

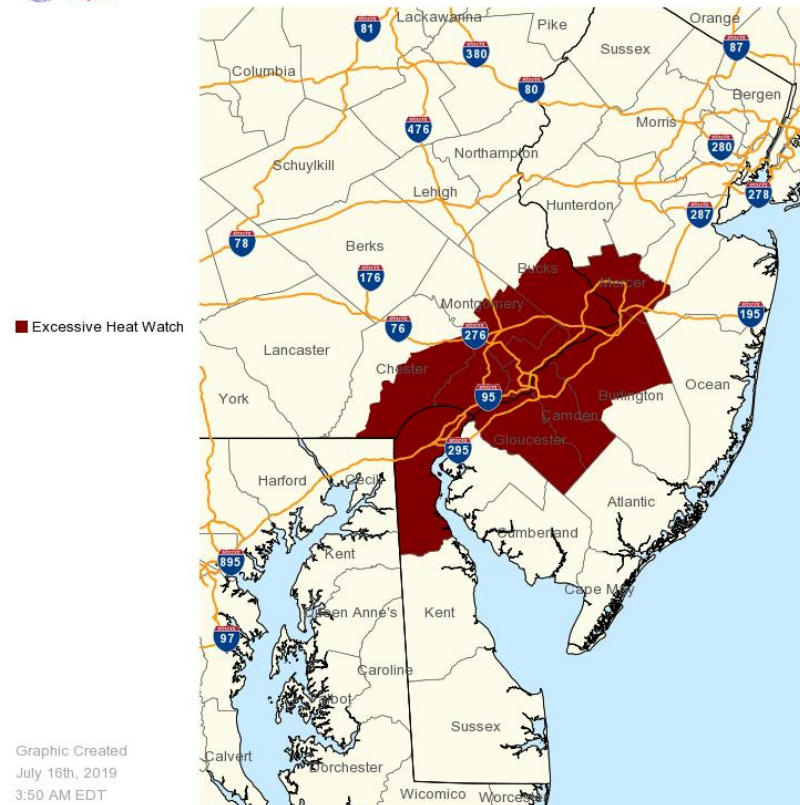
Excessive Heat Wednesday through Sunday

Decision Support Briefing #1
As of: 6 AM Thursday,
July 16, 2019





What Has Changed?

- ✓ *This is the initial briefing package.*
- ✓ *A prolonged Excessive Heat Watch is now in effect for urban corridor around Philadelphia from Wednesday through Sunday.*
- ✓ *Heavy rain and flooding is also possible Wednesday afternoon and evening and Thursday afternoon and evening.*

 Excessive Heat



Main Points

Hazard	Impacts	Location	Timing
Heat 	<p>The heat and humidity may cause heat stress during outdoor exertion or extended exposure.</p>	<p>The urban corridor from Trenton to Philadelphia to Wilmington and nearby suburbs.</p>	<p>Heat Index values will range from 100 to 105 on Wednesday and Thursday, and from 105 to 110 on Friday through Sunday with highest Heat Index values on Saturday.</p>
Heat 	<p>The heat and humidity may cause heat stress during outdoor exertion or extended exposure.</p>	<p>Northern and southeast NJ, eastern PA, and Delmarva.</p>	<p>Heat Index values will range from 100 to 105 on Wednesday and Thursday, and from 105 to 110 on Friday through Sunday with highest Heat Index values on Saturday.</p>
Heavy rain/ flash flooding 	<p>1-3 inches of rain (locally up to 4 inches possible), which may result in flash flooding, especially in urban areas. Flooding of small creeks and streams is also possible in the areas of heaviest rainfall.</p>	<p>Uncertain as to exact location, but biggest threat is across eastern PA and most of NJ, but is possible Delmarva.</p>	<p>Wednesday afternoon and evening, and again Thursday afternoon and evening.</p>
Severe Storms 	<p>Some thunderstorms could be severe, with damaging winds as the primary hazard</p>	<p>Southeast PA, most of NJ, and most of the eastern shore of MD and</p>	<p>Wednesday afternoon and evening, and again Thursday afternoon and evening</p>

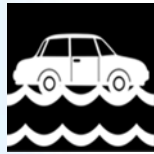
Summary of Greatest Impacts



Excessive Heat: Urban corridor around Philadelphia



Excessive Heat: Rest of eastern PA, NJ, & Delmarva



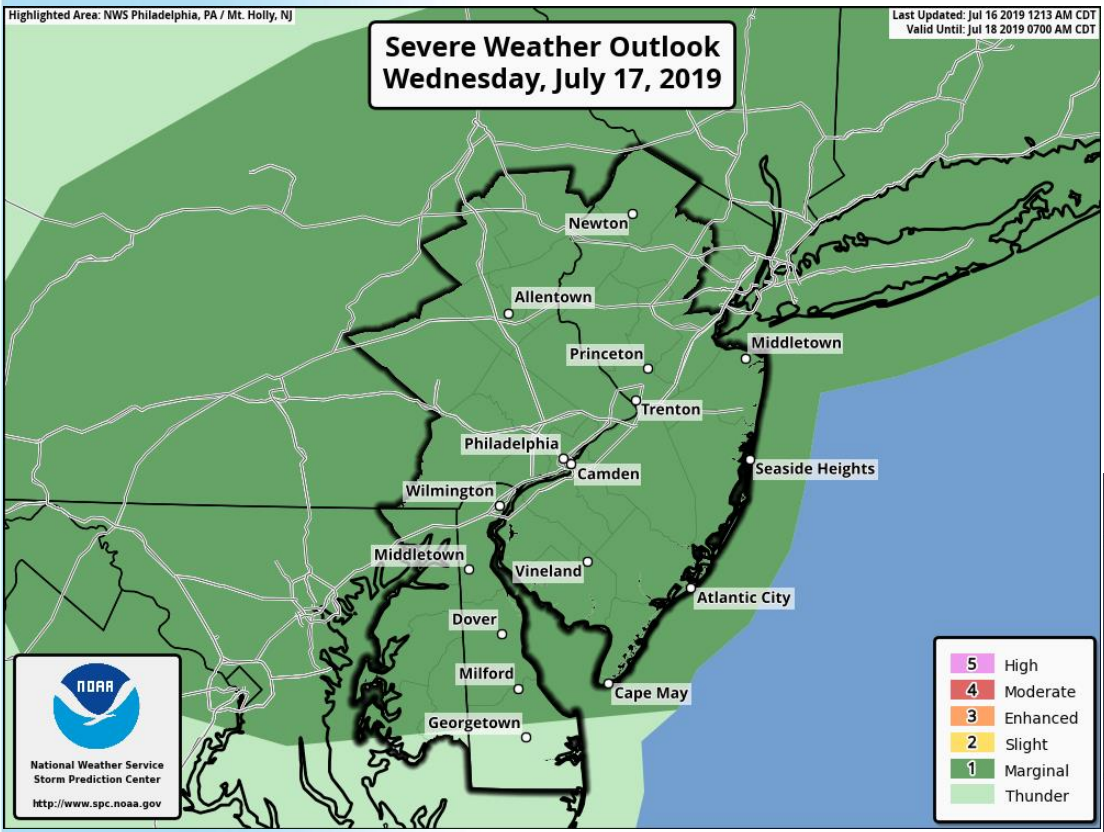
Flash flooding: Eastern PA, NJ, Delmarva



Severe Storms: Eastern PA, NJ, Delmarva



Severe Weather Outlook



Understanding Severe Thunderstorm Risk Categories

THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with all thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
<ul style="list-style-type: none"> Winds to 40 mph Small hail 	<ul style="list-style-type: none"> Winds 40-60 mph Hail up to 1" Low tornado risk 	<ul style="list-style-type: none"> One or two tornadoes Reports of strong winds/island damage Hail ~1", isolated 2" 	<ul style="list-style-type: none"> A few tornadoes Several reports of wind damage Damaging hail, 1 - 2" 	<ul style="list-style-type: none"> Strong tornadoes Widespread wind damage Destructive hail, 2" + 	<ul style="list-style-type: none"> Tornado outbreak Derecho

* NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.

Event Summary

- ✓ Excessive Heat Watches now in effect for urban corridor around Philadelphia from Wednesday through Sunday.
- ✓ Heat Advisories may be needed for portions of southeast Pennsylvania, southern New Jersey, and Delmarva on Wednesday.
- ✓ Excessive Heat Watches will be needed for portions of southeast Pennsylvania, the rest of New Jersey, and Delmarva on Friday, Saturday, and Sunday.
- ✓ The highest heat index values are expected to occur on Saturday.
- ✓ Heavy rain may result in flooding and flash flooding Wednesday and Thursday. The highest threat for flash flooding will be across eastern Pennsylvania and across most of New Jersey.
- ✓ Damaging winds would be the primary threat from severe thunderstorms Wednesday afternoon and evening and Thursday afternoon and evening.

Additional Notes

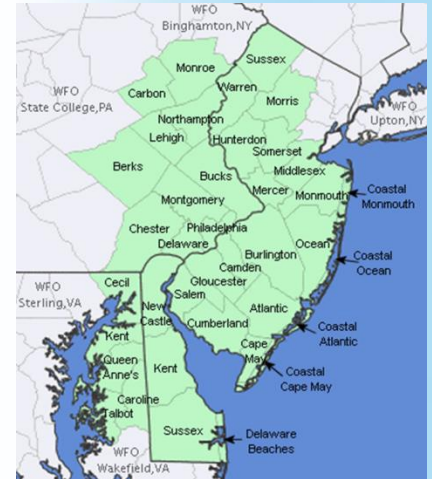
- ✓ Due to the effects a heat wave has on urban centers in particular, the urban corridor from Trenton to Philadelphia to Wilmington and immediate suburbs has more sensitive criteria for Excessive Heat Watches and Warnings than the areas outside. This does not diminish the risk for excessive heat in areas not currently under a watch late this week and this weekend.
- ✓ Overnight lows in the urban corridor will be in the 70s to around 80. These hot temperatures at night will not provide much relief at all.

Contact and Next Briefing Information



Next Briefing
By 5 pm today, Tuesday, July 16, 2019.

Briefing Webpage:
www.weather.gov/media/phi/current_briefing.pdf



Web:
www.weather.gov/phi



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