

From: "Christopher Melmer" <cmelmer@warrentonva.gov>
Sent: Fri, 31 May 2024 20:57:44 +0000
To: "John Ward" <jward@warrentonva.gov>; "Johnny Switzer" <jswitzer@warrentonva.gov>; "Jonathan Stewart" <JStewart@warrentonva.gov>; "Kelly Koernig" <kkoernig@warrentonva.gov>; "Lyndie Paul" <lpaul@warrentonva.gov>; "Rob Walton" <rwalton@warrentonva.gov>; "Stephanie Miller" <smiller@warrentonva.gov>; "Stephen Clough" <sclough@warrentonva.gov>; "Steven Friend" <sfriend@warrentonva.gov>; "Timothy Carter" <tcarter@warrentonva.gov>
Cc: "Frank Cassidy" <fcassidy@warrentonva.gov>; "Kasey Braun" <kbraun@warrentonva.gov>
Subject: FYSA - 2024 Hurricane Season

Good afternoon everyone,

With the onset of the 2024 Hurricane Season upon us, I wanted to provide you with the current predictions for your situational awareness. The purpose of this email is wholly informational, there are no active hazardous weather threats at this time.

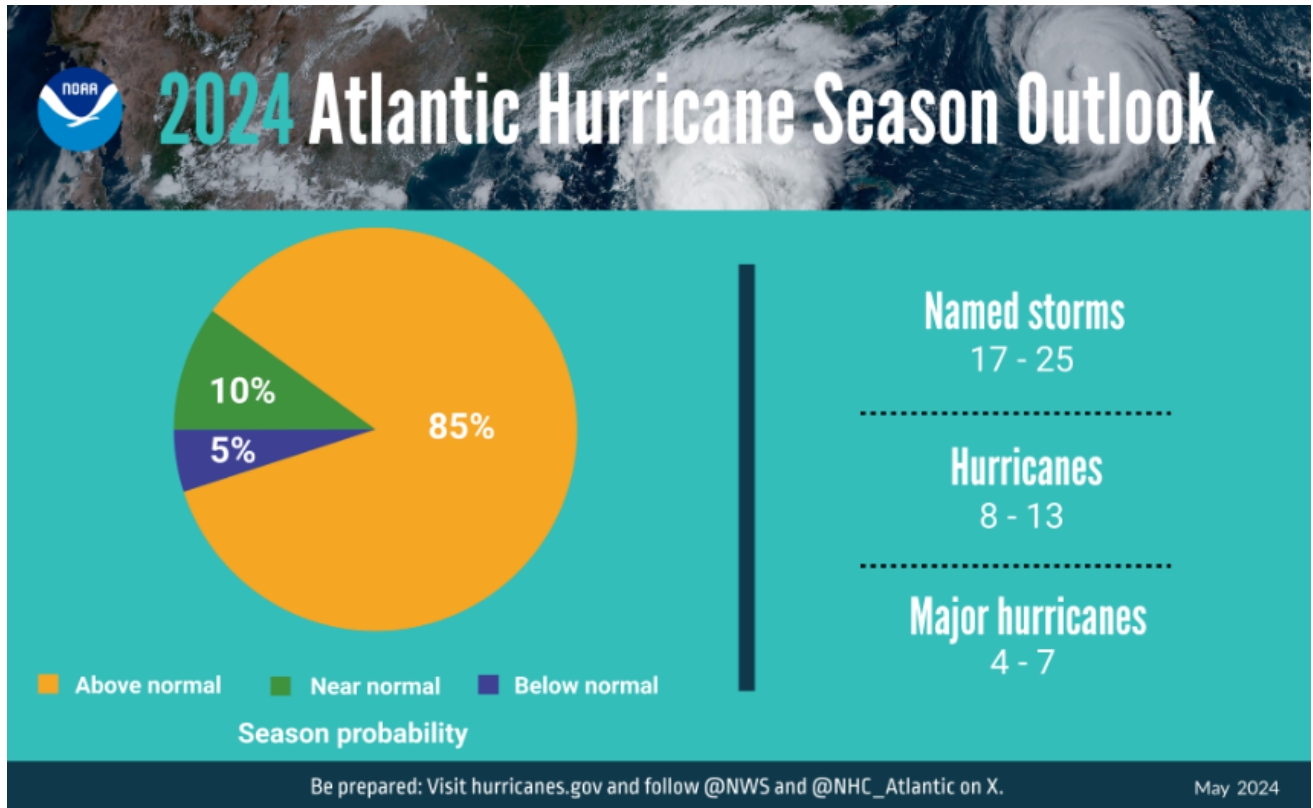
NOAA forecasters at the Climate Prediction Center predict above-normal hurricane activity in the Atlantic basin for the 2024 hurricane season, which spans from June 1 to November 30. NOAA is predicting an 85% chance of an above-normal season, with a 10% chance of a near-normal season, and a 5% chance of a below-normal season.

The above-normal prediction is due to a confluence of factors including near-record warm ocean temperatures, development of La Nina conditions in the Pacific, reduced Atlantic trade winds, and less wind shear. Or simply put, conditions that tend to favor tropical storm formation. NOAA, with 70% confidence, is forecasting a range of:

- 17 to 25 total named storms capable of producing 39+mph winds
 - Of which, 8 to 13 are forecast to become hurricanes capable of producing 74+mph winds
 - Including 4 to 7 major hurricanes (category 3, 4, or 5) capable of producing 111+mph winds

Historical events in Virginia have shown that inland communities are not inherently preserved from the threats or dangers presented by tropical storms. If a tropical storm develops and the path approaches or passes through Warrenton, we are most likely to see instances of heavy rainfall, flooding, and straight-line wind events. However, flash flooding and tornado formations are possible and cannot be ruled out.

Please keep this information in mind as we continue to assess response capabilities and plan proactive mitigation measures for safeguarding lives and property from natural disasters.



Christopher Melmer

Emergency Services and Risk Manager



21 Main Street | Warrenton, VA 20186

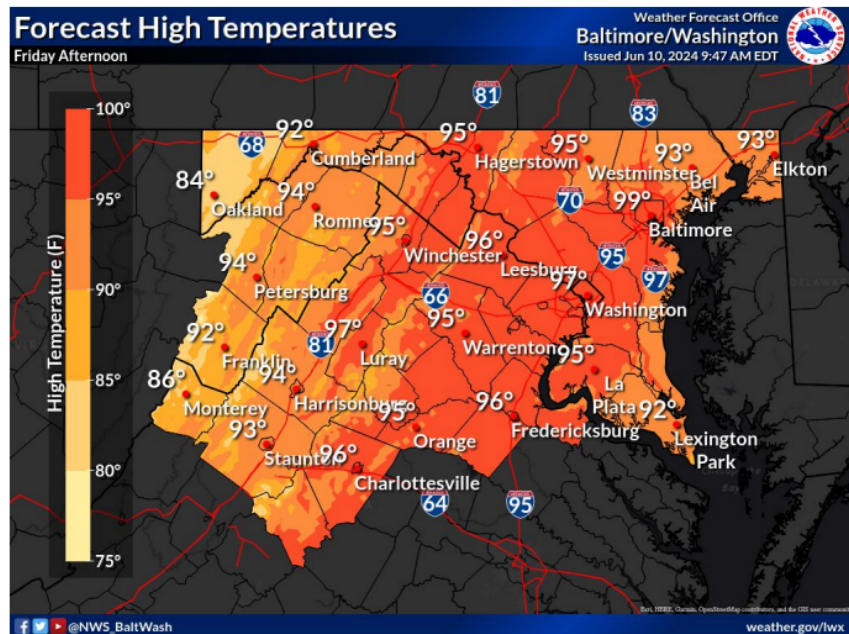
(O): 540.347.1101 Ext. 225

(C): 540.341.9668

From: "Christopher Melmer" <cmelmer@warrentonva.gov>
Sent: Thu, 13 Jun 2024 20:52:05 +0000
To: "John Ward" <jward@warrentonva.gov>; "Johnny Switzer" <jswitzer@warrentonva.gov>; "Jonathan Stewart" <JStewart@warrentonva.gov>; "Kelly Koernig" <kkoernig@warrentonva.gov>; "Lyndie Paul" <lpaul@warrentonva.gov>; "Rob Walton" <rwalton@warrentonva.gov>; "Stephanie Miller" <smiller@warrentonva.gov>; "Stephen Clough" <sclough@warrentonva.gov>; "Steven Friend" <sfriend@warrentonva.gov>; "Timothy Carter" <tcarter@warrentonva.gov>
Cc: "Frank Cassidy" <fcassidy@warrentonva.gov>; "Kasey Braun" <kbraun@warrentonva.gov>
Subject: 6/14/2024 Hazardous Weather Advisory

Good afternoon everyone,

Please be advised that there is an active Heat Advisory for tomorrow, Friday June 14th. The combination of heat and humidity may create heat indices between 100° and 110° tomorrow. The air quality index is forecasted to be moderate. While moderate air quality is acceptable, there may be a risk for some people, particularly those who are unusually sensitive to air pollution.



NWS Heat Index Temperature (°F)

	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
40	80	81	83	85	88	91	94	97	101	105	109	114	119	124	130	136
45	80	82	84	87	89	93	96	100	104	109	114	119	124	130	137	
50	81	83	85	88	91	95	99	103	108	113	118	124	131	137		
55	81	84	86	89	93	97	101	106	112	117	124	130	137			
60	82	84	88	91	95	100	105	110	116	123	129	137				
65	82	85	89	93	98	103	108	114	121	128	136					
70	83	86	90	95	100	105	112	119	126	134						
75	84	88	92	97	103	109	116	124	132							
80	84	89	94	100	106	113	121	129								
85	85	90	96	102	110	117	126	135								
90	86	91	98	105	113	122	131									
95	86	93	100	108	117	127										
100	87	95	103	112	121	132										

Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity

Caution
 Extreme Caution
 Danger
 Extreme Danger

If you have employees who execute their duties outdoors, please advise your supervisors and employees to be mindful of the signs and symptoms of heat-related illnesses:

Heat Exhaustion

ACT FAST

- Move to a cooler area
- Loosen clothing
- Sip cool water
- Seek medical help if symptoms don't improve

Dizziness

Thirst

Heavy Sweating

Nausea

Weakness



Heat Stroke

ACT FAST

CALL

- Move person to a cooler area
- Loosen clothing, remove extra layers
- Cool with water

Confusion

Dizziness

Becomes Unconscious

Heat exhaustion can lead to heat stroke.

Heat stroke can cause death or disability if emergency treatment is delayed.



Stay Cool, Stay Hydrated, Stay Informed!



Please let me know if you have any questions,

Christopher Melmer

Emergency Services and Risk Manager



21 Main Street | Warrenton, VA 20186

(O): 540.347.1101 Ext. 225

(C): 540.341.9668

From: "Christopher Melmer" <cmelmer@warrentonva.gov>
Sent: Mon, 17 Jun 2024 18:27:23 +0000
To: "John Ward" <jward@warrentonva.gov>; "Johnny Switzer" <jswitzer@warrentonva.gov>; "Jonathan Stewart" <JStewart@warrentonva.gov>; "Kelly Koernig" <kkoernig@warrentonva.gov>; "Lyndie Paul" <lpaul@warrentonva.gov>; "Rob Walton" <rwalton@warrentonva.gov>; "Stephanie Miller" <smiller@warrentonva.gov>; "Stephen Clough" <sclough@warrentonva.gov>; "Steven Friend" <sfriend@warrentonva.gov>; "Timothy Carter" <tcarter@warrentonva.gov>; "Andrew Arnold" <aarnold@warrentonva.gov>
Cc: "Frank Cassidy" <fcassidy@warrentonva.gov>; "Kasey Braun" <kbraun@warrentonva.gov>
Subject: UPDATE - Welcome Summer - Heat Advisory
Attachments: Monday_EM_Briefing 06-17-24.pdf

Good afternoon everyone,

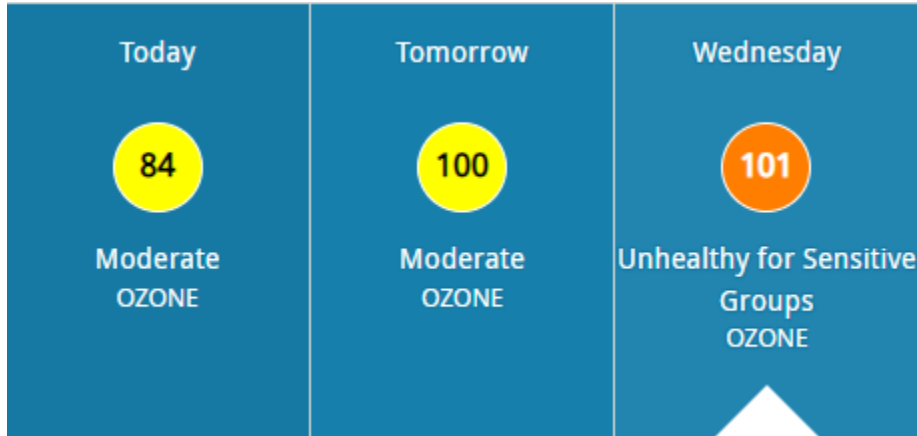
In reference to this week's weather forecast, I may send periodic updates if there are significant change(s) that could impact our employees, services, or events. Following this morning's weather update with the National Weather Service, there is 80% confidence of above normal temperatures.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	06/17	06/18	06/19	06/20	06/21	06/22	06/23
Forecast High	93°	94°	92°	95°	96°	95°	96°
Possible High	98°	101°	99°	98°	98°	100°	100°
Heat Index	100° - 105°	100° - 105°	100° - 105°	100° - 105°	100° - 105°	100° - 106°	100° - 105°

Additional special considerations:

- The UV Index will register very high throughout the week. Protection against sun damage will be needed – sunscreen, hats, sunglasses in addition to the treatment actions listed below.
- Very little rainfall is predicted throughout the week. A lack of precipitation may impact current drought conditions.
- The Air Quality Index for today and tomorrow is moderate for ground-level ozone. While the air quality is acceptable, there may be risk for some people, particularly those are unusually sensitive to air pollution.
- The Air Quality Index for Wednesday, 06/19 will be unhealthy for sensitive groups for ground-level ozone. Members of sensitive groups may experience adverse health effects; however, the general public is less likely to be affected.
 - Ozone Sensitive Groups include:
 - People with lung disease

- Children
- Older adults
- People who are active outdoors
- Particle Sensitive Groups include:
 - People with heart or lung disease
 - Children
 - Older adults



Please let me know if you have any questions,

Christopher Melmer

Emergency Services and Risk Manager



21 Main Street | Warrenton, VA 20186
 (O): 540.347.1101 Ext. 225
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From: Christopher Melmer

Sent: Saturday, June 15, 2024 10:07 AM

To: John Ward <jward@warrentonva.gov>; Johnny Switzer <jswitzer@warrentonva.gov>; Jonathan Stewart <JStewart@warrentonva.gov>; Kelly Koernig <kkoernig@warrentonva.gov>; Lyndie Paul <lpaul@warrentonva.gov>; Rob Walton <rwalton@warrentonva.gov>; Stephanie Miller <smiller@warrentonva.gov>; Stephen Clough <sclough@warrentonva.gov>; Steven Friend <sfriend@warrentonva.gov>; Timothy Carter <tcarter@warrentonva.gov>

Cc: Frank Cassidy <fcassidy@warrentonva.gov>; Kasey Braun <kbraun@warrentonva.gov>

Subject: Welcome Summer - Heat Advisory

Good morning everyone,

In anticipation of the first day of Summer 2024, much of the eastern seaboard is expecting a heat dome to take effect as of Monday, June 17th. A heat dome is a

weather phenomenon consisting of extreme heat that is caused when the atmosphere traps hot ocean air. Simply, a prolonged period of hot temperatures and increasing humidity are expected. Heat indices well into the 90s are expected with lower to mid-100's possible.

As of the now, the forecast for next week predicts:

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	06/17	06/18	06/19	06/20	06/21	06/22	06/23
Forecast High	93°	94°	92°	95°	96°	95°	96°
Possible High	98°	101°	99°	98°	Too soon to reasonably predict		
Heat Index	100° - 105°	100° - 105°	100° - 105°	100° - 105°			

Please remind your supervisors and employees to be aware of the symptoms of heat-related illnesses:

	Heat Cramps	Heat Exhaustion	Heat Stroke
<i>Symptoms</i>	• Muscle cramps • Muscle spasms • Fatigue, weakness	• Heavy sweating • Pale, cool skin • Fast, weak pulse • Nausea, vomiting • Dizziness, fainting	• High body temp (103°F+) • Confusion • Slurred speech • Seizures • Loss of consciousness
<i>Causes</i>	• Dehydration • Electrolyte imbalance • Excessive heat exposure	• Dehydration • Electrolyte imbalance • Excessive heat exposure	• Severe dehydration • Electrolyte imbalance • Prolonged heat exposure
<i>Treatment</i>	• Rest • Hydration • Electrolyte replacement	• Move to a cool place • Remove excess clothing • Apply cool compresses • Provide fluids, electrolytes	• Call 9-1-1 • Cool with cool water • Provide fluids, electrolytes

Heat-Related Illness Prevention:

- Stay hydrated by drinking plenty of water and other electrolyte-based fluids
- Take regular breaks in shaded or air-conditioned areas

- Wear lightweight, loose-fitting clothing
- Monitor body temperatures and seek medical attention if it exceeds 103°F

Please let me know if you have any questions,

Christopher Melmer

Emergency Services and Risk Manager



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(O): 540.347.1101 Ext. 225

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From: "Christopher Melmer" <cmelmer@warrentonva.gov>
Sent: Fri, 21 Jun 2024 20:13:50 +0000
To: "John Ward" <jward@warrentonva.gov>; "Johnny Switzer" <jswitzer@warrentonva.gov>; "Jonathan Stewart" <JStewart@warrentonva.gov>; "Kelly Koernig" <kkoernig@warrentonva.gov>; "Lyndie Paul" <lpaul@warrentonva.gov>; "Rob Walton" <rwalton@warrentonva.gov>; "Stephanie Miller" <smiller@warrentonva.gov>; "Stephen Clough" <sclough@warrentonva.gov>; "Steven Friend" <sfriend@warrentonva.gov>; "Timothy Carter" <tcarter@warrentonva.gov>; "Andrew Arnold" <aarnold@warrentonva.gov>
Cc: "Frank Cassidy" <fcassidy@warrentonva.gov>; "Kasey Braun" <kbraun@warrentonva.gov>
Subject: Excessive Heat Advisory

Good afternoon everyone,

With the most recent update from the National Weather Service, an Excessive Heat Watch has been issued for our region for Saturday, June 22nd and Sunday, June 23rd. Oppressive heat and humidity will overspread the region. The temperature will peak throughout each afternoon and into the evening hours with heat indices ranging between 100° and 110°. Additionally, little relief from the heat is expected during the overnight hours on Saturday. The air quality index will be moderate for ground-level ozone pollutants. While this air quality is acceptable, there may be some risk for people who are unusually sensitive to air pollution.

In collaboration with Fauquier County Emergency Management, if the need exists to find a cool place to relax, we suggest the following:

- Visit Town and County recreation facilities
- Swimming pools or other water-related venues
- Libraries
- Movie theaters
- Restaurants
- Shopping centers

Ways to Protect Yourself:

- Drink cold water even if not thirsty – at least 1 cup every 20 minutes
- Take rest breaks to recover from the heat given the temperature, humidity, and conditions
- Find shade or a cool area to take breaks in
- Dress for the heat by wearing a hat, loose-fitting and breathable clothing
- Watch out for each other

For those that must work outdoors in the forecasted conditions, please be cognizant of the signs and symptoms of heat-related illnesses for yourself, your coworkers, and the public:

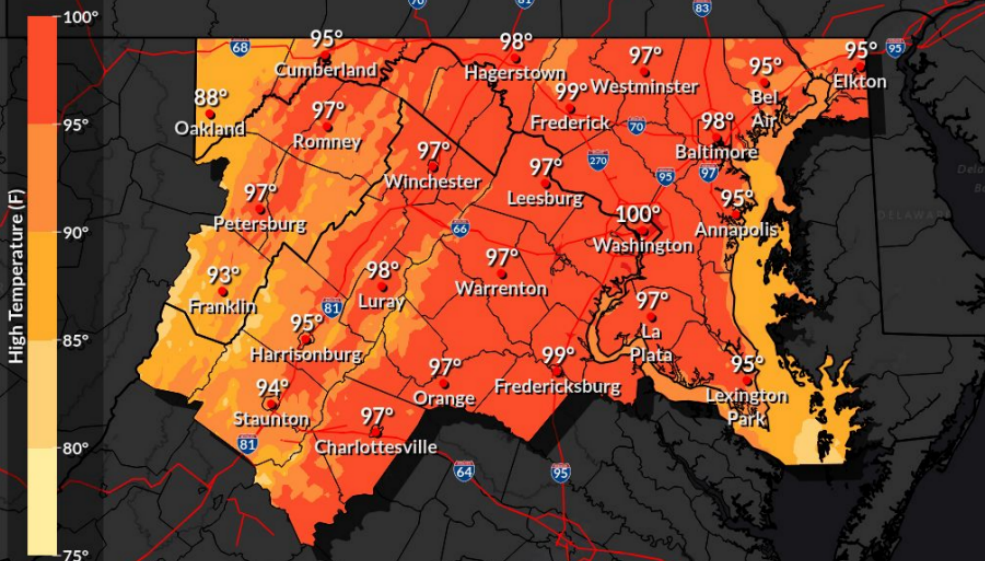
	Heat Cramps	Heat Exhaustion	Heat Stroke
<i>Symptoms</i>	• Muscle cramps • Muscle spasms • Fatigue, weakness	• Heavy sweating • Pale, cool skin • Fast, weak pulse • Nausea, vomiting • Dizziness, fainting	• High body temp (103°F+) • Confusion • Slurred speech • Seizures • Loss of consciousness
<i>Causes</i>	• Dehydration • Electrolyte imbalance • Excessive heat exposure	• Dehydration • Electrolyte imbalance • Excessive heat exposure	• Severe dehydration • Electrolyte imbalance • Prolonged heat exposure
<i>Treatment</i>	• Rest • Hydration • Electrolyte replacement	• Move to a cool place • Remove excess clothing • Apply cool compresses • Provide fluids, electrolytes	• Call 9-1-1 • Cool with cool water • Provide fluids, electrolytes

Tomorrow's High Temperature

Valid Sat 8:00AM through Sat 9:00PM EDT

Weather Forecast Office
Baltimore/Washington

Issued Jun 21, 2024 9:06 AM EDT

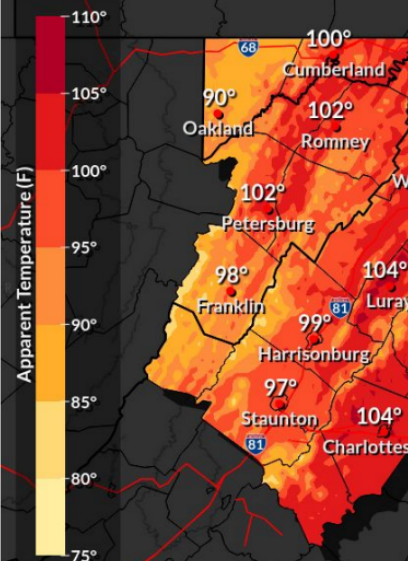


@NWS_BaltWash

weather.gov/lwx

Tomorrow's Maximum Heat Index

Valid Sat 6:00AM through Sat 6:00PM EDT



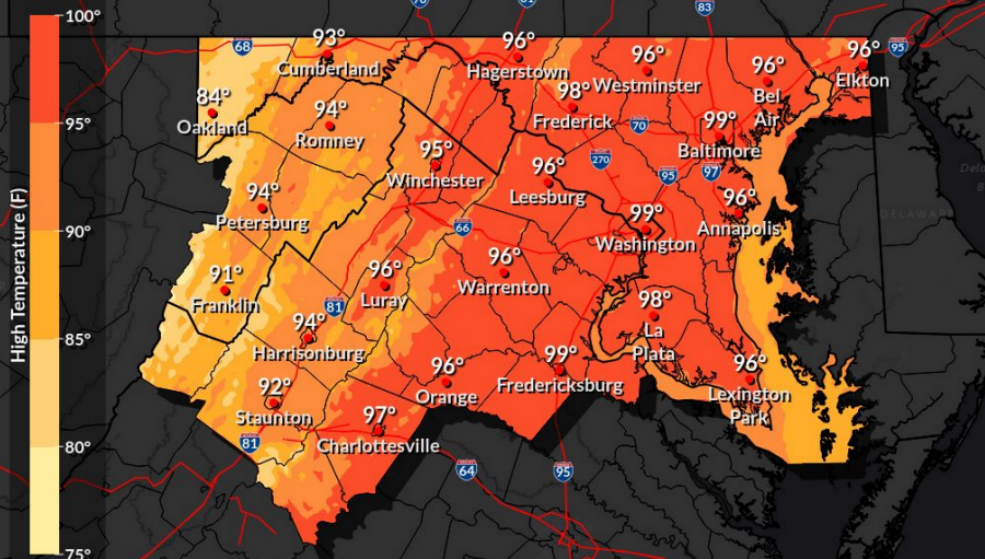
@NWS_BaltWash

High Temperature Sunday

Valid Sun 8:00AM through Sun 9:00PM EDT

Weather Forecast Office
Baltimore/Washington

Issued Jun 21, 2024 9:06 AM EDT

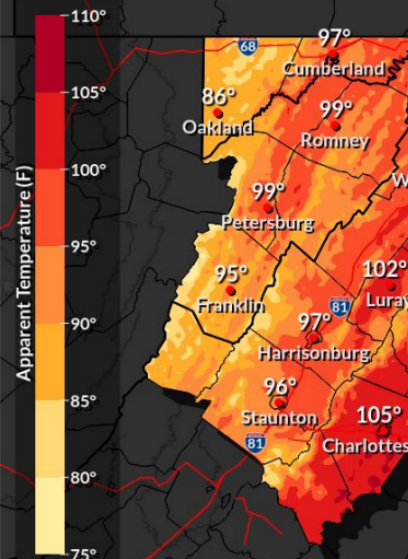


@NWS_BaltWash

weather.gov/lwx

Maximum Heat Index

Valid Sun 6:00AM through Mon 6:00AM EDT



@NWS_BaltWash

Air Quality Forecast

Today	Tomorrow	Sunday	Monday	
				
Good PM2.5	Moderate OZONE	Moderate OZONE	Moderate OZONE	

Should an emergency, workplace accident, or injury arise – please contact me immediately so we can initiate the necessary actions to ensure everyone's safety. If you have any questions, please let me know,

Christopher Melmer

Emergency Services and Risk Manager



21 Main Street | Warrenton, VA 20186
(O): 540.347.1101 Ext. 225
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From: "Christopher Melmer" <cmelmer@warrentonva.gov>
Sent: Tue, 25 Jun 2024 17:24:12 +0000
To: "John Ward" <jward@warrentonva.gov>; "Johnny Switzer" <jswitzer@warrentonva.gov>; "Jonathan Stewart" <JStewart@warrentonva.gov>; "Kelly Koernig" <kkoernig@warrentonva.gov>; "Lyndie Paul" <lpaul@warrentonva.gov>; "Rob Walton" <rwalton@warrentonva.gov>; "Stephanie Miller" <smiller@warrentonva.gov>; "Stephen Clough" <sclough@warrentonva.gov>; "Timothy Carter" <tcarter@warrentonva.gov>
Cc: "Frank Cassidy" <fcassidy@warrentonva.gov>; "Steven Friend" <sfriend@warrentonva.gov>; "Kasey Braun" <kbraun@warrentonva.gov>
Subject: 2024 Drought Warning Declaration
Attachments: VA Drought Assessment Response Plan.pdf, DMTF Report 6.20.24.pdf

Good afternoon,

As of Thursday, June 20, 2024, the Virginia Drought Monitoring Task Force (DMTF) convened to discuss drought indicators that have surfaced across the Commonwealth. Precipitation deficits in combination with the extreme temperatures of the previously warned heat dome have intensified drought conditions. The 8-14 day outlook forecasts continued above-average temperatures with below-normal precipitation levels that will continue to further intensify these drought conditions.

One of the predominant concerns is the onset of a flash drought between June 27th and July 3rd. A flash drought is the rapid onset or intensification of drought. It is attributable to lower-than-normal rates of precipitation coupled with abnormally high temperatures, wind, and radiation. These sustained higher temperatures increase evapotranspiration and further lowers soil moisture.

Based on its geographic location, Warrenton is on the cusp of a D1 moderate drought. The Warrenton Meteorological Station has recorded 0.24 inches of rain over the last 30-day period. On review of our current conditions, ground water levels remain steady. Surface water levels are as follows:

- **Current**
 - Airlie – 488.7
 - Warrenton – 444.0
- **Overflow**
 - Airlie – 488.8
 - Warrenton – 445.3

I have attached the most recent *DMTF Report* and the *Virginia Drought Assessment and Response Plan* for review as needed. The DMTF is set to re-evaluate statewide conditions on July 01, 2024. All updates will be communicated accordingly.

Warrenton Meteorological Station

Fauquier
Online 6/25/2024, 11:00:00

Type	24hr Accum.	Intensity	Wind Speed	Wind Dir.	Air Temp.
None	None	None	Calm	WSW	Hot
	0 in	0 in/hr	6.24 mph		81.48 °F
Precipitation Accumulation (in)					
1hr	3hr	6hr	12hr	24hr	3d
0.00	0.00	0.00	0.00	0.00	0.02

Intensity:

None

D0 (Abnormally Dry)

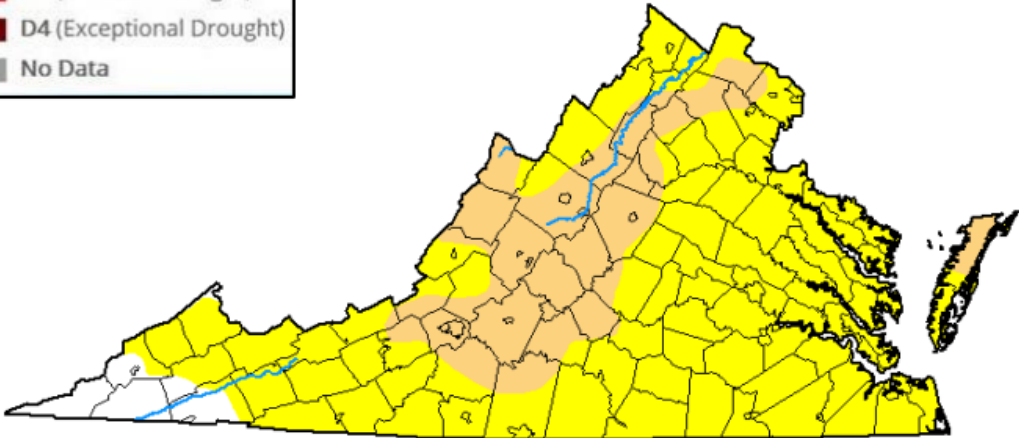
D1 (Moderate Drought)

D2 (Severe Drought)

D3 (Extreme Drought)

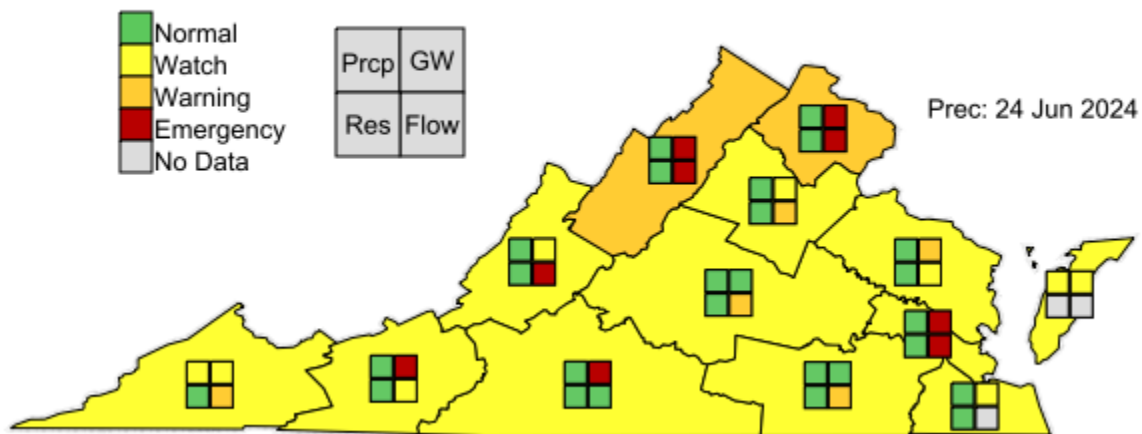
D4 (Exceptional Drought)

No Data



Potential Impacts

Category	
D0	Crop growth is stunted; planting
	Fire danger is elevated; spring fi
	Lawns brown early; gardens beg
	Surface water levels decline
D1	Irrigation use increases; hay and
	Honey production declines
	Wildfires and ground fires incre
	Trees and landscaping are stres
D2	Voluntary water conservation is
	Specially crops are impacted in
	Producers begin feeding cattle;
	Warnings are issued on outdoor
D3	Golf courses conserve water
	Trees are brittle and susceptibl
	Fish kills occur; wildlife move to
	Water quality is poor; groundwa



Christopher Melmer

Emergency Services and Risk Manager



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