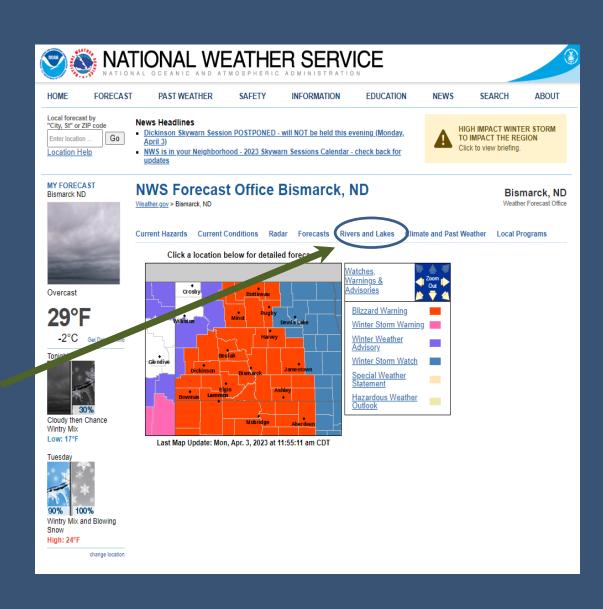
## Fact Sheet: Hydrologic Ensemble Forecast Service (HEFS)

Short-range Probabilistic Forecast Hydrograph

The National Weather Service can now provide Short-range Probabilistic Forecasts for river levels.

To find out if there is a current Probabilistic Forecast for a river near you, start by visiting our webpage at: www.weather.gov/bis

Click on the tab that says "Rivers and Lakes".

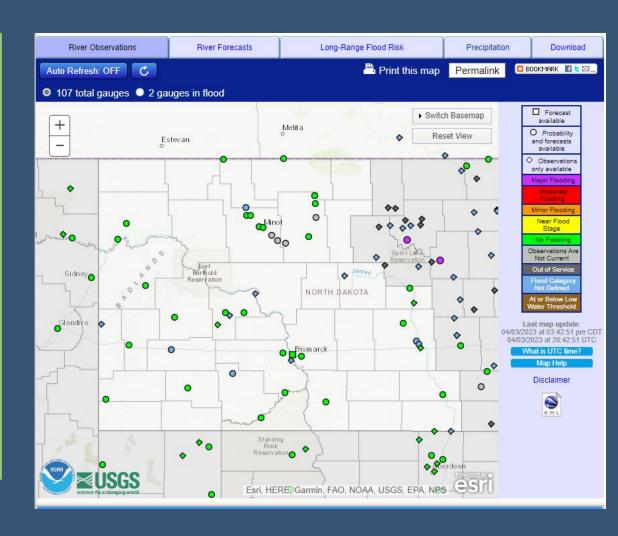


### **How To Find HEFS**

This is our AHPS page. On here you see locations where the NWS monitors a river. They are the blue diamonds.

Green circles are forecast locations on rivers. We also offer runoff volume forecasts to dam owners for some reservoirs, they are the blue circles.

Lone green square is a forecast location for unusual circumstances.



To reach the locations Hydrograph page, simply use your mouse to click on it.

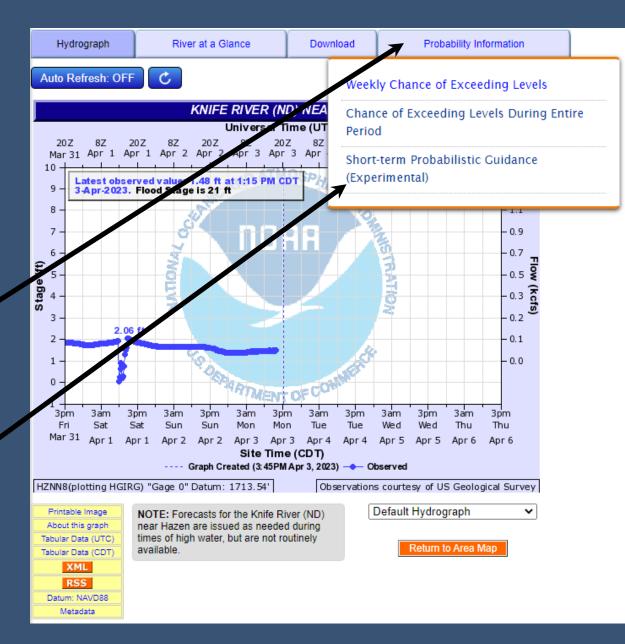
This is an example of what is called the Hydrograph Page. On here you can see the current water level for your site of interest, along with a host of other information.

To find the HEFS graphic, hover your mouse over the tab in the upper right labeled Probability Information.

Now slide your cursor down to the Short-term Probabilistic Guidance option, and click on it.

You have now successfully found a treasure trove of information in the form of HEFS!

#### **How To Find HEFS**



## Fact Sheet: Hydrologic Ensemble Forecast Service (HEFS)

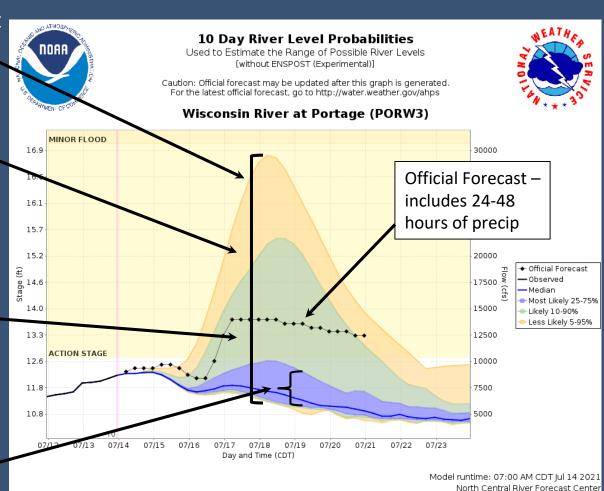
Short-range Probabilistic Forecast Hydrograph

Shaded area shows the range of possible river levels over the next 10 days. There is a small chance the level could exceed this range.

~90% of river level forecasts are within the blue, green, and tan range. ~5% of forecasts are above the tan shaded range.

~80% of river level forecasts are within the blue and green range. ~10% of forecasts are above the green shaded range.

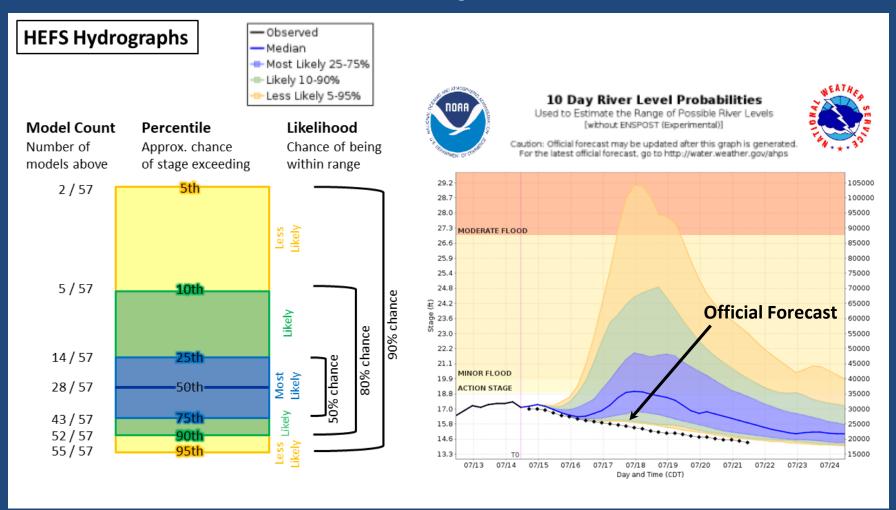
~50% of forecasts are within the blue shaded range. ~25% of forecasts are above the blue range.



The HEFS hydrograph is based on 10 days of precipitation and temperature forecasts (including snow melt) applied to river forecast models. The official forecast includes 24-48 hours of precipitation.

# Fact Sheet: Hydrologic Ensemble Forecast Service (HEFS) Short-range Probabilistic Forecast Hydrograph

Shaded area shows the range of possible river levels using QPF from the GEFS. There is a small chance the level could exceed this range.



The hydrograph is based on 10 days of precipitation and temperature forecasts (including snow melt) applied to river forecast models. The official forecast includes 24-48 hours of precipitation.