

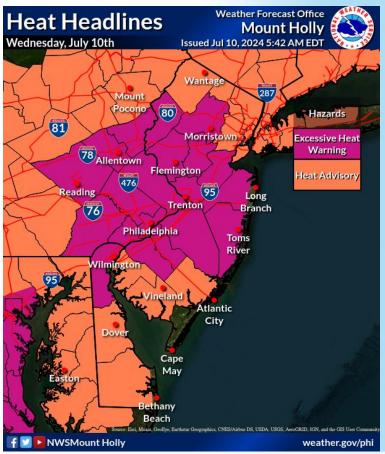


Heat and Heavy Rain Risks July 10 – July 13, 2024

Decision Support Briefing # 5 As of: 6 AM Wednesday, July 10, 2024

What Has Changed?

- Excessive Heat Warning expanded to include Lehigh & Northampton counties in PA and Morris & Warren counties in NJ
- ✓ No changes to Excessive Rainfall Risks



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Philadelphia/Mount Holly





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Main Points

Hazard	Impacts	Location	Timing			
Excessive Heat	Significant Increased Risk for heat illnesses due to a combination of excessive heat and high humidity	Entire forecast area	Continuing through Wednesday			
Severe Storms	Local damaging wind gusts from isolated to scattered severe thunderstorms	North and west of the I-95 corridor	Round 1: Late Wednesday morning and early afternoon Round 2: late Wednesday night			
Heavy Rain (Wed)	Thunderstorms with heavy rain could lead to localized flash flooding	Some risk across the region; highest risk along and northwest of the I-78 Corridor	Wednesday Afternoon through Wednesday Night; rain could continue through Thursday morning			
Heavy Rain (Thu Night - Fri)	Thunderstorms with heavy rain could lead to localized flash flooding	Across the region, but the highest risk is currently forecast for the Philadelphia metro and areas south and east	Late Thursday Night through late Friday Night; light rain could continue through the day on Saturday			
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Excessive Heat on Wednesday

Heat Index Forecast (°F)

EATHER SERVICE

	7/10								7/11										
	Wed							Thu											
	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm	12am	Maximum
Allentown	78	87	91	97	100	102	103	105	105	105	103	102	100	96	93	91	86	79	105
Atlantic City	73	76	78	84	86	89	87	87	87	87	85	84	78	76	74	74	73	73	89
Easton	89	93	97	100	100	103	103	105	106	105	103	102	99	96	96	93	89	87	106
Georgetown	79	90	96	98	100	102	105	103	103	101	99	97	95	90	86	85	85	79	105
Hackettstown	75	78	87	92	98	100	102	100	103	102	100	99	96	90	86	79	77	76	103
Mount Pocono	72	74	77	78	79	86	88	90	89	89	89	88	85	79	76	75	72	71	90
Philadelphia	85	89	94	98	102	103	105	105	106	106	105	99	96	93	90	89	87	86	106
Reading	79	89	96	100	105	106	107	106	107	107	106	105	102	98	96	94	89	85	107
Toms River	76	79	91	96	100	102	102	102	100	98	95	94	90	85	79	78	77	76	102
Trenton	78	89	96	99	103	107	106	109	107	105	105	101	97	93	90	85	84	79	109
Wilmington	79	89	96	100	103	105	106	107	106	106	105	102	99	95	93	90	88	86	107

Heat Index Forecast (°F)

Created: 5 am EDT Wed 7/10/2024 |

- Maximum heat index values ranging from 100 to 110 for many inland areas
- ✓ For the latest Heat Risk, visit <u>www.wpc.ncep.noaa.gov/heatrisk/</u>

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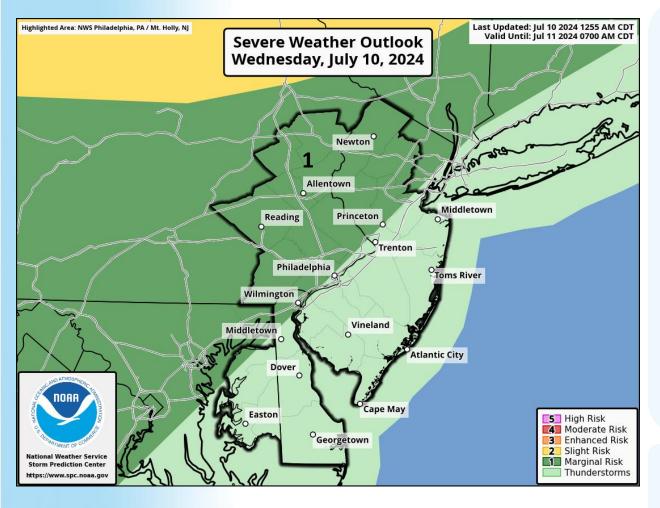


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Severe Weather Outlook



 <u>Round 1</u>: Isolated to scattered storms late morning/early afternoon north and west of the 95 corridor; greater severe risk, but less coverage

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✓ <u>Round 2</u>: Line of thunderstorms overnight; lower severe risk, but greater coverage

Primary threat is straightline damaging wind gusts.

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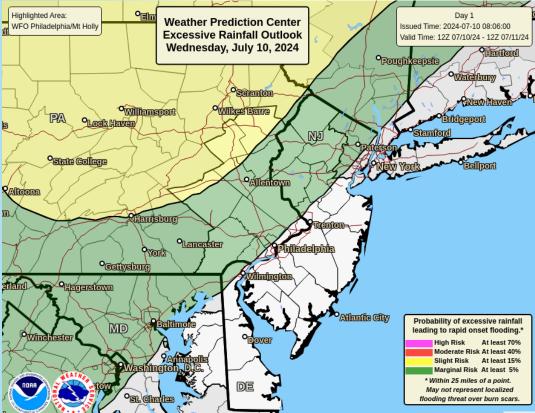
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Heavy Rain/Flash Flooding Outlook



Wednesday

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)					
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible					
www.wpc.ncep.noaa.gov @NWSWPC	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.					
Flash flooding near me?	2 > 2 < 2	(2, 4)					
WEATHER PREDICTION CENTER							

 ✓ Scattered Flash Flooding Possible north and west of the I-95 corridor

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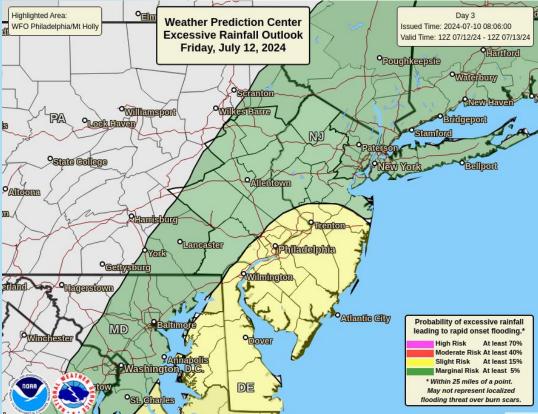
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Heavy Rain/Flash Flooding Outlook



Late Thursday night - Friday

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)				
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible				
www.wpc.ncep.noaa.gov @NWSWPC	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.				
Flash flooding near me?	$2 \times 2 \times 2$	(A, A, f)				
WEATHER PREDICTION CENTER						

 ✓ Scattered Flash Flooding Possible across the Philly Metro area, south and east.

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Event Summary

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- Dangerously hot and humid conditions are expected to continue into Wednesday across most of the region (90% confidence within the warning and advisory areas). The threat for heat related illnesses is higher within the warned area due to the combination of excessive heat and high humidity.
- There is up to a 75% chance for storms Wednesday into early Thursday as the remnant low of Beryl tracks northwest of our region. Storms during this period will be capable of heavy rain leading to flash flooding. The highest risk is along and northwest of the Interstate 78 corridor.
- If storms arrive early enough on Wednesday afternoon, there is a Marginal Risk (Level 1 out of 5) for severe weather near and northwest of the I-95 corridor. The primary threat in this case would be straight-line damaging wind gusts.
- Another period of storms is expected beginning late Thursday night/early Friday and continuing into early Saturday. The chance for storms in this period is up to 80%. The primary hazard with this period is also heavy rain leading to flash flooding. Risk for heavy rain exists across most of the region in this period with the highest risk in the Philadelphia metro and areas south and east.









Contact and Next Briefing Information



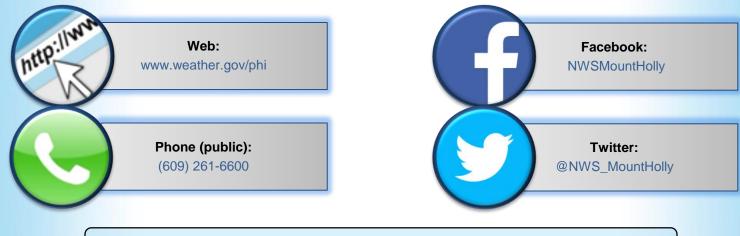
Next Briefing

When: By 5 PM, Wednesday, July 10, 2024

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



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