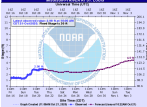
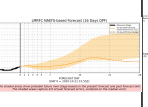
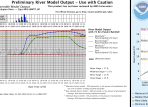
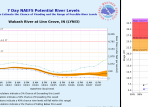
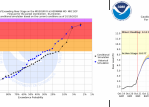
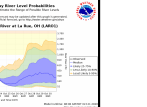


| | Official AHPS | NAEFS-28day | QPF Ensembles | MMEFS | ESP | HEFS |
|--|--|--|--|--|--|--|
| |  |  |  |  |  |  |
| Offices Participating | All RFCs | LMRFC display web graphics NCRFC display web graphics MBRFC text only available ABRFC text only on Wednesdays | ABRFC LMRFC MBRFC NCRFC | OHRFC | ABRFC (HEFS also displayed) MBRFC NCRFC LMRFC (HEFS also displayed) | ABRFC (10 & 90 day) MBRFC (complete spring 2023) NCRFC (complete spring 2023) LMRFC (complete spring 2023) OHRFC (10 & 90 day) |
| NOAA/NWS Forecast Precipitation Duration for river forecasts | ABRFC: 24hrs year-round MBRFC & NCRFC: 24 hrs Summer + 48 hrs Winter + LMRFC: 24hrs tributaries 48hrs Mississippi River OHRFC: 48hrs year-round | 16 days | 9 Forecasts produced with QPF durations: 0, 12, 24, 48, 72, 96, 120, 144, and 168 hours POPF: 5% (min) & 95% (max) QPF for durations: 12, 24, 48, 72 hrs | 10 days | 90 days of Historical Precipitation | 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: 5 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 (does include OHRFC input) MBRFC: Uses real-time operational info; then uses simulated reservoir operations from respective agency's water control manuals NCRFC: Uses real-time operational info; then uses simulated reservoir operations | 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 from water control manuals MBRFC: Uses real-time operational info; then uses simulated reservoir operations from water control manuals where available 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 from water control manuals 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) -MBRFC provides these forecasts with a cone of uncertainty based on prior forecast skill | 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: NCRFC, MBRFC, LMRFC Wednesday only: ABRFC | Daily | Twice daily | Monthly | 10 Day: Daily (all) 90 Day: ABRFC: Bimonthly LMRFC: Weekly MBRFC: coming soon NCRFC: coming soon OHRFC: Weekly |
| How to Access | https://water.weather.gov/ahps/ https://www.weather.gov/mbrfc/maeuncertainty | https://www.weather.gov/lmrfc/experimental_28day_mississippi_plot https://www.weather.gov/crh/1MI_WS_QPFSscenario5_videos#4 https://www.weather.gov/mbrfc/16dayQPF | https://www.weather.gov/crh/rfk_ensemble https://www.weather.gov/source/abrfc/RawModel/ | https://www.weather.gov/crh/mmefs | 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/ahps2/pdf/hydrograph_terminology.pdf https://www.weather.gov/mbrfc/maeuncertainty | https://www.weather.gov/lmrfc/experimental_28day_mississippi_plot_about | https://www.weather.gov/media/crh/about_Enm_QPF.pdf | https://www.youtube.com/watch?v=UzoeEh0Ik8&feature=youtu.be https://www.weather.gov/images/ohrfc/dynamic/MMEFS_OHRFC.png | https://water.weather.gov/ahps2/pdf/About_HEFS_Shortern_Product.pdf | https://www.weather.gov/images/ohrfc/dynamic/HEFS_OHRFC.png |

* Summer: April - September
Winter: October - March

Acronym

ABRFC
LMRFC
MBRFC
NCRFC
OHRFC

Definition

Arkansas-Red Basin River Forecast Center, Tulsa, Oklahoma
Lower Mississippi River Forecast Center, Slidell, Louisiana
Missouri Basin River Forecast Center, Pleasant Hill, Missouri
North Central River Forecast Center, Chanhassen, Minnesota
Ohio River Forecast Center, Wilmington, Ohio

AHPS

AR

ESP

HEFS

MMEFS

NAEFS

POPF

QPF

Advanced Hydrologic Prediction Service, for more information <https://water.weather.gov/ahps/about/about.php>

Arkansas

Ensemble Streamflow Prediction/Probabilistic System, for more information https://water.weather.gov/ahps2/pdf/period_terminology.pdf

Hydrologic Ensemble Forecast Service, for more information https://www.weather.gov/abrfc/about_HEFS

Meteorological Model-based Ensemble River Forecasts, for more information <https://www.weather.gov/media/crh/alert/EnsemblefactsheetMMEFS.pdf>

North American Ensemble Forecast System, for more information https://en.wikipedia.org/wiki/North_American_Ensemble_Forecast_System

Probabilistic and Percentile Quantitative Precipitation Forecast, for more information https://www.wpc.ncep.noaa.gov/pqpf/about_pqpf_products.shtml

Quantitative Precipitation Forecast, for more information <https://www.wpc.ncep.noaa.gov/html/fam2.shtml#qpf>