



# Hot & Humid Plus Severe Potential Wednesday

August 27, 2024  
5:42 AM

Heat Advisory in Effect 11AM to 8PM Wednesday for much of NE NJ, NYC, Rockland NY, Westchester NY, and Northern Nassau NY

## Key Messages

- Hot and humid conditions will result in maximum heat index values of 100 to 103 Wednesday within the heat advisory area.
- There is a chance of severe thunderstorms across the area Wednesday afternoon into Wednesday evening.

### HAZARDS & IMPACTS

- Max Heat Indices Wednesday:** Lower 100s within heat advisory area.
- Low Temperatures Tonight:** Lower 70s for NYC and much of NE NJ, otherwise mainly in the upper 60s.
- Max Heat Indices Timing:** Max heat indices between 1pm and 7pm Wednesday.
- Heat Impacts:** There is an increased risk of heat-related illness for vulnerable populations with this event.
- Severe Thunderstorm Potential Impacts:** Possible large hail of at least 1 inch diameter, possible damaging wind gusts in excess of 58 mph.
- Severe Thunderstorm Timing:** Wednesday afternoon into Wednesday evening.

### NWS ALERTS

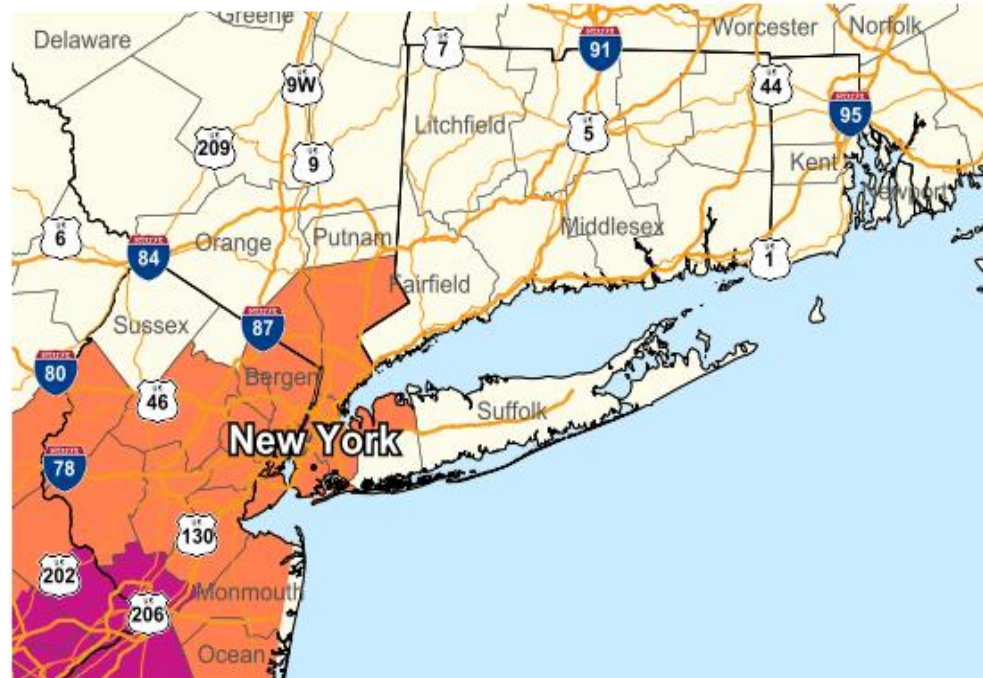
- Heat advisories for much of NE NJ, NYC, Rockland NY, Westchester NY, Northern Nassau NY in effect 11AM to 8PM Wednesday.
- The entire forecast region mentioned in HWO (Hazardous Weather Outlook) to highlight the potential for severe thunderstorms Wednesday afternoon into Wednesday evening.

### FORECAST CHALLENGES

- Uncertainty of 1-2 degrees with temperatures. Potential for expansion of heat advisory to include more zones if temperatures trend a few degrees warmer. Low chance of excessive heat warning upgrade for parts of NE NJ if temperatures trend a few degrees warmer.
- Specific timing and location of thunderstorms Wednesday as well as associated rainfall amounts.

### NEXT BRIEF

By 6AM Wednesday, unless significant forecast changes warrant an earlier update.



■ Excessive Heat Warning  
■ Heat Advisory

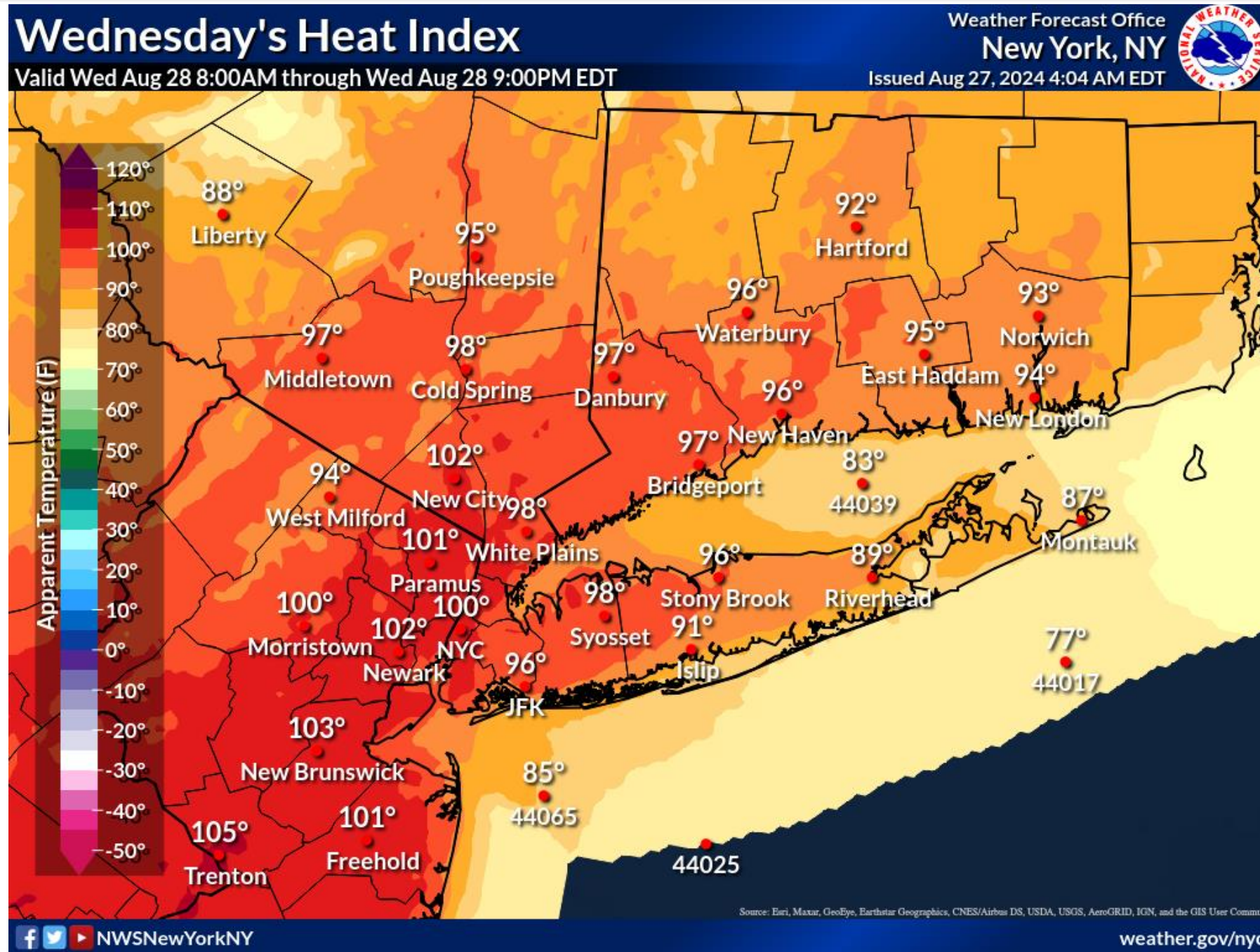
Graphic Created  
August 27th, 2024  
5:35 AM EDT





# Maximum Heat Index

August 27, 2024  
5:42 AM



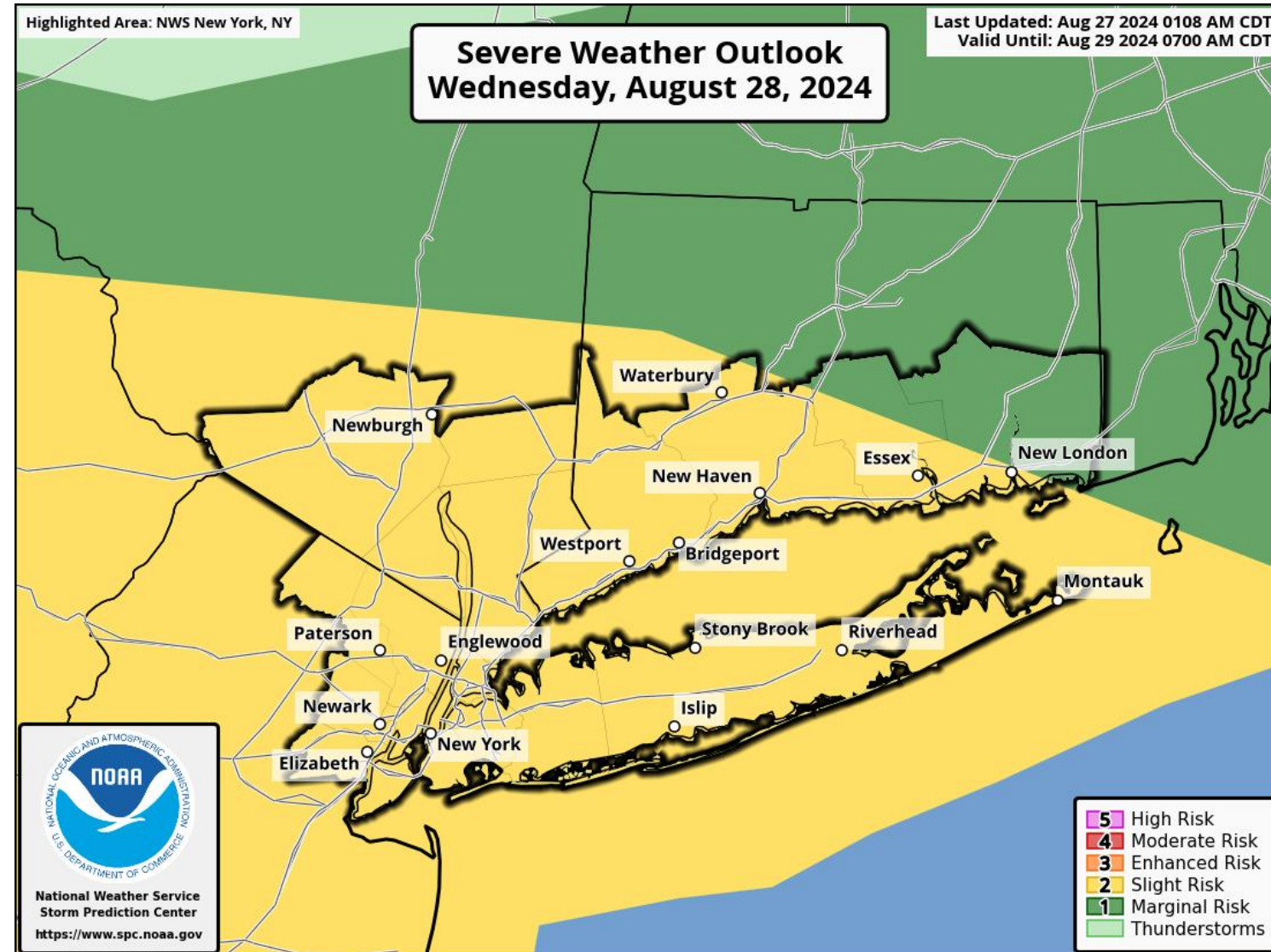




# Severe Tstorm Outlook Wed into Wed Night

August 27, 2024  
5:42 AM

Main threat damaging wind gusts (58 mph or higher) and large hail (1 inch or greater diameter)



## Understanding Severe Thunderstorm Outlook Categories



LEVEL	CATEGORY	DETAILS	SUMMARY	How many severe storms are possible?	How bad could the worst storms be?	DEFINITIONS
	General Thunderstorm	Although severe weather is not expected, <i>all</i> thunderstorms can produce deadly lightning, gusty winds, and small hail.	No severe thunderstorms expected	None	Numerous	<b>Severe Storm</b> Any storm that contains at least one of the following:  Wind gusts of at least 58 mph  Hail at least one inch in diameter  Tornado
1	Marginal (MRGL)	Some storms could be capable of damaging winds and severe hail. Localized tornado threat could develop.	Isolated severe storms possible	None	Numerous	
2	Slight (SLGT)	Increased confidence that some storms will contain damaging winds, severe hail, and/or tornado potential. <i>A few severe storms could be significant</i>	Isolated to scattered severe storms expected	None	Numerous	
3	Enhanced (ENH)	High confidence that several storms will contain damaging winds, severe hail, and/or tornadoes. <i>Several severe storms could be significant</i>	Scattered to numerous severe storms expected	None	Numerous	<b>Significant Severe</b> Any of the following hazards:
4	Moderate (MDT)	High confidence that many storms will contain damaging winds, severe hail, and/or tornadoes. <i>Several severe storms likely to be significant</i>	Scattered to numerous severe storms expected	None	Numerous	Wind gusts of at least 75 mph  Hail at least two inches in diameter
5	High (HIGH)	High confidence that an outbreak of storms will contain tornadoes, damaging winds, and/or severe hail. <i>Tornado outbreak and/or widespread damaging winds</i>	Numerous severe storms expected	None	Numerous	Tornado of at least EF-2 rating

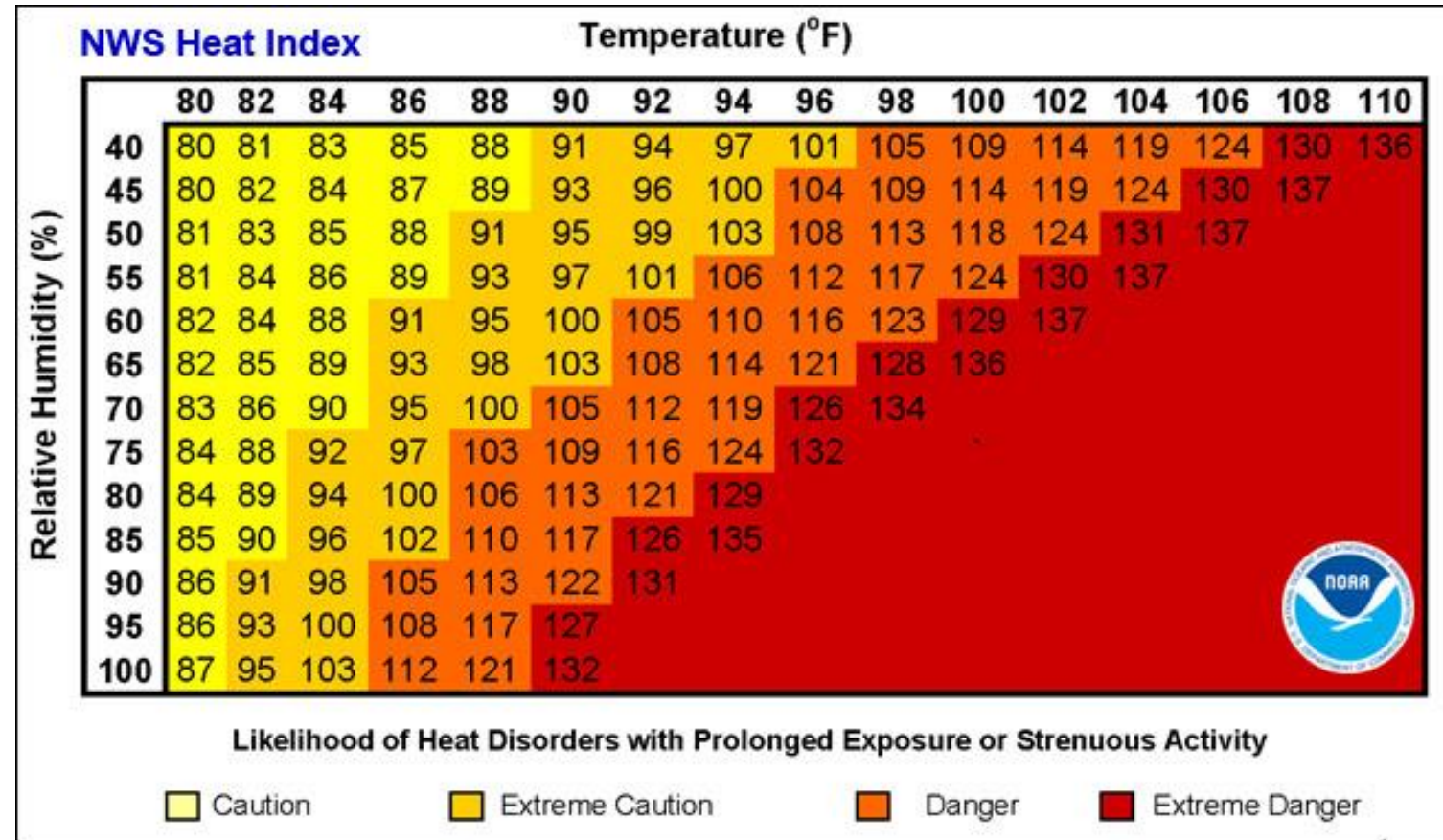




# NWS Heat Index and Effects

The heat index is a measure of how hot it really feels when relative humidity is factored in with air temperature. You can use this chart to find the heat index yourself. For more information on Heat Safety, please go to:

<https://www.weather.gov/safety/heat>



Classification	Heat Index	Effect on the body
Caution	80°F - 90°F	Fatigue possible with prolonged exposure and/or physical activity
Extreme Caution	90°F - 103°F	Heat stroke, heat cramps, or heat exhaustion possible with prolonged exposure and/or physical activity
Danger	103°F - 124°F	Heat cramps or heat exhaustion likely, and heat stroke possible with prolonged exposure and/or physical activity
Extreme Danger	125°F or higher	Heat stroke highly likely



# Practice HEAT SAFETY Wherever You Are

Heat related **deaths** are preventable.  
Protect yourself and others from the  
impacts of heat waves.



[weather.gov/heat](https://www.weather.gov/heat)



### Job Sites

Stay hydrated and  
take breaks in the shade  
as often as possible



### Indoors

Check up on the  
elderly, sick and those  
without AC



### Vehicles

Never leave kids or  
pets unattended -  
**LOOK** before you **LOCK**



### Outdoors

Limit strenuous outdoor  
activities, find shade,  
and stay hydrated

<https://www.weather.gov/wrn/heat> infographics