

EDUCATION AND OUTREACH:

Over 130 county and local emergency management officials attended Flood Warning User Forums in the Fall of 2010 to learn about the latest in flood warning advancements, available online tools, and forecast products.



Lambertville, NJ Forum

Flood-alert products and inundation mapping provide critical information to emergency managers and local citizens enabling greater flood awareness and preparedness.

**Flood Warning User Forums
Delaware River Basin**

September 21, 2010 • Easton, PA
September 22, 2010 • Lambertville, NJ
September 28, 2010 • Narrowsburg, NY

Invited: County and Local Emergency Managers
Time: 8:30 am - 3:30 pm
Cost: FREE
Continental Breakfast and Lunch Provided

This is an opportunity to learn about the latest flood warning advancements and offer feedback to the National Weather Service (NWS) and the U.S. Geological Survey (USGS). A similar agenda will be presented at each Forum.

Agenda Topics to Include:

- ◊ Flood Warning Improvements
- ◊ Online Tools for Emergency Managers
- ◊ Current/Future NWS Forecast Products
- ◊ USGS Stream Gages and WaterAlert
- ◊ River Forecasting - How it Works
- ◊ Flash Flood Potential Index
- ◊ Flood Inundation Mapping Tool
- ◊ Nurture Nature's Flood Awareness and Safety Campaign
- ◊ Audience Feedback/ Recommendations

September 21st
Grand Eastonian Suites Hotel
140 Northampton Street
Easton, PA 18042

September 22nd
191 at Lambertville Station
11 Bridge Street
Lambertville, NJ 08530

September 28th
Tudor Town Hall
210 Bridge Street
Narrowsburg, NY 12764

Reserve your attendance! Please RSVP (name, jurisdiction & date) to Laura Tessleri, DRBC at (609) 883-9500 x304 or Laura.Tessleri@drbc.state.nj.us



Narrowsburg, NY Forum

DELAWARE RIVER BASIN INTERSTATE FLOOD MITIGATION TASK FORCE

The Delaware River Basin Interstate Flood Mitigation Task Force issued a report in July 2007 identifying 45 recommendations for a proactive, sustainable and systematic approach to flood damage reduction. This report was commissioned at the request of the four basin governors.

FUTURE WORK

As funds are allocated, the Delaware River Basin Enhanced Flood Warning System's project partners will continue to work together to implement the flood warning recommendations of the Task Force. Ongoing efforts ensure that the existing flood warning system is not only maintained, but utilizes technological advancements.

Delaware River Basin Enhanced Flood Warning System



USGS Stream Gage
Montague, NJ



Washington Crossing Bridge
April 2005



Lambertville, N.J. Flooding
April 2005

Flood Warning Improvements Made Possible Through Congressional and NOAA Grant Support

FY2008-2010

Partners:



US Army Corps
of Engineers®

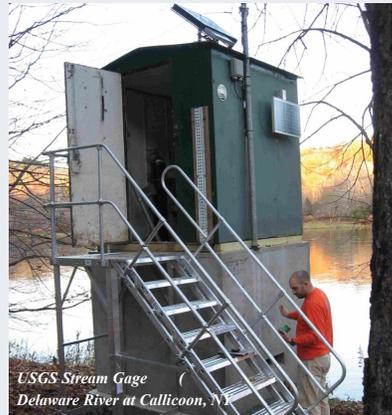


For more information: visit www.nj.gov/drbc/programs/flood/warning.html

The following activities were funded through NOAA grant funding:

USGS STREAM GAGE UPGRADES:

- ◆ USGS flood hardened, raised and reinforced streamflow gaging stations above historic flood levels to prevent outages during future high water events.



USGS Stream Gage
Delaware River at Callicoon, NY

AFTER



USGS Stream Gage
Delaware River at Callicoon, NY

BEFORE

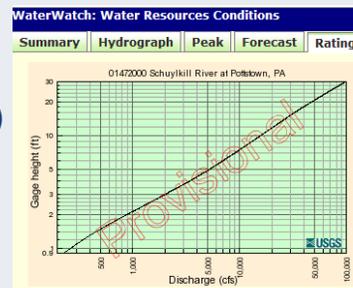
← HWM High Water mark
June 2006

← HWM High Water mark
April 2005

“Hardened gages are integral to downstream flood forecasting”

- Patti Wnek, NWS MARFC

- ◆ USGS extended rating curves to 125% of historic peak streamflow for prioritized flood forecast points in the basin.
- ◆ The National Weather Service (NWS) uses rating curves to determine the predicted amount of flooding during high water events.



NWS FORECASTING UPGRADES:

- ◆ Flash flood forecasting improvements for headwater areas in the upper basin.
- ◆ Inventory and evaluation of precipitation and stream gage networks.
- ◆ Establishment of flood stages and impact statements for new forecast sites.

FLOOD INUNDATION MAPPING:

“These are among the first flood inundation maps to be made available to the public in the Northeast”

- Victor Hom, NOAA/NWS



- ◆ Flood inundation maps are a planning tool that can be used by both residents and local officials. The ability to view inundation levels of past and future flood events allows communities to better understand their flood risk and plan for a sustainable future.
- ◆ At nine NWS river forecast locations along the Delaware River main stem, mapping displays the spatial extent and depth of flood waters for a range of forecasted stages.
- ◆ The inundation maps were prepared by the U.S. Army Corps of Engineers- Philadelphia District and made available online through the NWS Advanced Hydrologic Prediction Service.

DRBC SUPPORT OF FLOOD COORDINATION:

- ◆ Provided training to emergency management officials on flood warning tools.
- ◆ Coordinated with local officials to ground-truth inundation mapping.
- ◆ Developed outreach and educational materials/provided links to web tools via DRBC website.
- ◆ Coordinated with local and federal partners at quarterly DRBC Flood Advisory Committee (FAC) meetings.