Water Levels in the Southeast
June 13-15, 2023

Water Level Program Overviews

Flood Inundation Mapping and Alert Network (FiMAN)

https://fiman.nc.gov/fiman/
High Level Overview of Program

FIMAN Real-time flood mapping solution

- Gauges
  - 627 gauges in FIMAN
  - NC Emergency Management owned gauges (221)
- Telemetry
- Pre-made inundation libraries
- Web tool to efficiently communicate
What is the objective of your stations?

- Real-time flood inundation mapping (current and forecast)
- Alerts
- Leverage vast investment in data
- Assist in risk-based decisions during and before disaster
- Partnerships with local, state, and federal agencies and the private sector
Who are your stakeholders / users?

- Emergency management officials/staff (state, federal, and local)
- Federal, state, and local government agencies
- NC Department of Transportation (BridgeWatch)
- NC Department of Environment Quality (DamWatch)
- Public
- Emergency Operations Center
- Media
What types of data do you collect?

- Water level data for riverine and coastal sites
- Climate data (at some gauges)
- High water marks
Where are your water level stations?
Expansion Opportunities

• Gauges being installed at some intermediate and high hazard dams
• Updating FIMAN web application (adding a weather page)
• Current partnership with NC Department of Transportation
• Expand Adopt-a-Gauge program
• Local government gauge maintenance policy
Expansion Opportunities

- Incorporate six (6) FIMAN gauges into NOAA’s CO-OPS network
- Current and future research projects with NC A&T State University Geomatics program
- Requested recurring gauge maintenance funds
- Requested funding to create inundation libraries for gauges without inundation libraries