



Severe Storms and Excessive Rainfall

July 29, 2024
8:18 AM

Expected Through Midweek and Possibly Beyond

Decision Support Briefing

As of 10 AM July 29, 2024

NEW

Important Updates



- There will be a threat for excessive rainfall and strong thunderstorms most of this week, with the greatest potential being Tuesday and Wednesday.
- Most of the rain this week will be beneficial, but we will have to watch for localized flooding issues in any thunderstorms, especially in urban and low-lying areas.
- Any thunderstorm that turns strong to severe could produce damaging wind gusts, and perhaps some small hail.





Main Points

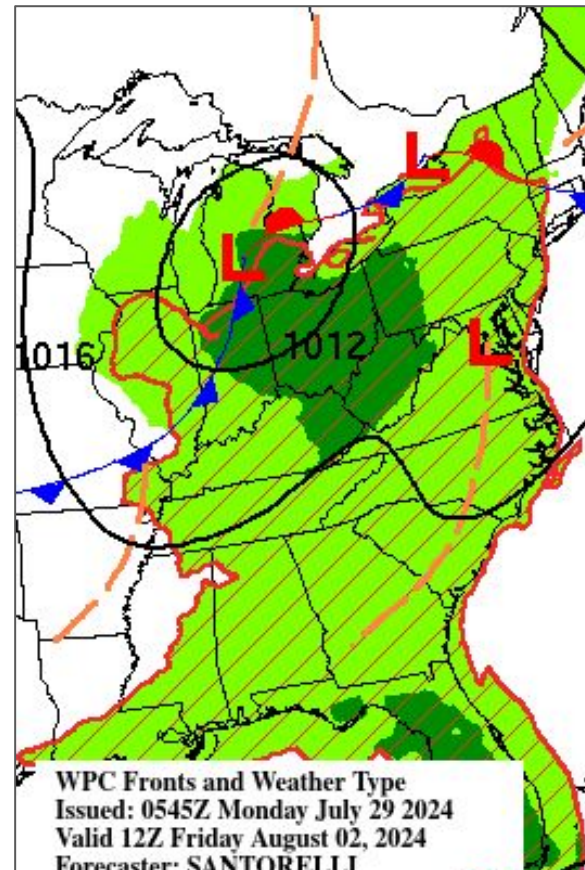
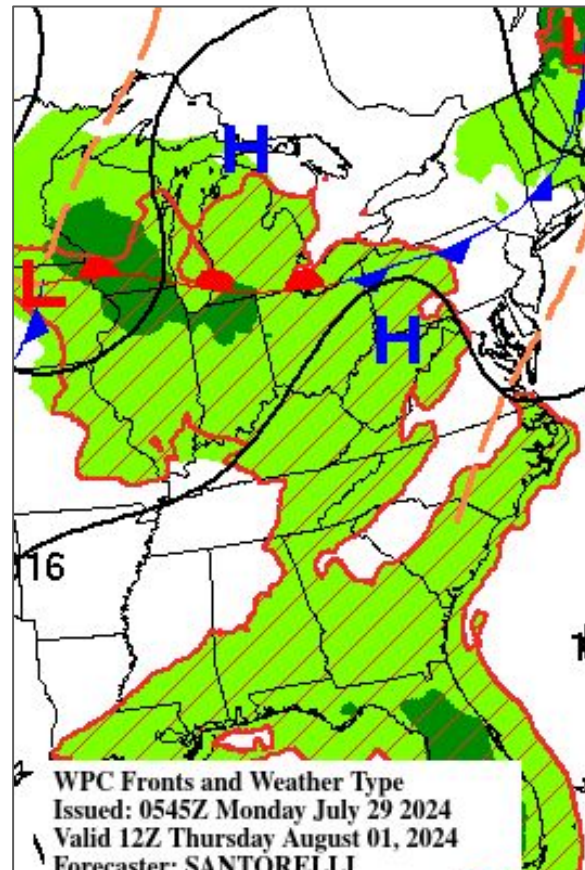
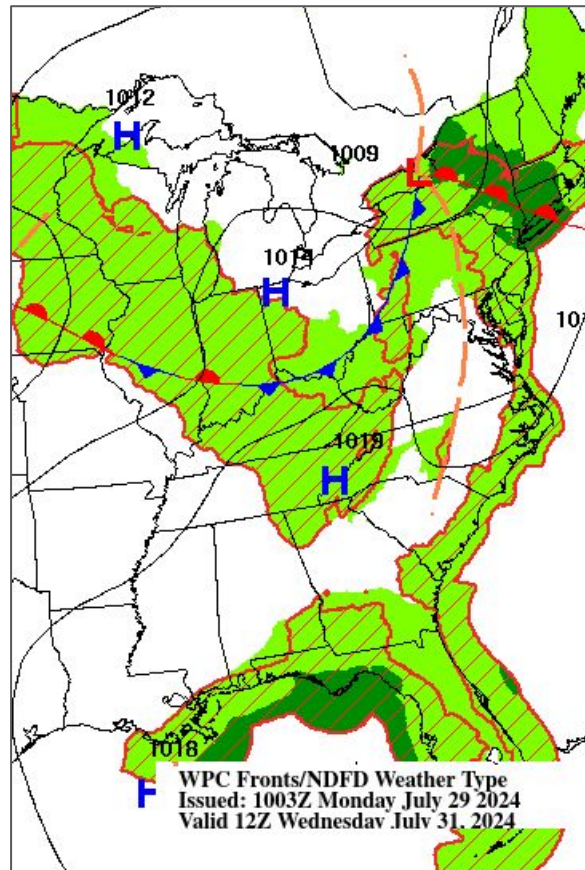
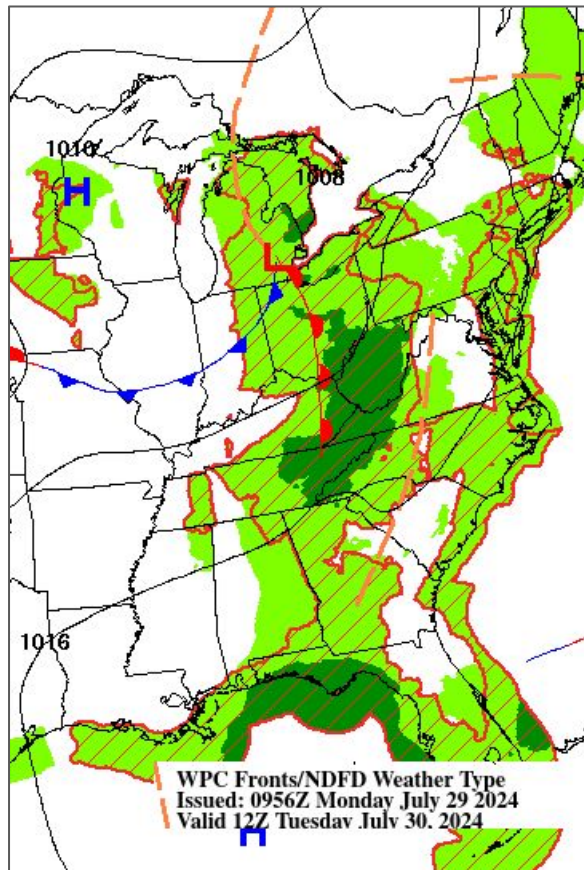
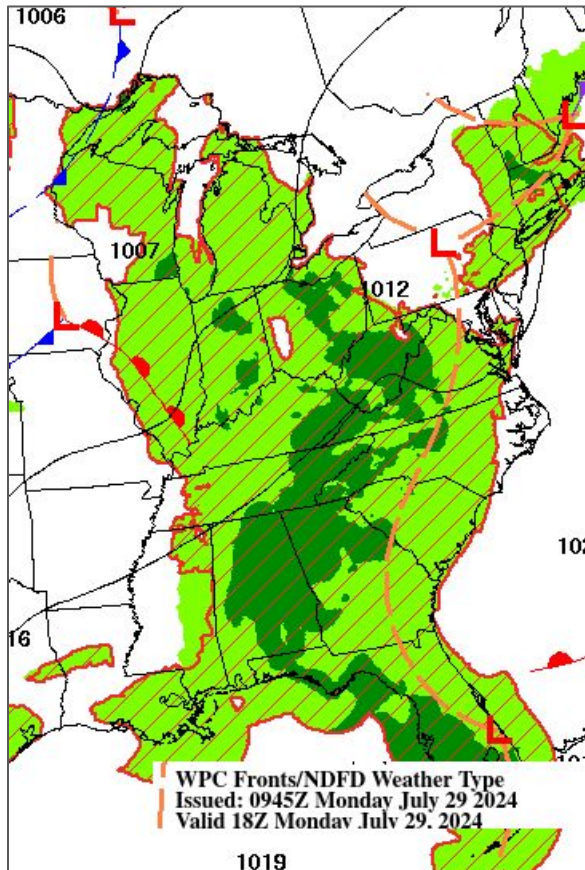
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Hazard	Impacts	Location	Timing
Severe Storms 	Isolated damaging wind gusts and hail may cause damage to property.	Today/Tuesday - Southwestern WV Wednesday - Northern half of WV	Mainly in afternoon/evening, cannot rule out for nighttime/morning
Heavy Rain/Excessive Rainfall 	Heavy downpours may lead to localized flooding	Today - southern half of WV Tuesday - All of WV Wednesday - Most of WV	Mainly in afternoon/evening, cannot rule out for nighttime/morning



Outlook

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Today

→ Unsettled with storms and showers threat

Tue

→ Warm front providing showers and storms threat

Wed

→ A little less active although showers and storms ahead of a cold front

Thur

→ High pressure, pop-up showers and storms potential

Fri

→ Pop-up showers and storms potential



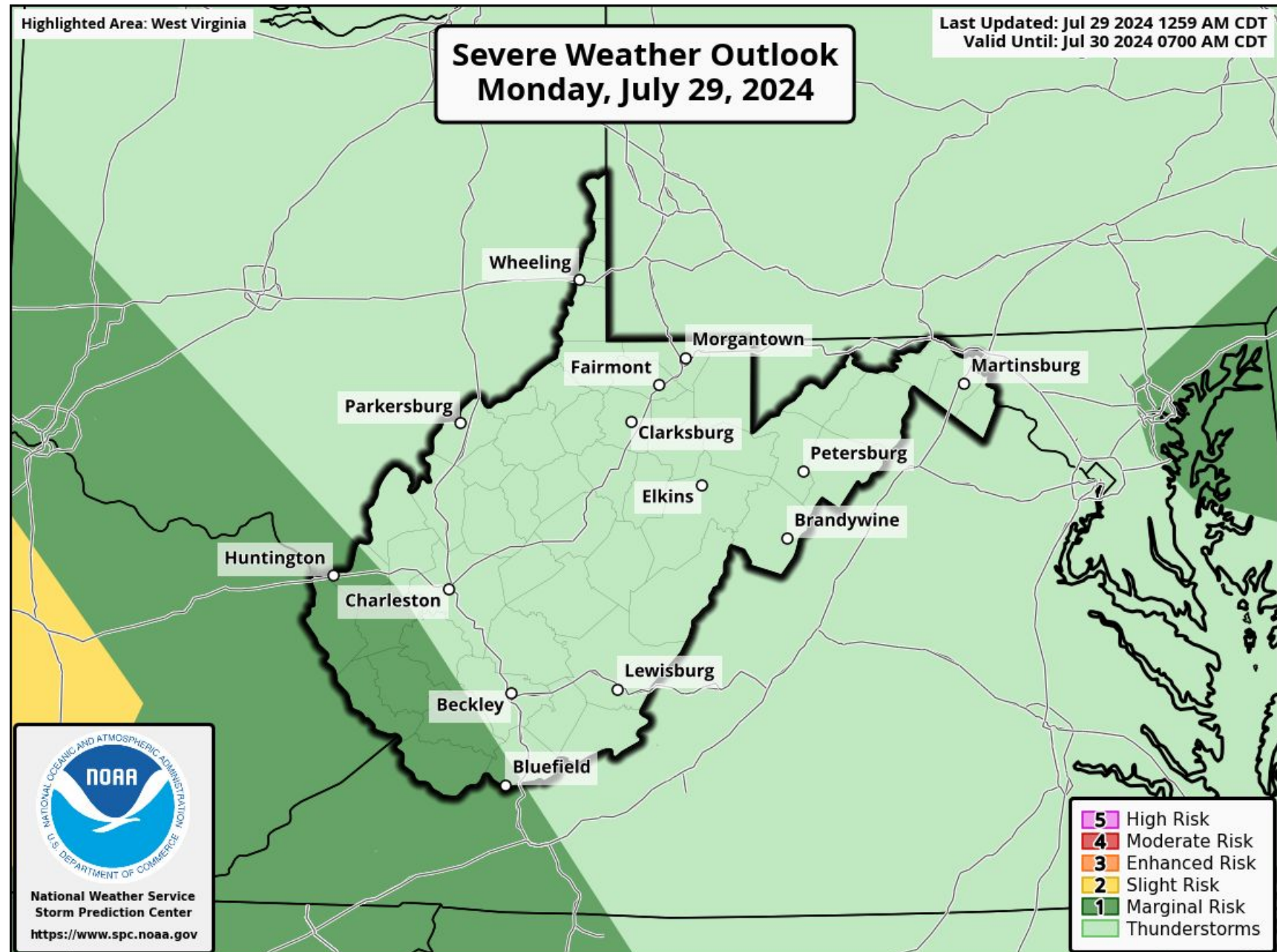
Severe Weather Outlook

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Day 1 Outlook (Today)

Key Points:

- Isolated risk of strong to severe storms across southwest WV.
- Main threat damaging wind but cannot rule out hail.

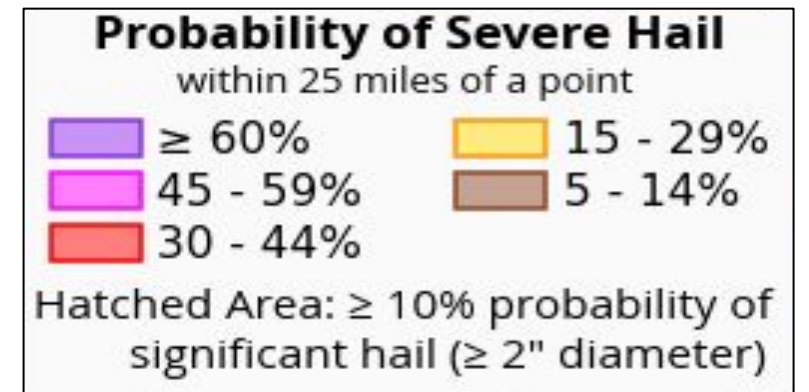
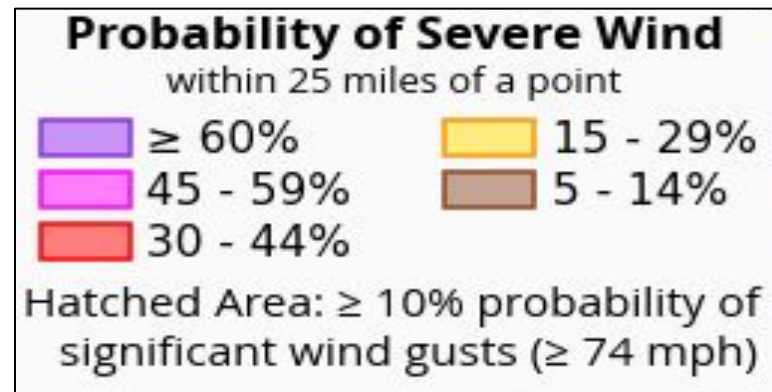
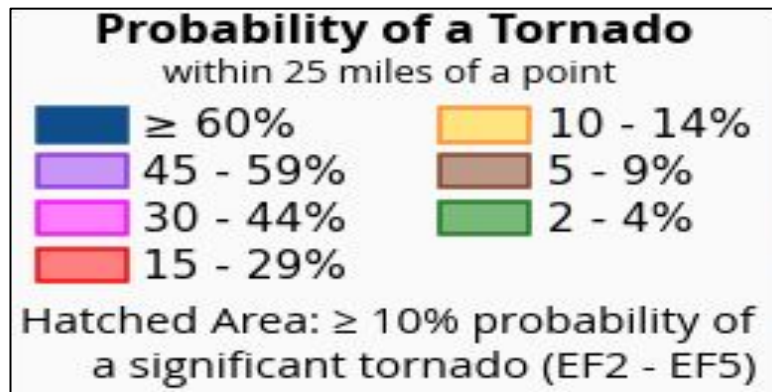
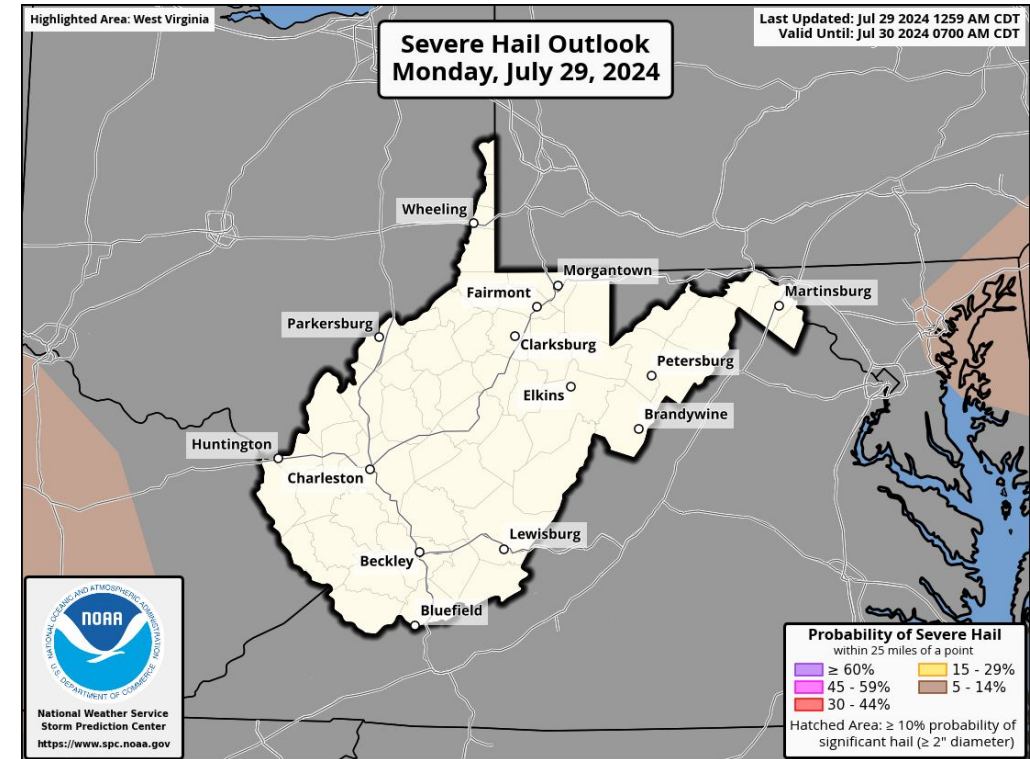
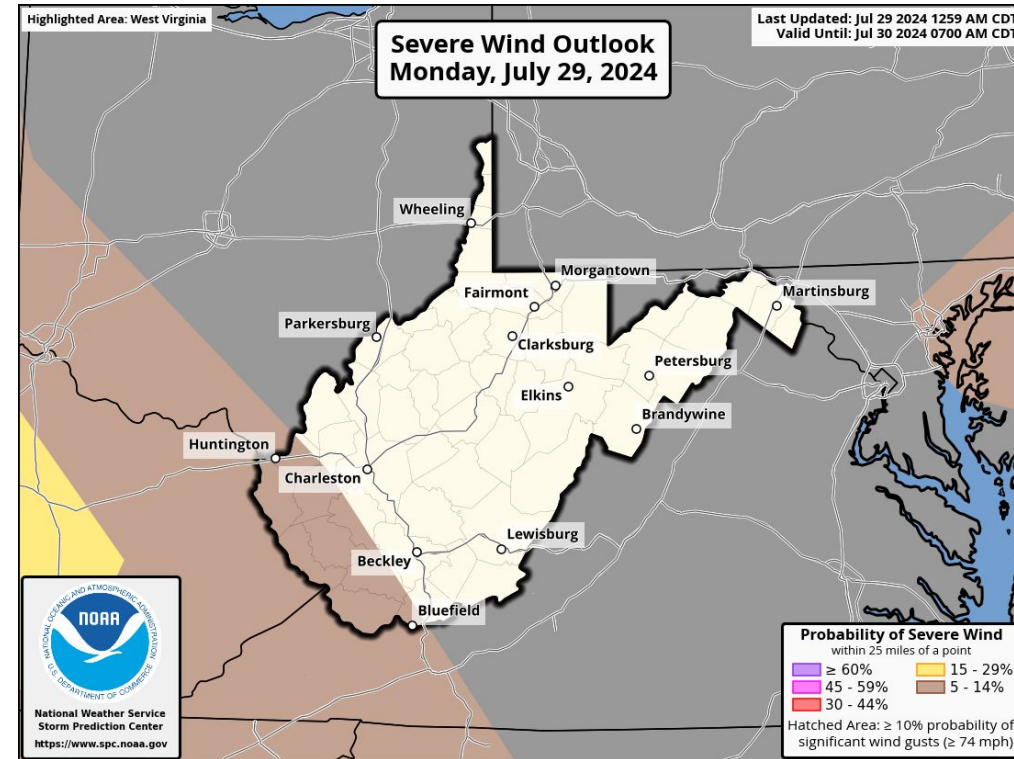
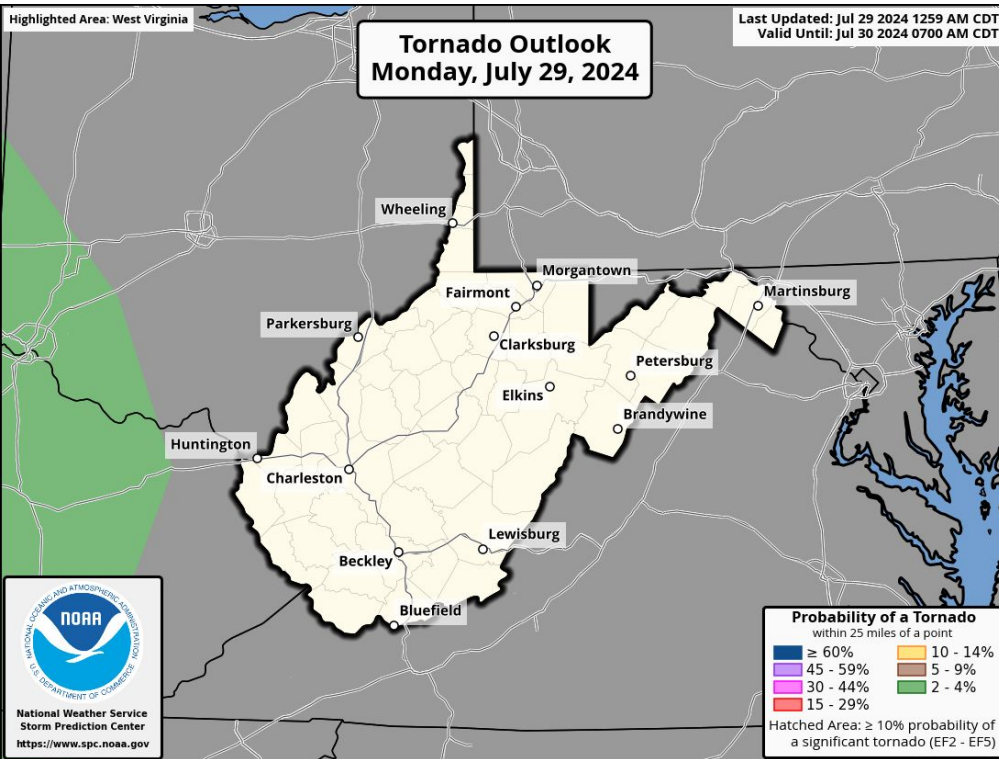




Severe Weather Outlook

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Day 1 - Tornado, Wind & Hail Outlooks





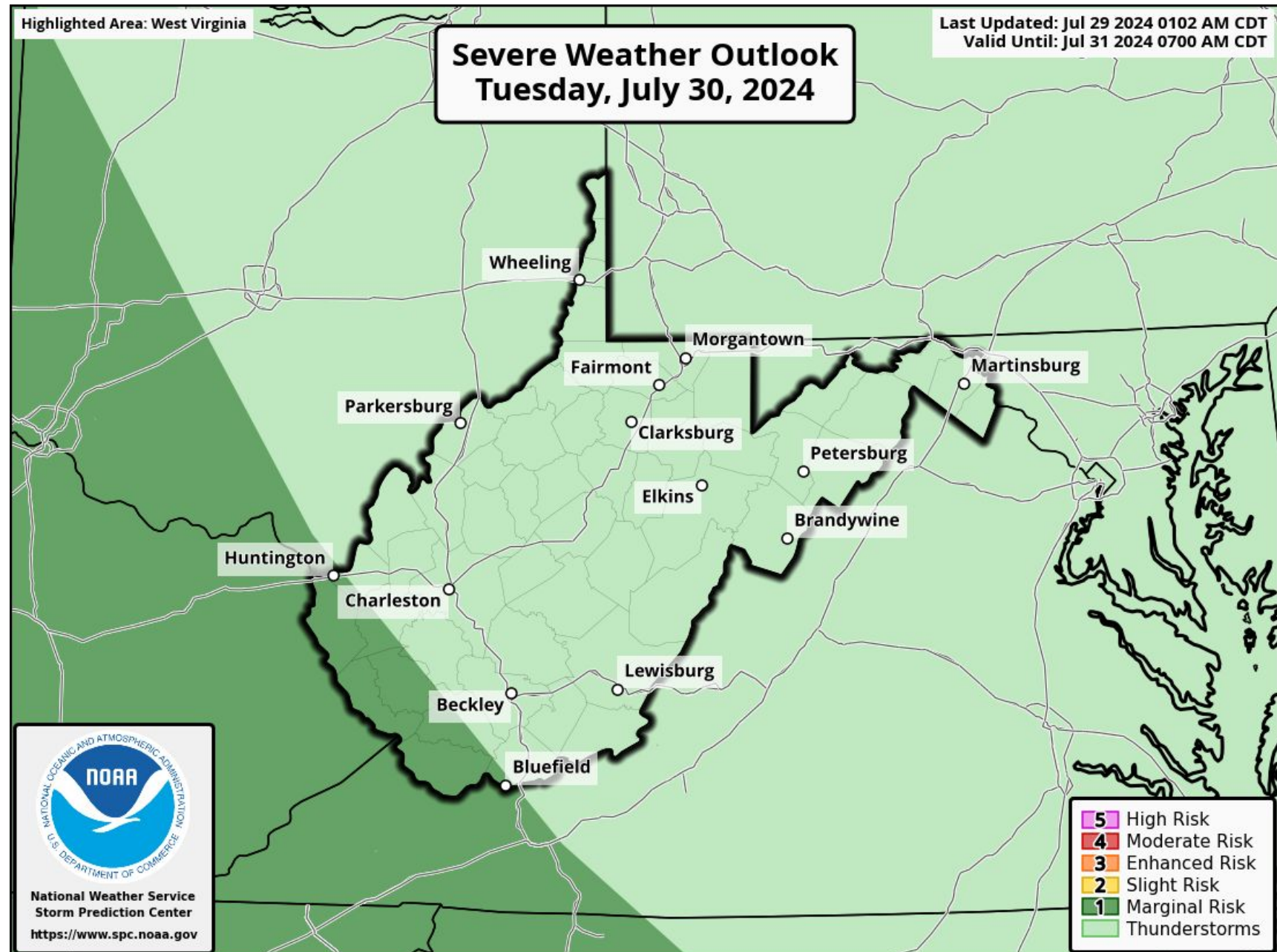
Severe Weather Outlook

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Day 2 Outlook (Tomorrow)

Key Points:

- Again, isolated threat of strong to severe storms across southwest WV.
- The main threat is damaging wind but cannot rule out hail.

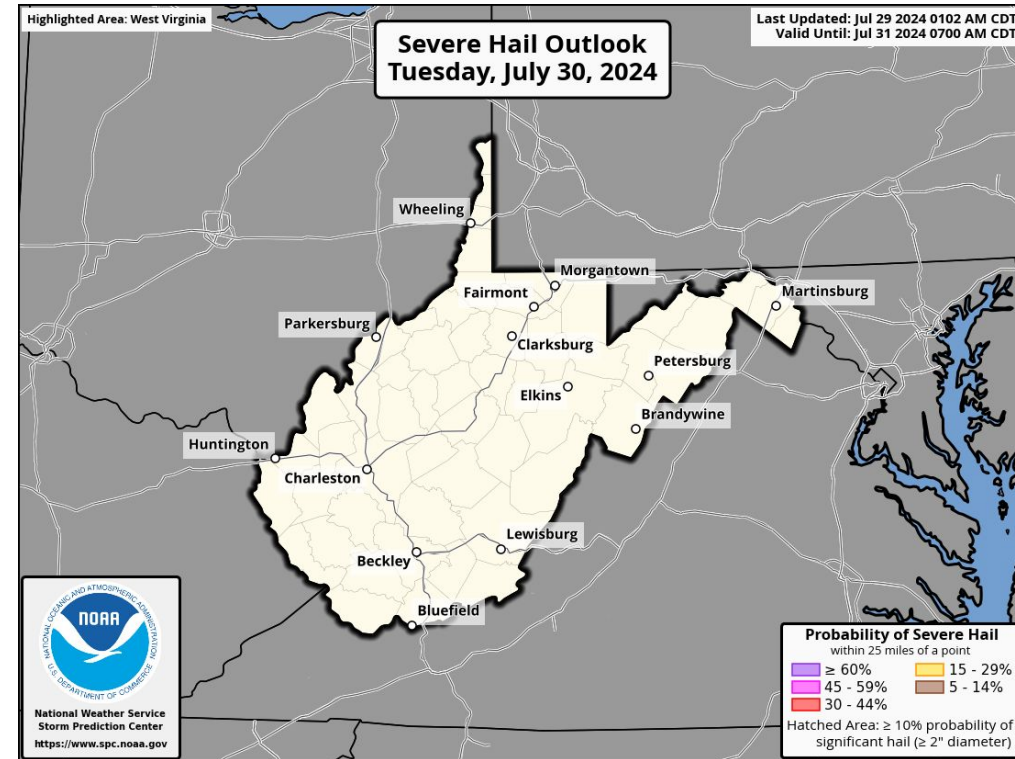
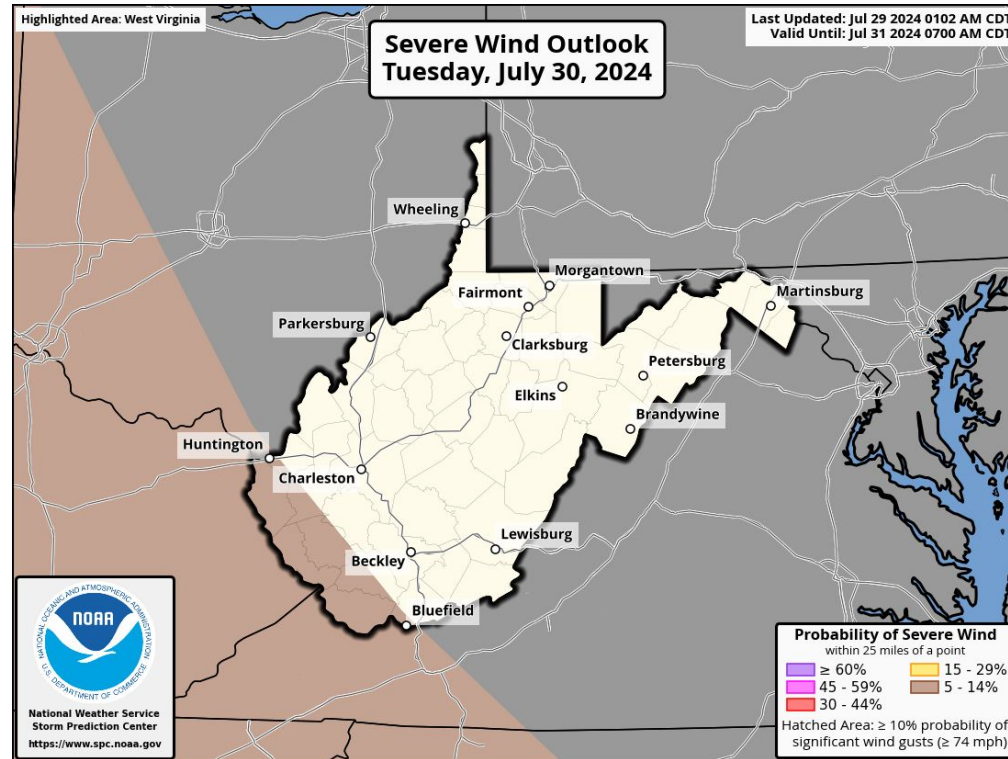
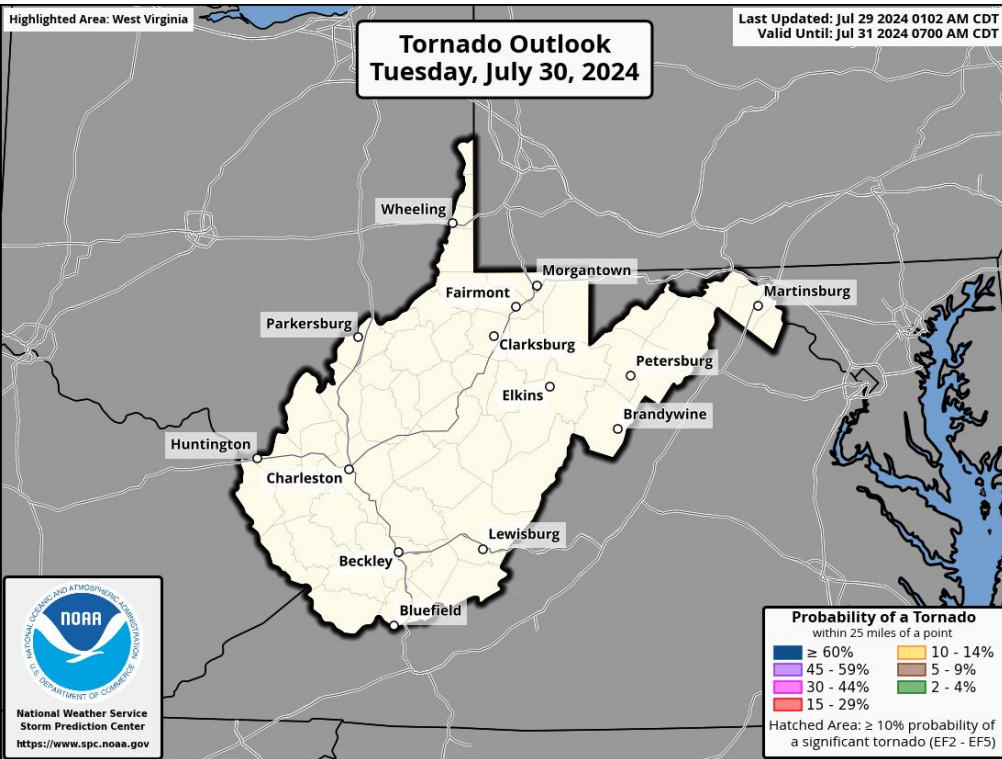




Severe Weather Outlook

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Day 2 - Tornado, Wind & Hail Outlooks



Probability of a Tornado
within 25 miles of a point

Dark Blue	≥ 60%	Orange	10 - 14%
Light Blue	45 - 59%	Brown	5 - 9%
Pink	30 - 44%	Green	2 - 4%
Red	15 - 29%		

Hatched Area: ≥ 10% probability of a significant tornado (EF2 - EF5)

Probability of Severe Wind
within 25 miles of a point

Purple	≥ 60%	Yellow	15 - 29%
Pink	45 - 59%	Brown	5 - 14%
Red	30 - 44%		

Hatched Area: ≥ 10% probability of significant wind gusts (≥ 74 mph)

Probability of Severe Hail
within 25 miles of a point

Purple	≥ 60%	Yellow	15 - 29%
Pink	45 - 59%	Brown	5 - 14%
Red	30 - 44%		

Hatched Area: ≥ 10% probability of significant hail (≥ 2" diameter)



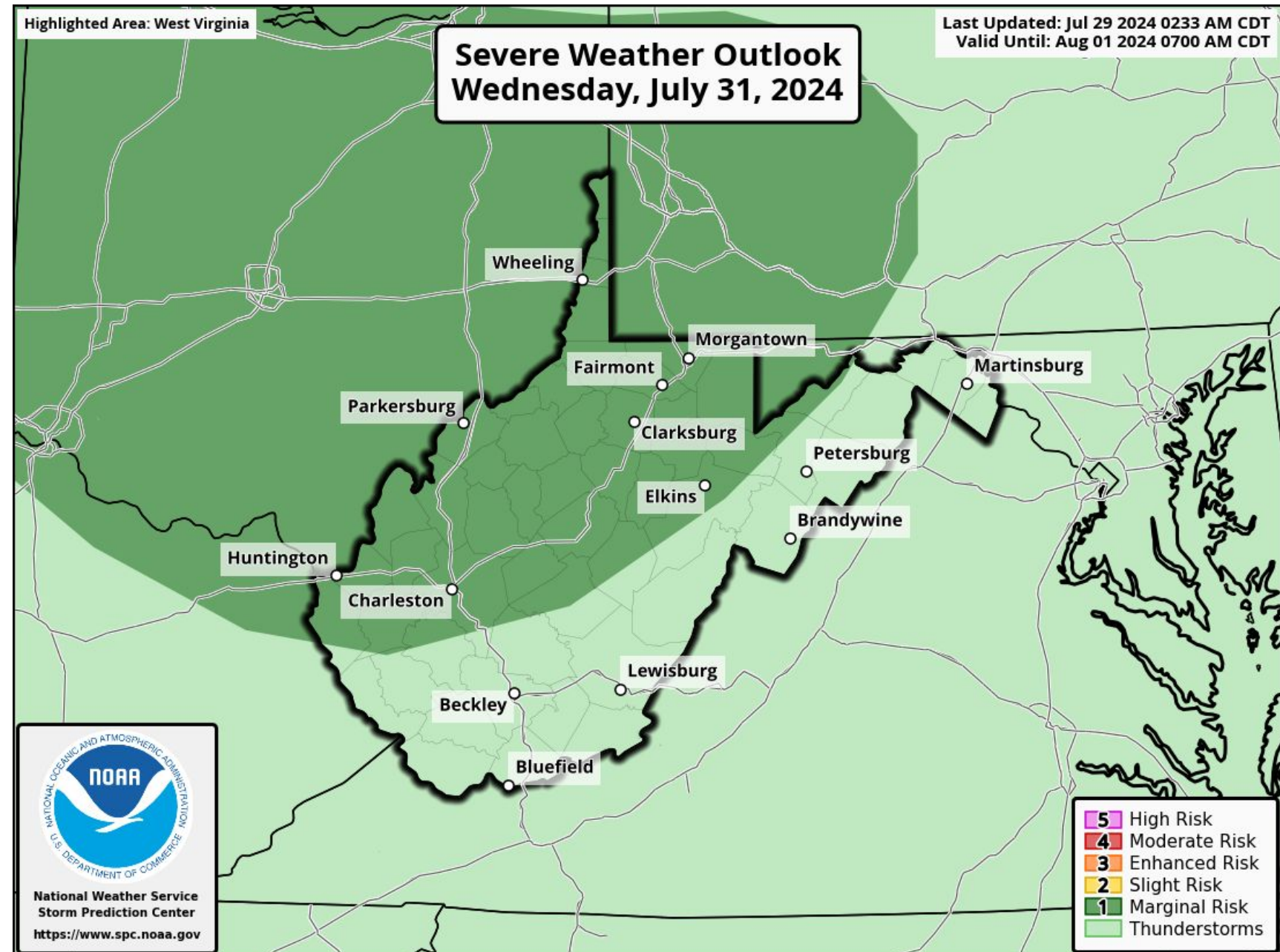
Severe Weather Outlook

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Day 3 Outlook

Key Points:

- Isolated risk for strong to severe storms for the northwestern half of WV.
- The main threat is damaging wind but cannot rule out hail.





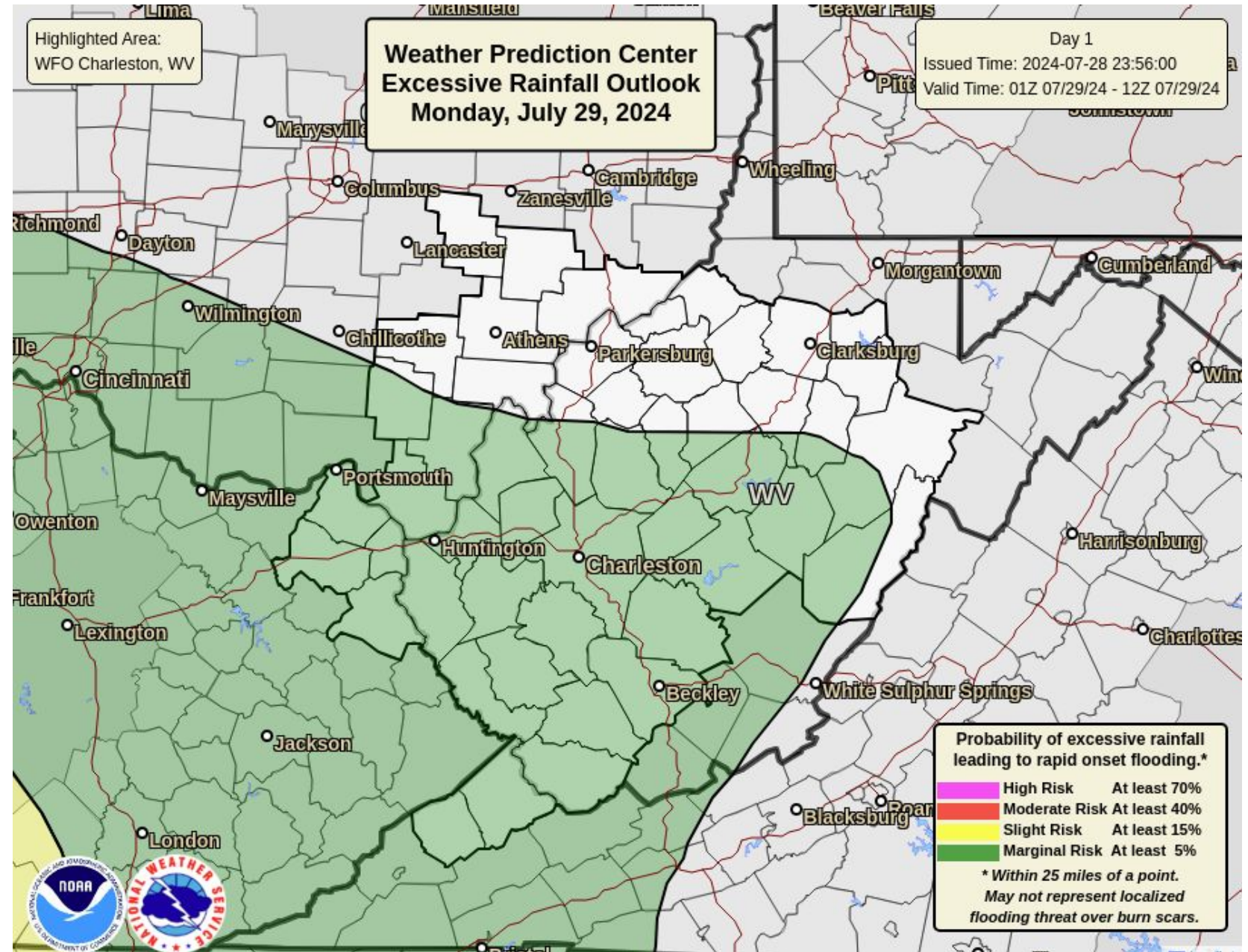
Excessive Rainfall Outlook

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Day 1 Outlook (Today)

Key Points:

- Heavy downpours under thunderstorm activity could lead to localized flooding.





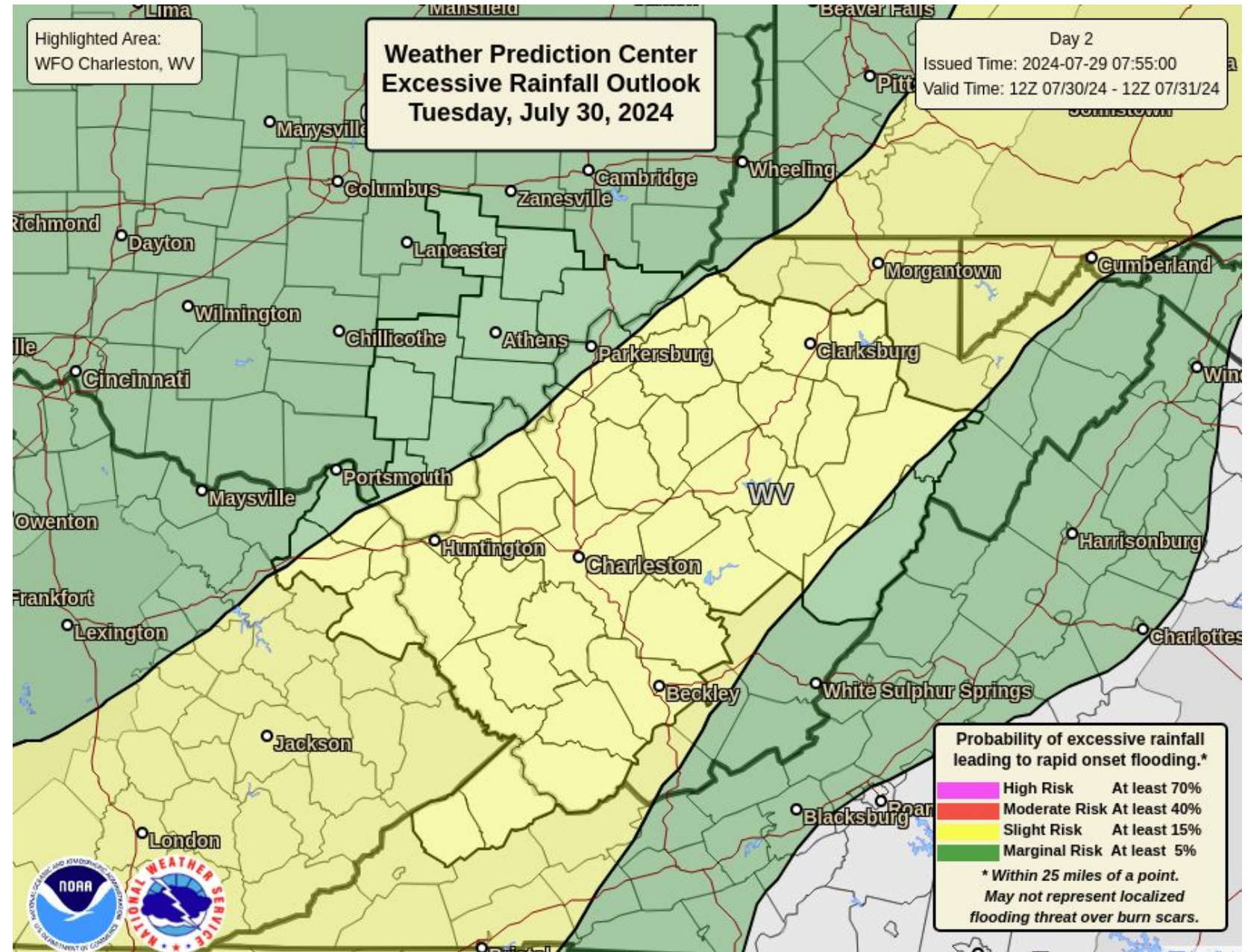
Excessive Rainfall Outlook

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Day 2 Outlook (Tomorrow)

Key Points:

- Heavy downpours under thunderstorm activity could lead to localized flash flooding.
- Most of the rain will be beneficial. The greatest threat for flooding will be across urban and low-lying areas.





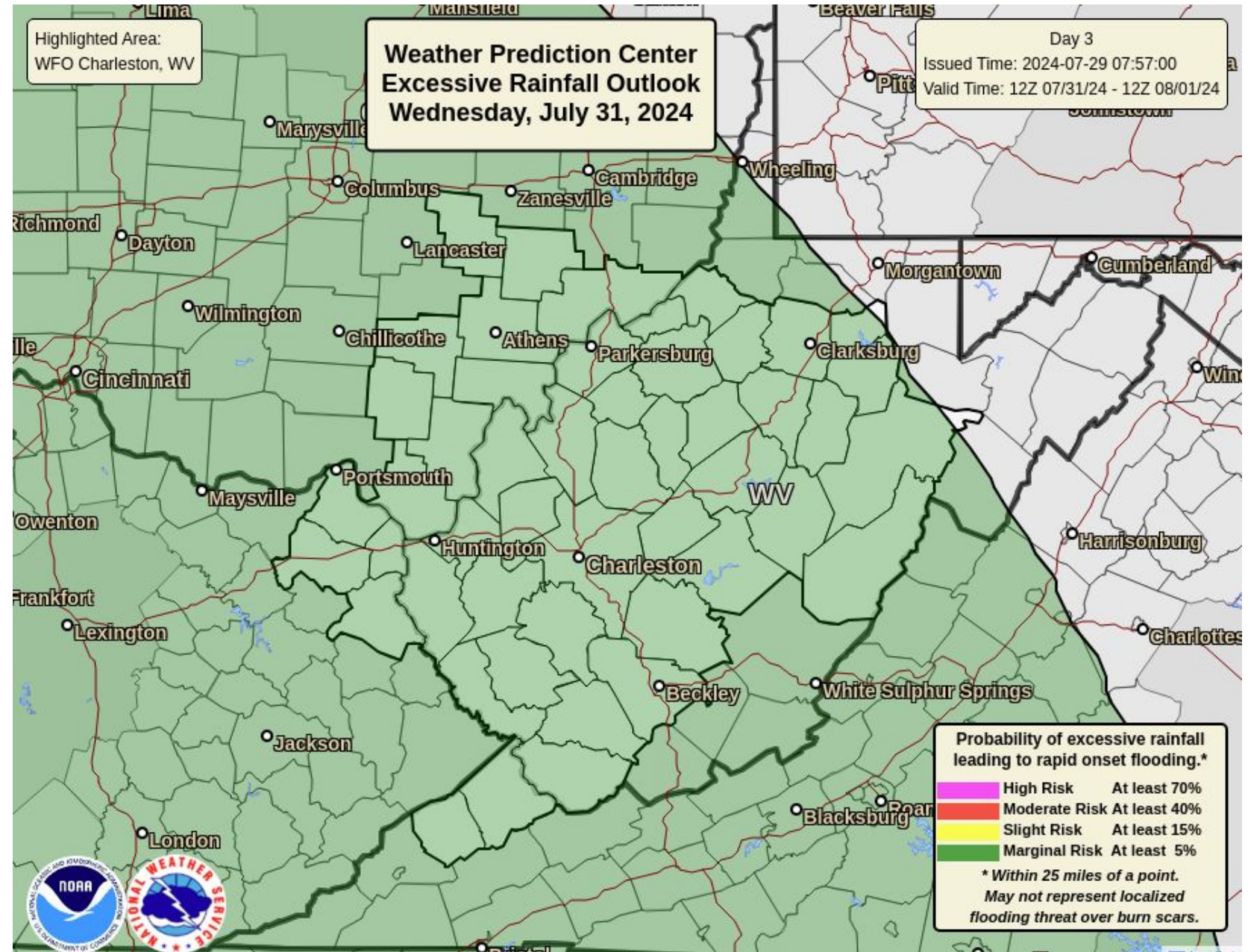
Excessive Rainfall Outlook

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Day 3 Outlook

Key Points:

- Heavy downpours under thunderstorm activity could lead to localized flash flooding.





Precipitation Timing

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Key Points

- Greater chances for rain Tuesday.
- Lower chances for the rest of the time and mostly during the afternoons and evenings which will have higher probability.

	Probability of Precipitation Forecast (%)																																						
	7/29 Mon						7/30 Tue						7/31 Wed						8/1 Thu						8/2 Fri														
	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	
Beckley	65	90	35	45	40	30	20	50	80	80	85	90	90	80	65	50	35	40	45	50	50	40	30	35	30	25	25	35	35	30	30	35	35	40	50	55	50		
Bluefield	50	55	60	55	45	55	55	60	30	45	75	85	85	80	60	55	25	25	35	35	45	40	25	25	20	15	15	30	30	20	20	20	20	30	30	50	50	40	
Charles Town	0	0	5	20	20	25	10	10	15	15	0	60	80	50	50	10	10	10	10	20	20	10	10	5	5	15	15	15	15	20	20	20	20	45	45	45	45	35	
Charleston	75	75	60	65	50	25	25	60	80	80	85	85	80	70	60	40	30	30	30	35	35	40	40	35	35	25	25	30	35	40	45	45	45	40	40	50	55	55	
Clarksburg	10	40	55	90	70	35	25	40	55	65	65	80	85	80	65	40	25	25	30	35	35	35	35	30	30	30	30	35	40	45	50	50	45	40	40	50	55	55	
Elkins	15	40	55	90	65	45	25	30	50	65	70	85	90	80	65	45	30	40	50	50	45	35	30	30	30	30	35	40	40	40	40	40	40	45	55	60	55		
Huntington	85	50	55	60	75	45	45	55	75	85	85	85	80	65	50	35	25	30	30	40	40	40	35	35	30	25	25	35	40	45	50	45	45	40	40	55	60	60	
Lewisburg	30	45	60	65	55	55	50	40	20	40	70	90	90	80	50	45	20	20	35	35	40	35	20	20	20	20	20	35	35	15	15	20	20	30	30	55	55	30	
Logan	100	60	55	65	50	30	25	70	85	85	90	90	85	75	60	50	40	40	45	50	50	40	35	35	35	30	25	35	40	35	35	40	40	40	40	50	55	50	
Martinsburg	0	0	5	20	20	25	10	15	20	15	5	60	80	50	50	10	10	10	10	20	20	10	10	5	5	15	15	15	15	20	20	20	20	45	45	45	45	35	
Moorefield	0	0	20	55	35	25	15	10	5	10	60	85	65	45	45	10	10	15	15	25	25	15	15	10	10	25	25	25	25	25	25	25	25	25	25	55	55	55	35
Morgantown	5	5	15	40	35	15	10	15	30	50	50	85	85	70	70	20	20	20	20	30	30	30	30	30	30	20	20	35	35	45	45	45	45	30	30	55	55	50	
Parkersburg	35	40	70	90	60	45	40	40	60	65	65	80	80	65	45	30	15	20	20	30	40	35	35	35	30	25	25	35	45	50	50	55	50	40	35	55	65	60	
Romney	0	0	10	35	30	25	15	10	10	10	55	90	65	45	45	10	10	15	15	25	25	10	10	10	10	20	20	20	20	25	25	25	25	50	50	50	50	35	
Snowshoe	20	50	70	90	60	40	20	25	55	65	75	85	85	70	55	40	30	40	45	45	40	35	25	25	25	25	25	35	35	30	30	30	35	35	40	50	55	50	
Sutton	55	65	85	95	65	30	20	45	75	75	75	85	85	80	65	40	25	30	35	40	45	40	35	30	30	30	30	35	40	40	45	45	45	40	40	50	55	55	
Wheeling	5	5	25	45	35	15	5	15	30	45	45	85	85	45	45	10	10	10	10	25	25	25	25	25	25	20	20	40	40	50	50	50	50	30	30	60	60	45	
Williamson	90	60	90	80	60	30	30	65	80	90	90	90	85	75	65	50	40	40	45	50	50	40	35	35	30	25	25	35	40	40	40	40	40	40	40	50	60	55	



Max/Min Temperatures

July 29, 2024
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Key Points

- Cooler weather to start the new work week, however another warming trend will commence by midweek.
- Another cool down should be on Saturday, but then by Sunday another warming trend will commence.

Temperature Forecast (°F)

		7/29	7/30	7/31	8/1	8/2	8/3	8/4	8/5
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
Beckley	High: 75 Low: 66	78 65	82 68	86 68	86 69	82 67	81 66	83 64	
Bluefield	High: 74 Low: 65	78 65	82 66	86 66	85 67	81 66	81 65	81 64	
Charles Town	High: 94 Low: 68	86 70	93 71	96 71	95 73	92 71	91 71	90 70	
Charleston	High: 82 Low: 71	85 70	89 72	94 72	93 74	89 71	89 70	90 67	
Clarksburg	High: 78 Low: 66	81 67	86 69	89 69	90 70	85 68	86 67	87 64	
Elkins	High: 77 Low: 65	80 65	84 68	87 67	88 69	84 67	84 66	85 64	
Huntington	High: 85 Low: 71	88 70	92 73	96 73	93 75	89 72	90 70	91 68	
Lewisburg	High: 75 Low: 64	80 64	84 66	86 65	87 67	83 66	83 65	84 64	
Logan	High: 80 Low: 70	82 68	86 72	91 71	90 73	85 71	85 69	87 67	
Martinsburg	High: 96 Low: 68	86 71	94 73	96 71	95 74	92 72	92 72	91 70	
Moorefield	High: 90 Low: 65	87 67	94 69	96 67	95 70	93 68	93 68	91 66	
Morgantown	High: 81 Low: 66	80 67	87 68	89 68	89 70	84 68	86 67	87 65	
Parkersburg	High: 81 Low: 70	84 69	89 70	92 71	91 73	86 70	87 68	89 66	
Romney	High: 93 Low: 65	86 67	94 69	96 68	94 71	92 69	92 68	92 65	
Snowshoe	High: 64 Low: 60	68 60	73 62	75 63	75 64	73 63	72 62	72 60	
Sutton	High: 79 Low: 68	82 67	86 70	91 70	90 71	87 70	87 68	88 66	
Wheeling	High: 81 Low: 67	81 69	90 69	91 70	90 71	86 69	88 68	89 66	
Williamson	High: 80 Low: 70	84 70	88 72	92 72	90 73	86 71	86 69	87 68	



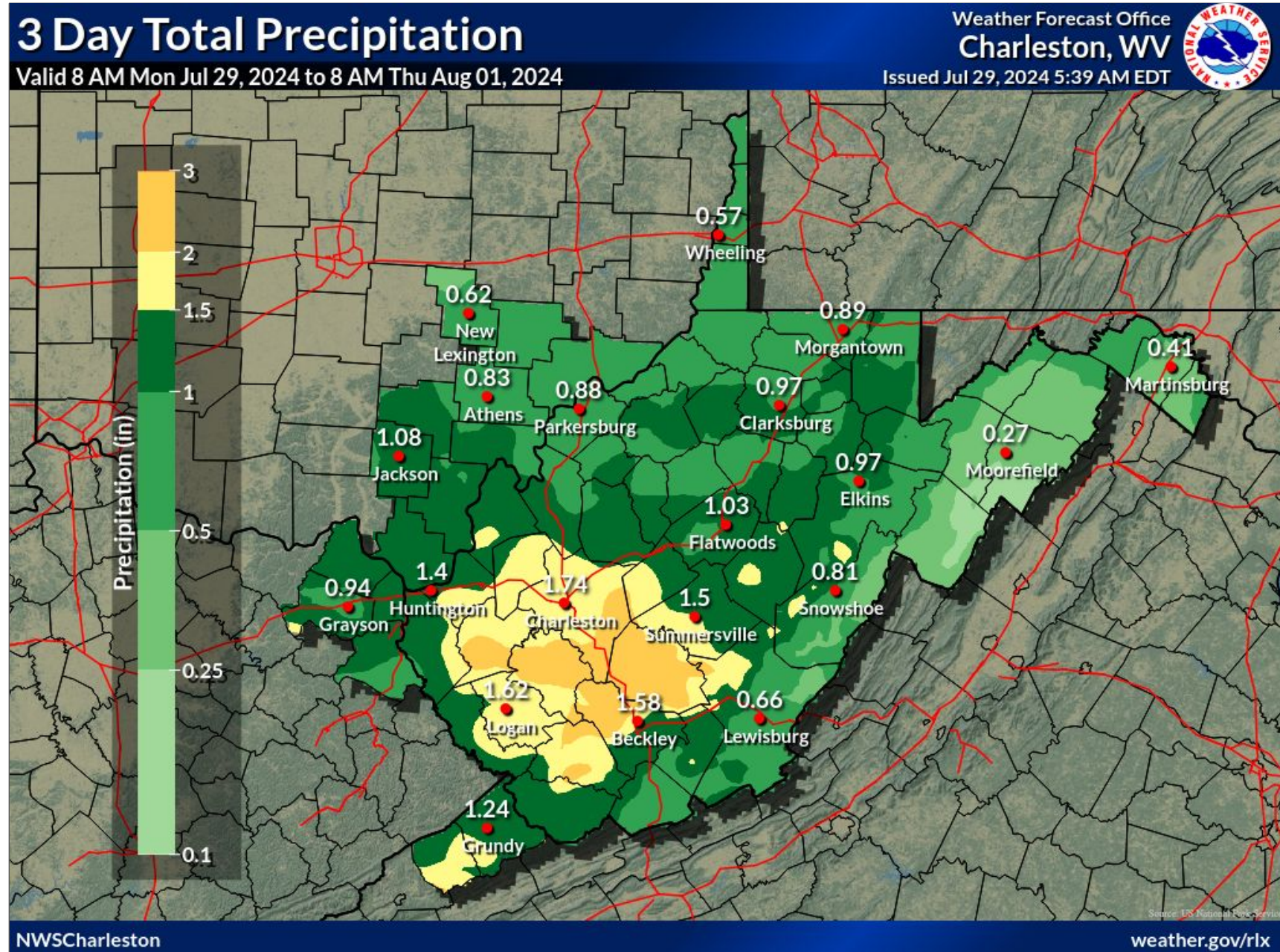


Rainfall Outlook

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Key Points:

- Total rainfall expected over the next several days and along with thunderstorm potential values could potentially become greater and can be beneficial to the drought.





Drought Monitor

July 29, 2024
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Key Points



Legend

Drought & Dryness Categories

	% of WV
 D0 - Abnormally Dry	4.7%
 D1 - Moderate Drought	42.9%
 D2 - Severe Drought	36.8%
 D3 - Extreme Drought	15.7%
 D4 - Exceptional Drought	0.0%
 Total Area in Drought (D1-D4)	95.3%





Summary and Greatest Impacts

July 29, 2024
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	Monday, Jul 29	Tuesday, Jul 30	Wednesday, Jul 31	Thursday, Aug 1	Friday, Aug 2
Severe Weather Wind / Hail	Southwest WV	Southwest WV	Northwestern half of WV		
Heavy Rain	Southwestern half of WV	Area-wide	Most of WV, except eastern panhandle		

This outlook depicts timing and magnitude of potential impacts from excessive rainfall which could lead to flash flooding and/or flooding on streams and rivers.

Potential aggravating factors such as pre-existing conditions and time of year are also taken into consideration.

Risk Levels	No/None	Limited	Elevated	Significant	Extreme
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Contact & Next Briefing Information

July 29, 2024
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Briefing Webpage

→ weather.gov/rlx/briefing



Next Briefing

→ By 10 AM [Friday, 2nd]
→ Method: Google Meet



Disclaimer

→ Information contained in this briefing is time-sensitive
→ Do Not Use After: July 29, 2024



Contact Information

Web

→ weather.gov/rlx

Phone

→ (304) 356-5885

Email

→ rlx.ops@noaa.gov

Facebook

→ facebook.com/NWSCharlestonWV

Twitter

→ [@NWSCharlestonWV](https://twitter.com/NWSCharlestonWV)

