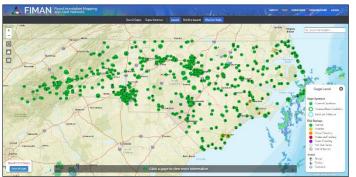


North Carolina Flood Inundation Mapping and Alert Network (FIMAN) https://fiman.nc.gov/

Mission:

To support risk-based decision-making (RBDM) regarding floods by providing: rain and stream gage data, flood inundation maps, flooding impacts, and real-time alerts



Goals:

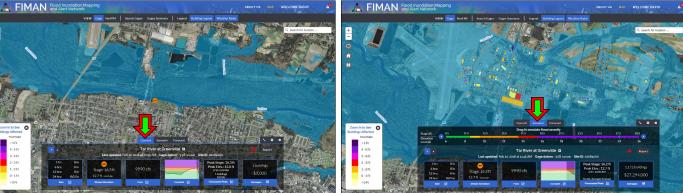
- Gather and distribute reliable and accurate rain and stage gage data
- Provide real-time flood inundation maps and alerts
- Provide better information about flooding risks and impacts
- Prevent and reduce the loss of lives and property



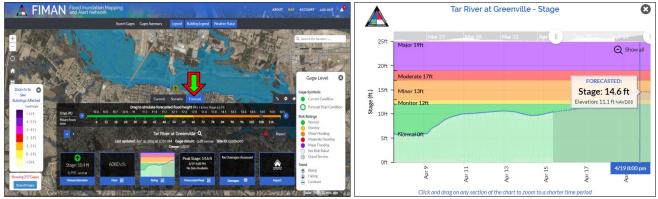
Modes:

Current: Provides the most recent inundation extent

Scenario: Planning tool for visualization and impact



Forecast: Shows timeline using National Weather Service (NWS) forecast data



Alerts:

Email and text alerts Subject: NC FIMAN ALERT: Tar River at Greenville (02084000) is now reporting Minor Flooding



The stream gage: **Tar River at Greenville** (02084000) is now reporting **Minor Flooding**.

Current stream conditions: Stage = 16.2 ft Elevation = 12.7 ft (NAVD88) Go to <u>NC FIMAN</u> to view more info about this alert.

If you have any questions, please contact FIMAN Administrators at <u>fimanhelp@ncdps.gov</u>

System-wide reports:

- Flooding Status Impact
- All Gages
- Flood Gages and Impact Summary





Flood Inundation Mapping and Alert Network for Transportation (FIMAN-T): Quick Guide https://fimant.nc.gov/Documents/FIMAN T Quick Guide.pdf

Mission:

To support risk-based decision-making during a flooding event by providing real-time (and forecasted where available) flooding impacts to roads, bridges, and other NCDOT assets.



Goals:

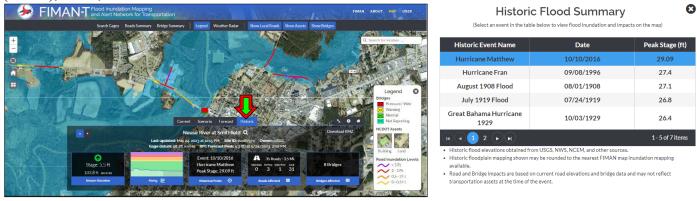
 Provide visualization and metrics for roadway inundation, bridge hydraulic performance, and identify potentially impacted NCDOT assets

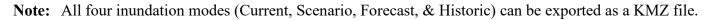


- Enhance NCDOT's responsiveness during flooding events
- Generate data and reports for use in disaster response and planning

Additional mode:

Historic: Flood inundation and impacts for select historic events (e.g., Hurricane Matthew, Hurricane Fran, or the Great Bahama Hurricane 1929) using data obtained from the United States Geological Survey (USGS), NWS, and other various sources





Additional widgets: with data within the inundation extent of the selected stream gage

Roads Affected:

- Summary of impacted roads table
- Impacted road segments table

System-wide reports

Roads Summary:

Generates a summarized report by gage (pdf or Excel format) quantifying the length of impacted roads for both current and forecasted (if available) peak.

Bridges Affected:

• Impacted bridges table

Bridge Summary:

Generates a report (pdf or Excel format) on mainstem bridges within the gage inundation library area for both current and forecasted (if available) peaks conditions. This report shows the estimated representative roadway and low chord elevation at each bridge.



