

# Flooding Threats ... Today into Thursday Heat and Humidity ... Friday through Sunday

**National Weather Service**  
**Decision Support Briefing # 4**  
**Wednesday, July 17, 2019 3:30 PM**




## Headlines ...

### What Has Changed?

- ✓ Severe Thunderstorm Watch goes till 10 pm
- ✓ Flash Flood Watch goes till 11 pm



## Main Points

Hazard		Impacts	Location	Timing
<b>Strong to Severe Thunderstorms</b> <i>Locally strong to damaging winds</i>		Isolated damage to trees and power lines	All areas of Southern New England could be affected	Through this evening
<b>Flooding</b> <i>Excessive rainfall risk with short-duration 2 to 3 inch amounts</i>		Risk of localized flash flooding of small streams and low water crossings; minor flooding of poor drainage, urban areas	All areas of Southern New England could be affected	Through Thursday
<b>Heat &amp; Humidity</b> <i>Heat indices around 95°F to 105°F</i>		Sunstroke, muscle cramps and/or heat exhaustion likely with prolonged exposure	All of Southern New England except Cape Cod & the Islands	Friday through Sunday Especially Saturday

### Hazard Descriptions

None	Limited	Elevated	Significant	Extreme
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# Severe Thunderstorm Watch

Valid Until  
10:00 PM EDT Wednesday  
July 17, 2019

## Threat Information



### HAIL

Isolated Hail Up To  
Quarter Size Possible



### WIND

Scattered Gusts  
Up To 70 MPH Possible



### LIGHTNING

Frequent Lightning  
Possible



**SEVERE THUNDERSTORM WATCH** goes till 10p. Main concerns are locally strong to damaging winds contributing to isolated tree and / or power line damage.



# Flash Flood Watch

Valid until  
11 PM EDT this evening  
July 17<sup>th</sup>, 2019

## Threat Information



### **MODERATE TO HEAVY RAINFALL**

- Torrential downpours
- Around 2" / hr rainfall rates
- Storm total rainfall as high as around 3"



### **FLOODING**

- Urban and poor-drainage flooding is possible.



**FLASH FLOOD WATCH till 11p. Storms will contain heavy downpours w/ rainfall rates of 1-4"/hr. Total rainfall as high as @ 3" is possible. Potential for urban, poor-drainage flooding.**

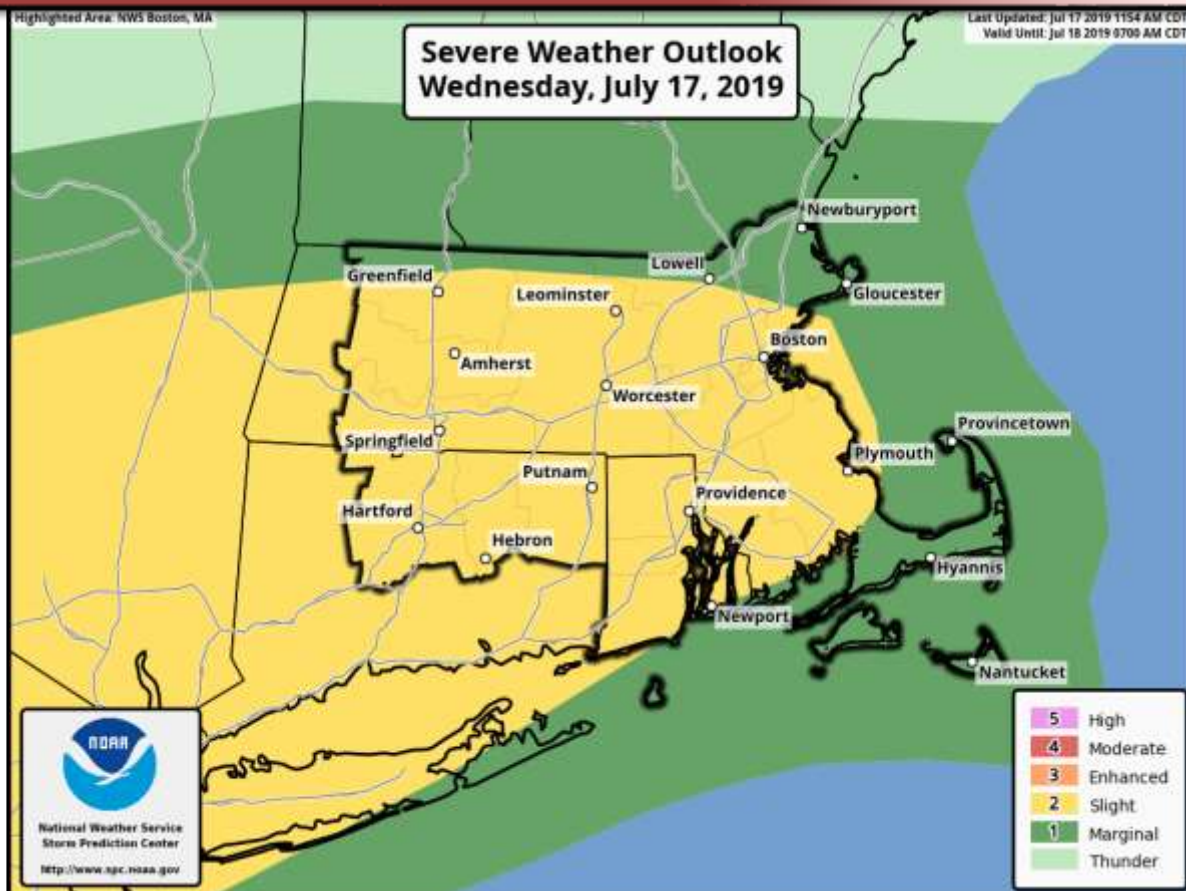
## Severe Weather Outlook – Today, Wednesday, July 17<sup>th</sup>, 2019

### Impacts

- ✓ Locally strong to damaging winds which may result in isolated tree and/or power line damage
- ✓ Heavy downpours with potential 1-2" per hour rainfall rates which may contribute to localized urban, poor-drainage flooding. Storm total rainfall amounts up as high as around 3"

### Timing

- ✓ Scattered showers and thunderstorms, some of which will be strong to severe will sweep across the area through the afternoon into evening hours, exiting off S-coastal New England around 10 pm



Thunder	Marginal	Slight	Enhanced	Moderate
No Severe Lightning still possible	Isolated Severe Storms Possible	Scattered Severe Storms Possible	Numerous Severe Storms Possible	Widespread Severe Storms Likely





## Severe Weather Outlook – Damaging Wind Risk – Today, July 17<sup>th</sup>, 2019

- 5% Probability
- 15% Probability
- 30% Probability
- 45% Probability
- 60% Probability



Graphic Created  
July 17<sup>th</sup>, 2019  
3:30 PM EDT

**Probability of damaging thunderstorm winds or wind gusts  
of 50 knots or higher within 25 miles of a point.**

## Excessive Rainfall Outlooks – Today, Wednesday, July 17<sup>th</sup>, 2019

- Marginal
- Slight
- Moderate
- High



Graphic Created  
July 17th, 2019  
3:30 PM EDT

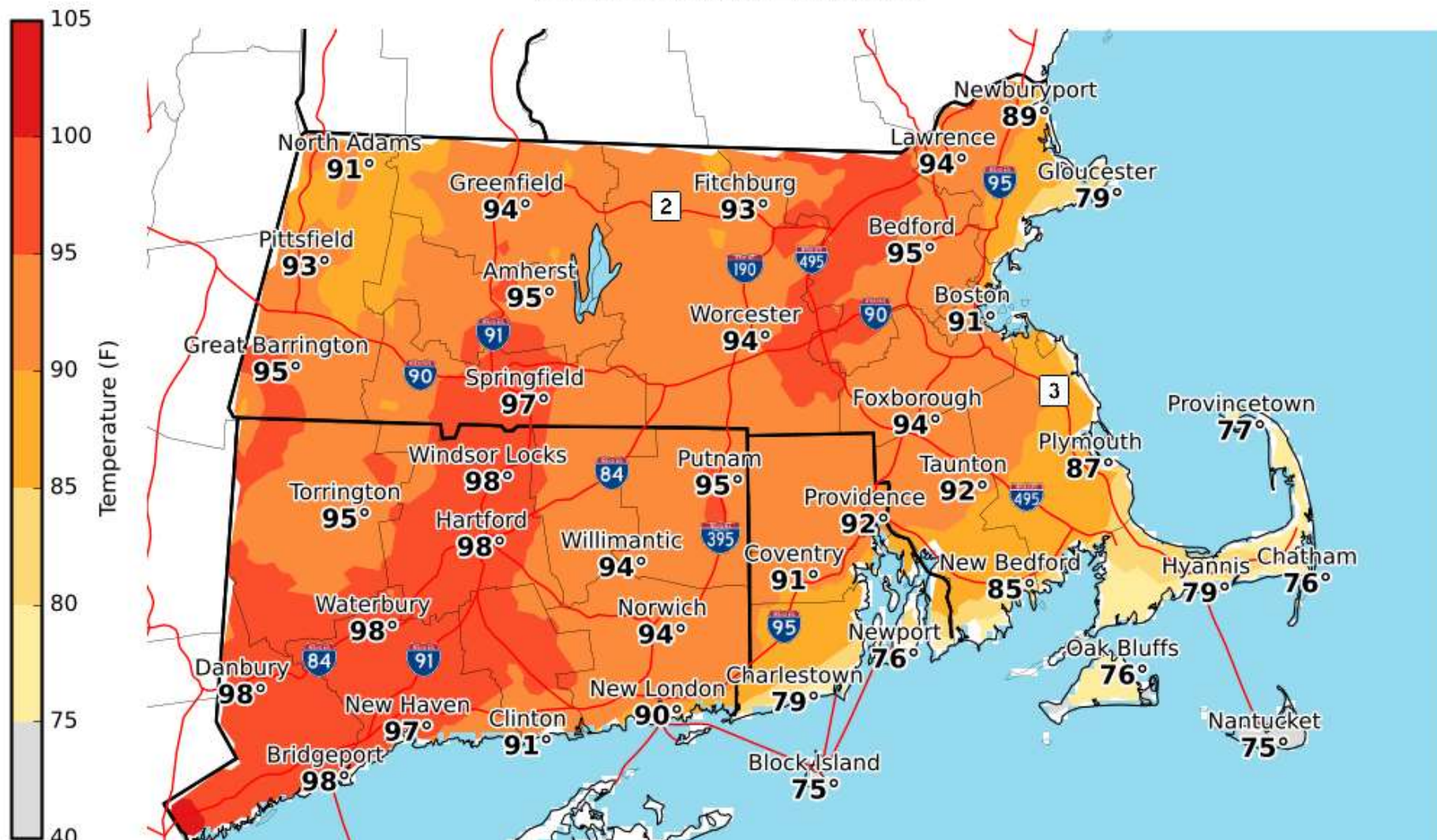
**Heavy downpours with potential 1-4" per hour rainfall rates which may contribute to localized urban, poor-drainage flooding. Storm total rainfall amounts up as high as around 3"**



## Forecast Maximum Heat Index ... Friday, July 19<sup>th</sup>, 2019

### Maximum Heat Indices

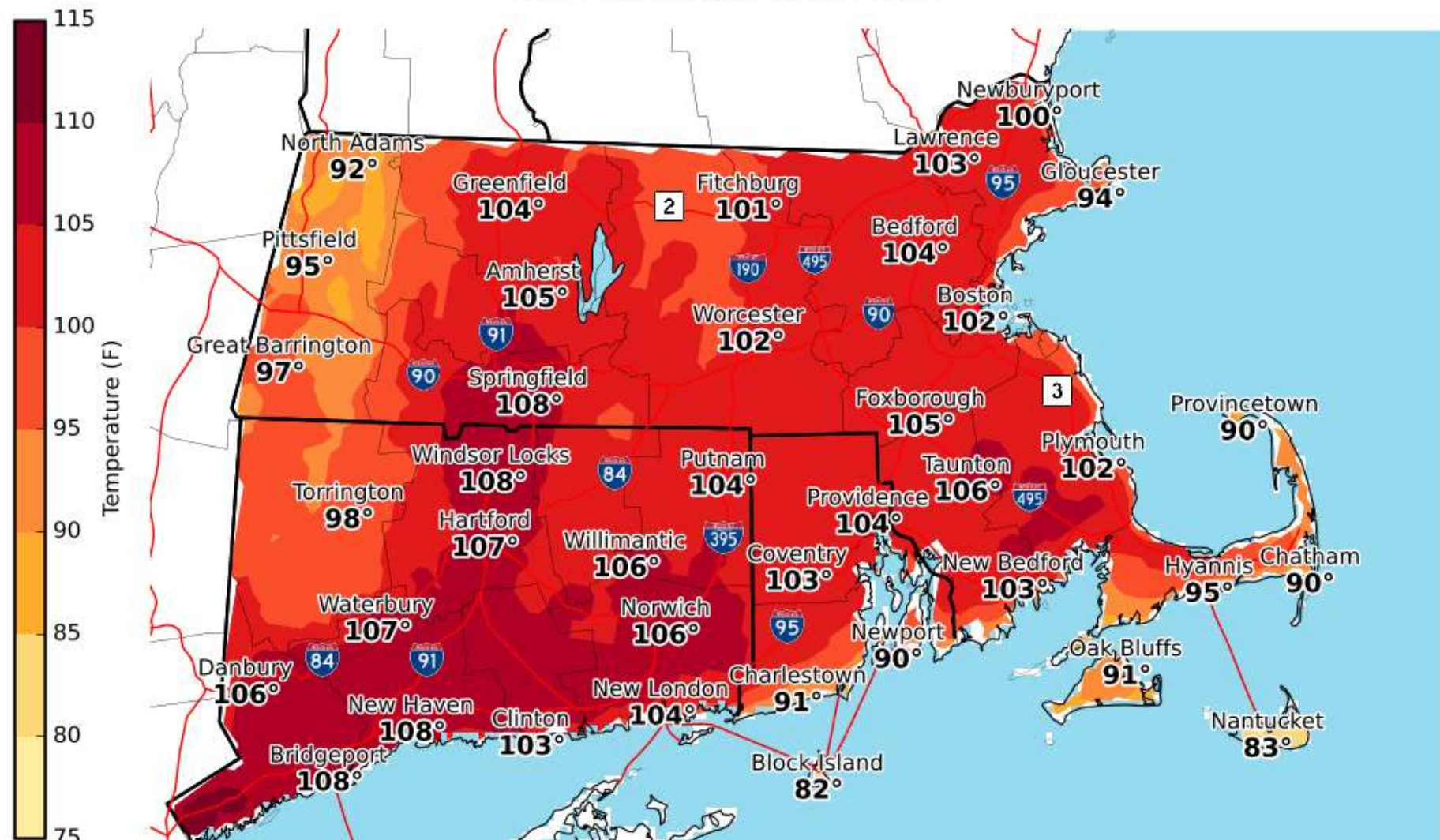
Valid: Friday, July 19<sup>th</sup>, 2019





## Forecast Maximum Heat Index ... Saturday, July 20<sup>th</sup>, 2019

### Maximum Heat Indices Valid: Saturday, July 20<sup>th</sup>, 2019

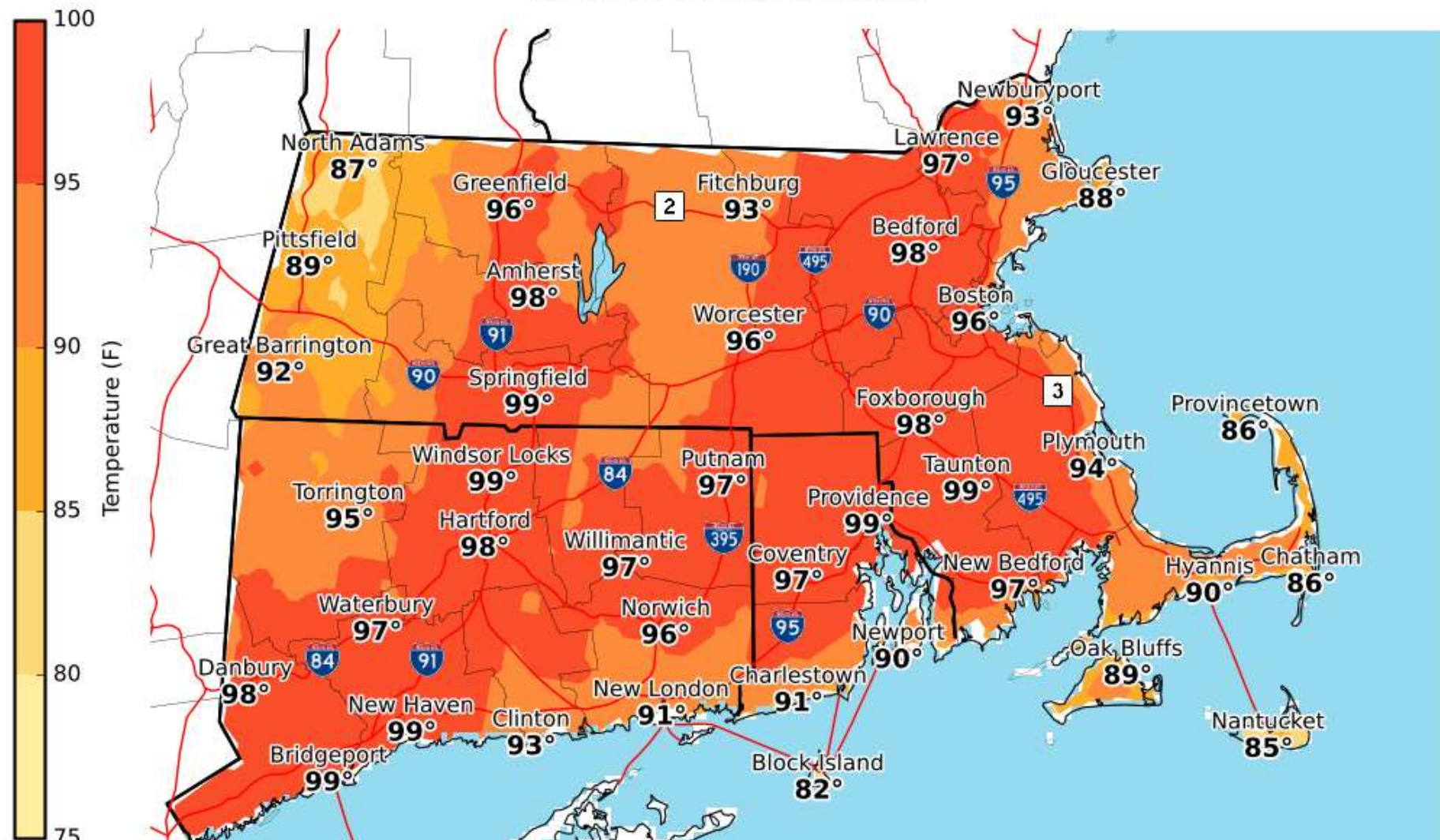




## Forecast Maximum Heat Index ... Sunday, July 21<sup>st</sup>, 2019

### Maximum Heat Indices

Valid: Sunday, July 21<sup>st</sup>, 2019





# Threat Event Summary

- ✓ **Confidence:** Scattered shower and thunderstorm activity ongoing embedded in which there is the threat for strong to damaging winds, isolated tree and/or power line damage, as well as heavy downpours with potential localized urban, poor-drainage flooding. High confidence concerning the heat and humidity for Friday through Sunday.

- ✓ **What / Where / When:**



Locally strong to damaging winds are possible with forecast thunderstorm activity through roughly around 10 pm. Across all of Southern New England there is the threat for isolated tree and / or power line damage.



Heavy downpours are anticipated with rainfall rates of 1 to 4 inches per hour. Storm total rainfall amounts as high as around 3 inches. Beginning around noon today and continuing into Thursday. Any heavy rainfall brings the risk for localized urban, poor-drainage flooding over all of Southern New England.



Heat and humidity is forecast Friday through Sunday over all of Southern New England except Cape Cod & the Islands with heat indices of around 95°F to 105°F. The warmest conditions anticipated Saturday, throughout there is the risk of heat-related illnesses such as sunstroke, muscle cramps and/or heat exhaustion with prolonged exposure.

# Contact and Next Briefing Information

## Next Briefing

**When:** by 6 am, Thursday, July, 18th

**Method:** via email



[www.weather.gov/boston](http://www.weather.gov/boston)



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**Disclaimer:** The information contained within this briefing is time-sensitive,  
do not use after 6 am, Thursday, July 18th