

December 31st – January 3rd Heavy Rainfall/Flooding and Snowfall

National Weather Service Charleston, WV

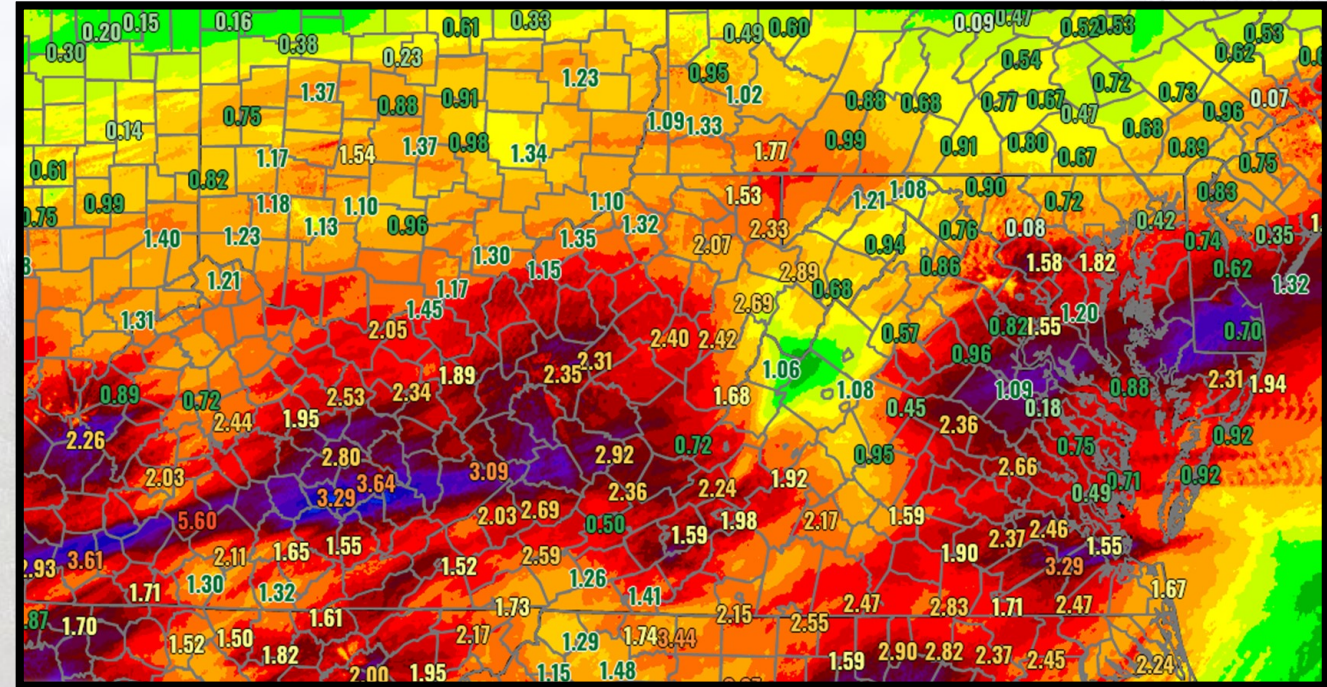
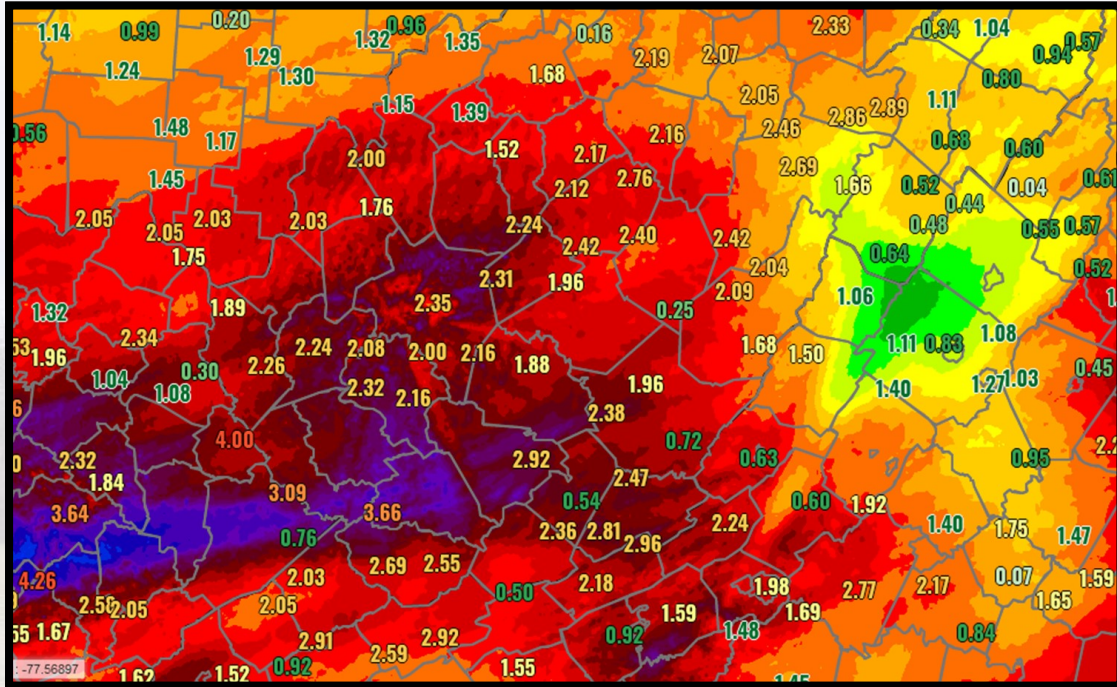


Photo courtesy of the National
Weather Service Charleston, WV

December 31st – January 2nd Heavy Rainfall/Flooding Overview

Waves of rain, moderate to heavy at times, affected the region over an extended period as a frontal boundary lingered across the area with waves of low pressure moving along it. Scattered showers initially moved in during the afternoon and evening hours of December 31st. Rainfall would then quickly increase in coverage and intensity during the early morning hours of January 1st, with widespread rain affecting the region by dawn. Precipitation would gradually lift northward throughout the day into northern portions of the Charleston NWS forecast area, before shifting back southeast across the region, with gusty winds at times, during the evening and into the early morning hours of January 2nd as a cold front swept through. Most rainfall would push east of the region by 5 AM January 2nd. Widespread rainfall totals of 1-3" were reported, with some isolated locations across Virginia and West Virginia having totals of 3-4". Rainfall of this magnitude led to numerous flood warnings being issued across the county warning area, with several creeks and rivers exceeding flood stage, along with numerous reports of water across roadways.

Storm Total Rainfall – December 31 through January 2, 2022



Widespread rainfall totals of 1-3" were reported across the region, with some isolated locations across Virginia and West Virginia having totals of 3-4". On the left is a local perspective of rain totals, while on the right is a regional perspective.

48 Hour Storm Total Rainfall Reports Ending Sunday Afternoon, January 2nd

Location	Amount	Time/Date
...Kentucky...		
...Boyd County...		
Ashland	1.98 in	0448 PM 01/02
...Carter County...		
Grayson	2.41 in	0400 PM 01/02
Olive Hill 5 NE	2.31 in	0749 AM 01/02
Rush 1.1 W	2.03 in	1054 AM 01/02
4.7 E Carter Caves State Par	1.96 in	1200 PM 01/02
3.0 NE Grayson Lake State Pa	1.89 in	0430 PM 01/02
...Greenup County...		
Warnock	2.02 in	0530 AM 01/02
Greenup 5.8 W	1.74 in	0800 AM 01/02
Warnock Po	1.56 in	0450 PM 01/02
Ashland Airport	1.52 in	0356 PM 01/02
...Lawrence County...		
6.9 E Bruin	1.68 in	0345 PM 01/02
Louisa 1 S	1.22 in	0445 PM 01/02
...Ohio...		
...Athens County...		
Albany 0.6 NW	1.49 in	0907 AM 01/02
Nelsonville 1.4 W	1.35 in	0838 AM 01/02
Albany 4.1 NW	1.29 in	0700 AM 01/02
Athens 2.3 SSE	1.28 in	0700 AM 01/02
Athens 4.6 ESE	1.28 in	0800 AM 01/02
Stewart 4.6 NNE	1.25 in	0700 AM 01/02
5.9 SE Amesville	1.20 in	0300 PM 01/02
Athens 3.5 WSW	1.18 in	0800 AM 01/02
Athens 6.0 NW	1.15 in	0800 AM 01/02
Glouster 3.6 SW	1.08 in	0700 AM 01/02
Athens	1.08 in	0445 PM 01/02
Albany	1.02 in	0450 PM 01/02
Athens 1.3 N	0.99 in	0700 AM 01/02
Athens Airport	0.91 in	0435 PM 01/02
...Gallia County...		
5.0 W Gallipolis	2.32 in	0100 PM 01/02
Gallipolis	2.09 in	1000 AM 01/02
...Jackson County...		
Jackson 3 NW	1.16 in	0645 AM 01/02
...Lawrence County...		
1.6 E Burlington	1.98 in	0400 PM 01/02
Dean	1.78 in	0412 PM 01/02
...Meigs County...		
Cheshire 2.3 NNE	1.89 in	0600 PM 01/01
Salem Center 2 E	1.46 in	0700 AM 01/02
Albany	1.32 in	0100 PM 01/02
...Morgan County...		
Glouster 5.7 NE	1.08 in	0700 AM 01/02

...Perry County...		
Somerset 1.7 NW	1.70 in	0700 AM 01/02
1.4 S New Lexington	1.68 in	0700 AM 01/02
New Lexington 2 NW	1.21 in	0700 AM 01/02
5.5 NE Logan	1.04 in	0200 AM 01/02
...Vinton County...		
Zaleski	1.29 in	0351 PM 01/02
Albany 4.5 WNW	1.21 in	0700 AM 01/02
Vinton Furnace	0.92 in	0307 PM 01/02
...Washington County...		
Newport	1.48 in	0830 AM 01/02
1.2 SE Marietta	1.13 in	1200 AM 01/02
10.7 NW Blennerhassett	1.08 in	0100 AM 01/02
1.0 S Lower Salem	1.00 in	0900 AM 01/02
...Virginia...		
...Buchanan County...		
6.2 NW Honaker	3.23 in	0400 PM 01/02
0.7 N Davenport	2.48 in	0430 PM 01/02
Grundy	2.05 in	0700 AM 01/02
2.4 W Vansant	2.04 in	0410 PM 01/02
5.3 SE Hurley	1.88 in	0400 PM 01/02
2.2 SE Toonerville	1.67 in	0430 PM 01/02
4.6 N Dye	1.36 in	0400 PM 01/02
...Dickinson County...		
Nora 4 SSE	2.64 in	0700 AM 01/02
6.2 NE Coeburn	1.84 in	0400 PM 01/02
John Flannagan Lake	1.82 in	0430 PM 01/02
1.5 NE John Flannagan Lake	1.66 in	0400 PM 01/02
7.4 NW Cleveland	1.16 in	0400 PM 01/02
...West Virginia...		
...Barbour County...		
3 SE Philippi	2.49 in	0450 PM 01/02
Philippi	2.12 in	0400 PM 01/02
Bellington	2.11 in	0430 PM 01/02
Bellington	1.52 in	1200 PM 01/02
Bellington	1.45 in	0448 PM 01/02
...Boone County...		
Madison 3 NNW	2.40 in	0805 AM 01/02
Danville 1.8 WSW	2.26 in	0700 AM 01/02
...Braxton County...		
8.7 W Gassaway	3.16 in	1100 AM 01/02
Sutton	2.66 in	0345 PM 01/02
Gassaway	2.34 in	0700 AM 01/02
Flatwoods	2.33 in	0417 PM 01/02
1.6 E Burnsville	2.16 in	0430 PM 01/02
8.2 SW Gassaway	1.92 in	0400 PM 01/02
5.8 NW Birch River	1.81 in	0415 PM 01/02
7.0 E Flatwoods	1.81 in	0430 PM 01/02
Sutton	1.22 in	0446 PM 01/02

...Cabell County...		
Ona	2.19 in	0448 PM 01/02
Huntington 2.9 E	2.10 in	0620 AM 01/02
Huntington 1.7 ESE	2.04 in	0800 AM 01/02
Huntington 1.0 S	1.98 in	0800 AM 01/02
Salt Rock	1.86 in	0446 PM 01/02
Ona	1.60 in	0448 PM 01/02
Ona	1.47 in	0450 PM 01/02
...Calhoun County...		
8.3 S Arnoldsburg	2.72 in	0100 PM 01/02
1.6 NE Grantsville	2.19 in	1100 AM 01/02
4.4 SW Grantsville	1.88 in	0300 PM 01/02
0.9 SE Grantsville	1.72 in	0600 AM 01/02
Grantsville	1.64 in	0400 PM 01/02
...Doddridge County...		
Auburn 8.3 ENE	2.16 in	0800 AM 01/02
West Union 5.9 NE	1.98 in	0700 AM 01/02
West Union 5.6 ESE	1.88 in	0830 AM 01/02
4.6 W Salem	1.84 in	0800 AM 01/02
4.0 S West Union	1.64 in	0300 PM 01/02
Center Point 2.2 NNW	1.54 in	0700 AM 01/02
West Union 8.2 NE	1.52 in	0635 AM 01/02
...Fayette County...		
0.6 S Thurmond	2.09 in	0345 PM 01/02
...Gilmer County...		
6.2 SW Cedar Creek State Par	2.56 in	1200 PM 01/02
Auburn 4.0 E	2.08 in	0750 AM 01/02
2.2 S Glenville	2.08 in	0430 PM 01/02
Glenville 5.9 W	2.05 in	0700 AM 01/02
Glenville	1.50 in	0530 AM 01/02
Rosedale 3 NNW	1.49 in	0840 AM 01/02
...Harrison County...		
Clarksburg	2.50 in	0600 AM 01/02
Clarksburg Airport	2.05 in	0353 PM 01/02
1.1 E Salem	1.87 in	0415 PM 01/02
Lost Creek 1.3 NW	1.83 in	0700 AM 01/02
Enterprise	1.45 in	0415 PM 01/02
Shinnston	1.26 in	0445 PM 01/02
...Jackson County...		
Ripley 5.8 S	2.21 in	0700 AM 01/02
Ravenswood	1.82 in	0447 PM 01/02
...Kanawha County...		
Charleston 3.9 WSW	3.21 in	0700 AM 01/02
St. Albans 0.5 ESE	2.81 in	0800 AM 01/02
St. Albans 5.1 WSW	2.47 in	0835 AM 01/02
Charleston	2.44 in	0447 PM 01/02
St. Albans 1.0 WNW	2.35 in	0904 AM 01/02
South Charleston 2.5 W	2.34 in	0700 AM 01/02
Charleston Airport	2.32 in	0354 PM 01/02
Alum Creek 3.0 E	2.28 in	0600 AM 01/02
3.8 E Clendenin	2.26 in	0400 PM 01/02
3.3 W Finch	2.24 in	1000 AM 01/02
Sissonville 1 SW	2.20 in	0700 AM 01/02
Southridge NWS	2.18 in	0700 AM 01/02
South Charleston 2.0 ESE	2.16 in	0800 AM 01/02
South Charleston 4.7 SSW	2.10 in	0700 AM 01/02
Charleston 2.6 W	2.09 in	0700 AM 01/02
Charleston 5.8 ENE	1.94 in	0700 AM 01/02
London Looks	1.89 in	0600 AM 01/02
South Charleston	1.79 in	0448 PM 01/02

...Lewis County...		
6.0 NW Rock Cave	2.48 in	1200 PM 01/02
4.4 SW Stonewall Jackson	2.36 in	0300 PM 01/02
Stonewall Jackson	2.04 in	0700 AM 01/02
5.1 W Weston	1.92 in	0445 PM 01/02
6.3 W Rock Cave	1.61 in	0415 PM 01/02
...Lincoln County...		
5.0 SW Hamlin	2.72 in	0200 PM 01/02
...Logan County...		
Logan	2.36 in	0414 PM 01/02
0.8 SE Logan	1.72 in	0345 PM 01/02
...Mason County...		
8.5 E Crown City	2.67 in	0100 PM 01/02
5.8 E Leon	2.20 in	1200 PM 01/02
0.9 N Henderson	1.85 in	0400 PM 01/02
...McDowell County...		
2.9 N Bradshaw	1.42 in	0400 PM 01/02
...Mingo County...		
1.7 W Delbarton	3.20 in	0200 PM 01/02
Williamson	3.04 in	0600 AM 01/02
0.5 W R.d. Bailey Lake	2.31 in	0345 PM 01/02
...Nicholas County...		
Birch River	2.13 in	0430 PM 01/02
Nettle 1.9 SSW	1.94 in	0700 AM 01/02
4.1 NW Richwood	1.92 in	0300 PM 01/02
2.1 S Craigsview	1.91 in	0430 PM 01/02
Nettle 2.8 NW	1.87 in	1000 AM 01/02
Runa 0.1 W	1.86 in	0700 AM 01/02
5.1 N Richwood	1.85 in	0430 PM 01/02
Craigsview 0.6 NE	1.80 in	0700 AM 01/02
6.0 NW Bingham	1.63 in	0415 PM 01/02
...Pleasants County...		
St. Marys 9.1 ESE	1.50 in	0700 AM 01/02
...Pocahontas County...		
Marlinton	1.62 in	0401 PM 01/02
Frost 3 NE	1.14 in	0625 AM 01/02
Snowshoe	1.12 in	0600 AM 01/02
Cass 3.7 SW	1.00 in	0700 AM 01/02
Bartow 1 S	0.90 in	0730 AM 01/02
...Putnam County...		
7.7 W Kenna	2.40 in	1200 PM 01/02
Hurricane 1.6 SSW	2.29 in	0730 AM 01/02
Eleanor 0.2 SSW	2.23 in	0800 AM 01/02
2.7 SE Buffalo	2.20 in	0600 AM 01/02
Culloden	1.94 in	0446 PM 01/02
...Raleigh County...		
8.0 W Glen Daniel	3.99 in	0400 PM 01/02
Grandview	3.34 in	0305 PM 01/02
Cool Ridge 0.4 NE	3.19 in	0630 AM 01/02
4.2 W Flat Top	3.18 in	0400 PM 01/02
Beckley Airport	2.61 in	0439 PM 01/02
Beckley	2.48 in	0700 AM 01/02
Beckley	2.21 in	0449 PM 01/02

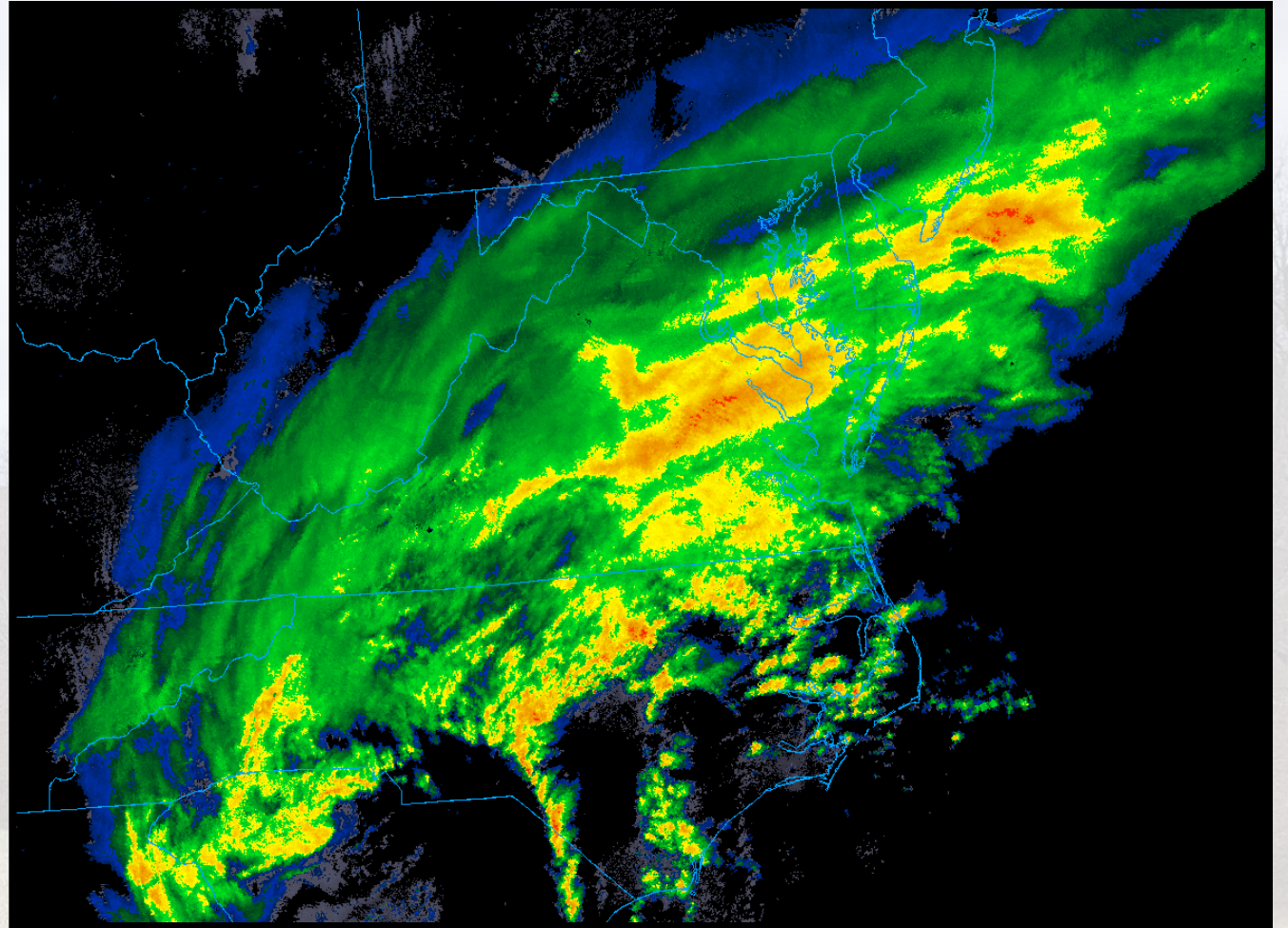
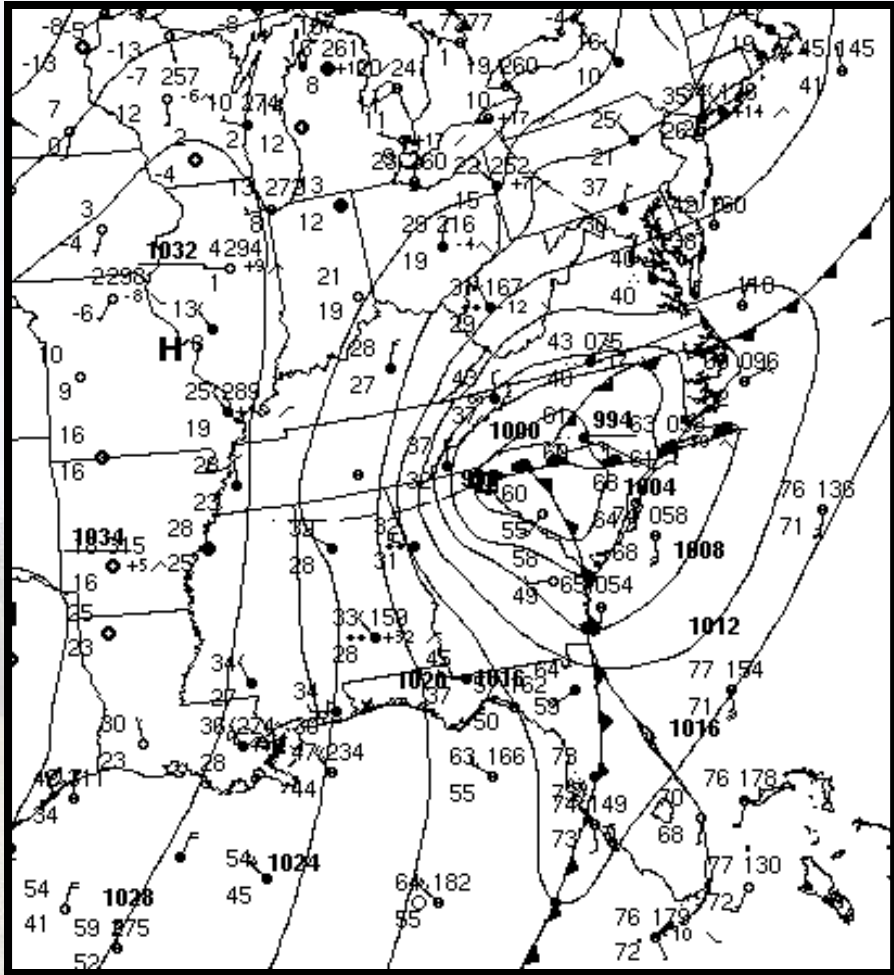
...Randolph County...		
3.0 W Womelsdorf (coalton)	3.00 in	0420 PM 01/02
Elkins Airport	2.68 in	0442 PM 01/02
4.5 E Elkins	2.49 in	0430 PM 01/02
5.8 NW Cass Scenic Railro	2.48 in	0400 PM 01/02
1.7 W Elkins	2.26 in	0430 PM 01/02
7.8 SW Harman	1.57 in	0430 PM 01/02
6.1 SE Huttonsville	1.24 in	0430 PM 01/02
8.8 E Holly River State	1.07 in	0345 PM 01/02
...Richie County...		
1.3 SE Ellenboro	1.96 in	1200 AM 01/02
8.5 S Cairo	1.88 in	1200 PM 01/02
Cairo	1.68 in	0600 AM 01/02
Pennboro 1.2 ESE	1.66 in	0700 AM 01/02
...Roane County...		
11.0 NE Clendenin	2.44 in	0300 PM 01/02
Spencer	2.36 in	0200 PM 01/02
Spencer	1.91 in	0700 AM 01/02
...Taylor County...		
4.3 W Newburg	2.20 in	0900 AM 01/02
1.3 E Grafton	1.95 in	0430 PM 01/02
1.0 N Tygart Lake State Park	1.40 in	0415 PM 01/02
...Tyler County...		
5.8 SW Jacksonburg	2.04 in	0100 PM 01/02
2.5 E Middlebourne	1.52 in	0200 PM 01/02
Middlebourne 3.2 ESE	1.40 in	0700 AM 01/02
Middlebourne 3 ESE	1.31 in	0700 AM 01/02
...Upshur County...		
Rock Cave 2 NE	2.55 in	0821 AM 01/02
Buckhannon 5.2 E	2.43 in	0700 AM 01/02
...Wayne County...		
East Lynn Lake	2.19 in	0430 PM 01/02
Huntington Airport	1.89 in	0351 PM 01/02
0.9 NW Wayne	1.41 in	0400 PM 01/02
Beech Fork State Park	1.27 in	0345 PM 01/02
...Webster County...		
7.3 W Holly River State	2.58 in	0445 PM 01/02
Hacker Valley	2.07 in	0655 AM 01/02
...Wirt County...		
3.4 NW Reedy	2.84 in	0500 AM 01/02
5.9 E Elizabeth	2.16 in	0200 PM 01/02
1.8 NW Elizabeth	1.83 in	1100 AM 01/02
9.1 W Grantsville	1.80 in	0100 PM 01/02
6.7 NW Reedy	1.16 in	0200 PM 01/02
...Wood County...		
9.2 S Mineralwells	2.00 in	1000 AM 01/02
8.7 N Elizabeth	1.91 in	0400 PM 01/02
Walker 2.1 SW	1.89 in	0700 AM 01/02
Parkersburg	1.56 in	0446 PM 01/02
0.7 E Williamstown	1.40 in	0100 PM 01/02
4.2 W Washington	1.32 in	0420 PM 01/02
Williamstown 0.4 WNW	1.31 in	0700 AM 01/02
Parkersburg	1.30 in	0700 AM 01/02
Parkersburg Airport	1.26 in	0435 PM 01/02
Ohio River	0.97 in	0400 PM 01/02
...Wyoming County...		
0.6 S Pineville	3.61 in	0300 AM 01/02
6.3 SW Oceana	3.28 in	0430 PM 01/02
Mullens 3 E	3.00 in	0700 AM 01/02
4.6 NE Davy	2.98 in	0345 PM 01/02

January 3rd Snowfall Overview

A wave of low pressure would quickly deepen during the morning of January 3rd as it moved northeastward into North Carolina, bringing precipitation back into the region throughout the early morning hours of January 3rd. An initial rain/snow mix over portions of the southern/central Charleston NWS forecast area would transition to snow, resulting in accumulations of up to 4.5" for portions of the region by late morning. Storm total snowfall amounts can be seen right.

...FINAL STORM TOTAL SNOWFALL REPORTS FOR THE JANUARY 2-3, 2022 SNOWSTORM...

Location	Amount	Time/Date	Elevation (ft.)
...Virginia...			
...Buchanan County...			
3 W Vansant	3.3 in	0800 AM 01/03	
Grundy	0.6 in	0700 AM 01/03	1178
...Dickenson County...			
2 W Clintwood	3.2 in	0730 AM 01/03	
Nora 4 SSE	2.9 in	0700 AM 01/04	2688
4 ESE Clintwood	2.0 in	0830 AM 01/03	
...West Virginia...			
...Boone County...			
2 N Madison	1.0 in	0706 AM 01/03	
Danville 1.8 WSW	0.8 in	0530 AM 01/03	926
...Kanawha County...			
Alum Creek 3.0 E	0.1 in	0600 AM 01/03	708
Charleston 2.6 W	0.1 in	0610 AM 01/03	954
...Logan County...			
Man	2.0 in	0700 AM 01/03	
3 S Switzer	0.3 in	0600 AM 01/03	
...McDowell County...			
2 NW Anawalt	2.0 in	0800 AM 01/03	
...Nicholas County...			
Mount Nebo	1.0 in	0700 AM 01/03	1950
Craigsville 0.6 NE	0.9 in	0700 AM 01/03	2239
Runa 0.1 W	0.5 in	0700 AM 01/03	2204
...Pocahontas County...			
Frost 3 NE	4.5 in	0625 AM 01/04	2905
Greenbank	3.5 in	0922 AM 01/03	
Bartow 1 S	2.2 in	0730 AM 01/03	3025
Snowshoe	2.0 in	0600 AM 01/03	4850
5 SSW Greenbank	2.0 in	1014 AM 01/03	
Marlinton	1.0 in	0921 AM 01/03	
Buckeye	0.8 in	0700 AM 01/04	2150
...Raleigh County...			
3 SSW Shady Spring	3.0 in	0930 AM 01/03	
Beckley Airport	2.8 in	1000 AM 01/03	2480
6 S Shady Spring	2.6 in	0730 AM 01/03	
3 S Shady Spring	2.5 in	0857 AM 01/03	
Cool Ridge 0.4 NE	2.5 in	0900 AM 01/03	2964
...Randolph County...			
9 S Harman	2.0 in	1016 AM 01/03	
Harman	1.0 in	1015 AM 01/03	
&&			



On the left is a surface analysis chart for January 3rd at 4 AM, while on the right is a composite radar mosaic from approximately 6 AM that same morning. Both images illustrate the snow event at peak impact to the local area.



Thank You!