

RIVER AND WEATHER CONDITIONS

Prepared for the Pittsburgh Waterways Association Meeting 04/08/2020

National Weather Service Forecast Office, Pittsburgh PA

For the latest river and weather forecasts--<http://www.weather.gov/pittsburgh>

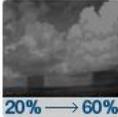
WEATHER RECAP

March was a wet month with very little snow; only an inch to be exact in Pittsburgh. We exceeded climatological normal precipitation by almost 2 inches, which lead to high flows on portions of the Allegheny, upper Ohio and other tributaries into the Ohio over the month. We are currently running a snow deficit of 18.2 inches below normal, which will likely not be recovered this month.

<i>Location</i>	<i>March 2020 Precipitation</i>	<i>Departure (Inches)</i>
<i>Pittsburgh</i>	4.83	+1.88

<i>Location</i>	<i>Mar Average Temperature</i>	<i>Departure Degrees</i>	<i>Extreme High</i>	<i>Extreme Low</i>
<i>Pittsburgh</i>	45.6	+6.0	77 on Mar 29	19 on Mar 01

Pittsburgh Forecast:

Today	Tonight	Tuesday	Tuesday Night	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday
								
Sunny	Mostly Cloudy then Chance Showers	Showers Likely then T-storms Likely	T-storms	T-storms then Chance T-storms	Slight Chance Showers then Showers Likely	Showers Likely	Mostly Cloudy	Partly Sunny then Chance Showers
High: 64 °F	Low: 49 °F	High: 67 °F	Low: 56 °F	High: 68 °F	Low: 47 °F	High: 54 °F	Low: 34 °F	High: 48 °F

OUTLOOK

This week: An active period is anticipated with several rounds of showers and thunderstorms through the week. Temperatures will start out above average but settle back near normal, if not below by the weekend.

Week of Apr 13th: Temperatures may start out near normal but will gradually fall below for the rest of the week with the passage of a strong system. Precipitation will be near normal.

Week of Apr 20th: Temperatures will stay cooler than average, with near or slightly above normal precipitation.

End of April: Temperatures will begin to rebound for the start of May. Precipitation appears remain near normal.

Outlook for May: Temperatures will remain near normal with near normal precipitation.

Jun-July-Aug Outlook: Right now temperature are still projected to remain above normal, with a wet pattern and above average precipitation through the Mid-Atlantic region. ENSO neutral conditions are forecast to continue.

HIGH WATER POTENTIAL

Streamflows are running near normal on the Monongahela and Allegheny and above normal on the upper Ohio River. As we start to leaf out over the next month, precipitation amounts needed to reach bank full will increase. Right now it will take 1.50-2.00 inches of rain to reach bank full in the upper Ohio Valley; lower amounts in some of the tributaries in the state of Ohio.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average monthly precipitation	2.7	2.39	2.95	3.11	3.95	4.3	3.83	3.48	3.11	2.29	3.23	2.85	38.19
Average High Temperature	35.7	39.3	49.2	61.7	70.8	79.1	82.5	81.4	74.3	62.6	51.2	39.4	60.7
Average Low Temperature	21.1	23	30	40.2	49.3	58.4	62.8	61.5	54	42.9	34.7	25.3	42
Average monthly snowfall	11.8	10.3	7.6	1.5	0	0	0	0	0	0.4	2	8.3	41.9

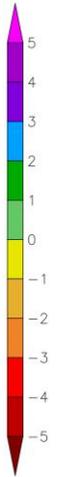
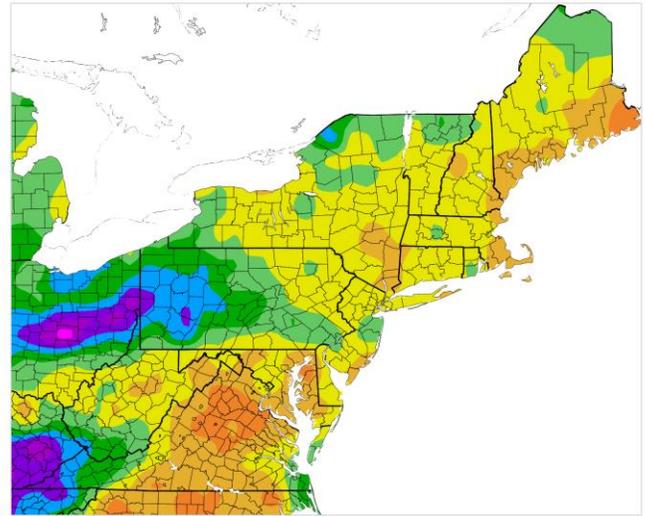
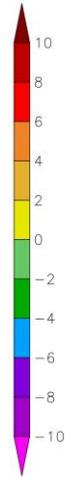
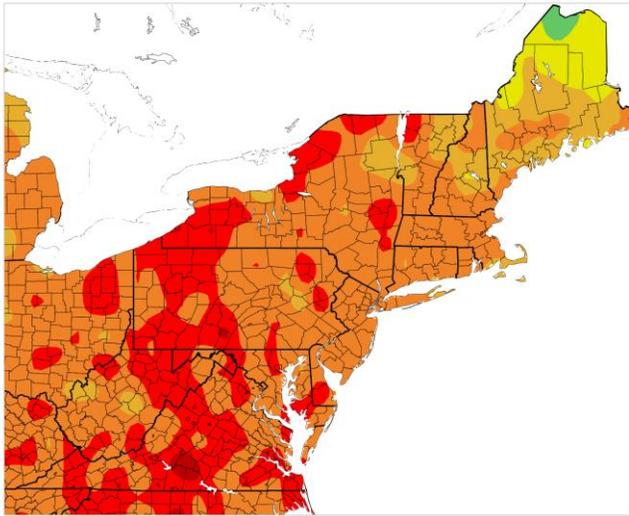
Average Yearly precipitation Pittsburgh: 38.19 inches. In 2020: 11.87 (+3.31)

Totals for: **2019: 52.46" (+14.27)**; 2018: 57.83" (+19.64); 2017: 42.15"; 2016: 35.01"; 2015: 40.56"; 2014: 36.84"; 2013: 36.65"; 2012: 41.74"

Average Yearly snowfall Pittsburgh: 41.9 inches. **2019-20:** 21.6" (-18.7); **2018-19:** 36.6" (-5.3); **2017-18:** 59.8" (+17.9); **2016-17:** 32.0" (-9.2), **2015-16:** 29.6" (-12.3) **2014-15:** 47.2"; **2013-14:** 63.4"; **2012-13:** 57"; **2011-12:** 37"; **2010-11:** 57"; **2009-10:** 77"

Departure from Normal Temperature (F)
3/1/2020 - 3/31/2020

Departure from Normal Precipitation (in)
3/1/2020 - 3/31/2020

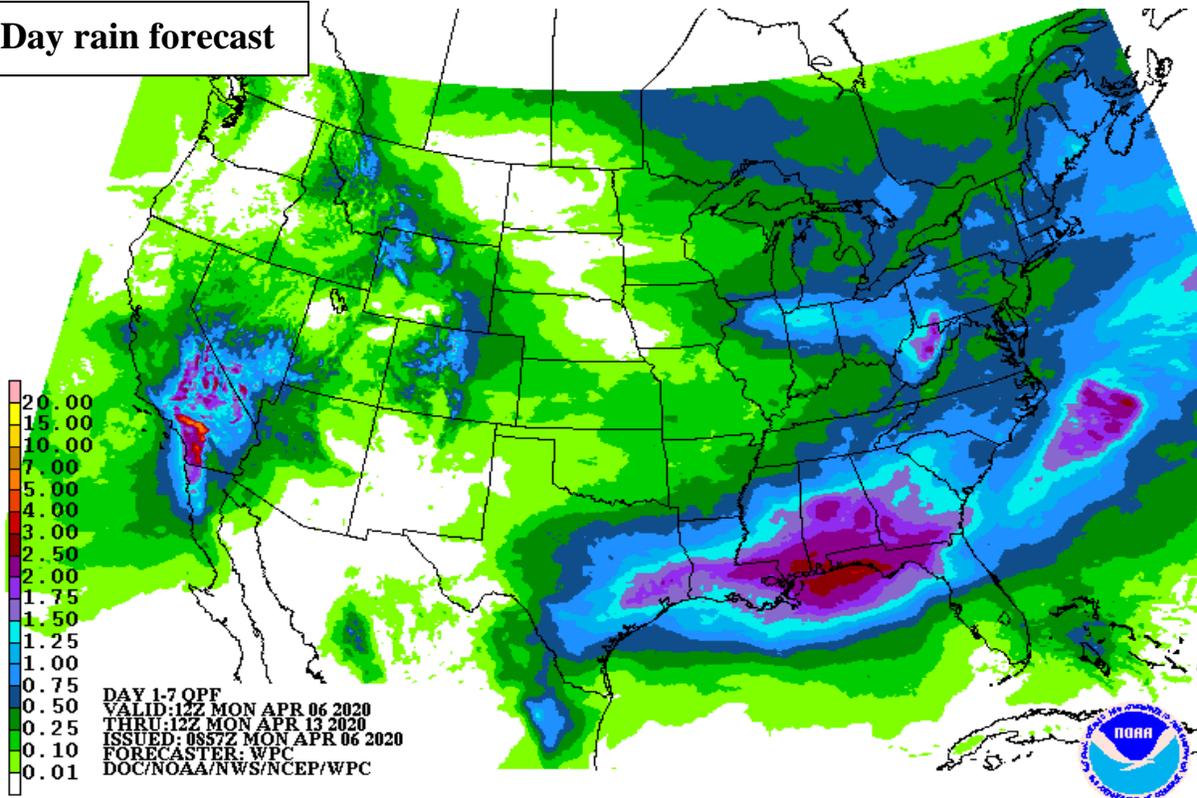


Generated 4/4/2020 at HPRCC using provisional data.

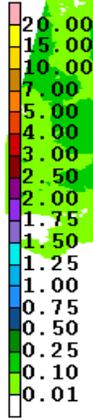
NOAA Regional Climate Centers 4/4/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

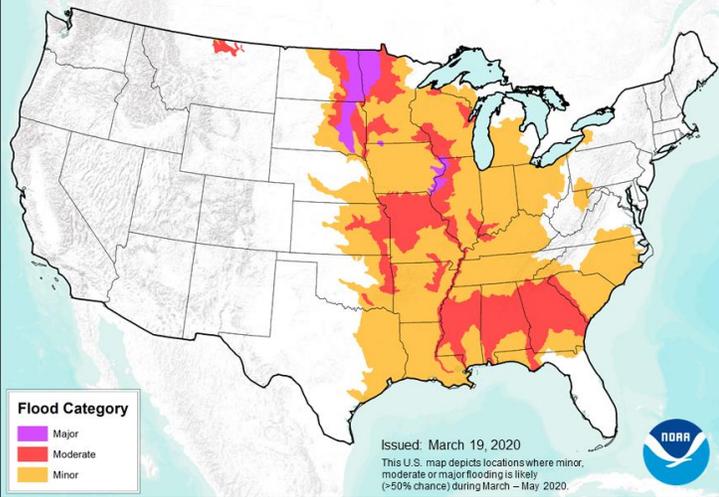
7 Day rain forecast



DAY 1-7 QPF
VALID: 12Z MON APR 06 2020
THRU: 12Z MON APR 13 2020
ISSUED: 0857Z MON APR 06 2020
FORECASTER: WPC
DOC/NOAA/NWS/NCEP/WPC



2020 U.S. Spring Flood Outlook



Spring Outlook includes the risk for minor flooding across the upper Ohio Valley.
<https://www.noaa.gov/media-release/us-spring-outlook-forecasts-another-year-of-widespread-river-flooding>

	No Flood	Near Flood	Minor Flood	Moderate Flood	Major Flood		
River Conditions at: 10:54 AM 02/12/2020							
Location	Flood Stage (ft.)	Observed (ft.)	Crest (ft.)	Forecast for 7AM			
				Thu.	Fri.	Sat.	Sun.
Ohio River							
Pittsburgh	25	18.92	19.5	17.5	19.5	18.6	17.1
Emsworth L/D	-	22.07	-	-	-	-	-
Dashields L/D	25	19.32	19.4	18.6	19.3	19.0	18.4
Montgomery L/D	33	21.75	22.8	20.5	22.5	22.0	20.3
Wellsville	11	-	-	-	-	-	-
New Cumberland L/D	36	25.84	26.4	23.8	26.0	25.4	23.3
Steubenville	36	-	25.3	23.2	24.6	24.9	23.1
Wellsburg	36	-	30.1	29.1	29.8	29.8	28.8
Pike Island L/D	37	27.71	27.8	25.6	27.2	27.1	25.0
Wheeling	36	27.64	27.8	26.1	27.3	27.2	25.1
Moundsville	37	-	29.4	27.8	29.1	28.8	27.4
Powhatan Point	37	-	29.6	28.7	29.4	29.3	28.4
Hannibal L/D	35	24.20	24.5	23.4	23.9	24.3	22.6
Sardis	-	23.39	-	-	-	-	-
Emsworth L/D	-	14.68	-	-	-	-	-
Monongahela							
Opekiska L/D	-	9.39	-	-	-	-	-
Hilderbrand L/D	-	11.40	-	-	-	-	-
Morgantown L/D	22	12.70	15.0	13.2	12.7	12.6	12.0
Point Marion L/D	26	18.45	20.8	18.7	19.0	17.5	16.7
Grays Landing L/D	21	16.31	18.2	16.7	16.6	15.7	15.3
Maxwell L/D	32	17.88	21.1	17.4	20.1	16.9	15.7
Charleroi L/D	28	22.00	25.3	21.8	24.5	21.4	19.8
Elizabeth L/D	20	17.13	18.1	16.2	18.1	16.5	15.7
Braddock L/D	22	12.62	13.9	12.1	13.9	12.1	12.1
Colfax	-	10.88	-	-	-	-	-
Barrackville	-	4.73	-	-	-	-	-
Morgantown	5	2.32	-	-	-	-	-
Shannopin	12	5.77	-	-	-	-	-
Jefferson	17	5.66	-	-	-	-	-
Marana	20	-	-	-	-	-	-
Waltersburg	-	3.31	-	-	-	-	-
Wilmerding	-	6.14	-	-	-	-	-
Turtle Creek	6	1.17	-	-	-	-	-
Pigeon Creek	5	-	-	-	-	-	-

Please continue to utilize our new river forecast monitor page. Any feedback is appreciated:
<https://www.weather.gov/pbz/rivermon>