



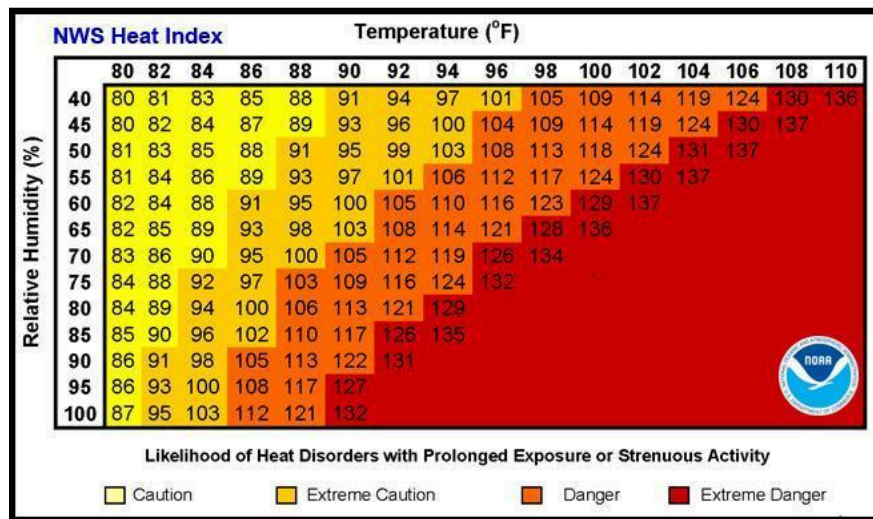
# National Weather Service

## Definitions for New York State



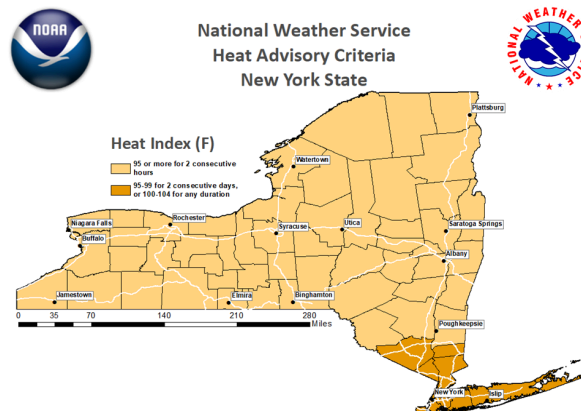
## EXTREME HEAT

**HEAT INDEX (APPARENT TEMPERATURE)** is what the temperature “**feels like**” based on both air temperature and humidity. This index was devised for shady, light wind conditions. Exposure to full sunshine can increase Heat Index values by up to 15°F.



### HEAT ADVISORY: Dangerous heat conditions are expected

- Heat Indices of 95 degrees or more for 2 consecutive hours
  - New York State excluding the Lower Hudson Valley, New York City & Long Island
- Heat Indices 95-99 degrees for 2 consecutive days or 100-104 degrees for any duration
  - Lower Hudson Valley, New York City and Long Island





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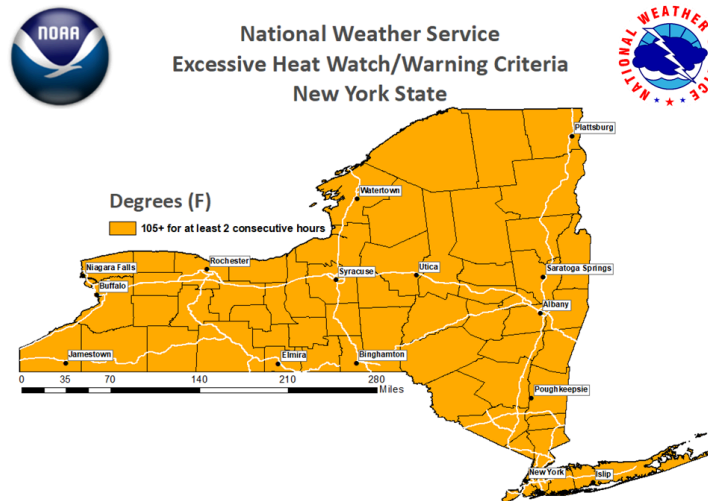


### EXTREME HEAT

**EXCESSIVE HEAT WATCH:** Extremely dangerous heat conditions are **possible**

**EXCESSIVE HEAT WARNING:** Extremely dangerous heat conditions are **expected**

- Heat indices of 105+ degrees for at least 2 consecutive hours



Heat Exhaustion	Heat Stroke
<p><b>ACT FAST</b></p> <ul style="list-style-type: none"><li>• Move to a cooler area</li><li>• Loosen clothing</li><li>• Sip cool water</li><li>• Seek medical help if symptoms don't improve</li></ul>	<p><b>ACT FAST</b></p> <p><b>CALL 911</b></p> <ul style="list-style-type: none"><li>• Move person to a cooler area</li><li>• Loosen clothing and remove extra layers</li><li>• Cool with water or ice</li></ul>
<p><i>Dizziness</i></p> <p><i>Thirst</i></p> <p><i>Heavy Sweating</i></p> <p><i>Nausea</i></p> <p><i>Weakness</i></p>	<p><i>Confusion</i></p> <p><i>Dizziness</i></p> <p><i>Becomes Unconscious</i></p>
<p><i>Heat exhaustion can lead to heat stroke.</i></p>	<p><i>Heat stroke can cause death or permanent disability if emergency treatment is not given.</i></p>

Stay Cool, Stay Hydrated, Stay Informed!



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### EXTREME HEAT

**NWS HeatRisk** - is an **experimental** color-numeric-based index that provides a forecast risk of heat-related impacts to occur over a 24-hour period.

It takes into consideration:

- How unusual the heat is for the time of the year
- The duration of the heat including both daytime and nighttime temperatures
- If those temperatures pose an elevated risk of heat-related impacts based on data from the CDC

Humidity plays a significant role in making warm temperatures feel even more oppressive. Unfortunately, there are not an adequate number of weather stations across the country which report humidity values for a long enough period of time to be used directly in the HeatRisk approach. But there are many more stations that report temperature. Because of this, we use well known physical relationships of temperature to dew point temperature (humidity) to approximate the role of humid air. This is done by considering:

- How unusually warm the overnight temperatures are (more humid air usually leads to warmer overnight low temperatures than are typical for an area, even traditionally humid areas)
- How large the difference is between overnight lows and daytime high temperatures (the difference tends to be larger the less humid the air is).

**WET BULB GLOBAL TEMPERATURE (WBGT)** - Measures heat stress on the body in direct sunlight taking into account: temperature, dewpoint (humidity), wind and sky cover. It's designed for acclimatized, active, outdoor communities such as outdoor workers.

HOW DOES WBGT differ from HEAT INDEX			
	WBGT	HEAT INDEX	
Measured in the sun	●	●	
Measured in the shade	●	●	
Uses temperature	●	●	
Uses relative humidity	●	●	
Uses wind	●	●	
Uses cloud cover	●	●	
Uses sun angle	●	●	

**WET BULB GLOBE TEMPERATURE**  
The Wet Bulb Globe Temperature (WBGT) is a parameter that estimates the effect of temperature, relative humidity, wind, and solar radiation on humans.

**HEAT INDEX**  
The traditional measure of what the temperature feels like to the human body when relative humidity is combined with the air temperature, also known as apparent temperature.

