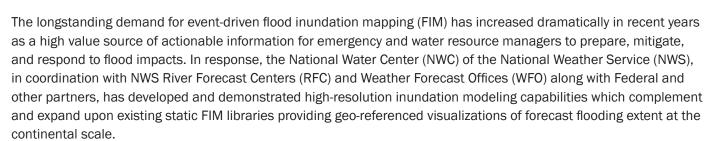


# **NEIGHBORHOOD LEVEL FLOOD INUNDATION MAPS:**

**Transforming NWS Water Prediction** across the U.S.



New inundation mapping capabilities translate analysis and forecasts of streamflow into operational maps that communicate impact by showing where flooding may occur.

Flood inundation mapping will be provided based on the RFC streamflow forecasts as well as from the National Water Model (NWM) streamflow analysis and forecasts. RFC-based inundation mapping will be provided at and downstream of official RFC forecast locations and will provide a forecast of maximum inundation extent over the next 5 days.

**Had I had this tool in 2011, we would have had** a larger evacuation area established earlier, would have moved emergency assets out of the flood zone, pre-positioned support resources and been able to provide better information to the residents of the affected area.

> New York state emergency manager from 2021 tabletop exercise

## **NWM Latest Analysis**

- · Observation-based
- · Updated hourly
- To be used as a snapshot of the most recent modeled flooding
- · Generated where NWM analysis indicates flows exceed the high flow threshold

#### RFC 5-Day **Max Forecast**

- Based on up-to-5-day RFC forecasts
- National Water Prediction Service (NWPS) forecast points
- To be used where and when an RFC forecast is available
- Generated when RFC forecast reaches "action stage"

## NWM 5-Day **Max Forecast**

- Based on 5-day weather forecast
- Updated every 6 hours
- To be used for rivers and streams not covered by an RFC forecast
- Generated only where NWM forecast indicates flows exceed the high flow threshold

## **NWM 48-Hour Max Forecast** for Puerto Rico

- · Based on the 48-hour weather forecast
- Updated twice a day
- Generated where NWM forecast indicates flows exceed the high flow threshold

Puerto Rico / U.S. Virgin Islands



Dynamic FIM Services Factsheet



Dynamic **FIM Services** Comparison Table





Scan the QR codes to view our Fact Sheets.

