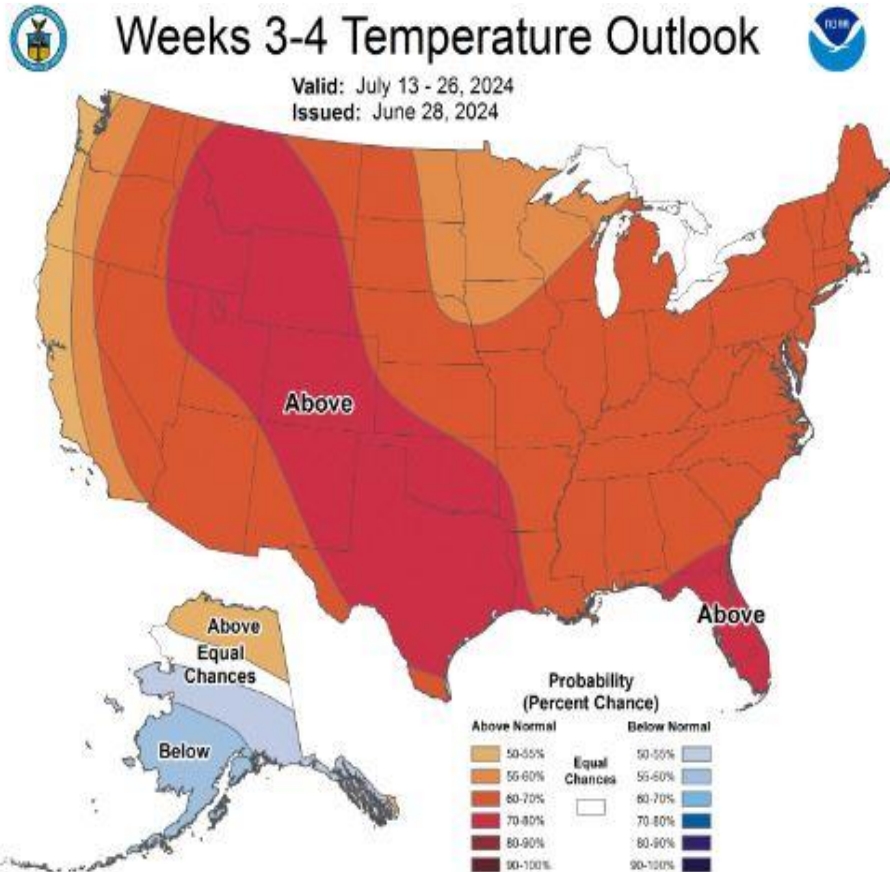
Follow us:

www.cpc.ncep.noaa.gov

3-4 Week Outlook

Temperature

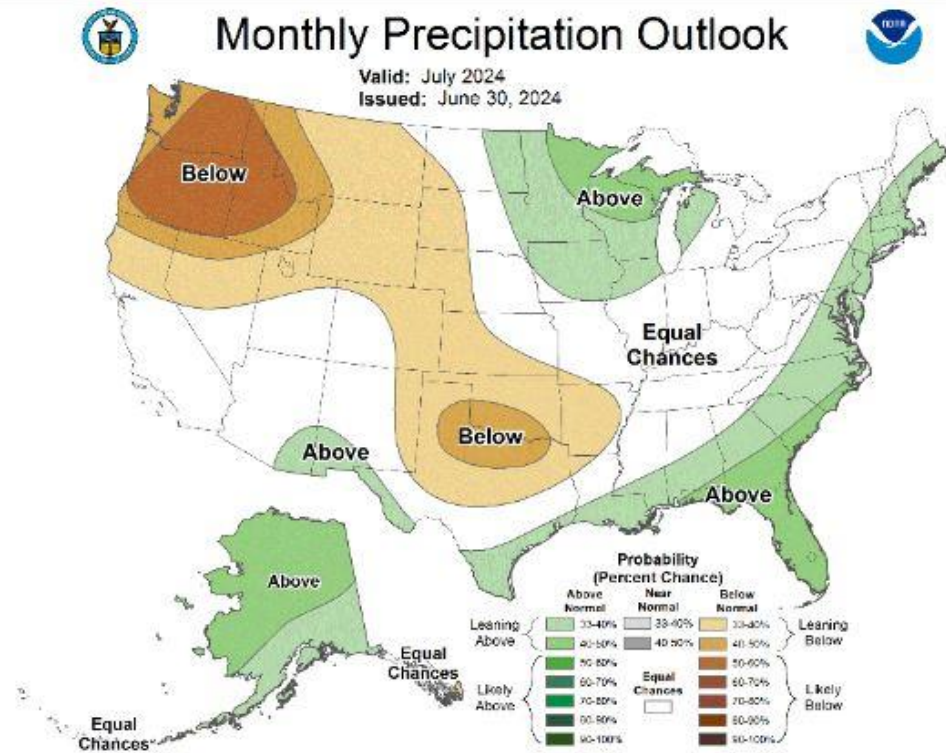
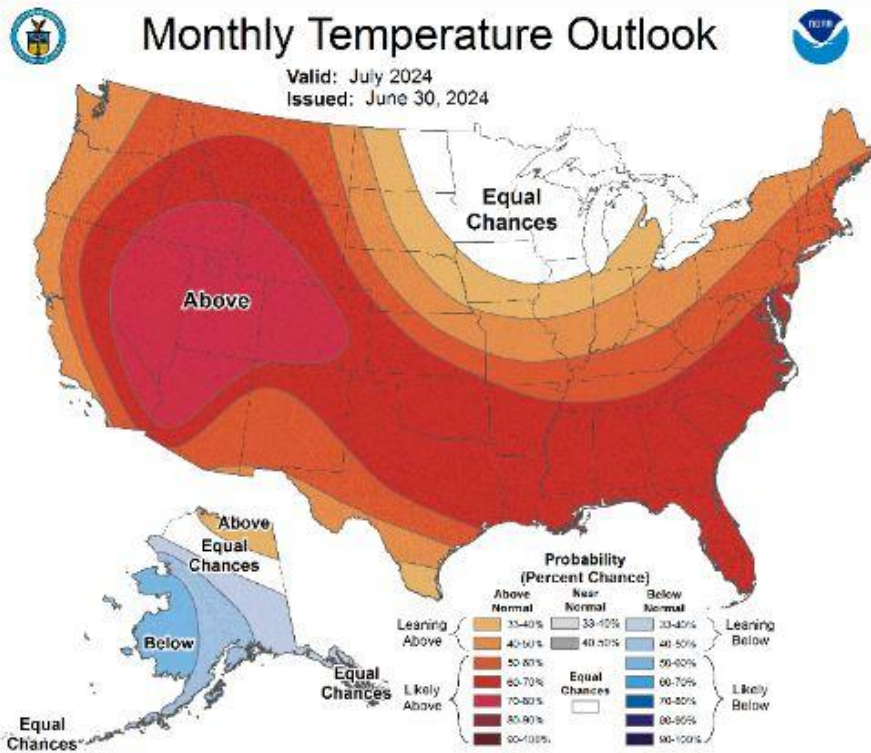
Precipitation



One-Month Outlook: July 2024

Temperature

Precipitation

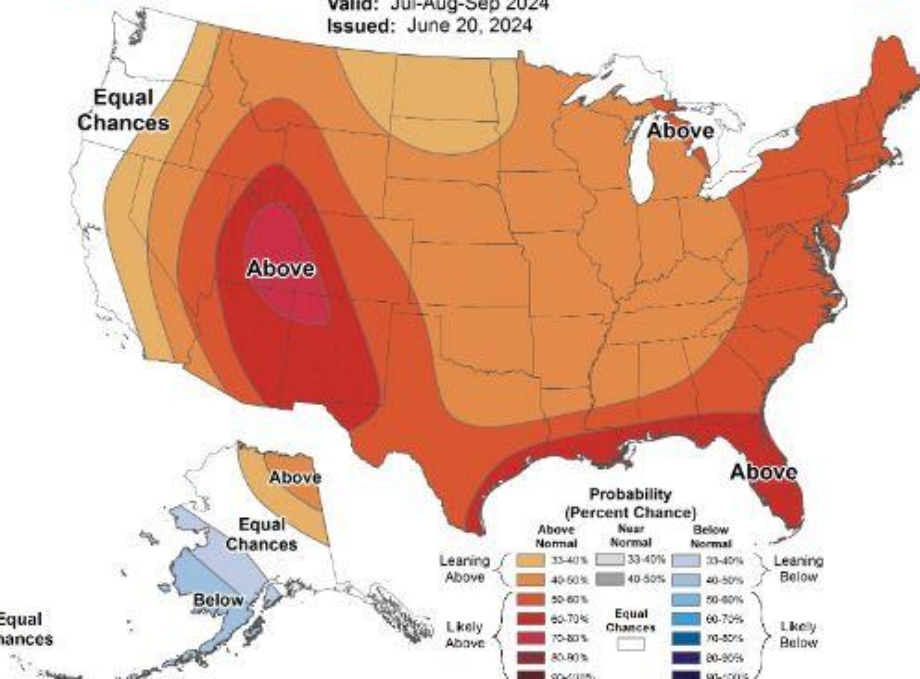


Three-Month Outlook: Jul-Aug-Sep 2024

Temperature

Seasonal Temperature Outlook

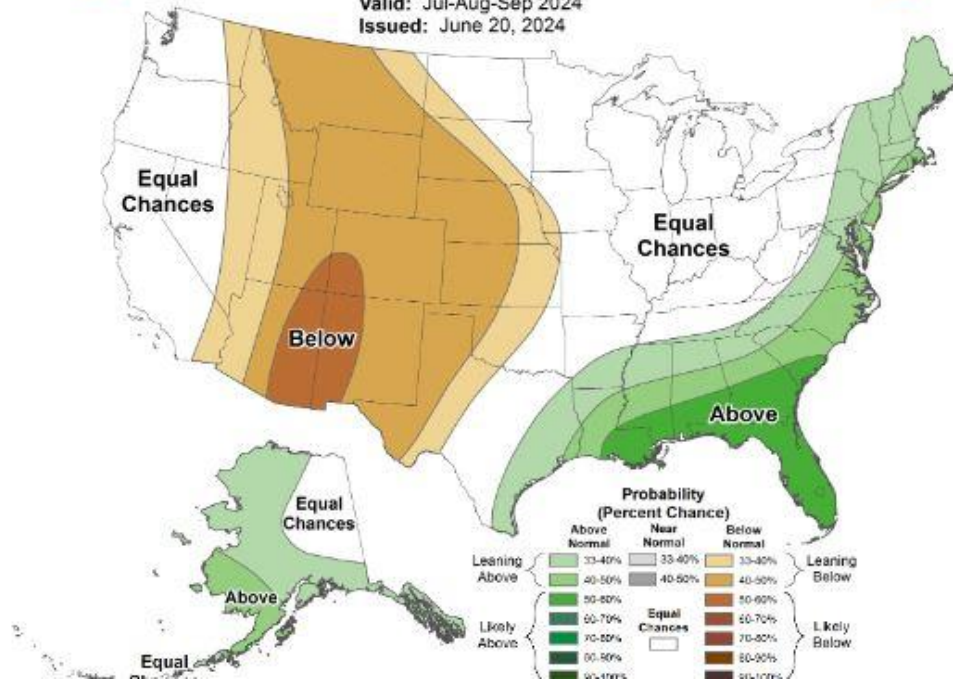
Valid: Jul-Aug-Sep 2024
Issued: June 20, 2024



Precipitation

Seasonal Precipitation Outlook

Valid: Jul-Aug-Sep 2024
Issued: June 20, 2024

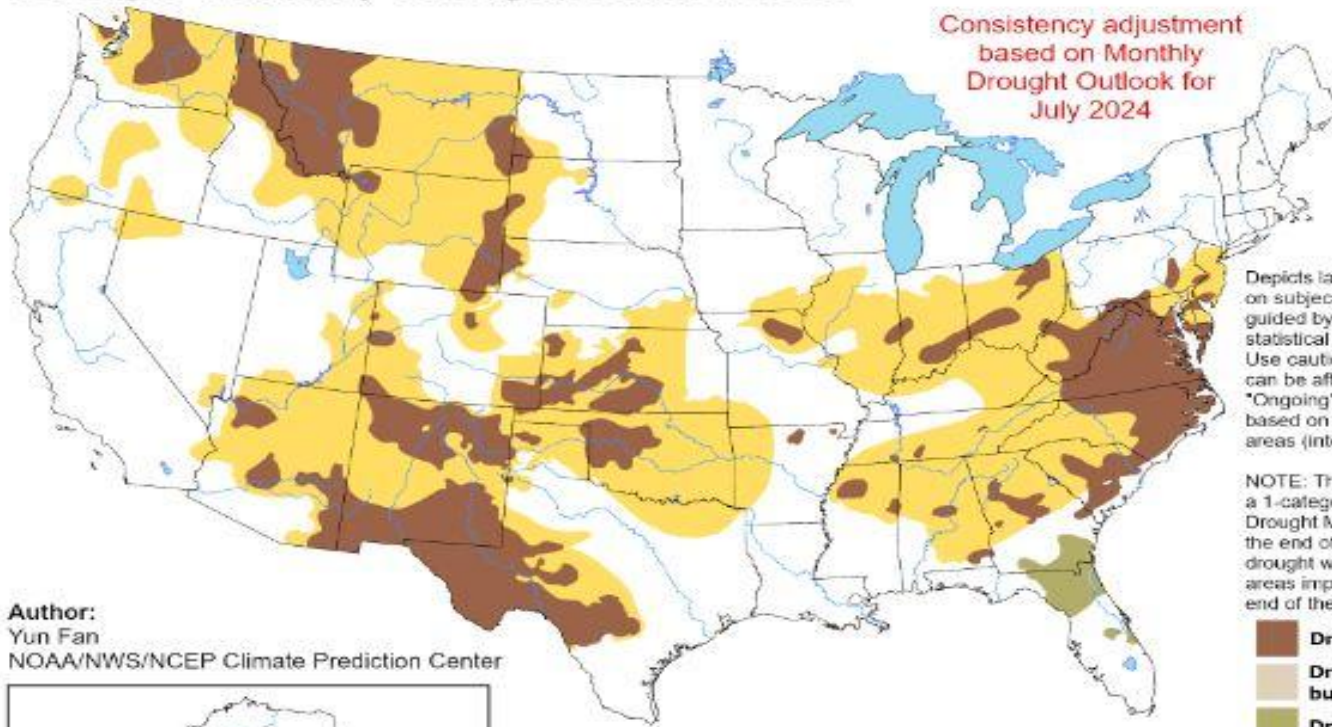


Monthly Drought Outlook: Jul/Aug/Sep 2024

U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period

Valid for July 1 - September 30, 2024
Released June 30, 2024

Consistency adjustment
based on Monthly
Drought Outlook for
July 2024

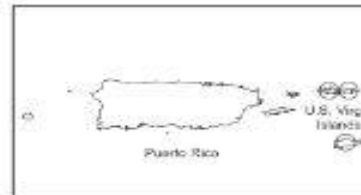
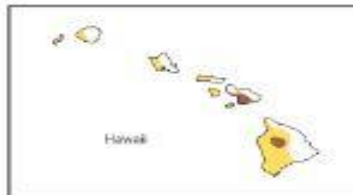


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought

Author:
Yun Fan
NOAA/NWS/NCEP Climate Prediction Center



<https://go.usa.gov/3eZ73>