Heavy Rain and Flooding

Decision Support Briefing # 4
As of: 5 PM Thursday, Dec. 20, 2018

What Has Changed?

- Coastal flood advisory has now been issued for the southern and central NJ shore, DE Beaches, Delaware Bay, and tidal Delaware River.
- Forecast rain amounts have increased for many areas.
## Main Points

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<th>Hazard</th>
<th>Impacts</th>
<th>Location</th>
<th>Timing</th>
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<td>Flash Flooding</td>
<td>Rain amounts of 1.5 to 4 inches (locally higher amounts possible) will likely result in urban and roadway flooding with the potential for localized flash flooding.</td>
<td>Region wide threat with the highest risk north of I-78 and along the I-95 corridor.</td>
<td>Through Friday evening.</td>
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<td>River and Stream flooding</td>
<td>River, stream rises expected with the potential for significant river and stream flooding.</td>
<td>Region wide threat with the highest risk across NJ.</td>
<td>Possible as early as tonight and potentially lasting into next week.</td>
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<td>Tidal Flooding</td>
<td>Widespread minor to moderate flooding is anticipated. Heavy rain could exacerbate tidal flooding leading to more significant impacts.</td>
<td>Coastal areas of NJ and DE. Along the tidal Delaware River and Bay. Minor flooding is also possible along the northeastern Chesapeake Bay</td>
<td>The high tide of greatest concern is the day time high tide on Friday.</td>
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<td>Strong Winds</td>
<td>Wind gusts to near 45 mph may cause minor tree damage and isolated power outages on land. On the waters, these gale force winds will lead to hazardous conditions for mariners.</td>
<td>NJ and DE Atlantic Coastal waters, Delaware Bay, and coastal areas of NJ and DE.</td>
<td>Period of strongest winds is expected tonight into Friday morning.</td>
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Summary of Greatest Impacts

**Tidal Flooding:** Delaware River & Bay, and coastal NJ, NE MD, and DE. Highest risk is along the northern NJ shore.

- None
- Limited
- Elevated
- Significant
- Extreme

**Flash Flooding and Areal Flooding:** across the region, highest risk in northern NJ

- None
- Limited
- Elevated
- Significant
- Extreme

**River/stream flooding:** across the region, highest risk in NJ

- None
- Limited
- Elevated
- Significant
- Extreme

**Strong winds:** Delaware Bay, Coastal NJ & DE, Coastal waters of NJ & DE

- None
- Limited
- Elevated
- Significant
- Extreme
Coastal Flooding

- Day time high tide on Friday
- This graphic shows the expected degree of flooding on the oceanfront, bays, and estuaries along the highlighted areas.
- This does not account for heavy rain which could further exacerbate coastal flooding, especially if it occurs near the time of high tide, resulting in more significant impacts.

- No Flooding
- Spotty Minor Flooding
- Minor Flooding
- Moderate Flooding
- Major Flooding
Locally higher amounts are possible, especially with thunderstorms.
Heavy rainfall is expected through Friday evening leading to the potential for significant flooding.

- Flood watch remains in effect across the region through Friday evening.
- Urban, roadway, and river flooding will all be possible along with localized flash flooding.
- Extent and severity of flooding will be rainfall dependent.

Thunderstorms on Friday afternoon may have gusty winds, and could lead to even higher rain totals.

Coastal flooding is expected for coastal areas of NJ and DE and areas along the tidal Delaware River and Bay. Minor tidal flooding is possible along the northeastern shores of the Chesapeake Bay.

- The high tide of greatest concern is during the day time hours on Friday.
- Current forecast is for widespread minor to moderate tidal flooding. However, heavy rain could exacerbate tidal flooding resulting in more significant flooding impacts.

Strong winds with gusts near 45 mph are expected in coastal NJ and DE and on the Delaware Bay and Atlantic coastal waters of NJ and DE.

- This could lead to minor tree damage and isolated power outages on land, and hazardous conditions for mariners.
- The main period of concern is tonight into Friday morning. A wind advisory and gale warning have been issued.
Contact and Next Briefing Information

Next Briefing
When: Final briefing unless there are significant changes

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

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