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Probabilistic Hydrologic Outlook

National Weather Service Grand Forks ND

1115 AM CST Thu Mar 10 2022

...DEVILS LAKE OUTLOOK FOR FLOOD POTENTIAL...

Devils and Stump Lakes  
Long-Range Probabilistic Outlook

The National Weather Service provides long-range probabilistic hydrologic outlooks for Devils and Stump lakes between January and September. They will not be provided between October and December. Depending on the season, the high or low water probabilities may be omitted due to their applicability to the hydrologic situation.

.OUTLOOK SUMMARY...

Note: This outlook incorporates a daily average of 350 cfs worth of pumping operations on Devils Lake from June 1st through November 10th.

Precipitation the last few weeks (since the last outlook on March 24, 2022) has been well below normal across the basin. Even with little precipitation recently, the entire basin has been removed from any drought or abnormally dry classification with the latest US Drought



Devils Lake.....

CREEL BAY	49.8	49.9	50.1	50.5	50.9	51.7	52.4
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Stump Lake.....

EAST STUMP LAKE	49.8	49.9	50.1	50.5	50.9	51.7	52.4
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.Current and Previous Record High Lake Levels...

\* The current height of Devils Lake is 1447.26 feet NGVD29.

\* The current height of Stump Lake is 1447.18 feet NGVD29.

\* The most recent USGS provisional record daily average height for Devils Lake at the Creel Bay gage:

...1454.30 feet on June 27 of 2011

\* Previous records:

...1452.05 feet on June 27 of 2010

...1450.93 feet on June 27 of 2009

...1449.20 feet on May 9 of 2006

...1449.18 feet on June 17 of 2004

...1449.17 feet on August 2 of 2005

Note: All previous records are recorded in NGVD29.

.OUTLOOK SCHEDULE...

- Between January and May, only the high water exceedances will be provided with valid periods ending at the end of September.

- Special Spring Flood and Water Management Outlooks will be issued in late February and early March.

- For June and July, both high-water and low-water exceedances will be provided.

- For August and September, only the low-water exceedances will be provided with valid periods ending at the end of November.
- No probability of exceedance/non-exceedance information will be given from October through December, since lake freeze-up levels will be given in the fall outlooks previously issued.

.ADDITIONAL INFORMATION...

The long-range probabilistic outlook is based on high and low lake levels that were calculated for the valid period using multiple scenarios of temperature and precipitation from 1949 to 2018 and current conditions of the lake, snowcover (in winter), and soil moisture.

By providing the complete range of lake level probabilities, the amount of risk associated with long-range planning decisions can be determined. These probabilistic outlooks are part of NOAA's National Weather Service's Advanced Hydrologic Prediction Services (AHPS).

A YouTube video on "How to Interpret River Outlook Products" is at:

[www.youtube.com/watch?v=pSoEgvsnpv4](http://www.youtube.com/watch?v=pSoEgvsnpv4)

This outlook is also presented as probability graphs of lake height for the full period as well as weekly probabilities. The outlook graphics and explanations that help in interpreting these outlooks are available on the NWS Grand Forks AHPS web page at:

[water.weather.gov/ahps2/index.php?wfo=FGF](http://water.weather.gov/ahps2/index.php?wfo=FGF)

Wind and wave forecasts for Devils and Stump lakes are available for a 7-day period when the lakes are sufficiently ice-free at:

[www.weather.gov/fgf/lake\\_info](http://www.weather.gov/fgf/lake_info)

If you have any questions, contact the NWS at 701-772-0720.

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