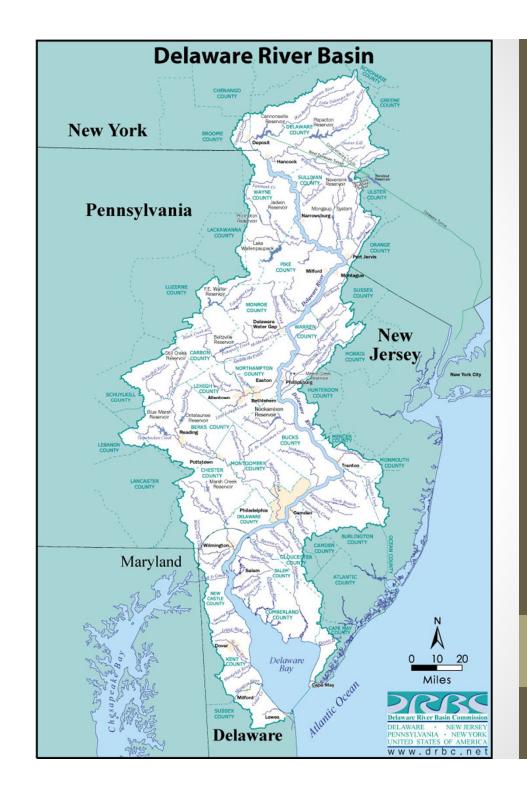
Delaware River Basin



Delaware River Watershed Facts

- Nearly 15 million people (about 5% of the U.S. population) rely on the waters of the basin
- Drains 13,539 mi², or 0.4 of 1% of the continental U.S. land area
- > 216 tributary streams



Delaware River

The Delaware is the longest, un-dammed river east of the Mississippi.

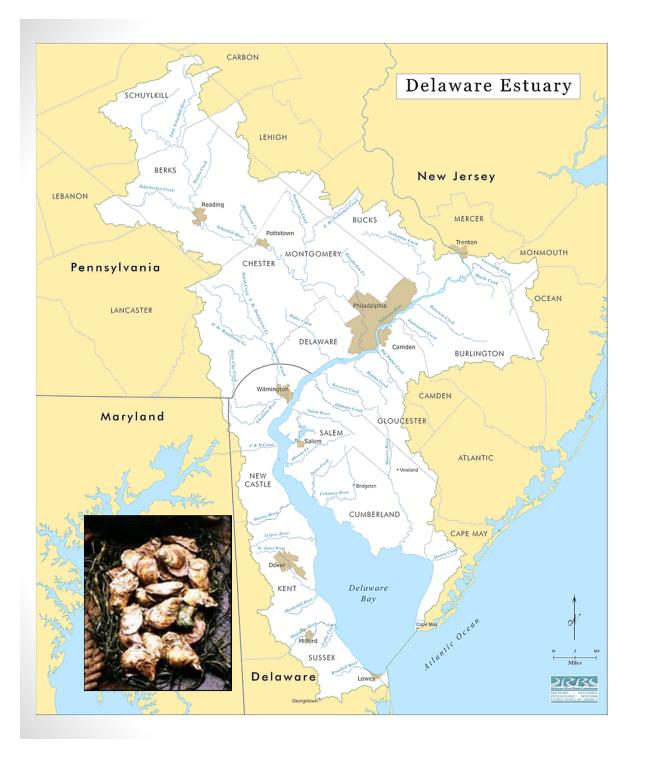






The Delaware River begins its 330-mile (531-kilometer) odyssey to the Atlantic Ocean near Hancock, New York, where the West Branch of the Delaware joins the East Branch.





The Delaware
Estuary -- the tidal
portion of the river
including the
Delaware Bay -begins at Trenton
and stretches
approximately 130
miles or
209 kilometers.





Delaware River Enhanced Flood Warning System

- Goal: To implement Flood Warning recommendations of the Interstate Flood Mitigation Task Force.
- Partners: National Weather Service (NWS), United States Geological Survey (USGS), & Delaware River Basin Commission (DRBC)
- Has been supported by the DRB Congressional Task Force:

• FY08: \$235,000

• FY09: \$235,000

• FY10: \$200,000



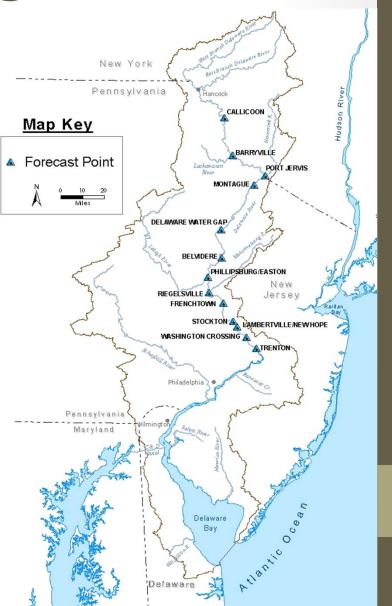
DELAWARE RIVER BASIN
INTERSTATE FLOOD MITIGATION

ACTION AGENDA

JULY 2007

Inundation Mapping

- Flood Inundation Maps are being prepared for 9 NWS River Forecast locations along the Delaware River main stem.
- Maps provide information on the spatial extent and depth of flood waters.
- U.S. Army Corps of Engineers, Philadelphia District developed mapping. NWS will provide the mapping online through the Advanced Hydrologic Prediction Service (AHPS).
- Recommendation FW-9



Inventory and Evaluation of Existing Precipitation and Stream Gage Networks

- Flood Warning Improvement Recommendations for the Delaware River Basin – 2009 NWS Report
- This report created updated gage inventories and lists a series of specific steps necessary for improvement of the gage network and expansion of flood forecasting services.
- Recommendations FW-1, FW-2, FW-7

Gage Hardening

 Flood harden, raise and reinforce 5-7 streamflow gaging stations above historic flood levels.



After

Flood

Before Flood

Recommendation FW-4

FY08 funds:

01428500 Delaware R above Lackawaxen at Barryville, NY

01427510 Delaware R at Callicoon, NY

FY09 funds (3-5):

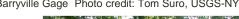
01436690 Neversink River at Bridgeville, NY

01417500 E. Br Delaware River at Harvard, NY

01413500 E. Br Delaware River at Margaretteville, NY

01423000 W. Br Delaware River at Walton, NY

01420500 Beaverkill at Cooks Falls, NY (partial)



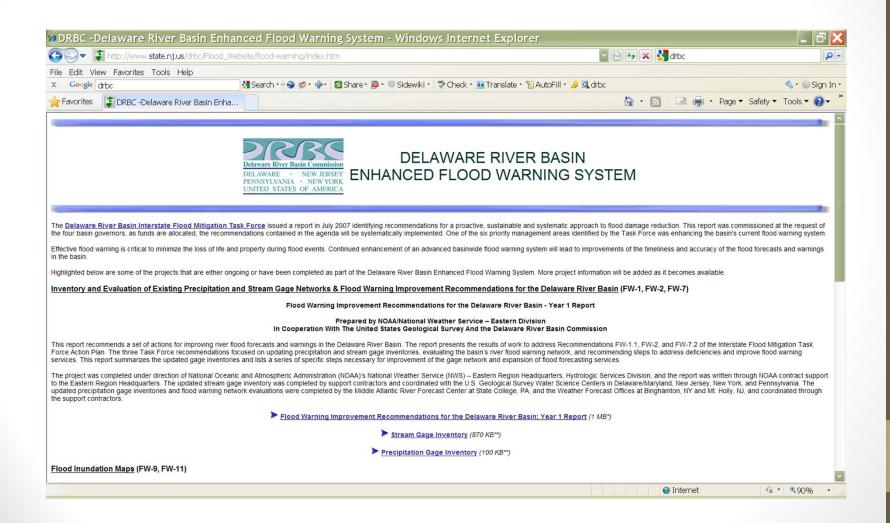


Flash Flood Forecasting Improvements

- Current flash flood forecasting compared radar rainfall to River Forecast Center (RFC) Flash Flood Guidance (FFG).
- This new technique uses output from a distributed hydrologic model (DHM).
- Can be applied to both gaged and ungaged locations. Exploring options for its use in the upper Delaware River Basin.
- Evaluates both localized runoff and routed components of flash flood generation.

DRBC Website:

http://www.nj.gov/drbc/Flood_Website/flood-warning/index.htm



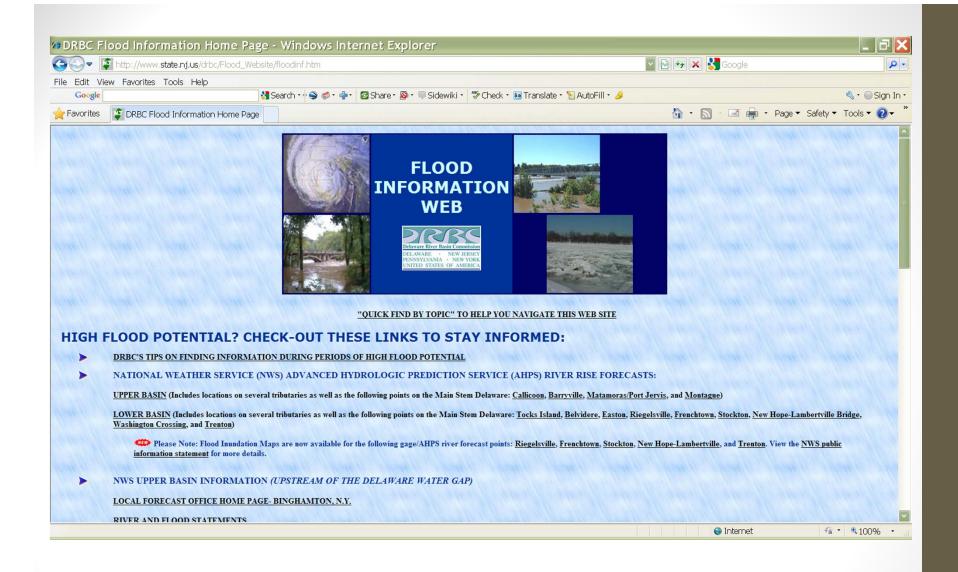
Delaware River Basin Flood Advisory Committee

- The FAC was established in 1999. The committee meets quarterly.
- Whereas, numerous organizations within the Delaware River Basin share flood loss reduction responsibilities; and
- Whereas, a Flood Advisory Committee can provide a forum for coordination of activities and promote efficient use of technical and financial resources for the benefit of the Delaware River Basin Community.

Flood Advisory Committee

Members:

- Delaware Department of Natural Resources and Environmental Control
- New Jersey Department of Environmental Protection
- New York Department of Environmental Conservation
- Pennsylvania Department of Environmental Protection
- New York City Department of Environmental Protection
- Delaware Emergency Management Agency
- New Jersey Office of Emergency Management
- New York Office of Emergency Management
- Pennsylvania Emergency Management Agency
- Federal Emergency Management Agency
- U.S. Department of Agriculture Natural Resources Conservation Service
- U.S. Geological Survey
- National Weather Service
- U.S. Army Corps of Engineers
- National Park Service
- Delaware River Joint Toll Bridge Commission
- Electric Generation Industry (Hydropower and Off-Stream Storage)
- County Water Resources Agency
- Local/County Emergency Management Representatives



www.drbc.net