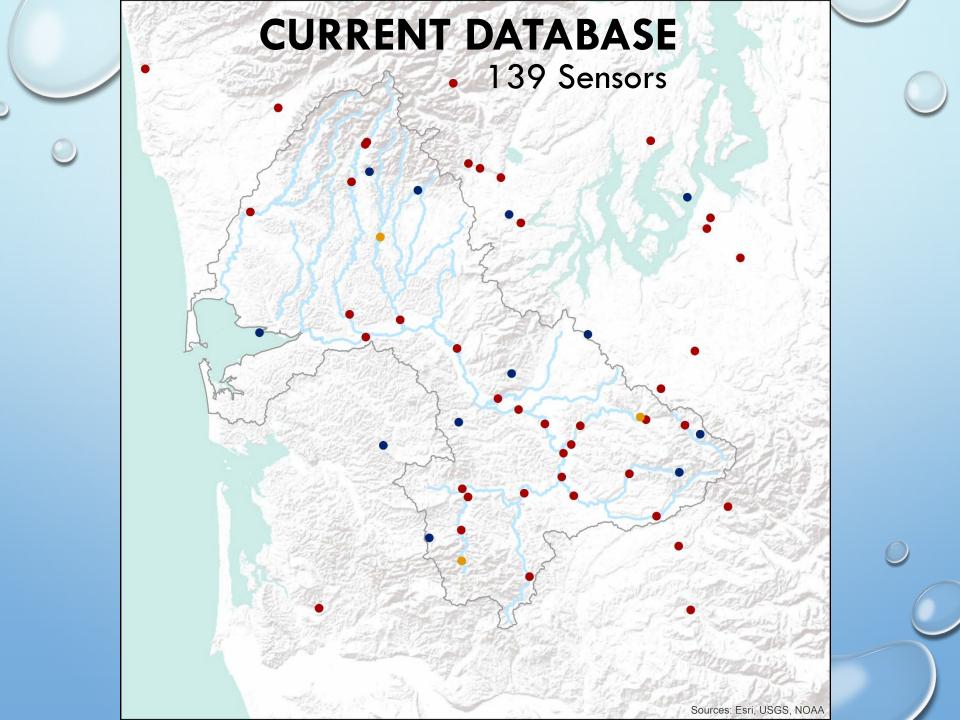
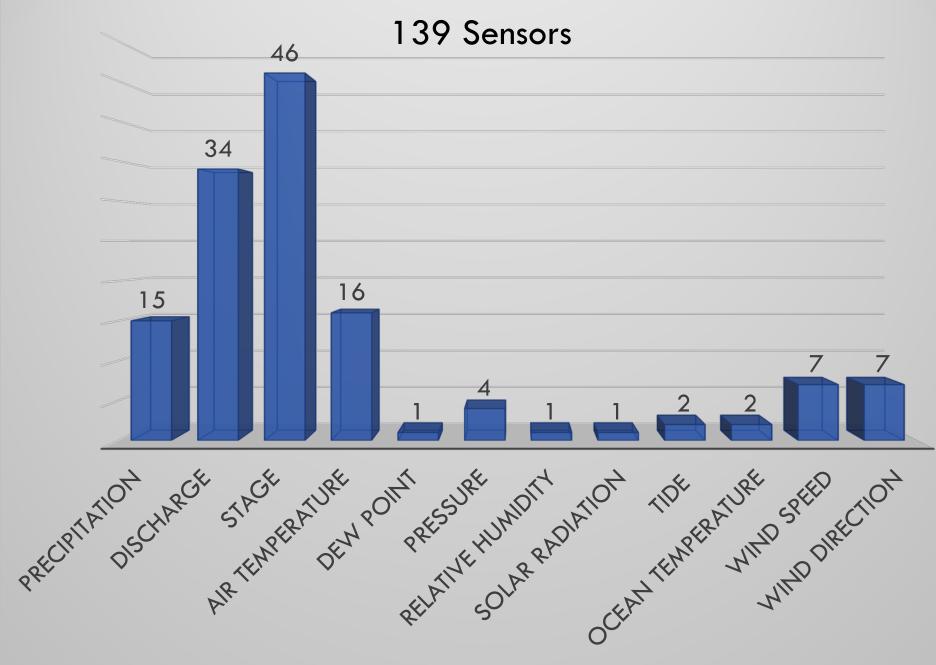
## CHEHALIS RIVER BASIN FLOOD WARNING SYSTEM UPDATE

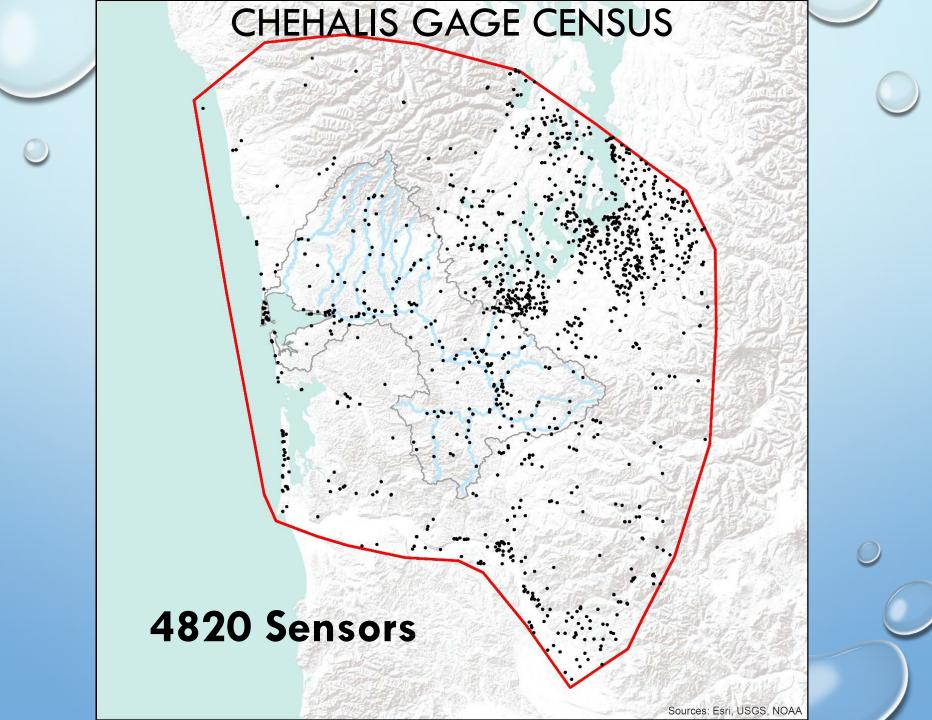
**WEST CONSULTANTS** 

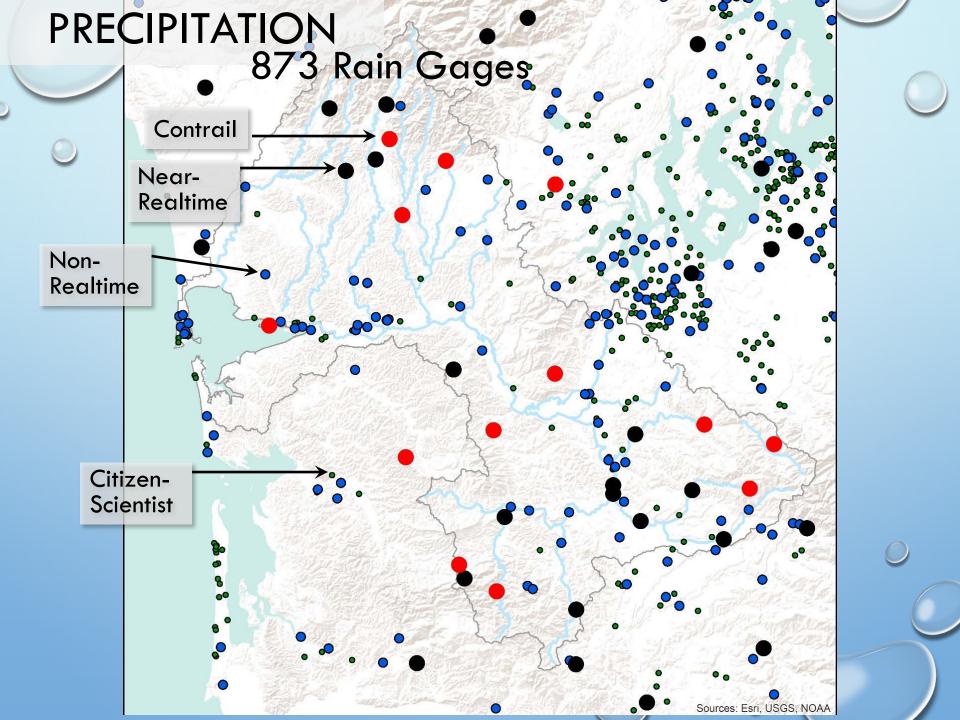
DAVID C. CURTIS, PH.D, F.EWRI

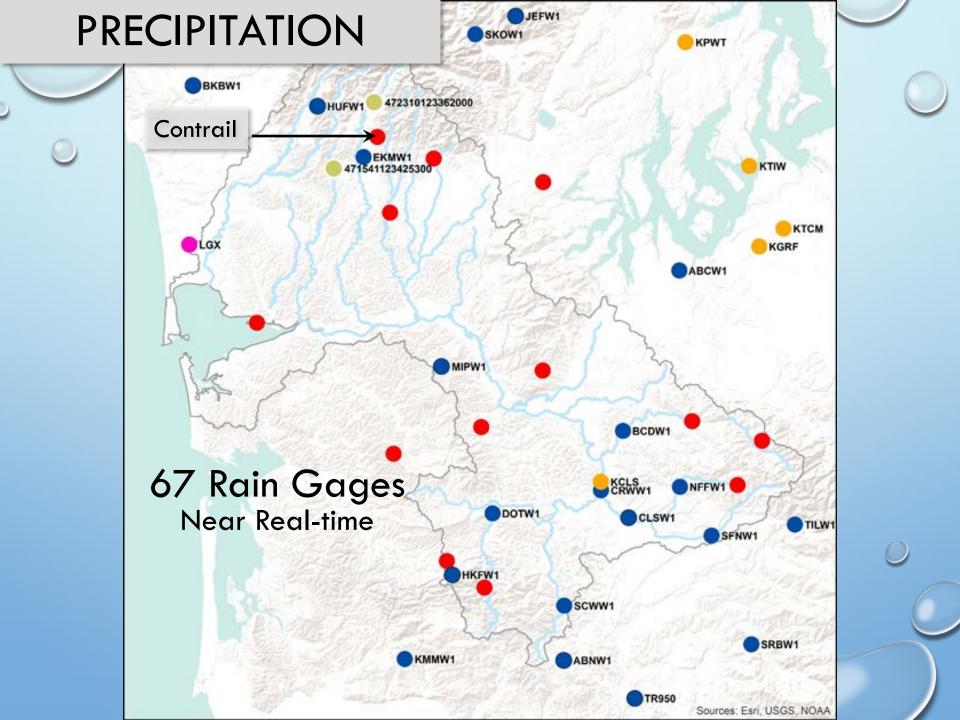


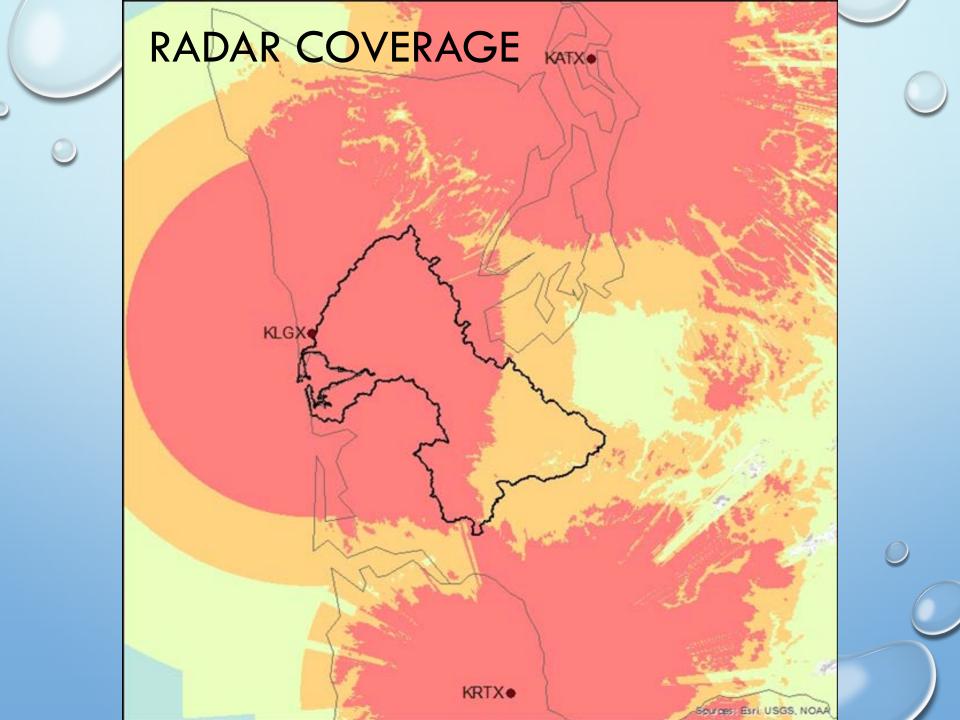
#### **Current Database**



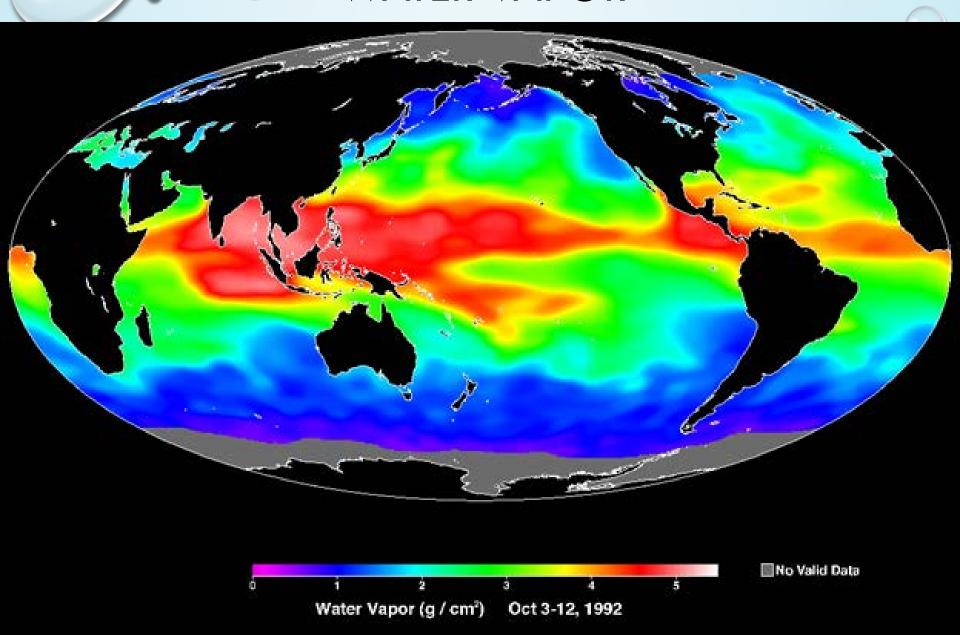




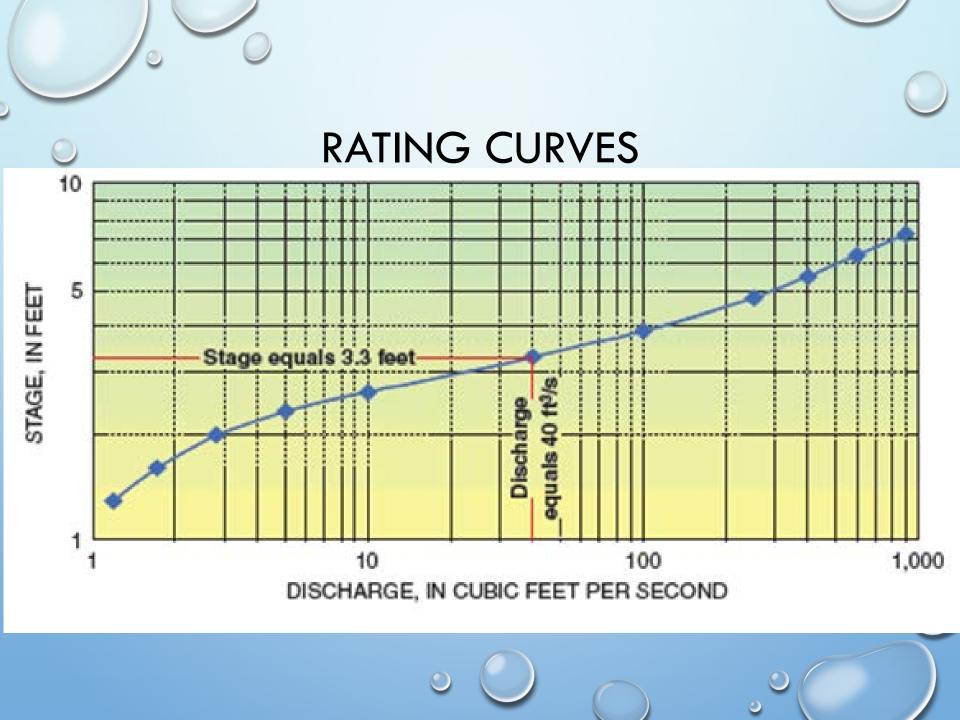




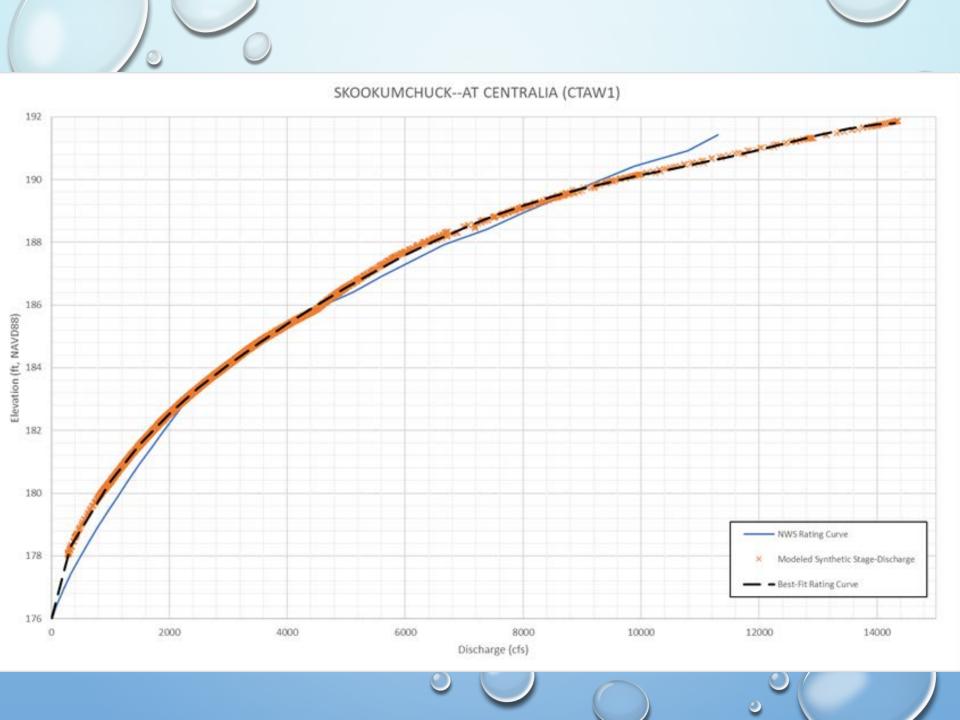
### WATER VAPOR







#### CHEHALIS--NEAR CENTRALIA (CENW1) Elevation (ft, NAVD88) NWS Rating Curve Modeled Synthetic Stage-Discharge - Best-Fit Rating Curve Discharge (cfs)





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







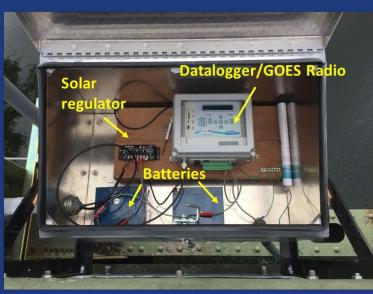


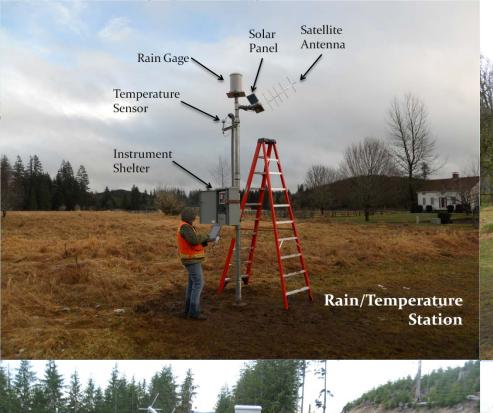


#### NWS GAGE UPGRADE - CHEHALIS RIVER AT CENTRALIA, WA - 12025500









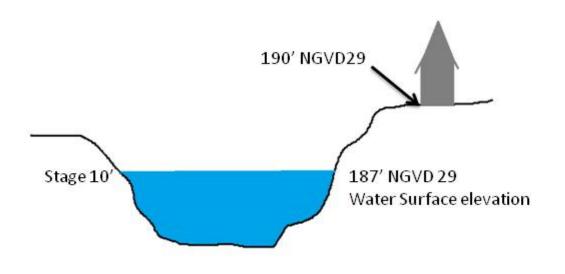


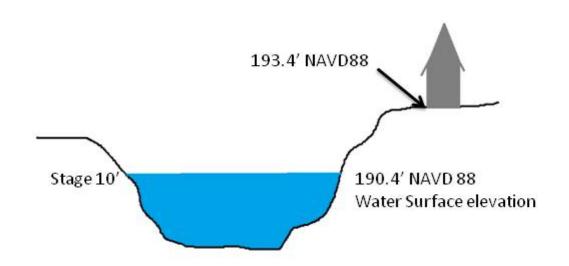
### UPGRADE GOES RADIOS





#### **GAGE DATUM**



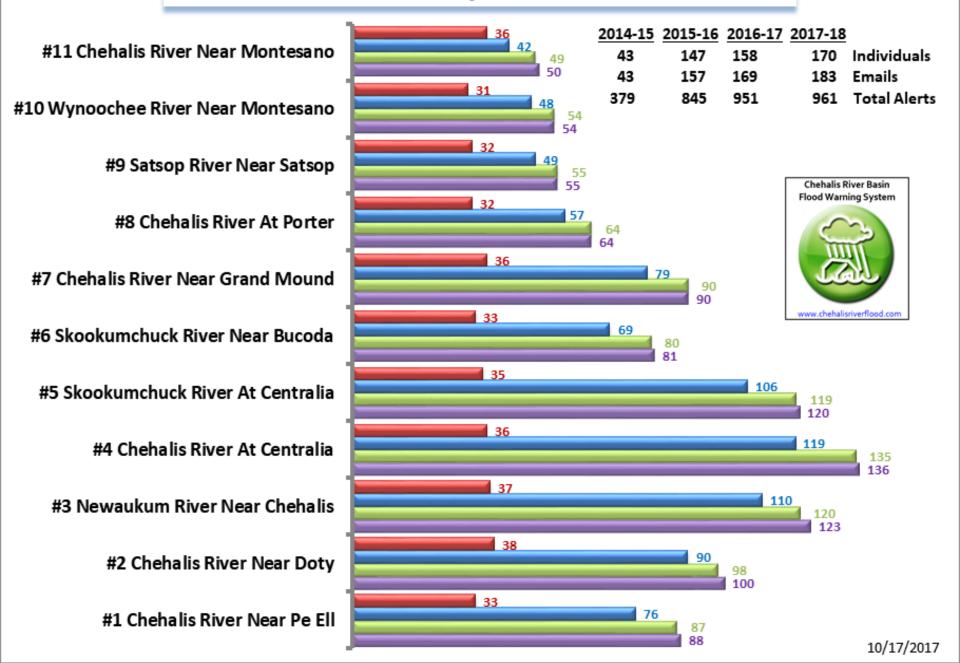


Identified Organizations and Counties Affected by Change
National Weather Service
United States Geological Survey
Chehalis River Basin Flood Authority
Washington State Department of Ecology
Washington State Department of Transportation
Federal Emergency Management Agency
US Army Corps of Engineers
Confederated 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**

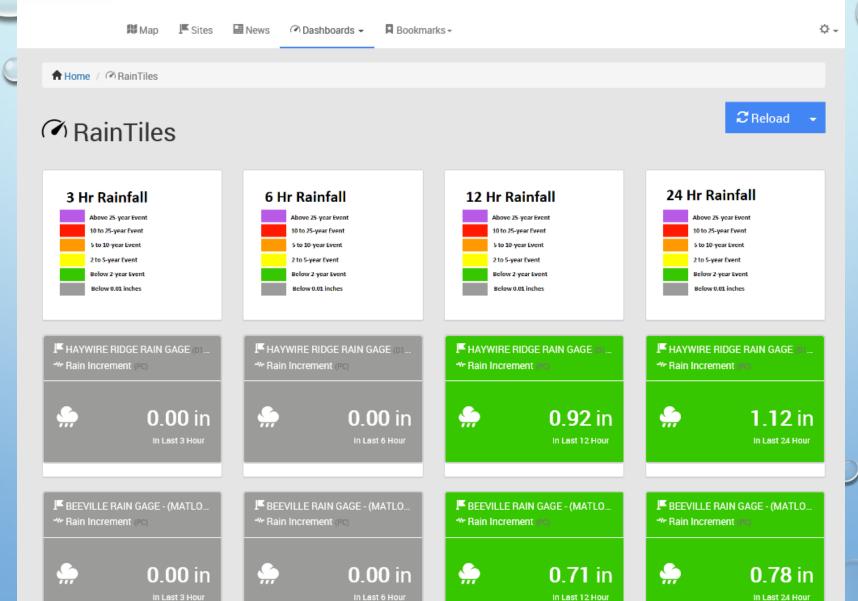
- ADD ADDITIONAL AVAILABLE HADS, USGS, AND METAR GAGES
- ADD WSDOE STREAM GAGES
- UPGRADE NWS STREAM GAGES
- SURVEY STREAM GAGES TO NAVD 88
- OUTREACH AND EDUCATION FOR DATUM CHANGE
- UPGRADE GOES DCS RADIOS
- ADD CITY OF ABERDEEN STREAM GAGE
- ADD NWS RIVER FORECASTS TO HIGH WATER ALERTS
- CONSIDER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

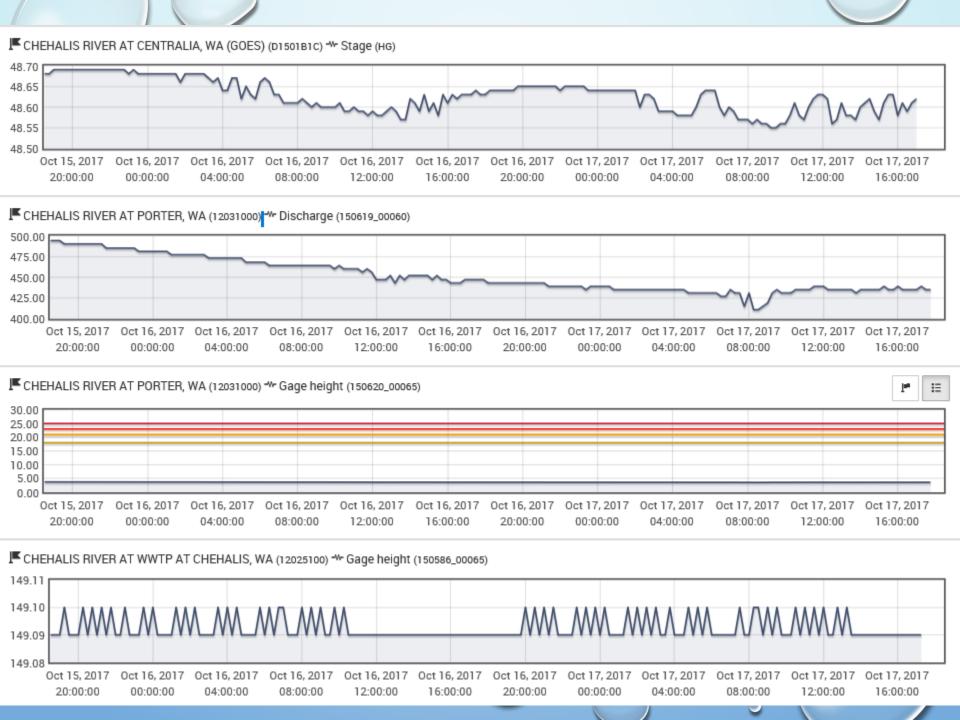
#### **Distribution of Requested Flood Alerts**





#### NEW FOR 2017-18





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

00:00:00

00:00:00

00:00:00



00:00:00

00:00:00

00:00:00

00:00:00

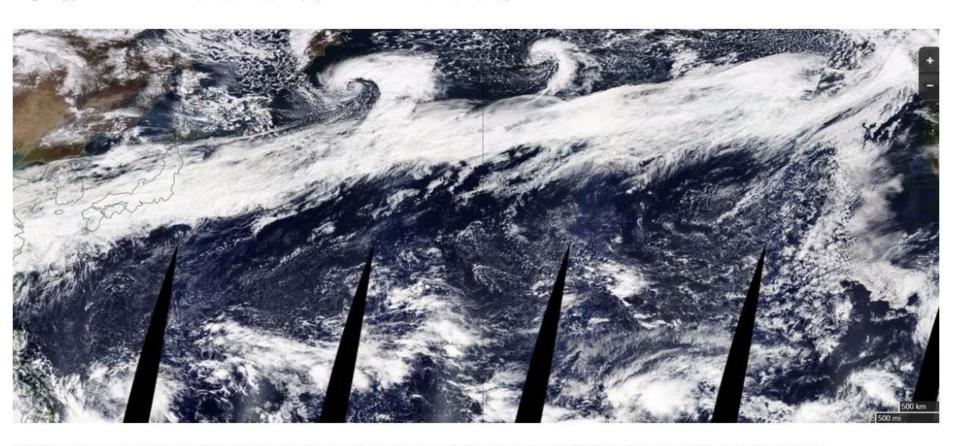


#### WHAT'S NEXT?

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

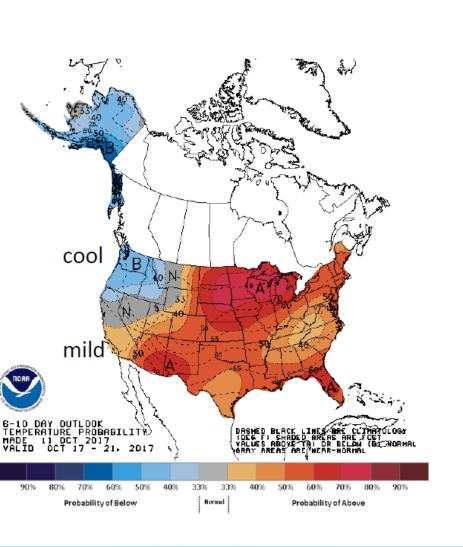
## 'The Big Dark': Satellite image shows future rain clouds stretching from China to Puget Sound

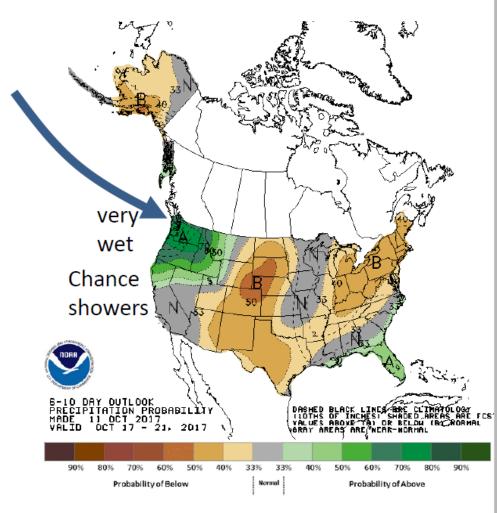
Originally published October 16, 2017 at 6:51 am | Updated October 16, 2017 at 4:24 pm



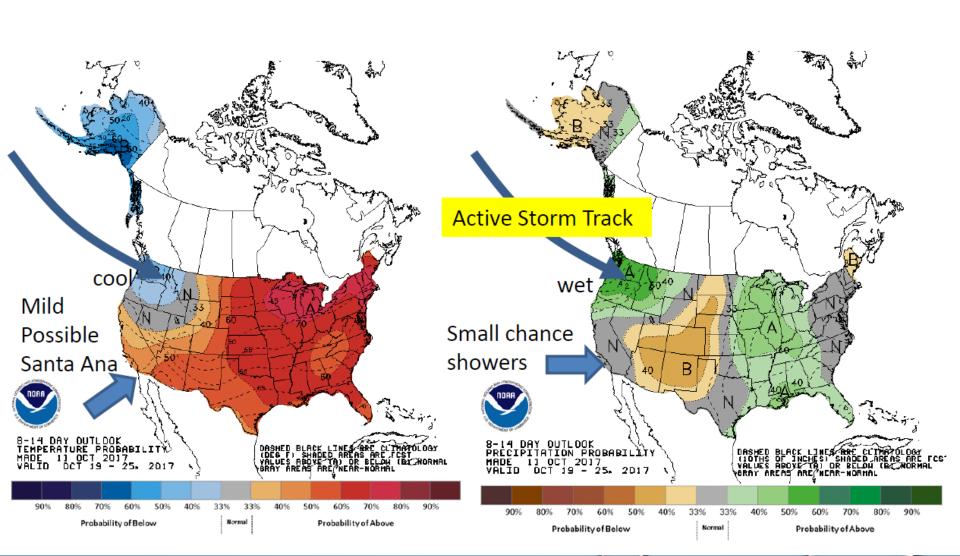
Satellite imagery shared by the National Weather Service shows clouds, full of moisture, stretching from China to British Columbia. (NASA)

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

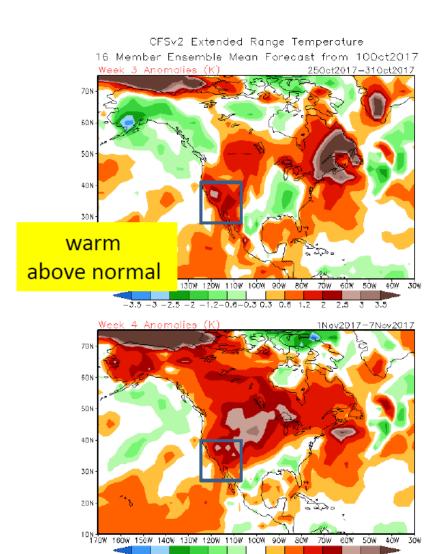




# Storm Track to the north October 19-25, 2017

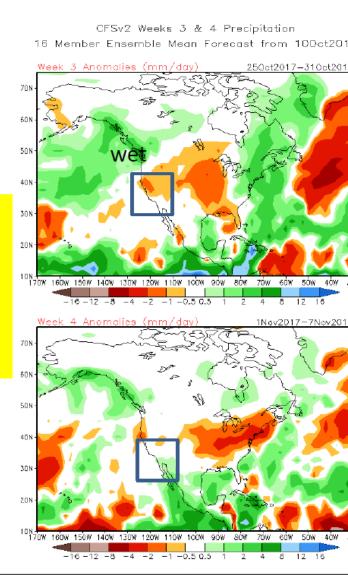


# Late October through early November above normal temperatures



-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

