



Media Seminar - Hydro Update

For river forecasts Bank Full to <Flood Stage

- 80 % + Confidence = Flood Advisory (FLA)
- < 80 % Confidence = River Statement (RVS)



For river forecasts Flood Stage +

- 80 % + Confidence = Flood Warning (FLW)
- < 80 % Confidence = Flood Watch (FFA)



For river forecasts below Bank Full – Within bank rise
River Statement (RVS)

Hydro Discussions can also be found in:

- Hazardous Weather Outlook (HWO)
- Area Forecast Discussion (AFD)
- Hydrologic Outlook (ESF)





River Flood Advisories

- ✓ Designed to handle river flooding situations that are out of banks but not impacting life or typically property.
- 1. Have you gotten any feedback from you viewers?
- 2. Do you find the products useful?
- 3. Any Feedback... Good...Bad...or Ugly.



New HYD Product

- ✓ Provides Max/Min Temp between Midnight and 15 Z (10 AM EST/11 AM EDT)
- ✓ Comes in under ARBHYDGRR (SXUS53)
- ✓ How many are using it?
- ✓ Is it meeting your needs? If not...how can we change it?

Severe Weather Awareness Week

March 27th – April 2nd



March 29th Severe Weather Poster Awards Ceremony at the Michigan State Capital (Two winners from our area...Great Media event!)

1st Place Winner of Severe Weather Poster Contest was:

RACHAEL KUIPER

5TH Grade

Fremont Christian School

Fremont, MI 49412

3rd Place Winner of Severe Weather Poster Contest was:

BRITTANY BARRUS

4th Grade

Fulton Elementary

Middleton, MI 48856

March 30th State wide Tornado Drill

NOAA Flood Alerts



National Oceanic and Atmospheric Administration's
National Weather Service

Site Map News Organization

Home > Water

Guide to Hydrologic Information on the Web. To open PDF [click here](#).

Warnings & Forecasts Graphical Forecasts National Maps Radar Water Air Quality Satellite Climate

River Observations River Forecasts Precipitation River Download Other Information

All Locations Go Click The Map To Zoom In.

American Samoa · Guam · Puerto Rico/Virgin Islands

4750 Total Gauges
8 Locations in Flood

- 421 Gauges: Observations older than 24 hours
- 22 Gauges: Out of Service
- 5 Gauges: Major Flooding
- 1 Gauges: Moderate Flooding
- 2 Gauges: Minor Flooding
- 20 Gauges: Near Flood Stage
- 4279 Gauges: No Flooding

Last map update: 02/04/2011 at 12:46:09 pm EST / 02/04/2011 17:46:09 UTC

Hydrologic Resources

- ▶ Text Products
- ▶ River Forecast Centers
- ▶ About AHPs
- ▶ Partners
- ▶ AHPs RSS **RSS**
- ▶ Automated Flood Warning Systems
- ▶ Hydrometeorological Automated Data System

Additional Resources

- ▶ National Significant River Flood Outlook
- ▶ U.S. Geological Survey Streamflow Information
- ▶ Snow Information
- ▶ NWS Precipitation and River Forecasting
- ▶ Water Resources Outlook
- ▶ Experimental Hourly Precipitation
- ▶ Guide to Hydrologic Information on the Web

<http://water.weather.gov/ahps/>



How to sign up for a NOAA Flood Alert



Advanced Hydrologic Prediction Service (AHPS)



The screenshot displays the AHPS web interface. At the top is a map of Michigan with various gauges marked by green circles and diamonds. Below the map is a legend with checkboxes for 'Topo', 'Gauges', 'Counties', 'States', 'Major Rivers', 'Other Rivers', 'Highways', 'Cities', 'HSA', and 'Names'. A status bar indicates '45 Total Gauges' and 'Zero Locations in flood'. Below this is a 'River Menus' section with a grid of dropdown menus for rivers such as Pere Marquette, White, Muskegon, Little Muskegon, Chippewa, Pine, Maple, Flat, Red Cedar, Sycamore Creek, Looking Glass, Grand, Rogue, Thornapple, Kalamazoo, Portage, and St. Joseph. A 'Resources' section is highlighted with a yellow oval, containing two columns of links: 'Hydrologic Resources' and 'Additional Resources'. At the bottom, there is a 'Collaborative Agencies' section.

Hydrologic Resources

- ▶ Text Products
- ▶ Past Precipitation
- ▶ Forecast Precipitation
- ▶ River Forecast Centers
- ▶ NOAA Flood Watch
- ▶ USGS Water Watch for Michigan
- ▶ Hydrologic Information Center
- ▶ National Operational Hydrologic Remote Sensing Center
- ▶ United States Water Monitor
- ▶ USGS Water Watch
- ▶ National Precipitation Graphic Suite
- ▶ Inundation Mapping Locations
- ▶ Zoomable Precipitation Map
- ▶ Zoomable Snowfall Map

Additional Resources

- ▶ Area Hydrographs
- ▶ NWS Precipitation and River Forecasting
- ▶ Center for Operational Oceanographic Products and Services
- ▶ U.S. Drought Portal
- ▶ Palmer Drought Index
- ▶ U.S. Drought Assessment
- ▶ Snow Information
- ▶ NowCOAST
- ▶ Flood Emergency Preparedness and Response
- ▶ Floodsmart
- ▶ NOAA Climate Services
- ▶ U.S. Drought Monitor for Michigan

Zoomable
Precipitation
Map

The National Weather Service prepares its forecasts and other services in collaboration with agencies like the US Geological Survey, US Bureau of Reclamation, US Army Corps of Engineers, National Oceanic and Atmospheric Administration, and the US Environmental Protection Agency.

NWS Hydro Reports on the Web



National Weather Service Weather Forecast Office
Grand Rapids, MI

Home Site Map News Organization Search for: **NWS** **All NOAA** Go

Local forecast by "City, St" or Zip Code
 City, St Go

XML RSS Feeds

Current Hazards
 Watches/Warnings
 Outlooks
 Submit Report

Current Conditions
 Observations
 Radar
 Satellite

Forecasts
 Forecast Discussion
 Local Area
 Activity Planner
 Aviation Weather
 Fire Weather
 Marine Weather
 Severe Weather
 Winter Weather
 Hurricane Center

Hydrology
 Rivers & Lakes
 Precip Estimates

Climate
 Local
 National
 Drought
 More...

Weather Safety
 Preparedness
 Weather Radio
 StormReady
 SkyWarn
 Education

Additional Info
 Items of Interest
 Education Resources
 Coop Observer
 Top News Archives

Top News of the Day

- Comparing the Recent Blizzard to the Blizzard of '78
- Summary of the Recent Blizzard
- Southwest Michigan Chapter of the AMS and NWA
- Additional News Headlines

Watches & Warnings Observations Forecast Graphics Rivers & Lakes Climate Spotter Reports

Click on the map below for the latest forecast.

Read watches, warnings & advisories

Small Craft Advisory
 Brisk Wind Advisory
 Hazardous Weather Outlook
 Short Term Forecast

Zoom In Zoom Out

Last map update: Fri, Feb. 4, 2011 at 1:08:28 pm EST

Latest Conditions in Grand Rapids, MI Choose Your Front Page City

Feb 4 **12:53 pm** **21°F** (4°C) Clear
 Select A City:

Weather Story Radar Satellite Weather Map

Snow **CoCoRaHS** **Spotter Talks**

National Weather Service Weather Forecast Office
Grand Rapids, MI

Home Site Map News Organization Search for: **NWS** **All NOAA** Go

Local forecast by "City, St" or Zip Code
 City, St Go

XML RSS Feeds

Current Hazards
 Watches/Warnings
 Outlooks
 Submit Report

Current Conditions
 Observations
 Radar
 Satellite

Forecasts
 Forecast Discussion
 Local Area
 Activity Planner
 Aviation Weather
 Fire Weather
 Marine Weather
 Severe Weather
 Winter Weather
 Hurricane Center

Hydrology
 Rivers & Lakes
 Precip Estimates

Climate
 Local
 National
 Drought
 More...

Weather Safety
 Preparedness
 Weather Radio
 StormReady
 SkyWarn
 Education

Additional Info
 Items of Interest
 Education Resources
 Coop Observer
 Top News Archives
 Our Office

Contact Us
 Contact Info
 Feedback

Southwest Lower Michigan Items of Interest

Current Conditions
 Air Quality
 Radar
 Grand Rapids Gerald R. Ford International Airport
 Lansing Capital City Airport
 Muskegon County Airport
 Additional Airport Observations

Forecasts
 Area Forecast Discussion
 Area Forecast Maps
 Daily Weather Story
 Aviation Weather
 Weather Activity Planner
 Fire Weather
 Marine Weather
 Severe Weather
 Winter Weather
 Hurricane Center

Hydrology
 Local Hydrological Information & Reports
 Advanced Hydrological Prediction Service
 Climatology/Past Weather
 National Climatic Data Center
 National Climatic Information

Items of Interest Beyond the Local Area

Current Conditions
 Satellite
 National Radar
 National Precipitation
 NOAA Water

Forecasts
 Storm Prediction Center
 National Hurricane Center

Hydrology
 National Advanced Hydrological Prediction Service
 North Central River Forecast Center

Climatology/Past Weather
 National NWS Climate Site
 National Climatic Data Center
 Earth System Research Laboratory
 NOAA Climate Site
 SPC Climatology
 Tropical Prediction Center
 Central Region Climate Resources

Weather Education & Safety
 NOAA Education Resources

Hydrology

Current Conditions
 Advanced Hydrologic Prediction Services

Hydrologic Text Products
 Hydrologic Summary
 Hydrologic Statement
 Hydrologic Outlook
 Daily River & Lake Summary

Significant River Flood Outlook
 National Mosaic
 North Central River Forecast Center

Drought Information
 NOAA Drought Information Center

Precipitation Summaries
 Daily Summaries

Miscellaneous
 Flash Flood Guidance
 AHPS Information
 River Flooding FAQ (PDF)
 SHEF Manual (PDF)

Flood Stage Report E3 (PDF Format)
 July 2010
 June 2010
 May 2010
 March 2010
 June 2009
 May 2009
 April 2009
 March 2009
 February 2009
 January 2009

Flood Stage Report E5 (PDF Format)
 December 2010
 November 2010
 October 2010
 September 2010
 August 2010
 July 2010
 June 2010
 May 2010
 April 2010
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 January 2008

National Weather Service [Disclaimer](#) [Privacy Policy](#)



Incident Decision Support Services (IDSS)

Kalamazoo Oil Spill Support

- ❖ Provided on-site weather support
- ❖ Provided Travel Time estimates
- ❖ Provided Ice Jam Potential Forecasts
- ❖ Still providing Daily Weather Brief
- ❖ Still providing Daily River Forecasts



Hazmat Exercise -Kent County

When: May 10, 2011 from 6 PM to 9 PM

Where: Reisters Grower Service
14050 Fruit Ridge Ave.
Kent City MI

Would like to have Media involved 

For more information contact:

Sue Barthels
LEPC Coordinator
Kent County Sheriff Department
(616) 632-6256
sue.barthels@kentcountymi.gov



www.Floodsmart.gov



Service Coordination Hydrologist

Steve Buan

North Central River Forecast Center

Minneapolis, MN

steve.buan@noaa.gov

(952) 361-6650 ext 222

Service Hydrologists in Michigan

Mark Walton

National Weather Service

Weather Forecast Office

Grand Rapids, MI

mark.walton@noaa.gov

(616) 949-0643 ext 493

Danny Costello

National Weather Service

Weather Forecast Office

White Lake, MI

danny.costello@noaa.gov

(248) 625-3309 ext 493