FLOOD SEASON PREPAREDNESS FLOOD WARNING SYSTEM UPDATE

WEST CONSULTANTS

DAVID C. CURTIS, PH.D, F.EWRI















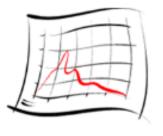
Chehalis River Basin Flood Warning System



Weather Forecast



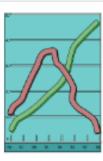
Rainfall Forecast



River Forecast



Flood Maps



Gage Data Graphs



Gage Data Maps



Chehalis Flood Authority



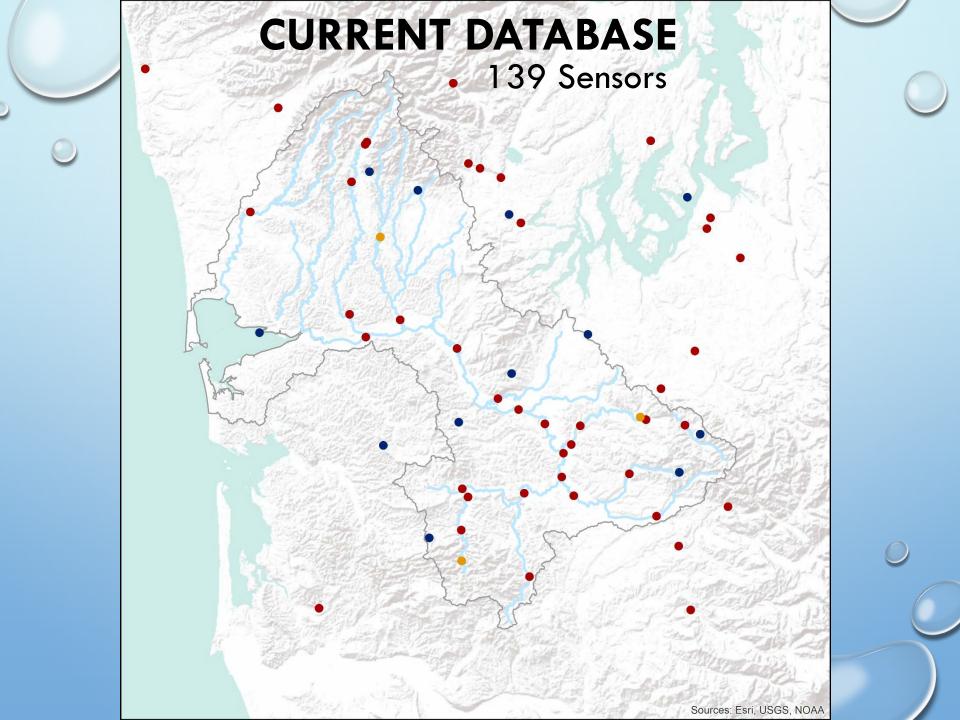
Road Conditions



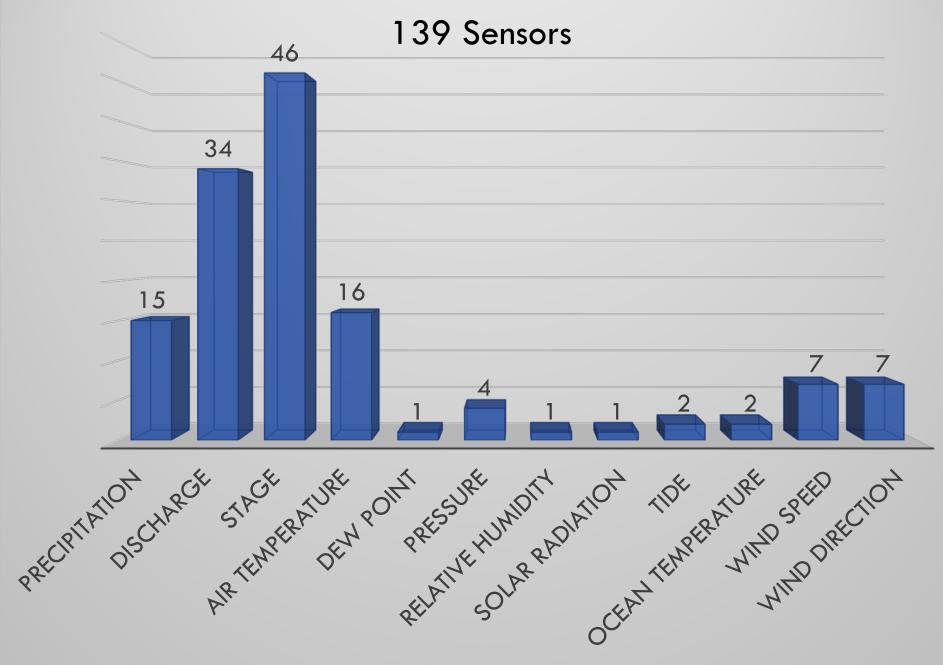
USGS Gages



Question?



Current Database



TOPICS FOR TODAY

- FLOOD WARNING SYSTEM WEBSITE
 - QUICK REVIEW
 - KEY FEATURES
 - NEW FEATURES
- SYSTEM IMPROVEMENTS
 - GOES RADIO UPGRADE
 - GAGE DATUM UPGRADE
 - UPGRADED STREAM GAGES
 - NEW EQUIPMENT
 - RATING CURVES
 - GAGE/SENSOR INVENTORY
- USER ENGAGEMENT







BOOKMARK

Shallow Landslide Hazard Forecast Map









LAST UPDATED: MONDAY, NOVEMBER 06, 2017 10:03 AM

The modeled shallow landslide hazard map shown below is based on antecedent rainfall, 24-hour, and 48-hour predicted rainfall.

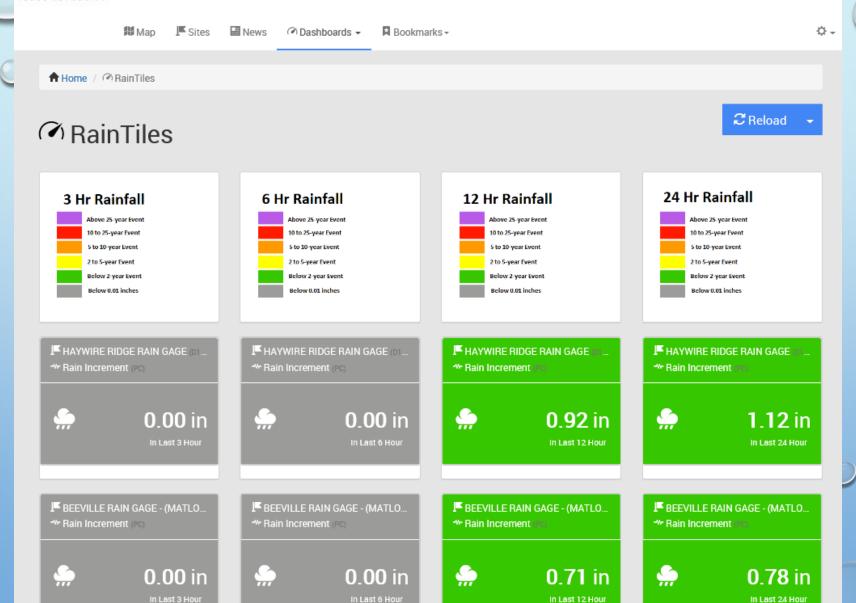
Click on a zone within a county for more information about the general landslide hazard forecasted for that area.

This landslide hazard information is produced in a partnership between the Washington State Department of Natural Resources—Washington Geological Survey and NOAA—National Weather Service.

IMPORTANT NOTE: This Website is a beta version and is under construction. Timely delivery of data and products



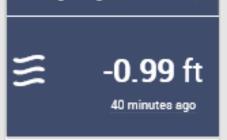
RAINFALL DASHBOARD "TILES"



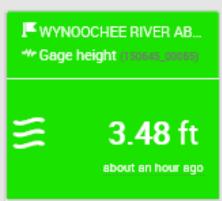
RAINFALL SUMMARY TABLE

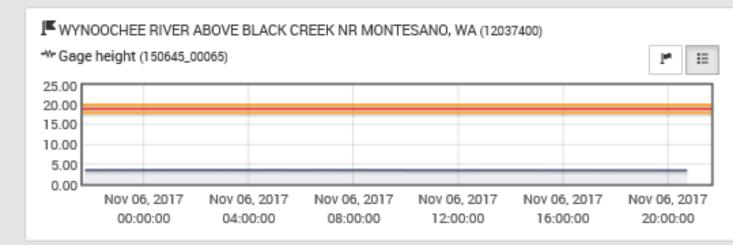
Site ^	1 Hour ♦	3 Hour ♦	6 Hour ♦	12 Hour ♦	24 Hour ♦	48 Hour ♦
BEEVILLE RAIN GAGE - (MATLOCK 3NE)	0.00	0.00	0.00	0.00	0.00	0.68in
BROOKLYN RAIN GAGE	0.00	0.00	0.00	0.00	0.00	0.87in
CEDAR CREEK RAIN GAGE NR LITTLEROCK, WA	0.00	0.01in	0.01in	0.01in	0.01in	0.60in
CHEHALIS BLW THRASH CRK	0.00	0.00	0.00	0.00	0.00	0.40in
HAYWIRE RIDGE RAIN GAGE	0.00	0.00	0.00	0.56in	0.60in	1.15in
Hoquiam	0.00	0.00	0.00	0.00	0.00	0.41in
NEWAUKUM-WEYCO RAIN GAGE	0.00	0.00	0.00	0.00	0.00	0.84in
Olympia	0.00	0.00	0.00	0.00	0.00	1.03in
RIVERSIDE RAIN GAGE (RFA-STA8)	0.00	0.00	0.00	0.00	0.00	1.05in
ROCK-WEYCO RAIN GAGE	0.00	0.00	0.00	0.00	0.00	0.24in

RIVER DASHBOARD













26.10 ft

25 minutes ago



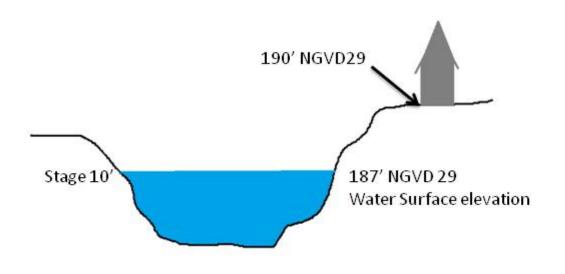


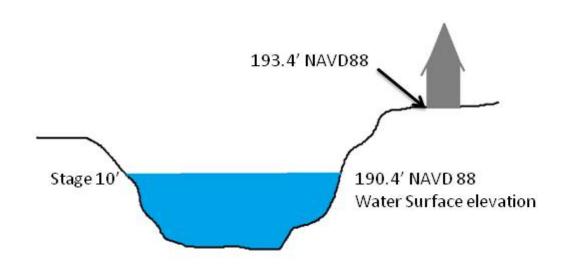
UPGRADE GOES RADIOS





GAGE DATUM

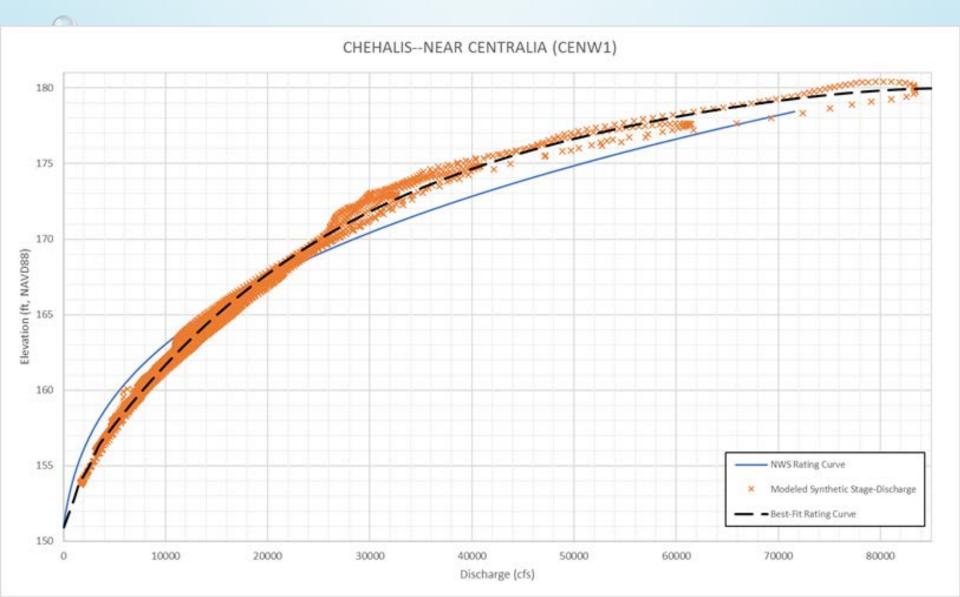






RATING CURVES





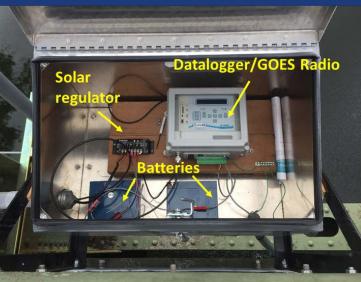
UPGRADE STREAM GAGES



NWS GAGE UPGRADE - CHEHALIS RIVER AT CENTRALIA, WA - 12025500

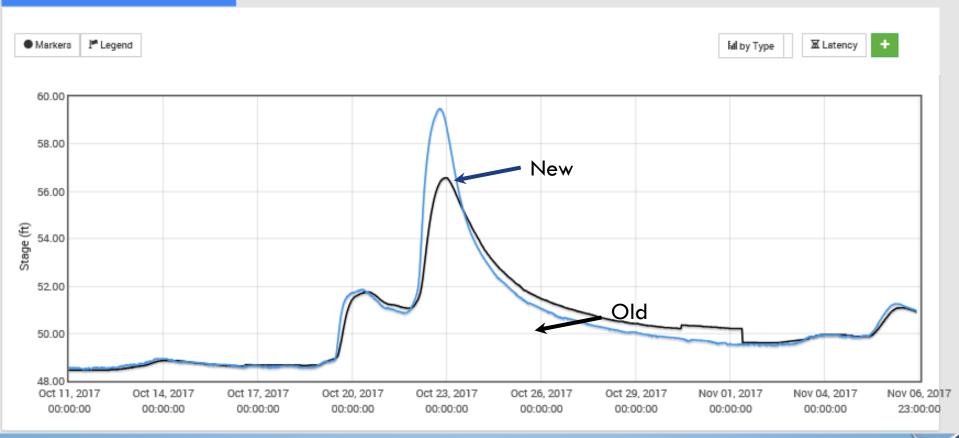


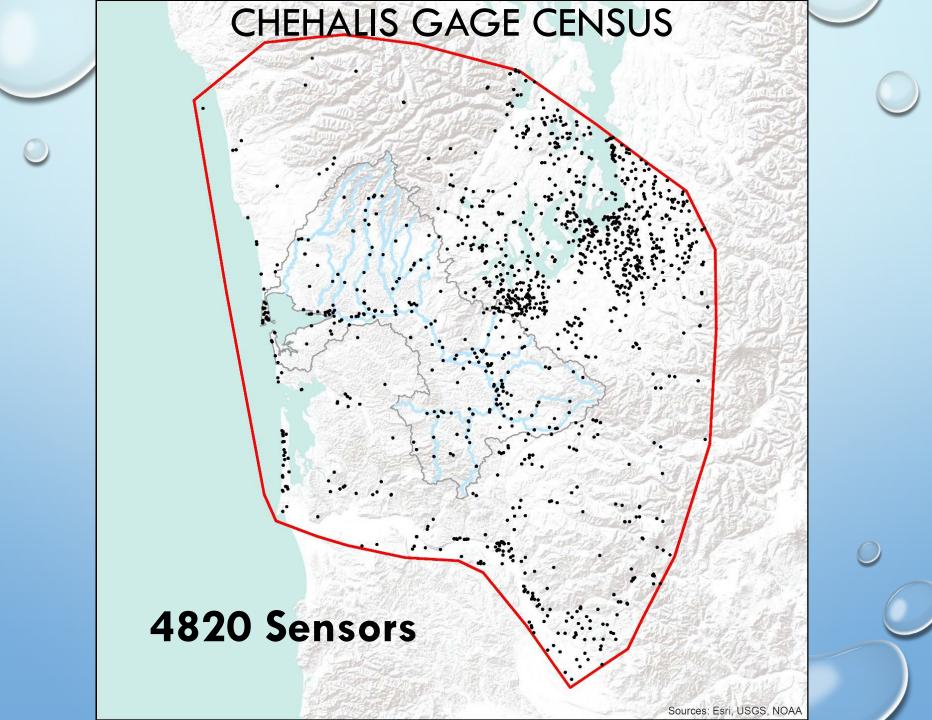


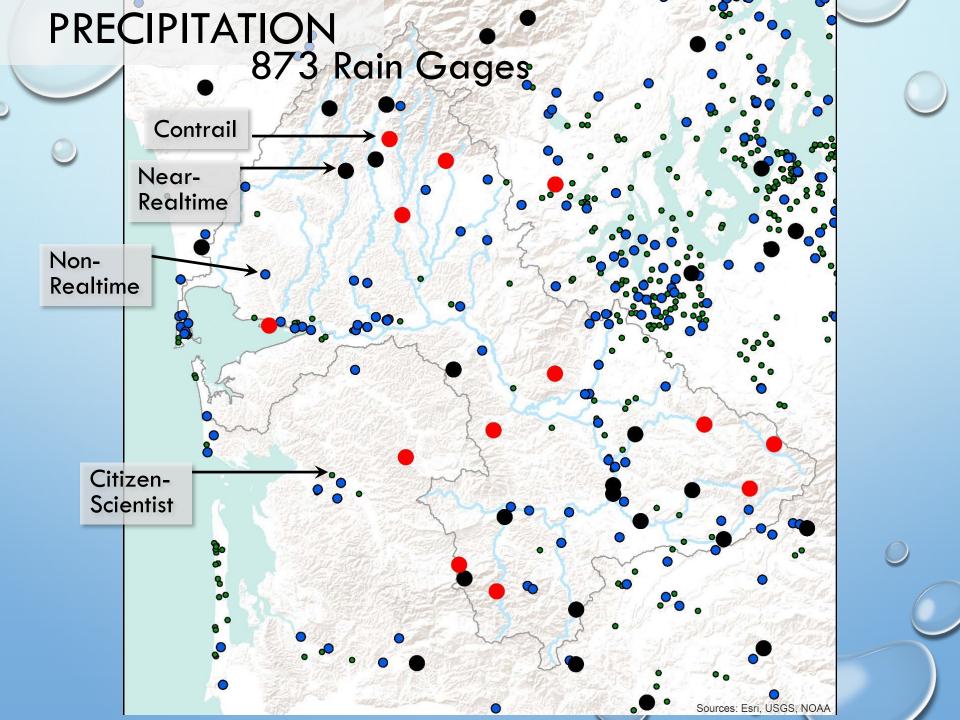


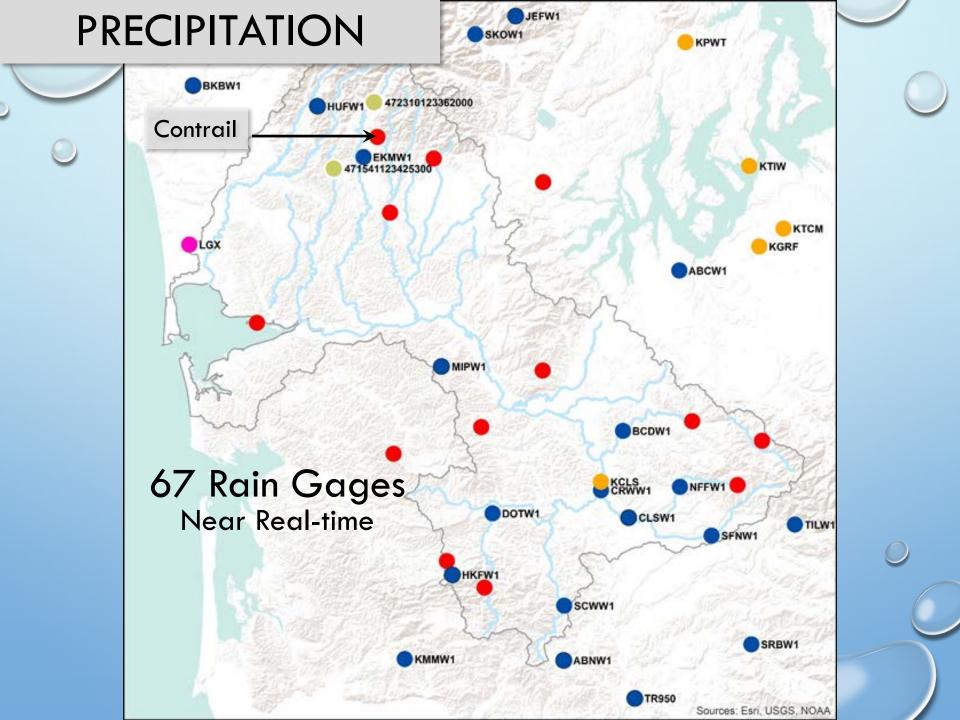
CHEHALIS RIVER AT CENTRALIA









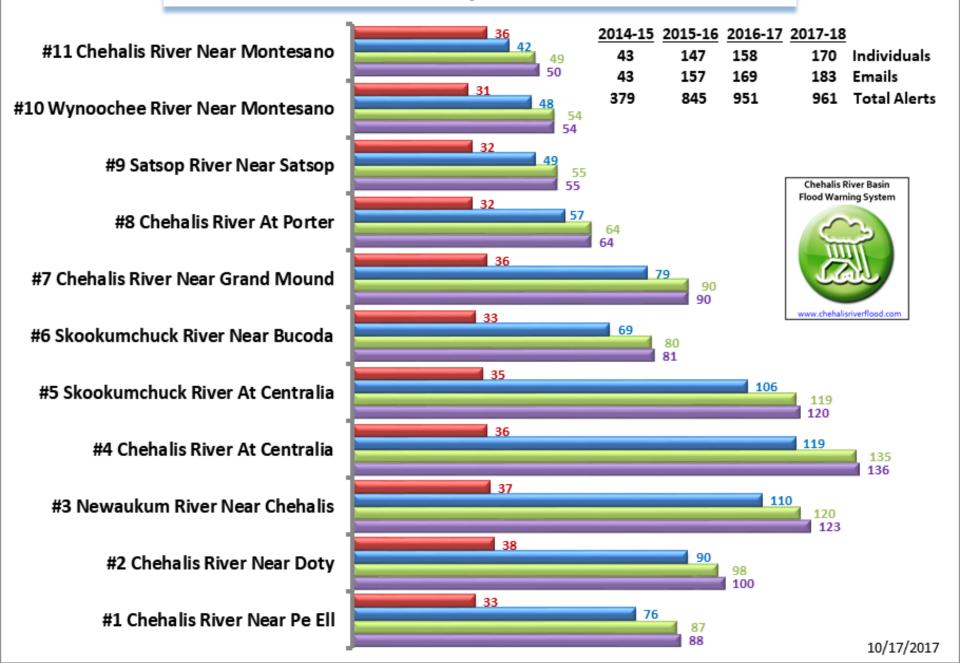




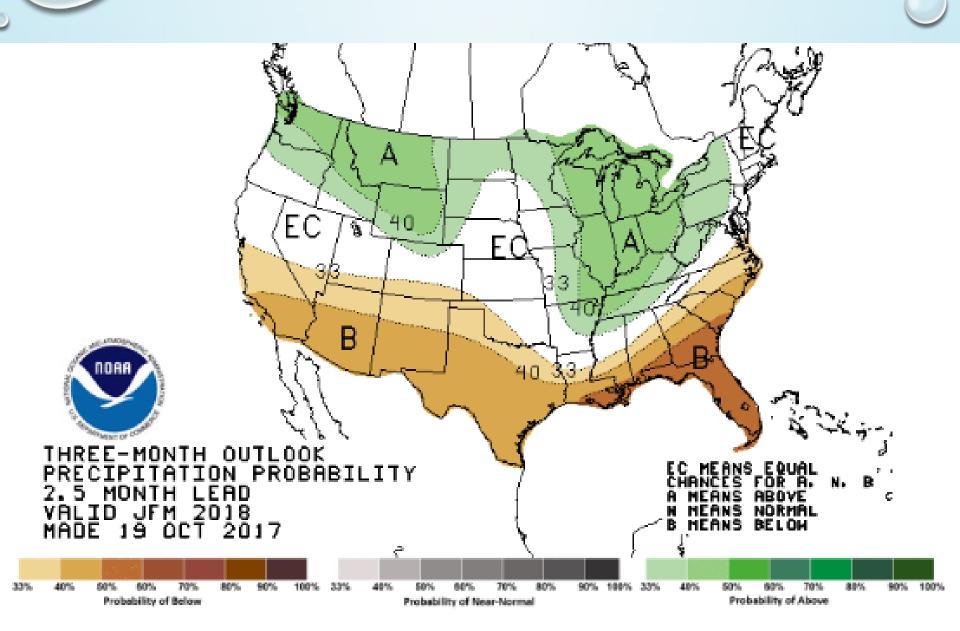
ENGAGEMENT

- NEW WEBSITE FEATURES
- HIGH WATER ALERTS
- WEBINAR
- PUBLIC OUTREACH (ESPECIALLY DATUM CHANGE)

Distribution of Requested Flood Alerts



JAN-FEB-MAR OUTLOOK







Chehalis River At Centralia (CENW1)

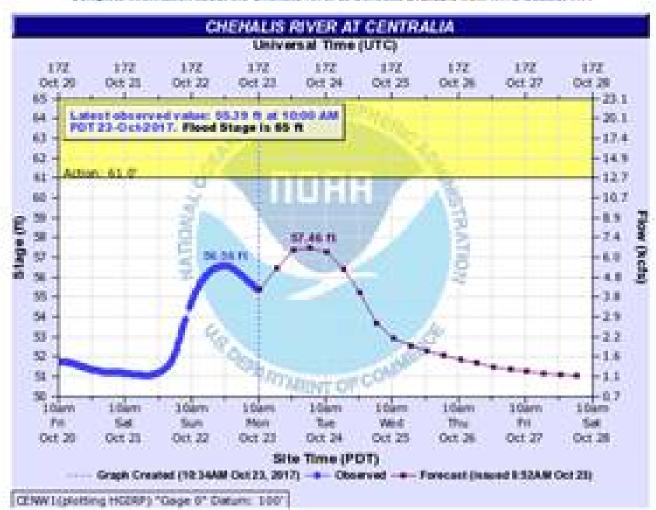
Return to Too.

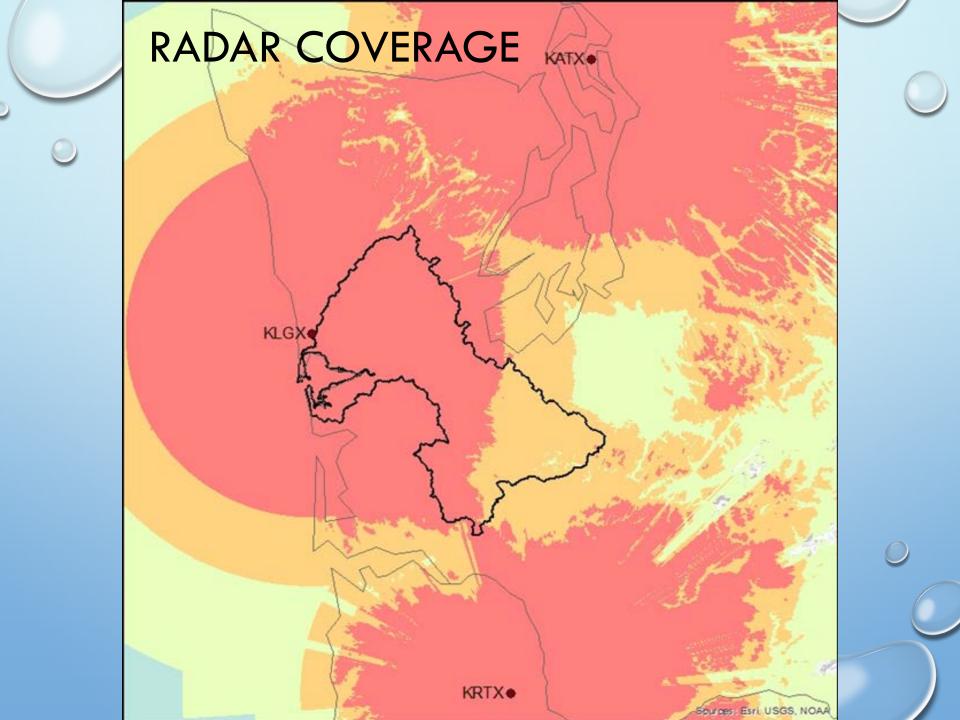
Flood Stage: 65 Feet | 1

Labort Stage: 55.39

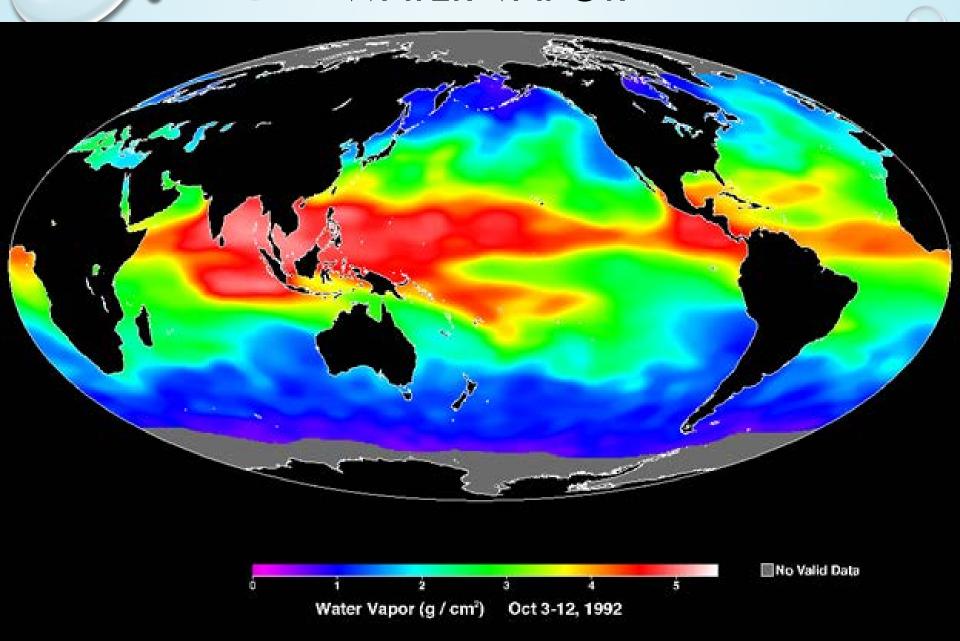
Current Warnings/Statements/Advisories: None currently.

Complete information about the Chehalis River at Centralia available from NWS Seattle, WA

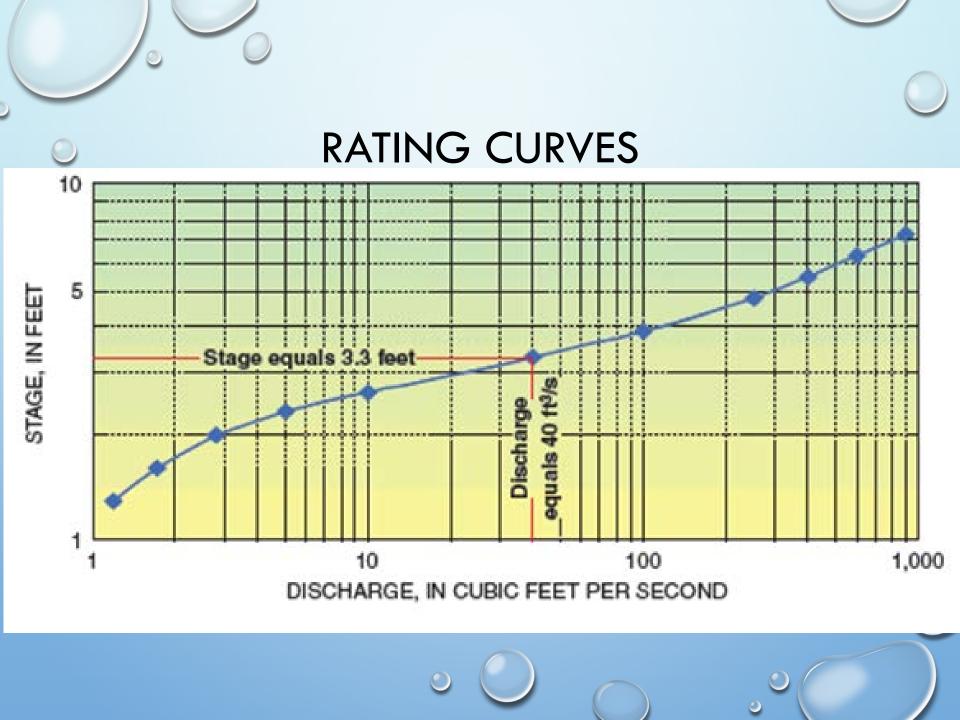


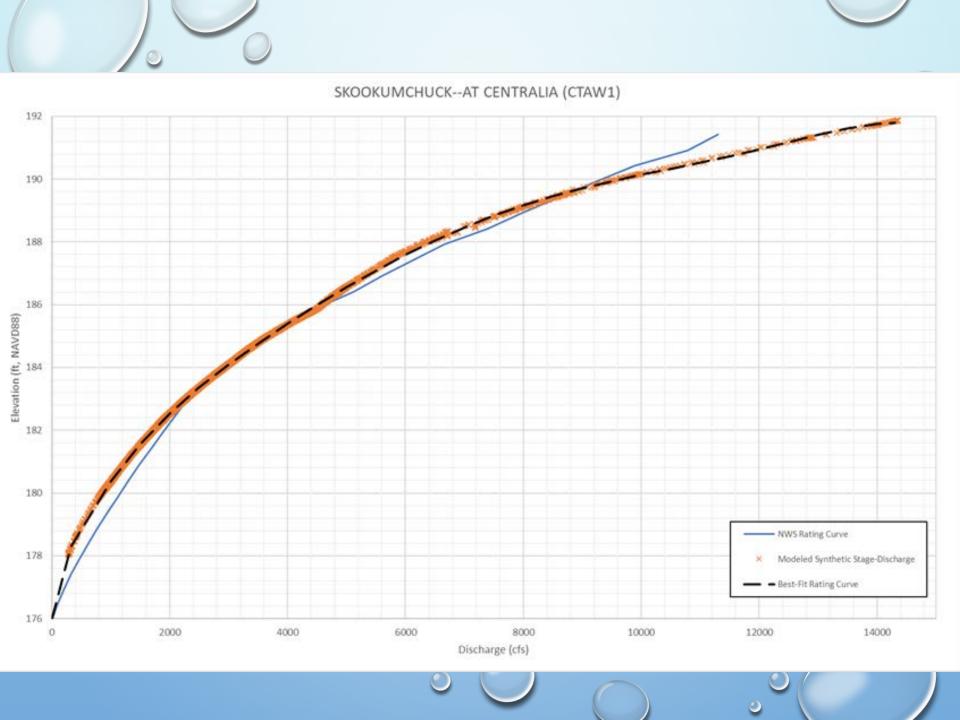


WATER VAPOR



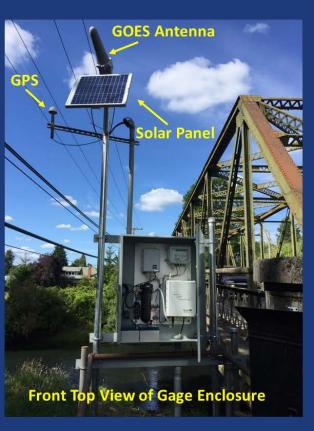








NWS GAGE UPGRADE – SKOOKUMCHUCK RIVER AT CENTRALIA, WA - 12026600









Identified Organizations and Counties Affected by Change				
National Weather Service				
United States Geological Survey				
Chehalis River Basin Flood Authority				
Washington State Department of Ecology				
Washington State Department of Transportation				
Federal Emergency Management Agency				
US Army Corps of Engineers				
Confederated Tribes of the Chehalis Reservation				
Quinault Indian Nation				
Lewis County				
Jefferson County				
Mason County				
Grays Harbor County				
Thurston County				
Cowlitz County				
Pacific County				

GAGE INVENTORY RECOMMENDATIONS

- ADD ADDITIONAL AVAILABLE HADS, USGS, AND METAR GAGES
- ADD WSDOE STREAM GAGES
- UPGRADE NWS STREAM GAGES
- SURVEY STREAM GAGES TO NAVD 88
- OUTREACH AND EDUCATION FOR DATUM CHANGE
- UPGRADE GOES DCS RADIOS
- ADD CITY OF ABERDEEN STREAM GAGE
- ADD NWS RIVER FORECASTS TO HIGH WATER ALERTS
- CONSIDER GAGE ADJUSTED RADAR RAINFALL DATA

I CHEHALIS RIVER AT CENTRALIA, WA (GOES) (D1501B1C)

00:00:00

00:00:00

00:00:00



00:00:00

00:00:00

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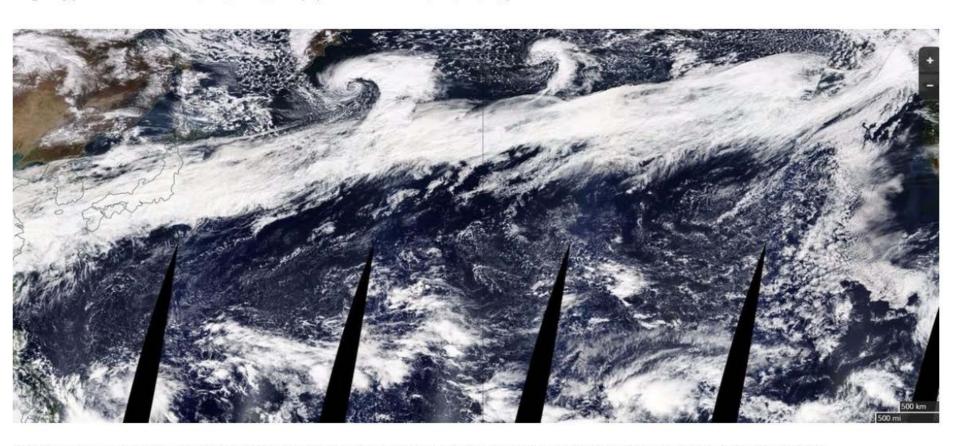


WHAT'S NEXT?

- OUTREACH
 - EMAILS TO HIGHWATER ALERT LIST
 - PROMOTE HIGHWATER ALERTS
 - UPDATE FREQUENTLY ASKED QUESTIONS HANDOUT
- WEBINAR (NOV 14TH)
- EMERGENCY PREPAREDNESS MEETING
- WINTER WEATHER OUTLOOK

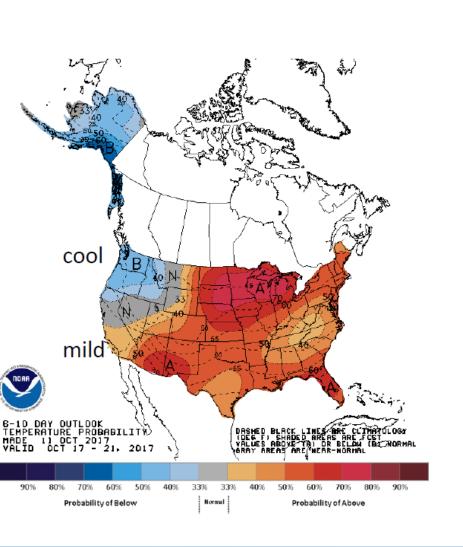
'The Big Dark': Satellite image shows future rain clouds stretching from China to Puget Sound

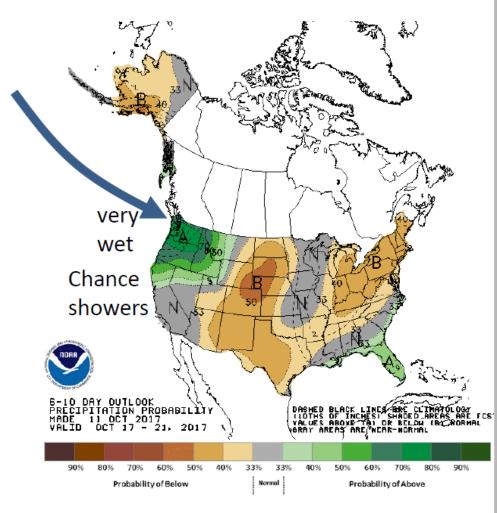
Originally published October 16, 2017 at 6:51 am | Updated October 16, 2017 at 4:24 pm



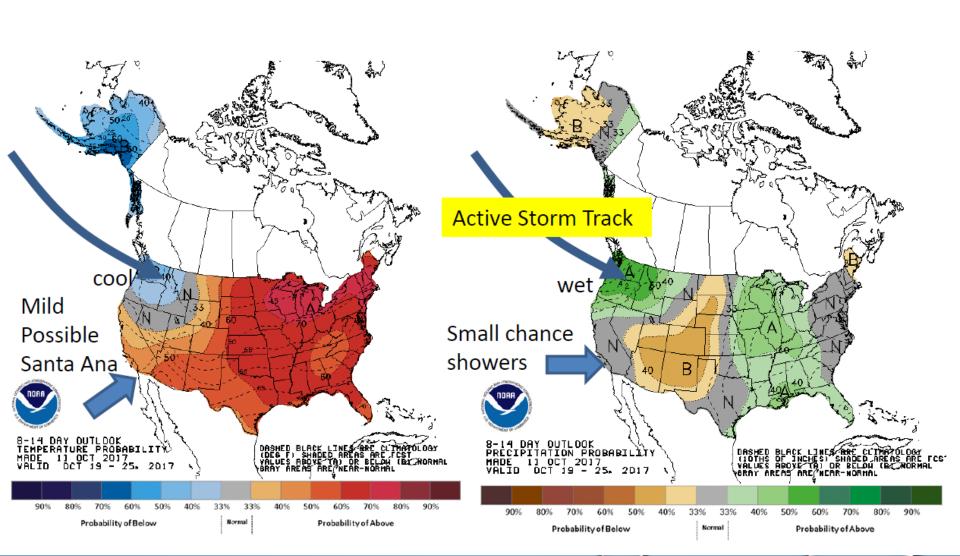
Satellite imagery shared by the National Weather Service shows clouds, full of moisture, stretching from China to British Columbia. (NASA)

Active storm track to the north October 17-21, 2017

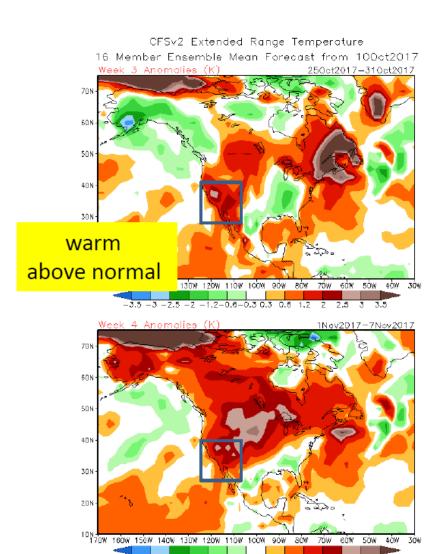




Storm Track to the north October 19-25, 2017

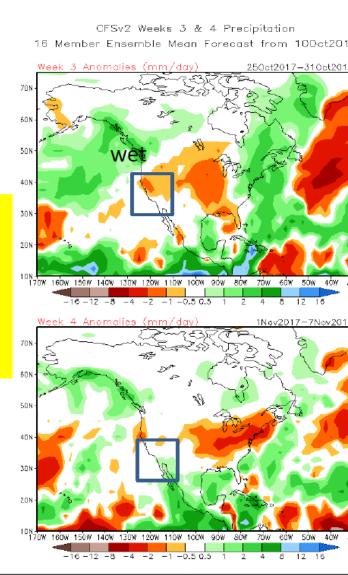


Late October through early November above normal temperatures



-3.5 -3 -2.5 -2 -1.2-0.6-0.3 0.3 0.6 1.2 2

Continued
wet PacNW
and only
chance of
showers in
Socal



December through February 2017-18

