
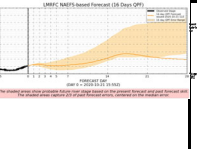
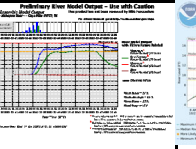
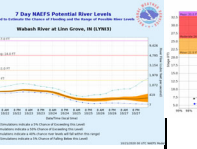
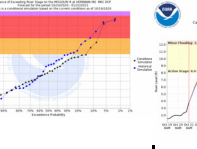
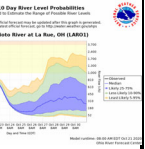


NWS Products Forecast Uncertainty Differences

	Official AHPS	NAEFS-28day	QPF Ensembles	MMEFS	ESP	HEFS
						
Offices Participating	All RFCs	LMRFC display web graphics NCRFC display web graphics MBRFC text only available ABRFC text only on Wednesdays	ABRFC LMRFC MBRFC NCRFC	OHRFC	ABRFC (HEFS also displayed) MBRFC NCRFC LMRFC (HEFS also displayed)	ABRFC (10 & 90 day) MBRFC (complete by 2022) NCRFC (complete by 2021) LMRFC (complete by 2022) OHRFC (10 & 90 day)
NOAA/NWS Forecast Precipitation Duration for river forecasts	MBRFC & NCRFC: 24 hrs Summer LMRFC: 24hrs tributaries OHRFC: 48hrs year-round	16 days	7 Forecasts produced with QPF durations: 12, 24, 48, 72, 96, 120, 144, and 168 hours	10 days	90 days of Historical Precip	Short Range: 10 Days Long Range: 90 days
Forecast Length	ABRFC: 5 days LMRFC: 5 days, 14 days on Miss R MBRFC: 5-7 days, 10 days in MT NCRFC: 7 days, 14 days on Miss R OHRFC: 5-10 days	28 Days	ABRFC: 7 days with 10 days on the Lower Arkansas (in AR) Elsewhere: 14 Days	10 days	90 Days	Short Range: 10 Days Long Range: 90 days
USACE, USBR, TVA, and power company Reservoir Releases	Uses real-time reservoir operation information	ABRFC: Uses real-time reservoir operation information (5 days); then hold last value constant LMRFC: Uses real-time reservoir operation information MBRFC: Uses real-time operational info; then uses simulated reservoir operations from water control manuals NCRFC: Uses real-time operational info; then uses simulated reservoir operations OHRFC: Uses simulated reservoir operations water control manuals	ABRFC: Uses real-time reservoir operation information LMRFC: Uses real-time reservoir operation information MBRFC: Uses real-time reservoir operation information available at run-time NCRFC: Uses real-time reservoir operation information	OHRFC: Uses simulated reservoir operations water control manuals	ABRFC: Uses real-time operational info; then uses simulated reservoir operations LMRFC: Uses real-time operational info; then uses simulated reservoir operations MBRFC: Uses real-time operational info; then uses simulated reservoir operations from water control manuals (In most cases) NCRFC: Uses real-time operational info; then uses simulated reservoir operations	ABRFC: Uses real-time operational info; then uses simulated reservoir operations LMRFC: Uses real-time operational info; then uses simulated reservoir operations MBRFC: Uses real-time operational info; then uses simulated reservoir operations from water control manuals NCRFC: Uses real-time operational info; then uses simulated reservoir operations OHRFC: Uses simulated reservoir operations water control manuals
NOAA/NWS River Forecast Model	Includes forecaster modifications/corrections	Includes some forecaster modifications/corrections below the confluence of the Ohio & Mississippi Rivers	Not forecaster quality controlled	Not forecaster quality controlled	Not forecaster quality controlled	Not forecaster quality controlled
NOAA/NWS Uncertainty	Single forecast (no uncertainty info provided)	Single forecast (no uncertainty info provided) -LMRFC provides cone of uncertainty based on prior forecast skill	Single Forecasts: 7 QPF durations (no uncertainty info provided)	Ensemble of Forecasts Uncertainty provided through 42 possible outcomes	Ensemble of Forecasts Uncertainty provided through dozens of possible outcomes	Ensemble of Forecasts Uncertainty provided through 60+ possible outcomes
Forecast Frequency	As needed	Daily	Daily	Twice daily	Monthly	10 Day: Daily (all) 90 Day: ABRFC: Bimonthly LMRFC: Weekly MBRFC: Weekly NCRFC: Weekly OHRFC: Daily
How to Access	https://water.weather.gov/ahps/	https://www.weather.gov/lmr/c/experimental_28day_mississippi_plot https://www.weather.gov/nrcr/LMI_WS_QPFScenarioGuidance#	https://www.weather.gov/crh/r/c_ensemble https://www.weather.gov/source/abrfc/RawModel/	https://www.weather.gov/erh/m/mefs	AHPS Hydrograph -Probability Information tab https://water.weather.gov/ahps/long_range.php	AHPS Hydrograph -Probability Information tab
Additional Help/ Fact Sheet	https://water.weather.gov/ahps/2/pdf/hydrograph_terminology.pdf	https://www.weather.gov/lmr/c/experimental_28day_mississippi_plot_about	https://www.weather.gov/mediacrh/about_Ens_QPF.pdf	https://www.youtube.com/watch?v=UZoeEh01klI&feature=youtu.be https://www.weather.gov/imag/es/ohrfc/dynamic/MMEFS_OH_RFC.png	https://water.weather.gov/ahps/2/pdf/About_Chance_of_Exceeding_River_Stage_Graphic.pdf	https://water.weather.gov/ahps/2/pdf/About_HEFS_Short-term_Product.pdf https://www.weather.gov/imag/es/ohrfc/dynamic/HEFS_OH_RFC.png