# RIVER AND WEATHER CONDITIONS
Prepared for the Pittsburgh Waterways Association Meeting 03/11/2020
**National Weather Service Forecast Office, Pittsburgh PA**
For the latest river and weather forecasts--http://www.weather.gov/pittsburgh
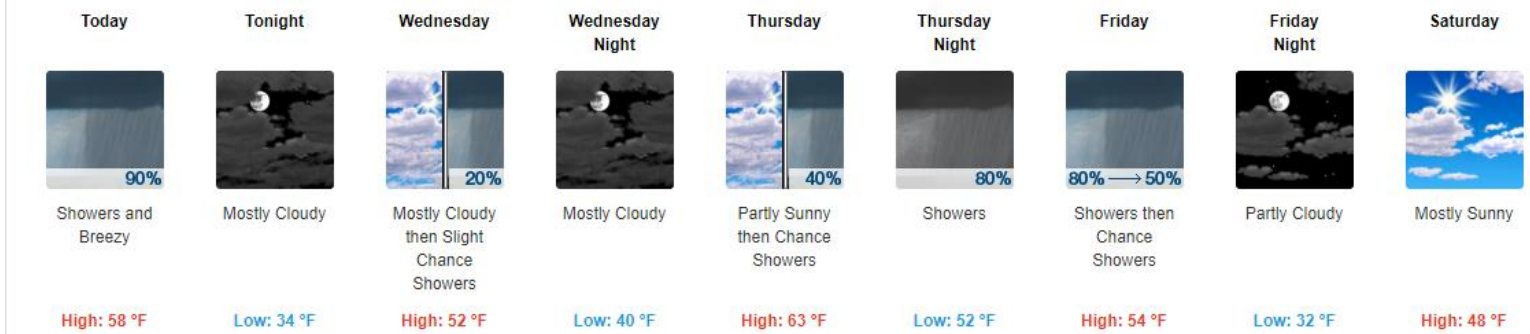
## WEATHER RECAP
February temperatures averaged near normal. It was a month, with 22 days of a trace or more of rain or melted snow. Snowfall was 1.4 inches below normal with 17 days of a trace or more of snow. The season's highest snowfall occurred on February 7 with 5.1 inches of snow recorded.

| Location | February 2020 Precipitation | Departure (Inches) |
|---|---|---|
| Pittsburgh | 3.30 | +0.91 |

| Location | Feb Average Temperature | Departure Degrees | Extreme High | Extreme Low |
|---|---|---|---|---|
| Pittsburgh | 33.6 | +2.5 | 62 on Feb 3 | 8 on Feb 15 |

**Pittsburgh Forecast:**



| Today | Tonight | Wednesday | Wednesday Night | Thursday | Thursday Night | Friday | Friday Night | Saturday |
|---|---|---|---|---|---|---|---|---|
| 90% | | 20% | | 40% | 80% | 80% → 50% | | |
| Showers and Breezy | Mostly Cloudy | Mostly Cloudy then Slight Chance Showers | Mostly Cloudy | Partly Sunny then Chance Showers | Showers | Showers then Chance Showers | Partly Cloudy | Mostly Sunny |
| High: 58 °F | Low: 34 °F | High: 52 °F | Low: 40 °F | High: 63 °F | Low: 52 °F | High: 54 °F | Low: 32 °F | High: 48 °F |

## OUTLOOK
**Rest of the week:** An active weather pattern is in store for the region this week with 4 separate weather systems moving through the region by Sunday. Periods rain showers will persist through the end of the week with a gradual cooling trend through the weekend. Sunday there is a chance for a mix of rain and snow. Precipitation expected through Sunday will range from 0.50 to 1.50 inches.
**Week of Mar 17th:** Active and "warm" period persists. Active pattern keeps rainfall above normal..
**Week of Mar 24th:** Remaining well above normal for temperature and wetter than normal.
**Outlook for April:** Models still suggest temperatures well above normal and precipitation above normal.
**Apr-May-Jun Outlook:** Above normal temperatures and above average precipitation.
**May-Jun-Jul Outlook:** Temperatures above average and above average precipitation.

## HIGH WATER POTENTIAL
Streamflows are running at or above normal in Monongahela and upper Ohio rivers and near normal across the Allegheny River. Higher streamflows an active weather pattern and the fact that we are still in "dormancy", means it will take less rainfall to reach bank full (~1.50-2.00"). The threat of river flooding is elevated due to these conditions.

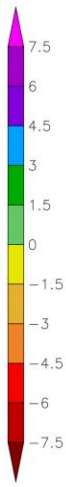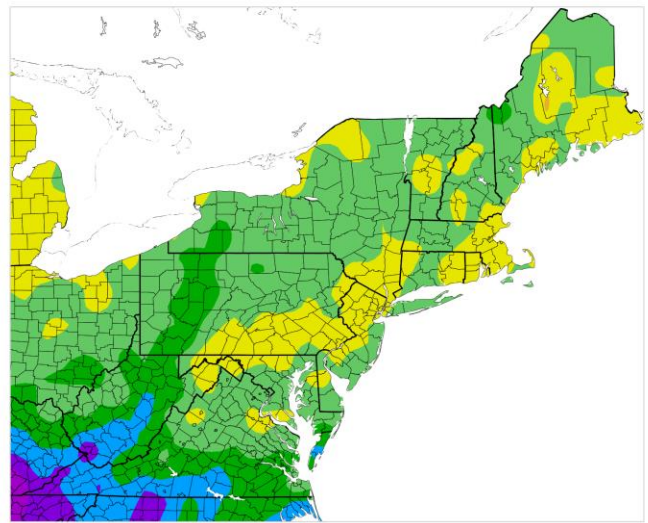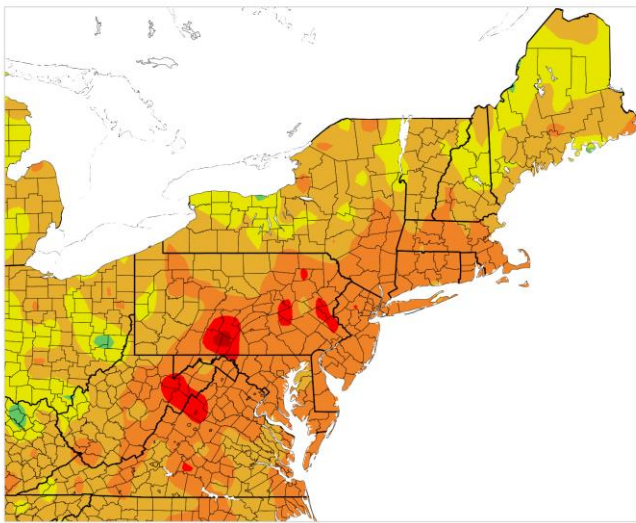| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average monthly precipitation | 2.7 | 2.39 | 2.95 | 3.11 | 3.95 | 4.3 | 3.83 | 3.48 | 3.11 | 2.29 | 3.23 | 2.85 | 38.19 |
| Average High Temperature | 35.7 | 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: 6.99 (+1.90)**
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**: 20.6" (-11.8); 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)
### 2/1/2020 – 2/29/2020

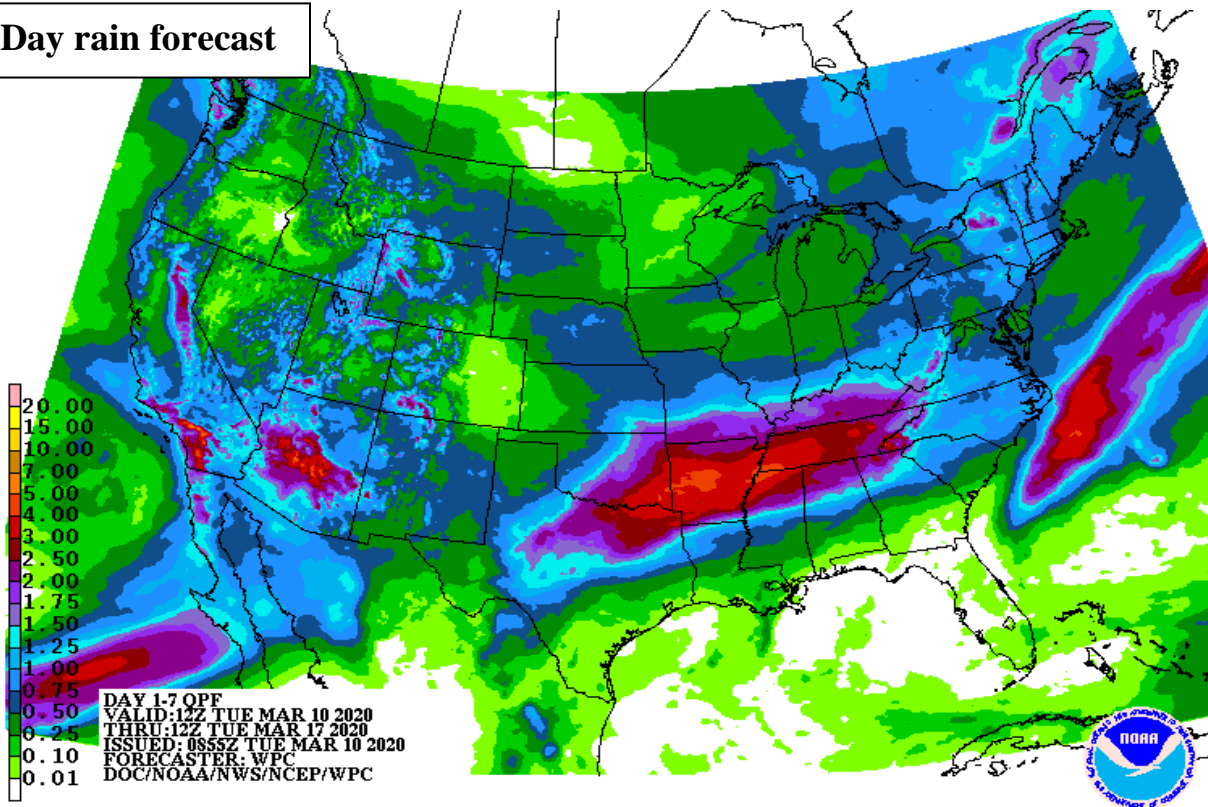## Departure from Normal Precipitation (in)
### 2/1/2020 – 2/29/2020

**7 Day rain forecast**

DAY 1-7 QPF
VALID:12Z TUE MAR 10 2020
THRU:12Z TUE MAR 17 2020
ISSUED: 0855Z TUE MAR 10 2020
FORECASTER: WPC
DOC/NOAA/NWS/NCEP/WPC

| | Near Flood | Minor Flood | Moderate Flood | Major Flood |
|---|---|---|---|---|
| No Flood | Near Flood | Minor Flood | Moderate Flood | Major Flood |

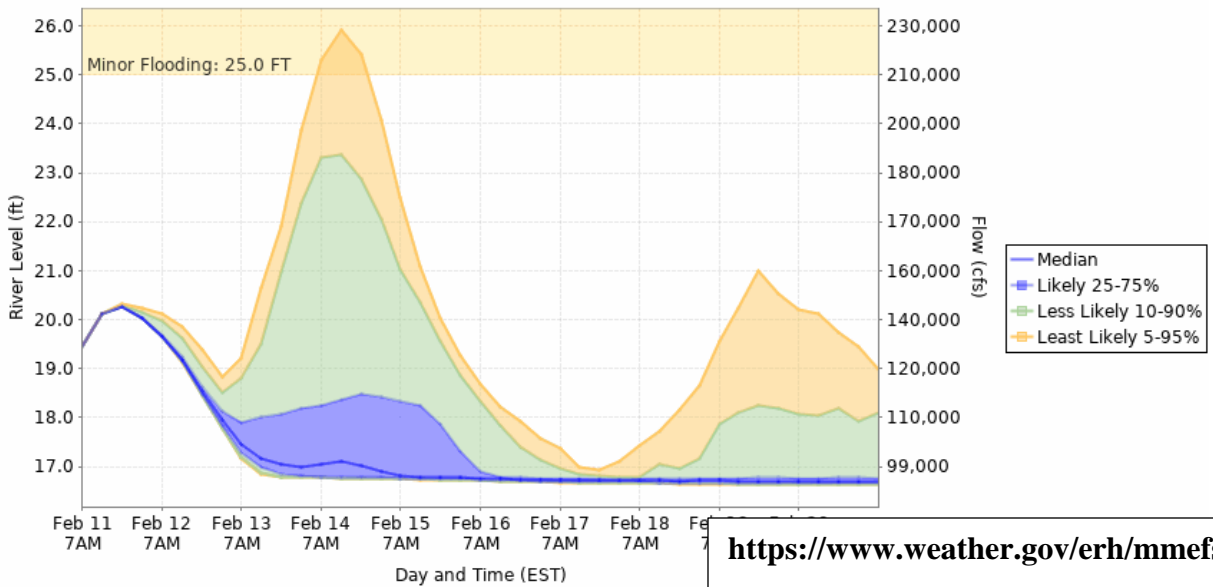| River Conditions at: 10:54 AM 02/12/2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Location | Flood Stage (ft.) | Observed (ft.) | Crest (ft.) | Forecast for 7AM | | | |
| | | | | Thu. | Fri. | Sat. | Sun. |
| Ohio River | | | | | | | |
| Pittsburgh | 25 | 18.92 | 19.5 | 17.5 | 19.5 | 18.6 | 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 | - | - | - | - | - |
| Mariana | 20 | - | - | - | - | - | - |
| Waltersburg | - | 3.31 | - | - | - | - | - |
| Wilmerding | - | 6.14 | - | - | - | - | - |
| Turtle Creek | 6 | 1.17 | - | - | - | - | - |
| Pigeon Creek | 5 | - | - | - | - | - | - |

https://www.weather.gov/pbz/rivermon

# 10-day River Level Probabilities
Used to Estimate the Range of Possible River Levels
[without ENSPOST (Experimental)]

Caution: Official forecast may be updated after this graph is generated.
For the latest official forecast, go to http://water.weather.gov/ahps

## Ohio River at Pittsburgh, PA (PTTP1)



https://www.weather.gov/erh/mmefs

Model runtime: 07:00 AM EST Feb 11 2020
Ohio River Forecast Center