Excessive Heat Today through Sunday. Flash Flooding Possible Tonight into Thursday

Decision Support Briefing #3
As of: 4 AM Wednesday, July 17, 2019

What Has Changed?
- Flash flood watch now in effect for eastern Pa, most of NJ, and northern Delmarva.
- Severe risk upgraded to slight over the northern half of the forecast area
## Main Points

<table>
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<th>Hazard</th>
<th>Impacts</th>
<th>Location</th>
<th>Timing</th>
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<tr>
<td><strong>Heat</strong></td>
<td>The heat and humidity may cause heat stress during outdoor exertion or extended exposure.</td>
<td>The urban corridor from Trenton to Philadelphia to Wilmington and nearby suburbs, and much of Delmarva</td>
<td>Heat Index values will range from 100 to 105 on today and Thursday, and from 105 to 110 on Friday through Sunday with highest Heat Index values on Saturday.</td>
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<td><strong>Heat</strong></td>
<td>The heat and humidity may cause heat stress during outdoor exertion or extended exposure.</td>
<td>Northern and coastal NJ, eastern PA.</td>
<td>Heat Index values near 100 are possible today and Thursday, and from 100 to 105 on Friday through Sunday with highest Heat Index values on Saturday.</td>
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<td><strong>Heavy rain/flash flooding</strong></td>
<td>2-4 inches of rain (with locally higher amounts), 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.</td>
<td>Greatest threat over eastern PA, most of NJ, and northern Delmarva.</td>
<td>This afternoon through Thursday.</td>
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<td><strong>Severe Storms</strong></td>
<td>Some thunderstorms could be severe, with damaging winds as the primary hazard.</td>
<td>Southeast PA, most of NJ, and most of Delmarva.</td>
<td>This afternoon and evening.</td>
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Summary of Greatest Impacts

- **Excessive Heat: I-95 Urban Corridor and much of Delmarva**
  - None
  - Limited
  - Elevated
  - Significant
  - Extreme

- **Excessive Heat: Rest of eastern PA, NJ**
  - None
  - Limited
  - Elevated
  - Significant
  - Extreme

- **Flash flooding: Eastern PA, NJ, Delmarva**
  - None
  - Limited
  - Elevated
  - Significant
  - Extreme

- **Severe Storms: Eastern PA, NJ, Delmarva**
  - None
  - Limited
  - Elevated
  - Significant
  - Extreme
Forecast Maximum Heat Index Values for Saturday (the warmest day)
Severe Weather Outlook

Understanding Severe Thunderstorm Risk Categories

1 - MARGINAL (MRGL)
No severe thunderstorms expected
Limited in duration and/or coverage and/or intensity

2 - SLIGHT (SLGT)
Isolated severe thunderstorms possible
Scattered severe storms possible
Short-lived and/or not widespread, isolated intense storms possible

3 - ENHANCED (ENH)
Numerous severe storms possible
More persistent and/or widespread, a few intense

4 - MODERATE (MDT)
Widespread severe storms likely
Long-lived, widespread and intense

5 - HIGH (HIGH)
Widespread severe storms expected
Long-lived, very widespread and particularly intense

Severe Weather Outlook
Wednesday, July 17, 2019

* NWS defines a severe thunderstorm as having a hail stone of 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.

National Weather Service
www.spc.noaa.gov
Heavy rain may result in flooding and flash flooding this afternoon into Thursday. The highest threat for flash flooding will be across eastern Pennsylvania, most of New Jersey, and northern Delmarva.

Dangerously hot conditions are possible starting this afternoon and continuing into Sunday. The highest heat index values are expected to occur on Saturday.

Heat advisories and excessive heat warnings may need to be expanded and extended as we go through the week.

Overnight lows in the urban corridor will be in the 70s to around 80. Consequently, there will be little relief overnight from the dangerously hot conditions.

There is a risk of severe thunderstorms this afternoon and evening with damaging winds being the primary threat.

There will be a high risk for dangerous rip currents this afternoon at New Jersey beaches.
Contact and Next Briefing Information

Next Briefing
By 5 PM Wednesday, July 17, 2019.

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

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