Eastern Spring Flood Outlook - Spring 2022

Spring 2022: U.S. Flood Outlook





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Bottom Line Up Front:

- No obvious signal for enhanced flood risk this spring in the eastern US
- Localized flood threat in northern Maine in April
- That doesn't mean no flood risk - any storm can cause a flood, any time of year

BRIEFING VALID: 3/31/2022

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Recent Precipitation - 30 Days



Northeast & Mid-Atlantic RIVER FORECAST CENTERS

GENERALLY: WET INTERIOR, DRY CLOSER TO THE COAST (but quite wet southern Virginia)

→ Amounts generally 2-4 inches in the last 30 days for most





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Recent Precipitation - Year-to-Date



Northeast & Mid-Atlantic RIVER FORECAST CENTERS

Slightly wetter signals compared to the 30 day graphic; driest VT/NH/NW Maine

→ Amounts generally 8-13 inches liquid equivalent in most areas





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Water Year-to-Date (since 10/1/21) % of Normal

Northeast & Mid-Atlantic

Below normal for much of the east (exceptions much of upstate NY; parts of Maine)

→ Amounts generally 15-25 inches, but less especially in southern PA and upper Potomac

March 30, 2022 Water Year to Date (Oct. 1) Percent Precipitation Created on: March 30, 2022 - 14:12 UTC Valid on: March 30, 2022 12:00 UTC





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Current Snow Status



BELOW NORMAL EXCEPT IN NORTHERN MAINE

- → Typically, even in late March, much of the interior Northeast should still have snow on the ground and many areas do not. Even those that do have less than is typical. Only northernmost Maine has above normal snow at this point.
- → Snow water content is also less than normal for most, but there is plenty of water in the snowpack in interior Maine (observed 8-11" of snow water!)





Current Ice Status



Northeast & Mid-Atlantic RIVER FORECAST CENTERS

PLENTY OF ICE WITH JAMS FROM DECEMBER STILL IN PLACE IN NORTHERN MAINE

- → Ice thickness still 12-24" but more ice openings are being observed
- → Saint John River reported ice jam of 16-17 miles in length





Soil Moisture Conditions



Northeast & Mid-Atlantic RIVER FORECAST CENTERS



Soils are wet in much of NW PA & upstate NY; near normal most of northeast; below much of mid-Atlantic

→ Extremely dry west of DC and coastal North Carolina



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Streamflow (courtesy USGS)





Drought Monitor



NWSNERFC NWSMARFC

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Northeast & Mid-Atlantic RIVER FORECAST CENTERS

NWS 7 Day Precipitation Forecast



Northeast & Mid-Atlantic RIVER FORECAST CENTERS

 Liquid equivalent precipitation over the next week generally 1-2 inches (locally higher near higher elevations), with heavy rain confined to the south





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NWS Snowfall Forecast



Northeast & Mid-Atlantic RIVER FORECAST CENTERS

 Additional snow largely minimal this week (but there will be some!)





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New England Lake Levels





River Observations and Forecasts



Quebec

Northeast & Mid-Atlantic RIVER FORECAST CENTERS

No flooding expected in the short term, and only a few locations over – or expected to be over – the 'Action' Stage level (mostly tidal)





ENSO Conditions



Northeast & Mid-Atlantic RIVER FORECAST CENTERS

Could there be a third year of La Niña?





La Niña three-peats (triple dips?) are very rare—only two exist in our more reliable historical record going back to 1950 and both occurred after major El Niño events, which our current event did not.

Bottom line: the long term signal is very uncertain - don't expect much definitive information

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Recap:

- No obvious signal for enhanced flood risk this spring in the eastern US
- That doesn't mean no flood risk - any storm can cause a flood, any time of year

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https://weather.gov/marfc

BRIEFING VALID: 3/31/2022