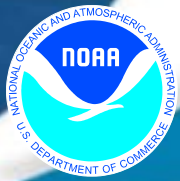


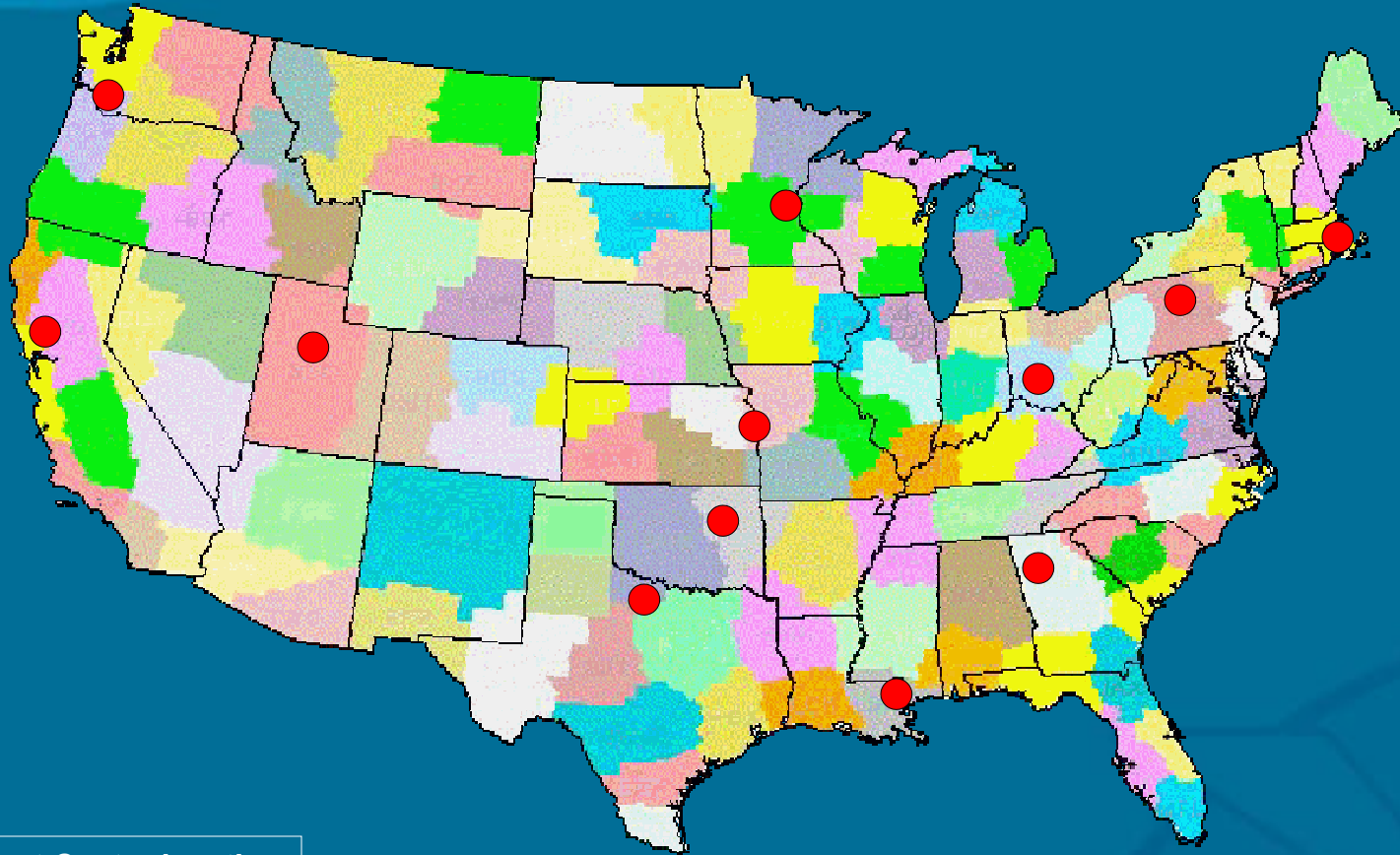
NOAA Implements New Water Resource Forecasts



Together, we develop and deliver valued science, software and information for river and water resource forecasts to save lives and property, manage water resources, and enhance America's economy



National Weather Service Hydrometeorological Service Areas and River Forecast Centers

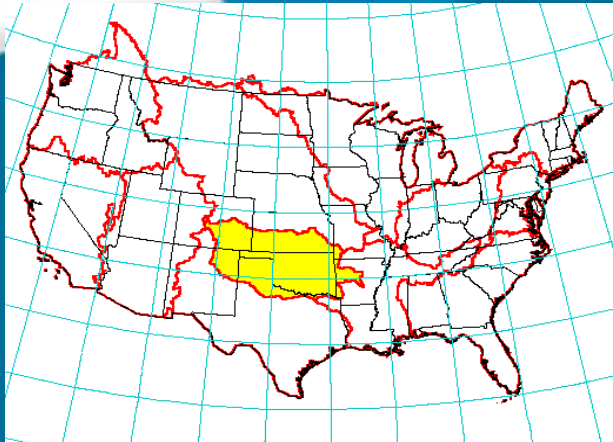


● River Forecast Center location

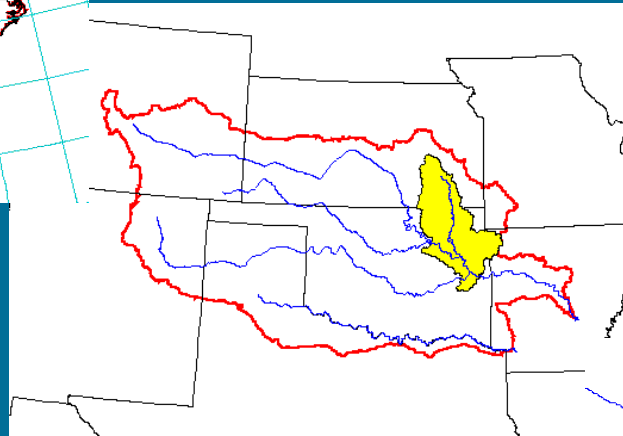
Alaska and Hawaii also have Hydrometeorological Service Areas and share the River Forecast Center in Anchorage. Puerto Rico has a Hydrometeorological Service Area and is covered by the Southeast River Forecast Center.

Water Predictions
for
Life Decisions

Hydrologic Service Delivery

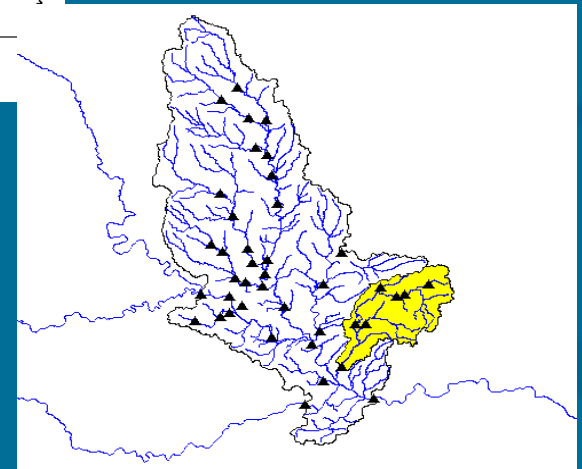


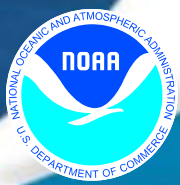
National



Major River Basin

Forecast Locations





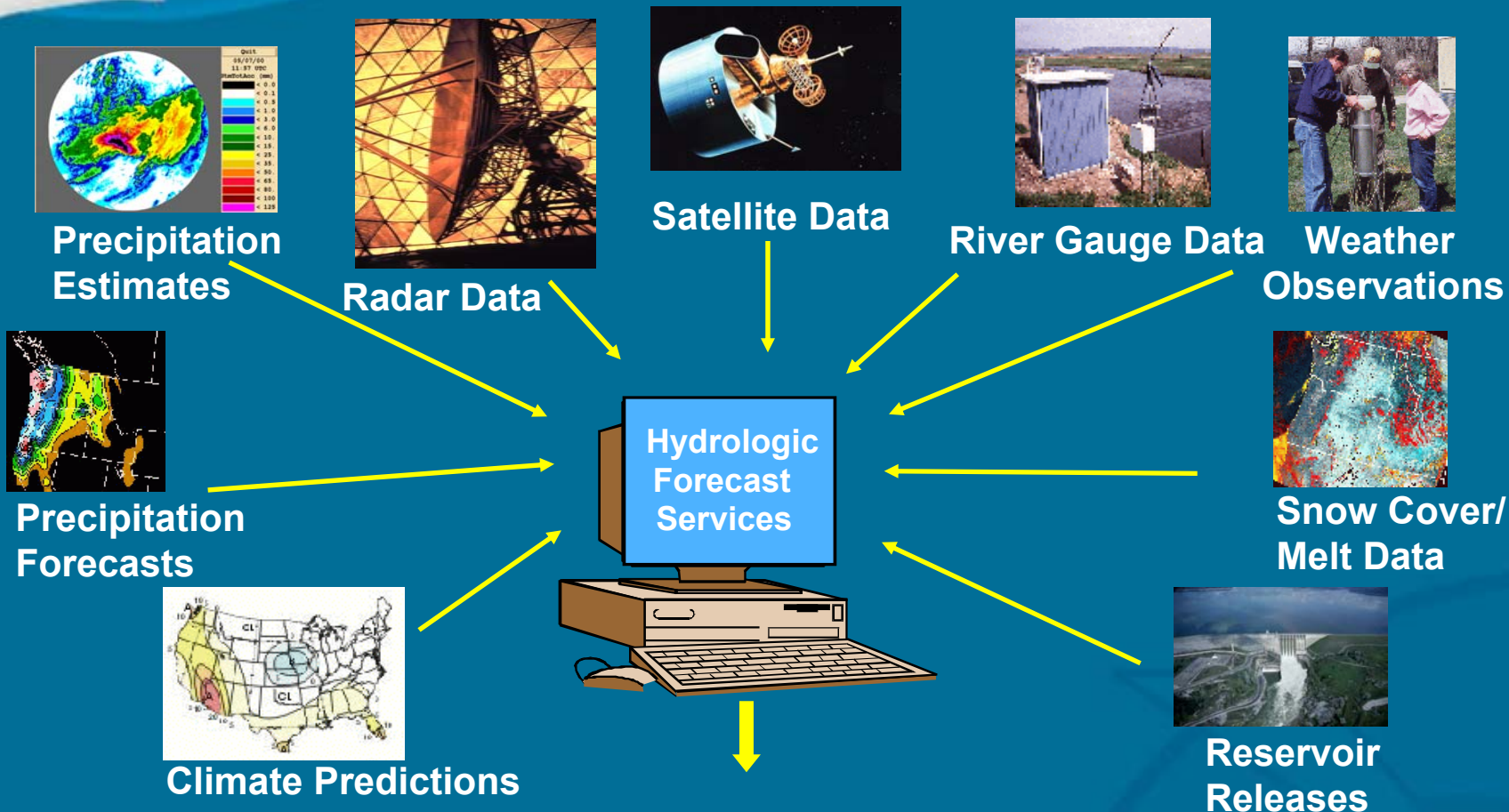
Advanced Hydrologic Prediction Service



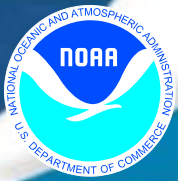
AHPS provides enhanced flood warnings and water resource forecasts leveraging NOAA's infrastructure and expertise.



Leveraging our Infrastructure and Expertise



Valuable Information to Satisfy Diverse Customer Needs



Advanced Hydrologic Prediction Service

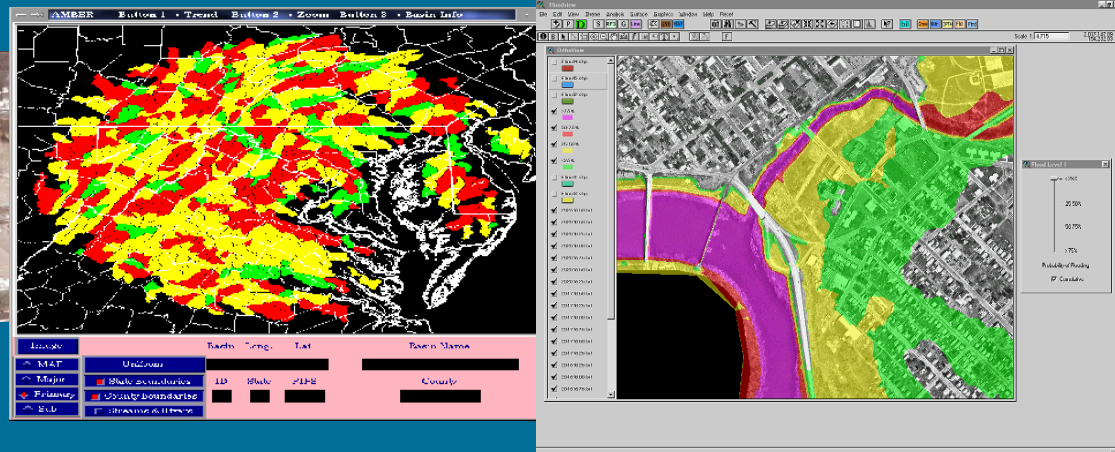


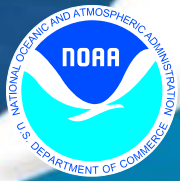
Unmet Customer Needs

- More precise forecasts over all time scales
- Information to make risk based decisions
- Universal access
- Visually oriented products

AHPS Provides

- Flash-flood to seasonal forecasts
- Forecast certainty
- Improved product delivery (Internet, wireless)
- Flood-forecast mapping





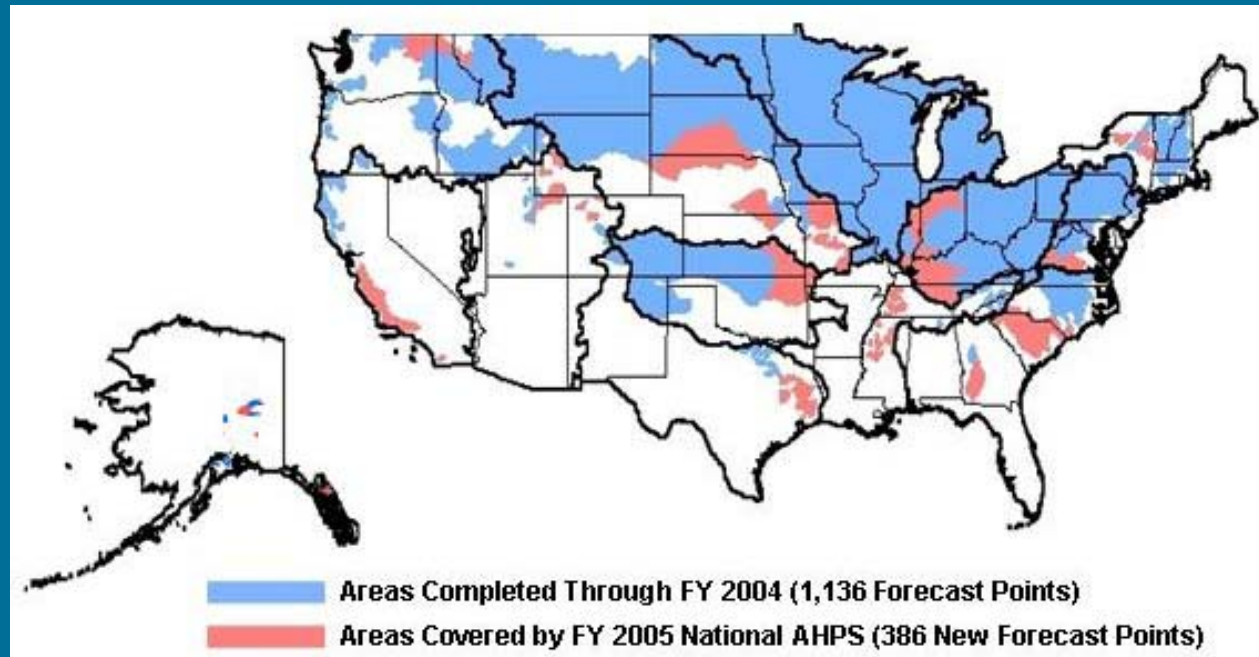
Project Enabled Services

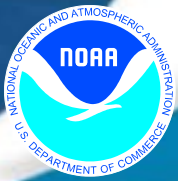


- Enhanced river level or water supply forecasts
- Long-term probability information
- Flash-flood forecast tools
- Short- and medium-term probability information

With Partnered Data

- Flood forecast maps





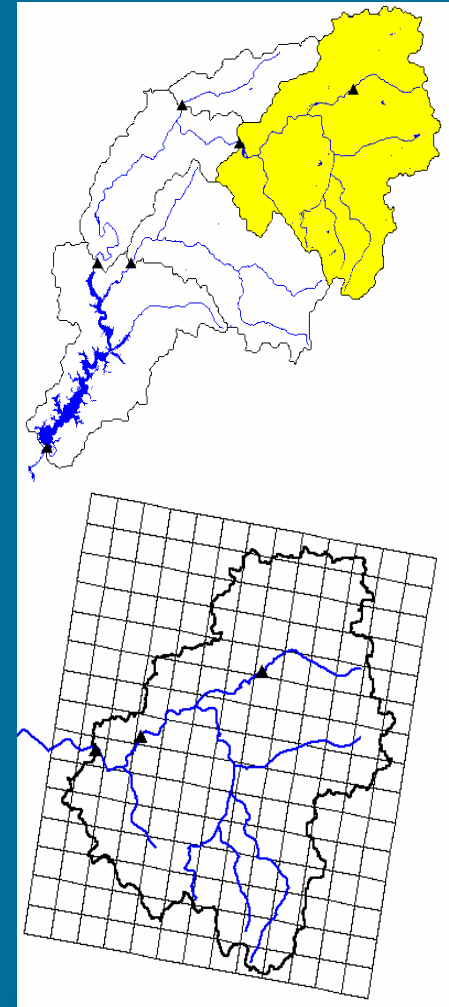
AHPS Project Areas



- Field Implementation
- Science
- Software
- Data
- Outreach/Training

Science Project Areas

- Probabilistic Ensemble Precipitation Estimates
- Calibration System Enhancements
- River Mechanics
 - Modeling/Calibration
 - Utilities
- Flash-flood Modeling
- Distributed Modeling

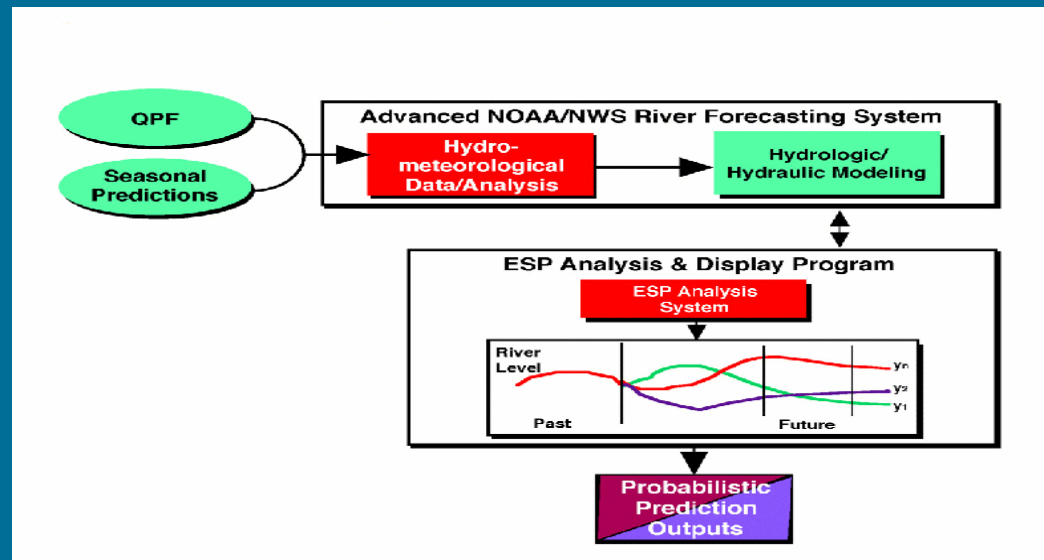


Software Project Areas

- Probabilistic Forecasting Verification
- Ensemble System Enhancements
- Reservoir and Diversions
- Software Support
- Ensemble System Enhancement (short-term)
- Distributed Modeling

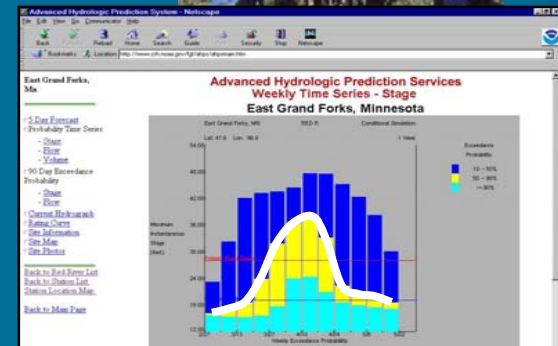
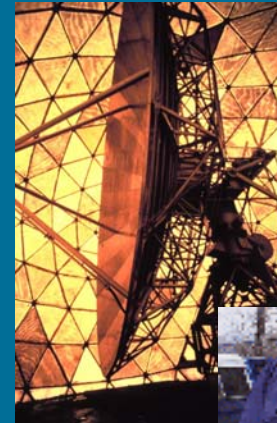
With Partnered Data

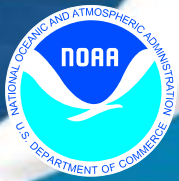
- Flood Mapping



Data Activities

- Collection
- Quality Assurance
- Dissemination
- Calibration
- Operations
- Product Generation





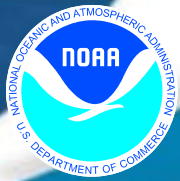
Advanced Hydrologic Prediction Service



Partners

- National Hydrologic Warning Council
- National Safety Council
- Federal Agencies
- River Basin Commissions
- Universities
- Riverside Technology, inc -- AHPS SETA Contractor





Advanced Hydrologic Prediction Service



Summary of Activities

Leverage Partnerships – NOAA and other government agencies and universities are incorporating community validated hydrologic forecast techniques:

- Precipitation Estimation
- Distributed Rainfall-Runoff Model
- Snow Model
- Watershed and River Models



Integrate Technology – merge finer scale radar, weather forecasts, and climate predictions to specify uncertainty of hydrologic forecasts



Custom Fit – tune models to unique river basin characteristics and climate conditions



http://www.nws.noaa.gov/oh/ahps

National Weather Service - Advanced Hydrologic Prediction Service - Netscape

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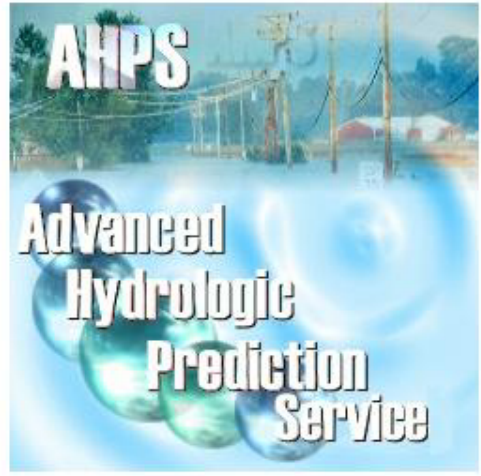
National Weather Service Advanced Hydrologic Prediction Service

www.nws.noaa.gov



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- Fact Sheet
- National Hydrologic Warning Council
- Benefits Report
- Concept of Service
- Implementation
- Brochure
- NOAA Magazine
- 
- National Safety Council Article
- 



The Advanced Hydrologic Prediction Service (AHPS) provides new information and products provided through the infusion of new science and technology. This service improves flood warnings and water resource forecasts to meet diverse and changing customer needs. Additional information on the AHP Service program may be obtained by writing AHPS@noaa.gov

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