

# Short-Term Ensemble River Forecasts

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The Eastern Region River Forecast Centers (RFCs) have embarked on an experiment in Probabilistic River Forecasting to provide hydrologic customers with additional forecast information beyond the single line, deterministic river forecast. Using ensemble meteorological forecast model outputs of precipitation and temperature, the RFCs' river forecast models are run and a variety of graphic forecasts are produced. This experiment is called MMEFS (Meteorological Model-based Ensemble Forecast System). Sources of data include the 21 member SREF 3 day ensembles and the 12 member GEFSa 7 day ensembles. The suite of graphical forecast products are now under review by NWS Eastern Region Weather Forecast Offices and the RFCs' Customer Advisory Boards. Feedback will be used to improve the system before meeting our eventual goal of releasing to the public. Examples below are a sample of the diversity of graphics produced for the Passaic River at Little Falls, New Jersey during the Spring, 2010 rain and snowmelt flood where MMEFS captured this significant event a week in advance.

