

# NOAA's National Weather Service

## Guide to Hydrologic Information on the Web



Colorado River at Lees Ferry

Photo: courtesy Tim Helble

Your gateway to web resources provided through NOAA's  
Advanced Hydrologic Prediction Service begins here:  
[www.weather.gov/water](http://www.weather.gov/water)

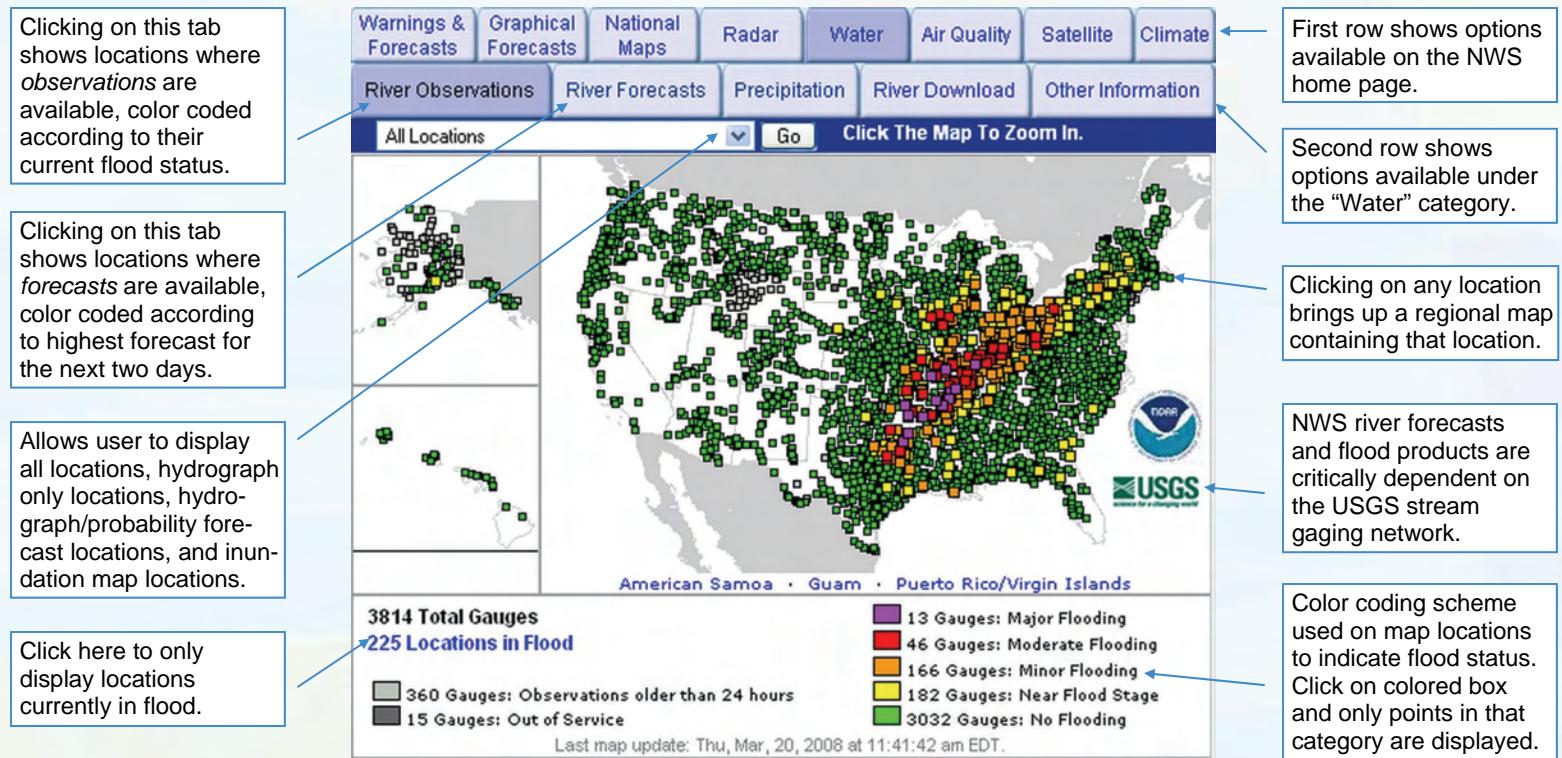
U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service  
July 2008

NOAA/PA 200850



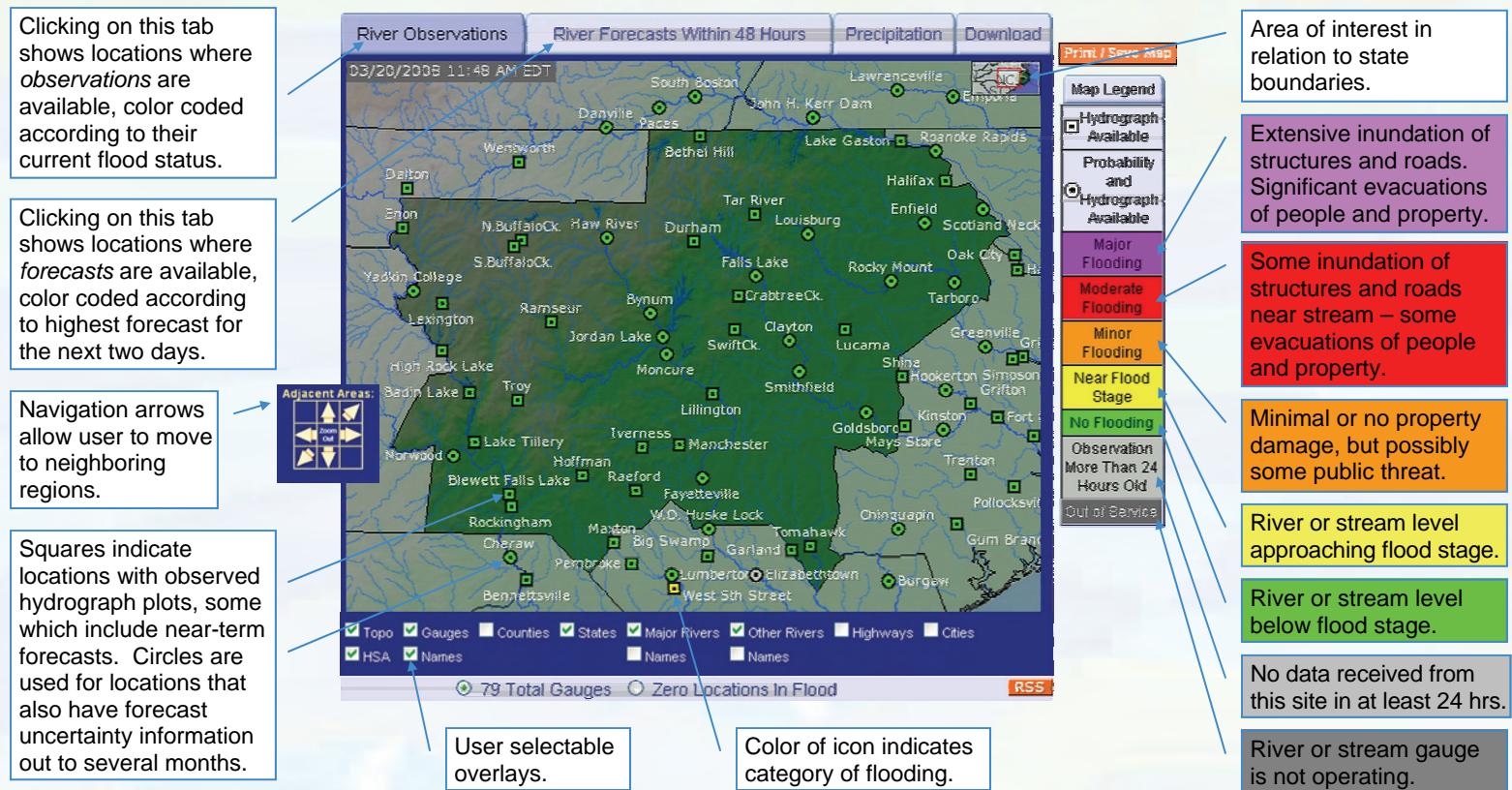
# National Map

This web page shows the flood status at all National Weather Service river forecast locations.



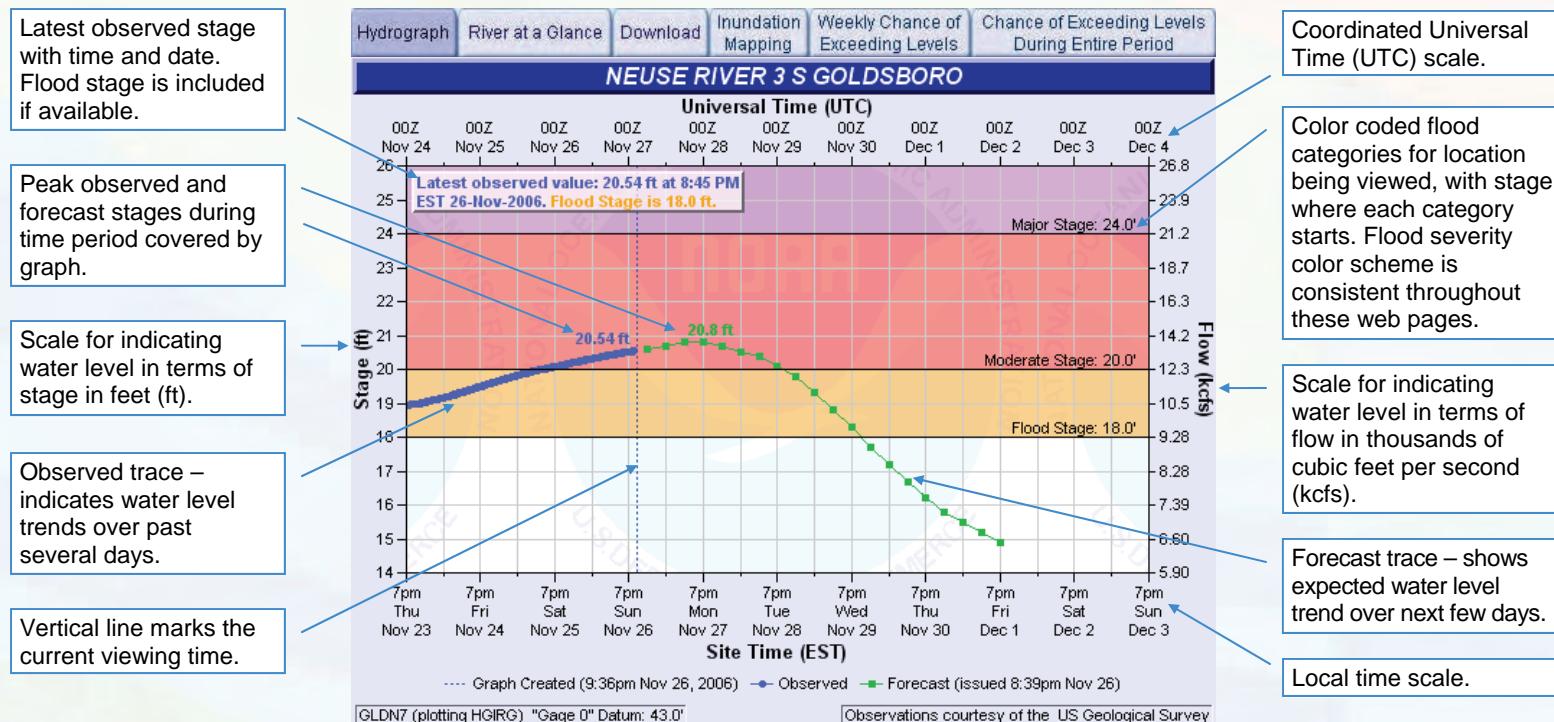
## Regional Map

This web page shows the flood status of river forecast locations in the selected region. Selecting a specific river/stream location provides access to localized information.



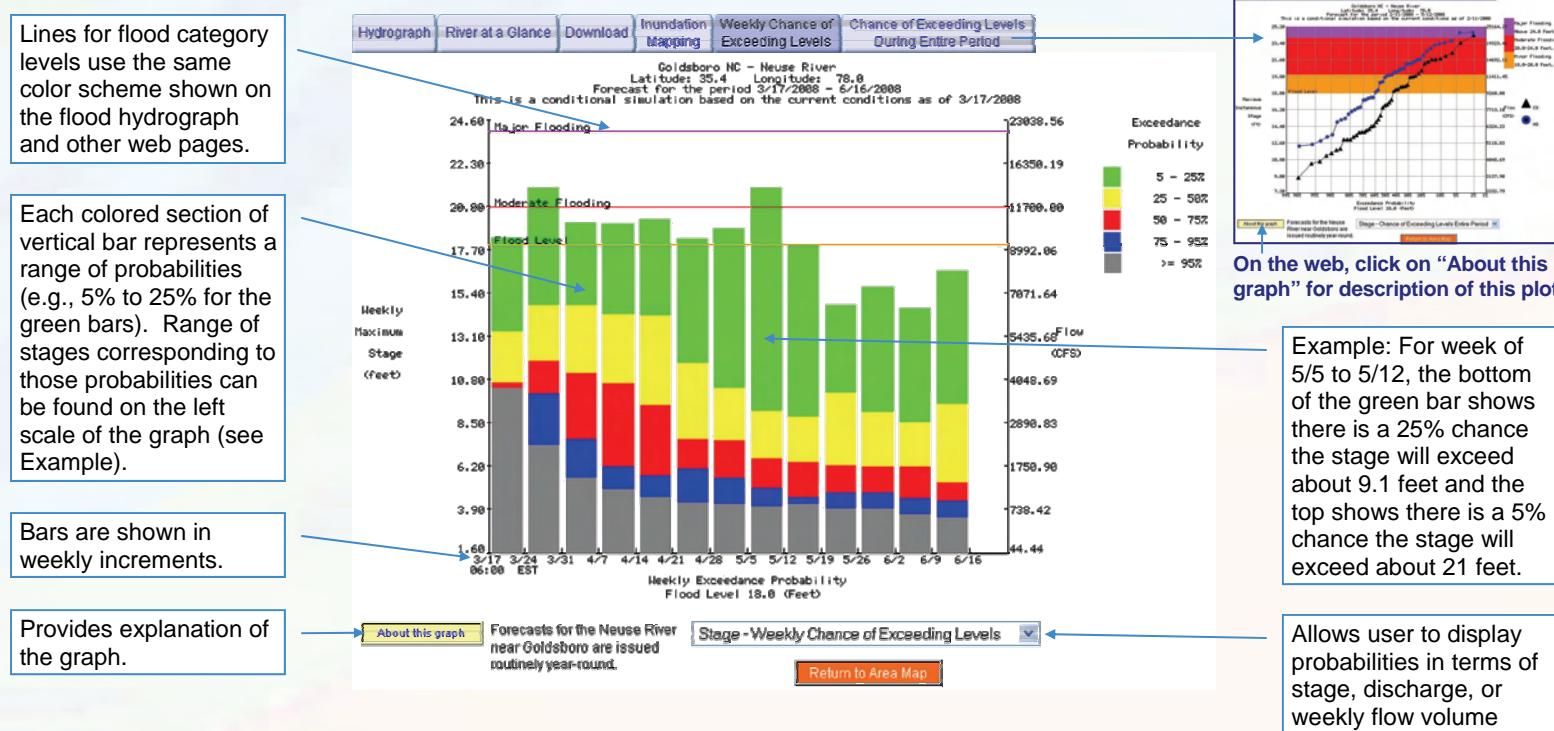
# Hydrograph

The hydrograph is the first graphic displayed after clicking on a specific river/stream location on the regional map. It provides recent observations and for many points a forecast for the next few days. Tabs at the top of the hydrograph allow a user to display other graphical information for the river/stream location.



## Weekly Chance of Exceeding Levels

This graphic provides the probability of exceeding various river/stream levels during the next three months given the weather patterns in past years and the best available long-term forecasts.

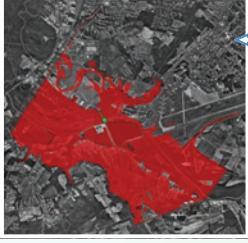


# Flood Inundation Map

This interactive web page shows the spatial extent of possible or expected flooding in a given area. It can be used to show if roadways and structures will be impacted by floodwaters. At the limited number of forecast locations where inundation maps are currently available, this web page is accessed by clicking on the inundation mapping tab on the hydrograph web page. In collaboration with partners, this product will be expanded to new locations.

Activate feature to show water depth at cursor (detailed mode only).

Set display: inundation levels, flood categories, or current forecast.


**Flood category display**


**Current forecast display**

Menu for inundation levels shown on map: stage = 21 feet is highlighted in yellow.

Slider for adjusting transparency of overlay.

Stage at inundation level currently shown on map.

Print/save image, download data, and links to supporting documents.

Mouse cursor location information, including water depth when the feature is activated.


**National Weather Service**  
**Advanced Hydrologic Prediction Service**


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**Neuse River near Goldsboro, NC (GLDN7)**

**Data Type**

- Inundation Levels
- Flood Categories
- Current/Forecast

**Inundation Levels**

NAVD88	Stage
71	28
70	27
69	26
68	25
67	24
<b>Major Flooding Begins</b>	
66	23
65	22
<b>64</b>	<b>21</b>
63	20
<b>Moderate Flooding Begins</b>	
62	19
61	18
<b>Flooding Begins</b>	
60	17
59	16
58	15
57	14
56	13

**Inundation Feedback**

**Inundation in partnership with**

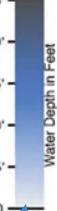




**Selected Inundation**  
 NAVD88: 64 ft  
 Stage: 21.0 ft

**Mouse Location**  
 Water Depth: Off  
 Latitude: 35.3695 N  
 Longitude: -77.9565 W  
\* All mouse location values are estimates only.


[Click on the image to zoom in](#)



**Flood Categories (in feet)**

Major Flood Stage	24
Moderate Flood Stage	20
Flood Stage	18
Action Stage	18
Below Flood Stage	

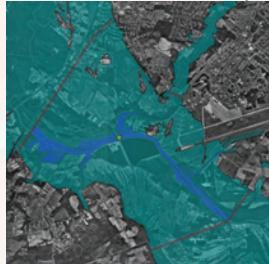

**USGS Gauge Location**

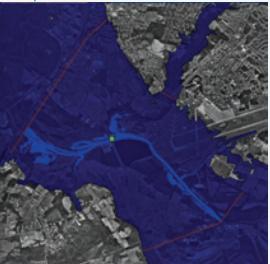

**Extent of Inundation Study Boundaries**

**Historical Crests**

- (1) 28.85 ft on 09/20/1999
- (2) 27.30 ft on 10/05/1929
- (3) 26.70 ft on 09/23/1945
- (4) 26.21 ft on 09/12/1996
- (5) 26.10 ft on 10/09/1964

[Show More Historical Crests](#)


**100-year flood**


**500-year flood**

Select background: standard map or detailed photo.

Latest stage observation.

Clicking anywhere on map allows user to zoom in on area of interest

Flood inundation at stage = 21 ft is shown on map.

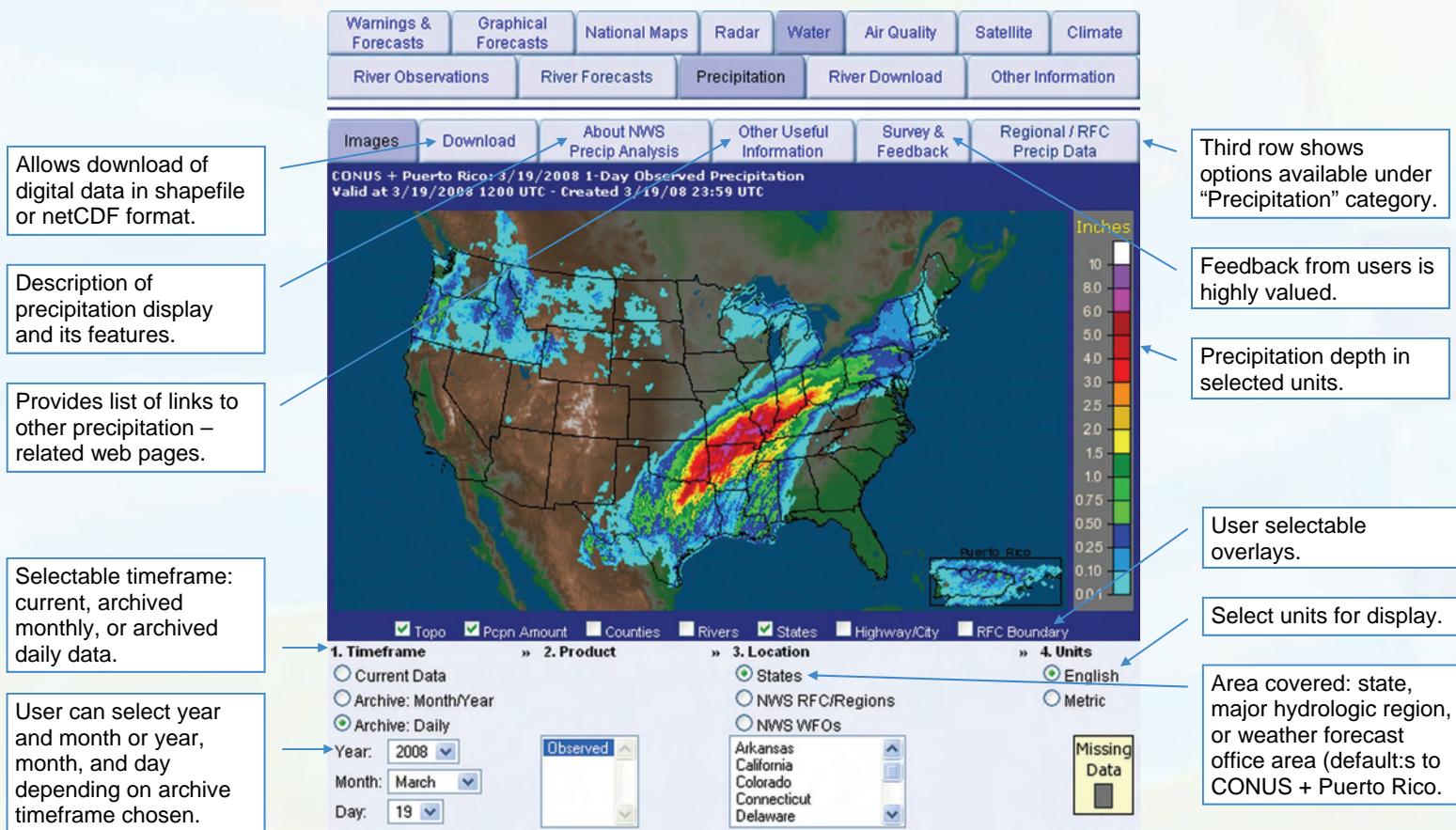
Provides overlays for FEMA 100-year flood, 500-year flood, and floodway maps.

Describes stage where each flood category begins.

List of historical flood crests.

# Precipitation

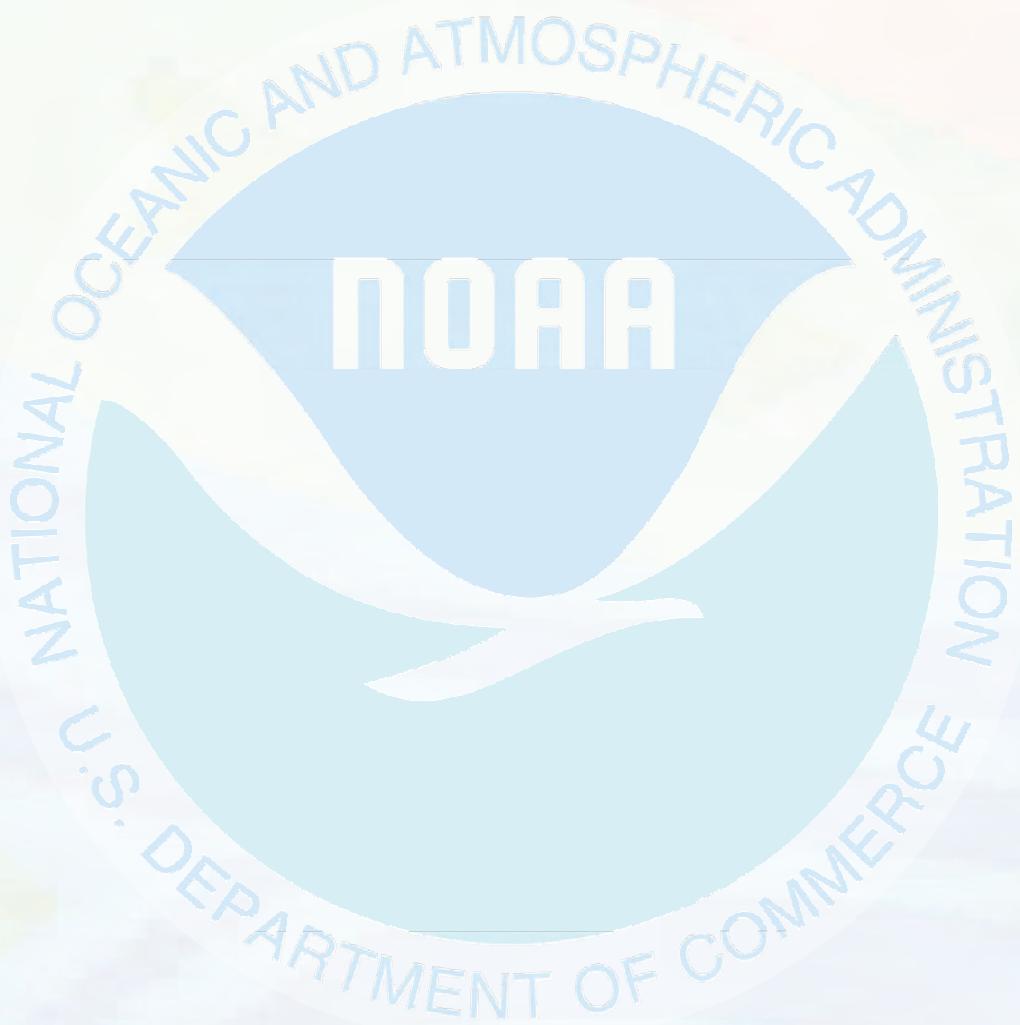
This web page shows the digital precipitation estimates used in National Weather Service river forecast models.



## Interactive Snow Information

This web page ([www.nohrsc.nws.gov/interactive/](http://www.nohrsc.nws.gov/interactive/)) provides an interface to remotely sensed snow information.





The Advanced Hydrologic Prediction Service, or AHPS, is a program in NOAA's National Weather Service designed to provide improved river and flood forecasting and water information. AHPS provides a suite of graphical and numeric products over the Internet to assist community leaders and emergency managers in making better life- and cost-saving decisions about evacuations and movement of property before flooding occurs.

To access the water information in this brochure, see:  
[www.weather.gov/water](http://www.weather.gov/water)

Feedback on these web pages is welcome at:  
[www.weather.gov/feedback.php](http://www.weather.gov/feedback.php)

