

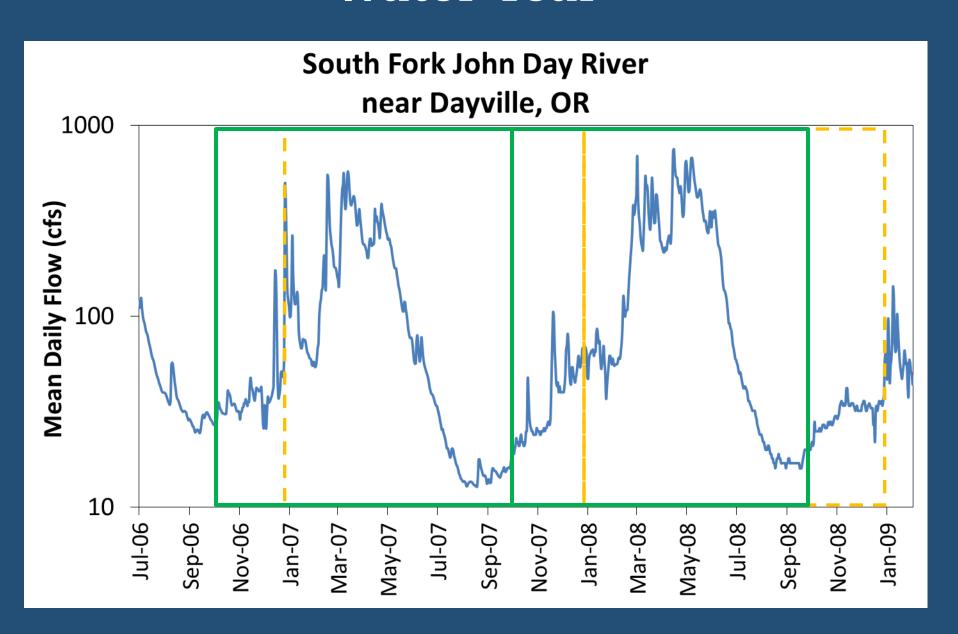
Ken Stahr,
Hydrographics
Section
Manager

Keith Mills, Acting State Engineer

Surface Water Supply Conditions and Drought Declaration Process

February 2014

Water Year

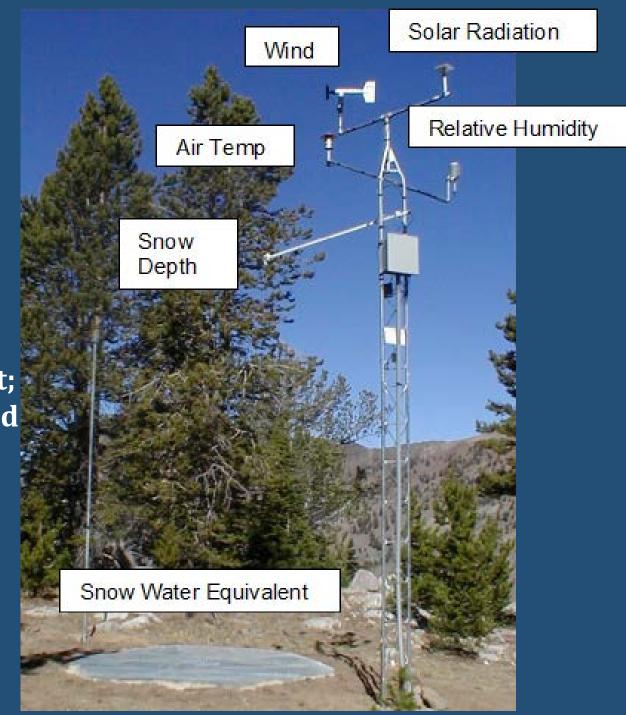


NRCS* Snow Telemetry (SNOTEL) Site

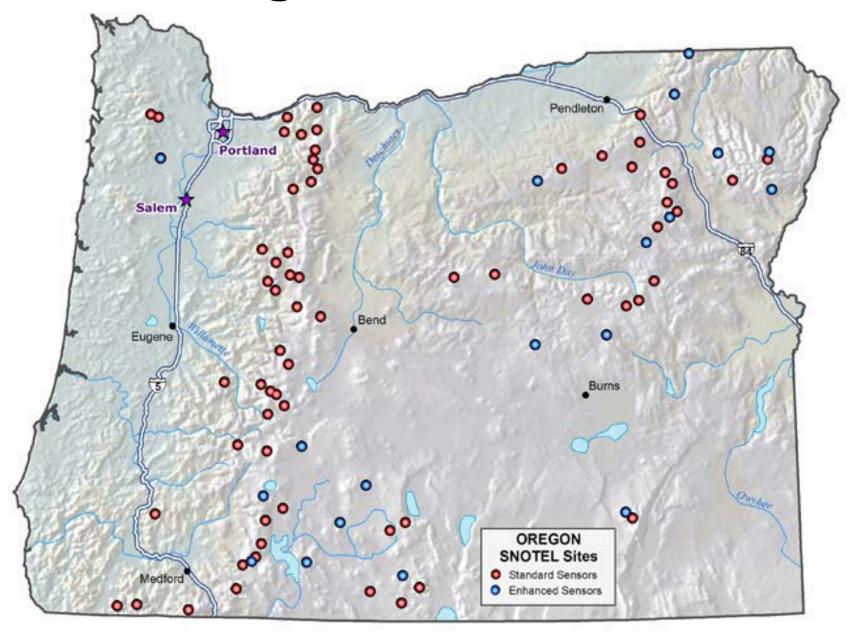
SWE:

Snow Water Equivalent; amount of water melted snow would produce

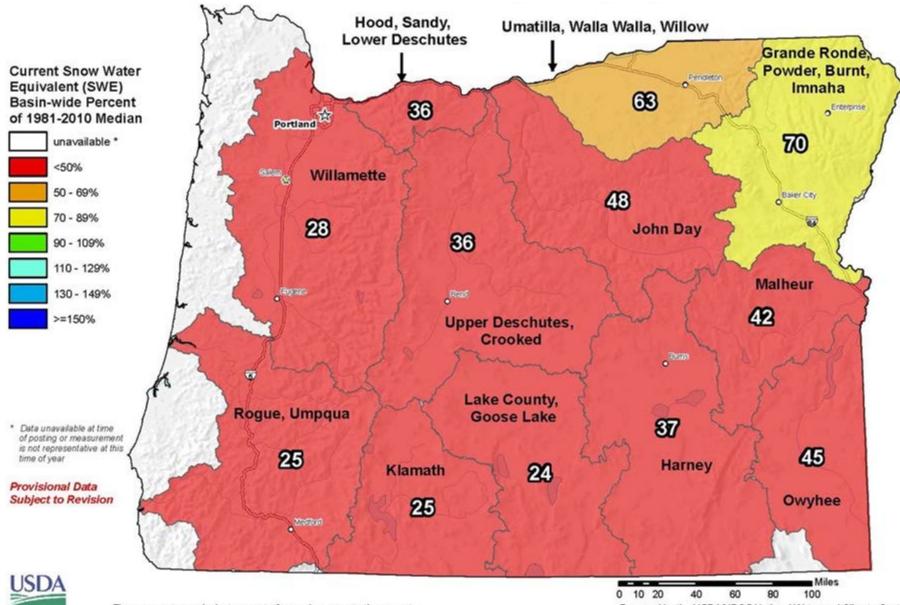
*NRCS - National Resource Conservation Service



Oregon SNOTEL Sites



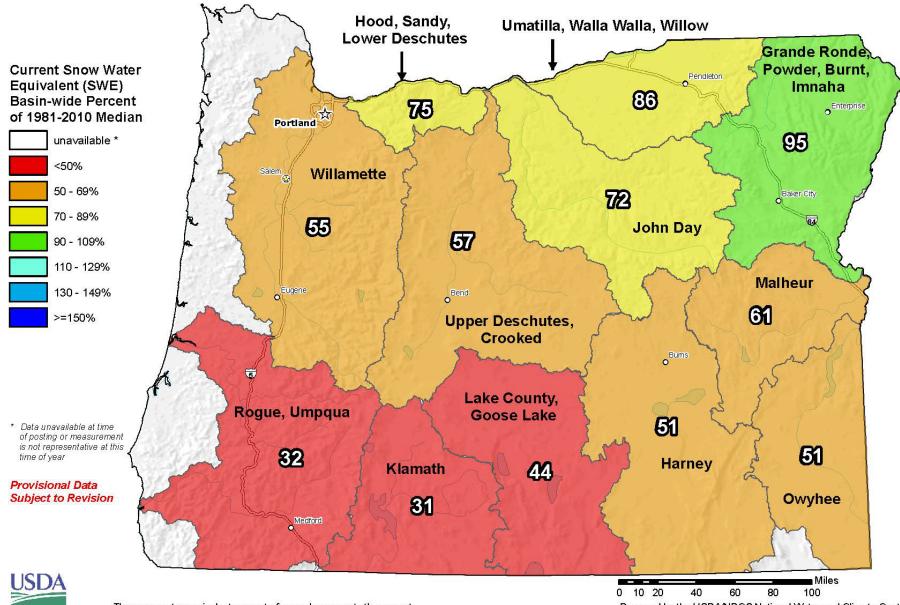
January 21, 2014 SNOTEL Snow Water Equivalent % Normal



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by the USDA/NRCS National Water and Climate Center Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/ Based on data from http://www.wcc.nrcs.usda.gov/reports/ Science contact: Jim.Marron@por.usda.gov 503 414 3047

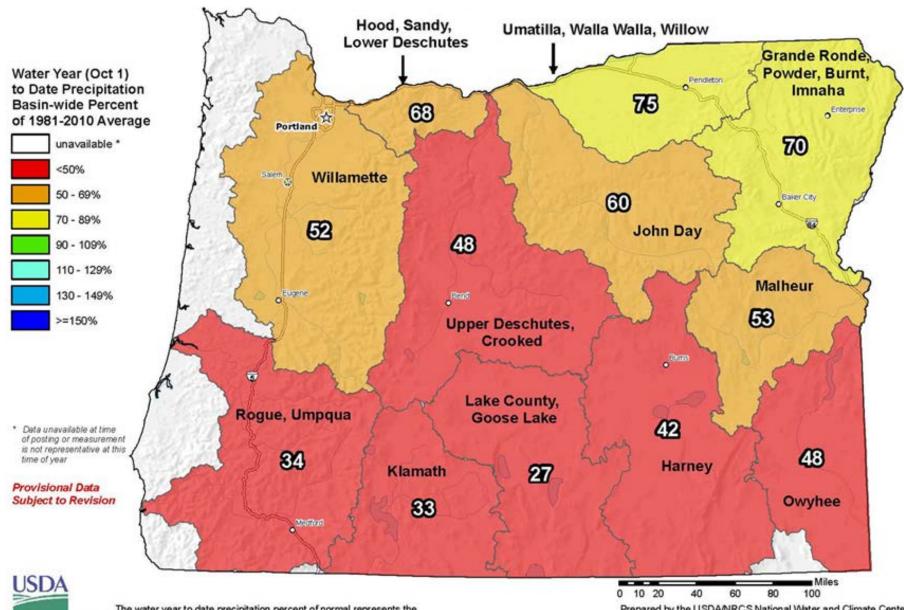
March 4, 2014 SNOTEL Snow Water Equivalent % Normal



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

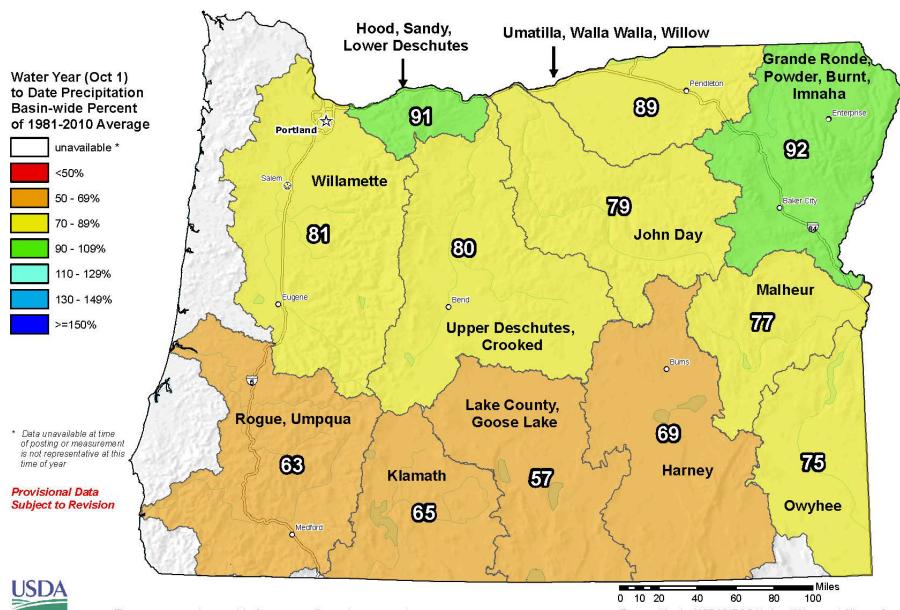
Prepared by the USDA/NRCS National Water and Climate Center Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/Based on data from http://www.wcc.nrcs.usda.gov/reports/Science contact: Jim.Marron@por.usda.gov 503 414 3047

January 21, 2014 Cumulative Precipitation, % Normal



The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00). Prepared by the USDANRCS National Water and Climate Center Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/ Based on data from http://www.wcc.nrcs.usda.gov/reports/ Science contact: Jim.Marron@por.usda.gov 503 414 3047

March 4, 2014 Cumulative Precipitation, % Normal



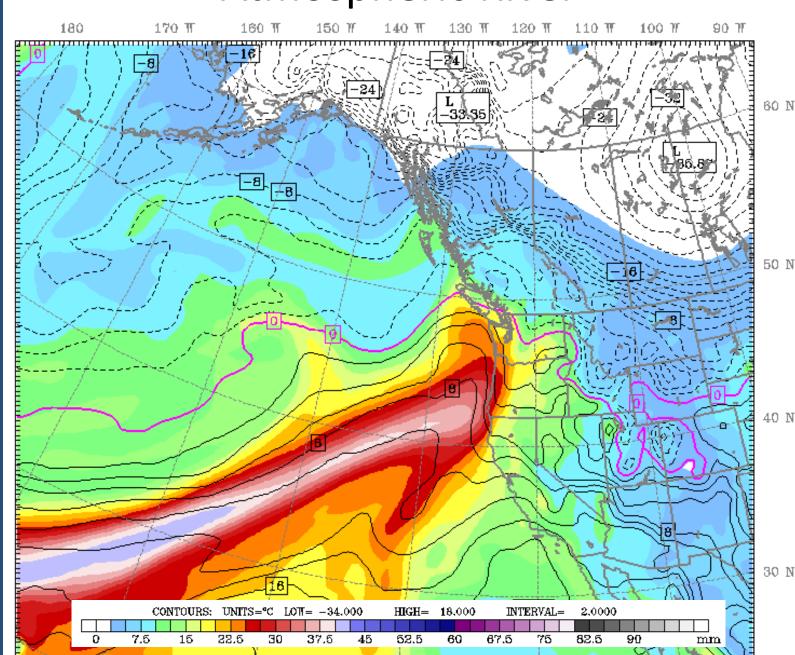
The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

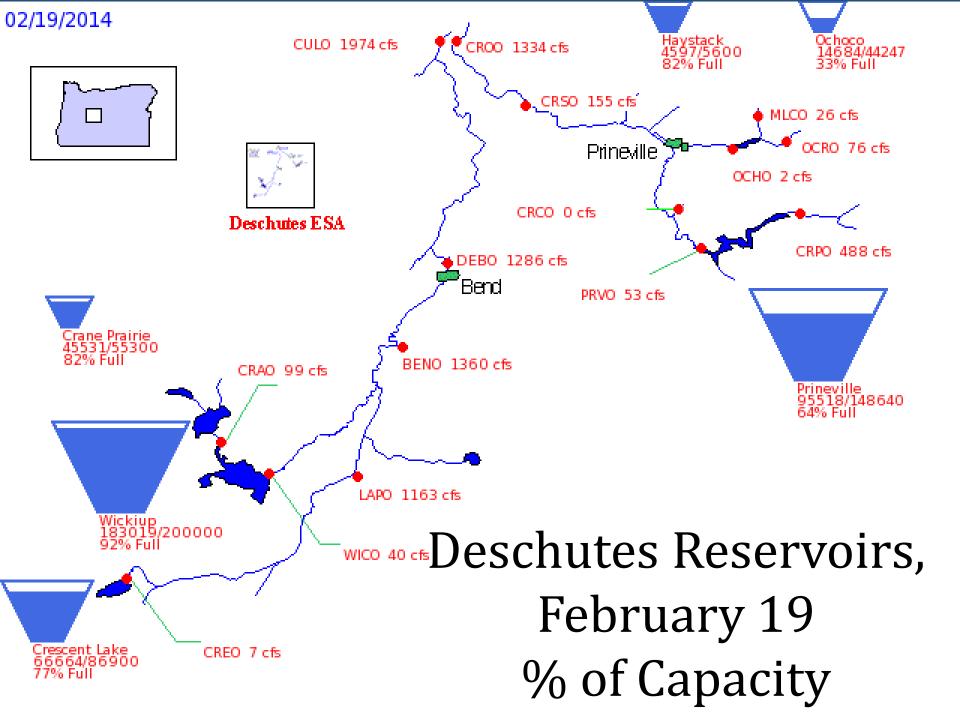
Prepared by the USDA/NRCS National Water and Climate Center Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/Based on data from http://www.wcc.nrcs.usda.gov/reports/Science contact: Jim.Marron@por.usda.gov 503 414 3047

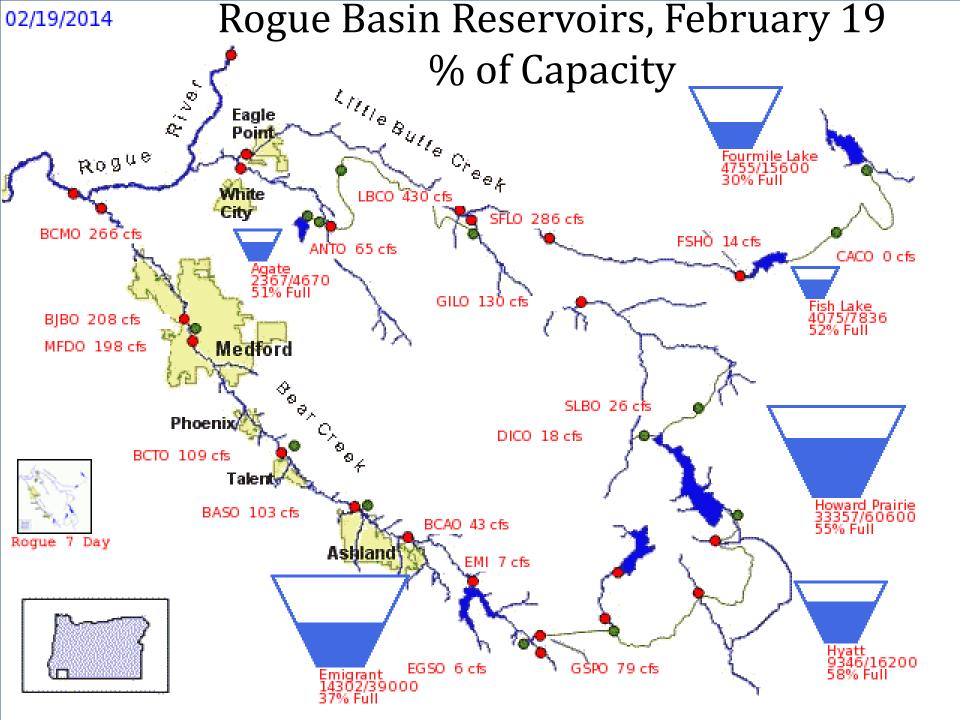
Atmospheric River

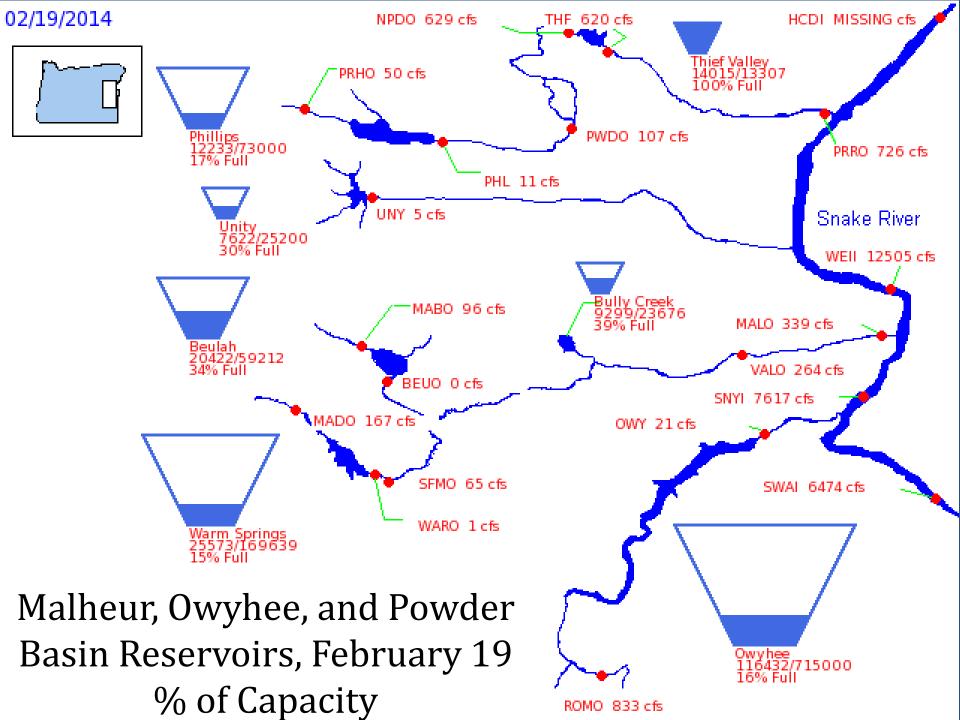
February 14th

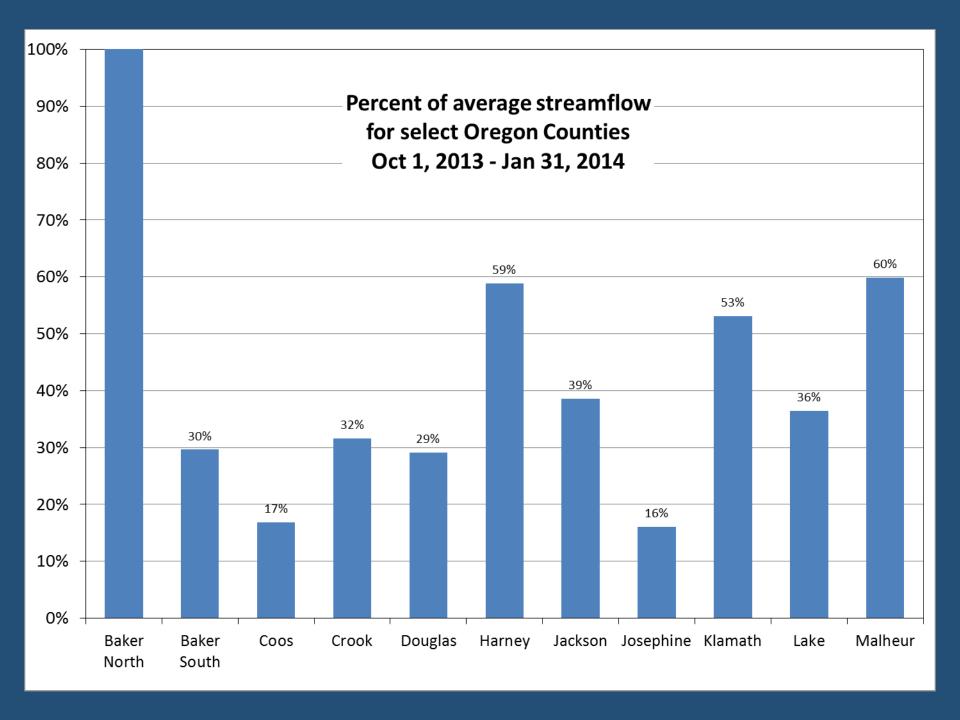
-Water vapor (mm; color): How much water can precipitate.

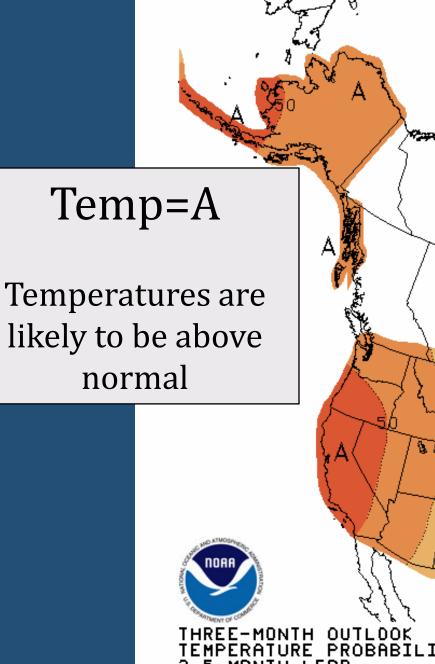


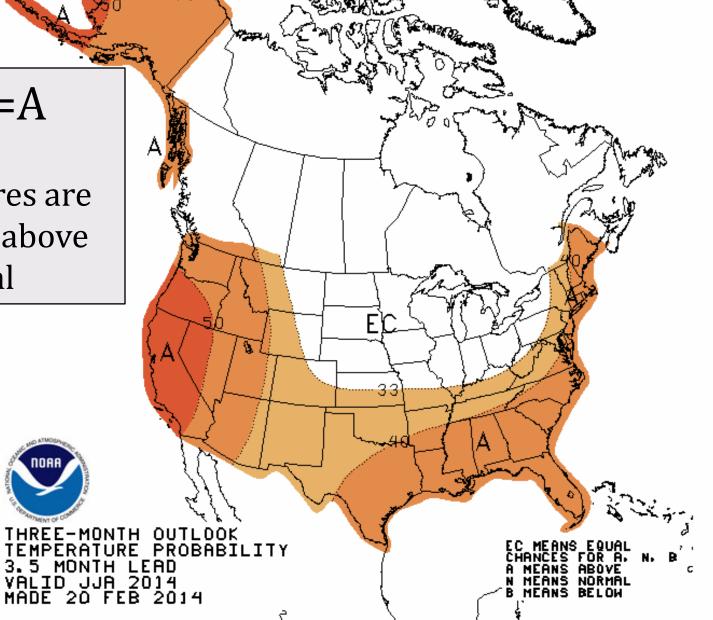






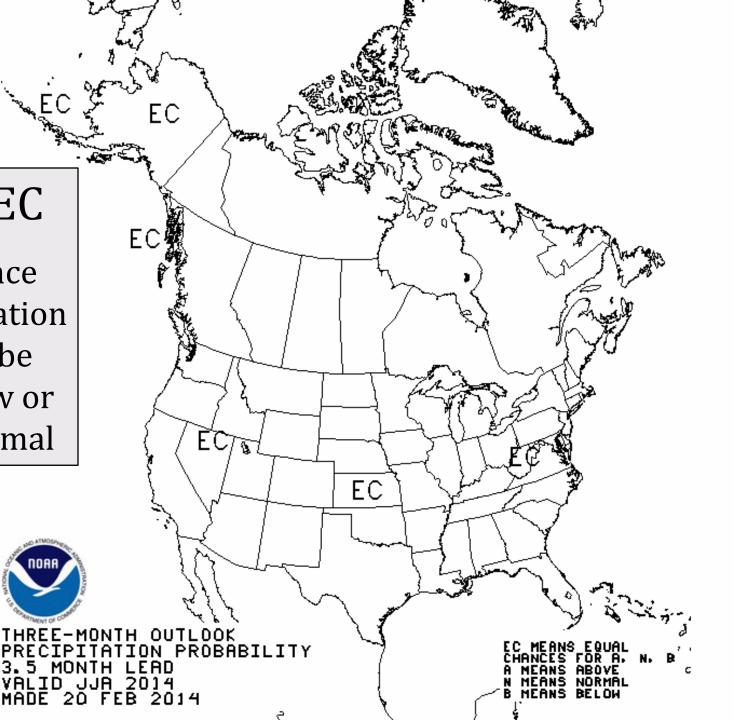








Equal Chance that precipitation levels will be above, below or equal to normal



February Forecast Summary

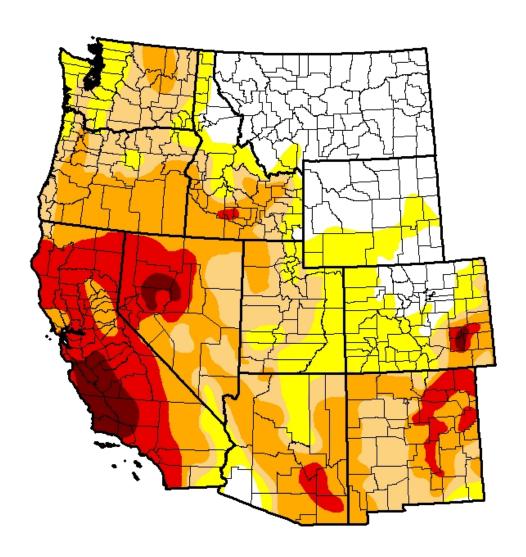
- Snowpack well below normal
- Record snowfall required for normal
- Streamflow well below normal in southern Oregon
- Near normal streamflows in the Willamette, Umatilla and Grande Ronde Basins

Regional Context

 The governor of California declared a drought emergency for the entire
 State on January 17, 2014

Current Drought Monitor

U.S. Drought Monitor
West



February 18, 2014

(Released Thursday, Feb. 20, 2014) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	21.76	78.24	59.88	40.17	14.89	2.58
Last Week 2/11/2014	17.62	82.38	64.47	41.04	13.94	1.94
3 Month's Ago 11/19/2013	27.36	72.64	53.20	32.23	7.56	0.63
Start of Calendar Year 1281/2013	22.20	77.80	51.44	31.11	7.75	0.63
Start of Water Year 10/1/2013	25.25	74.75	58.96	34.18	5.57	0.63
One Year Ago 2/19/2013	23.76	76.24	64.34	41.81	15.89	3.15

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

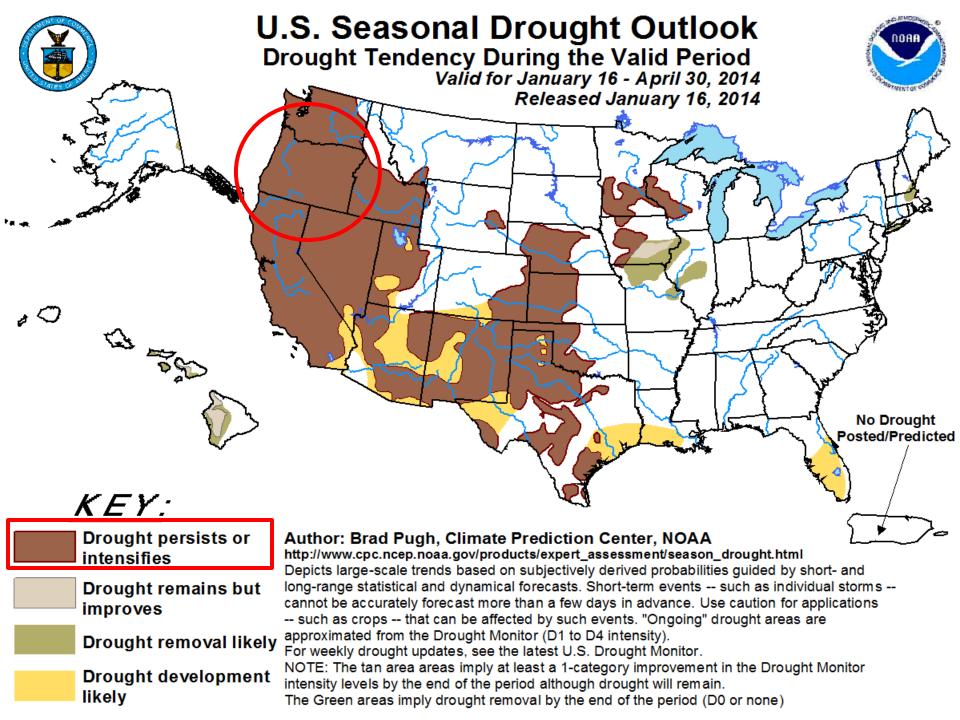
David Miskus NOAA/NWS/NCEP/CPC









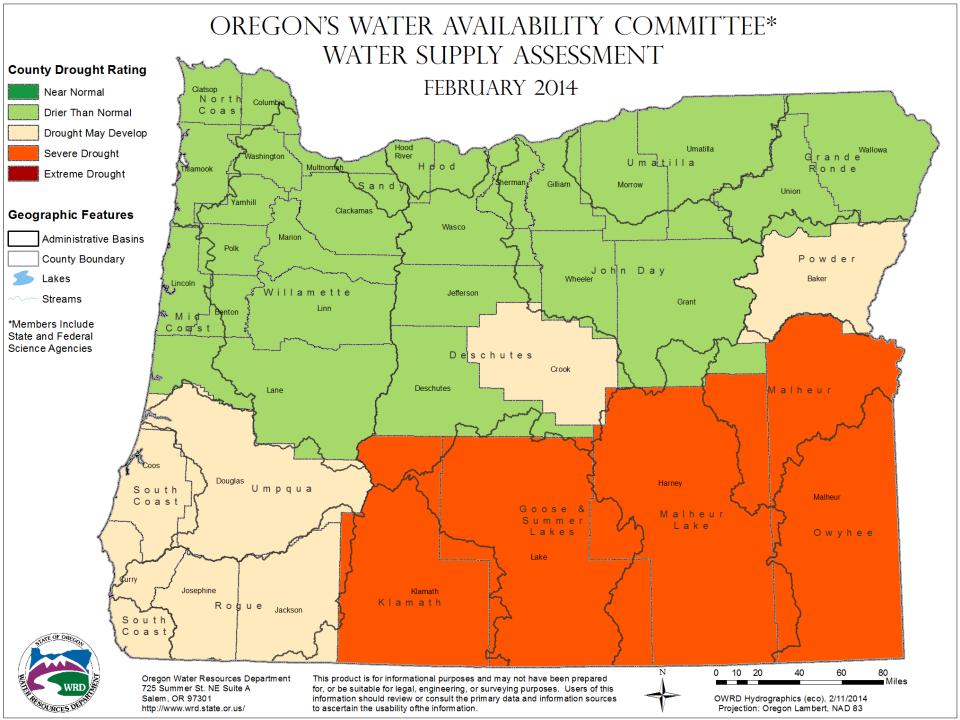


Drought Declaration Process

- Water Availability Committee
- Drought Council
- Governor's Declaration

Water Availability Committee

- Subcommittee of the Drought Council
- Representatives
 - NRCS Snow Survey
 - NWS River Forecast Center
 - NWS Warning Office
 - Oregon Climate Service
 - ODF
 - USGS
 - OWRD



Drought Declaration

Office of the Governor State of Oregon



EXECUTIVE ORDER NO. 14 - 01

DETERMINATION OF A STATE OF DROUGHT EMERGENCY IN HARNEY, KLAMATH, LAKE, AND MALHEUR COUNTIES DUE TO DROUGHT AND LOW WATER CONDITIONS

Pursuant to ORS 401.165 and ORS 536.740,1 find the continuing dry conditions, low snowpack, and lack of precipitation have caused natural and economic disaster conditions in the southeastern portion of the state. Projected forecasts are not expected to alleviate the severe drought conditions and the drought is having significant economic impacts on the affected counties' agricultural, livestock, and natural resources.

The dry conditions present hardships for these communities: Crops and agricultural and recreation investments are at risk; animals and plants that rely on Oregon's surface water supplies are threatened; and the risk of wildfires across the state is greatly increased. Current conditions are being monitored and analyzed by state agencies including the Department of Agriculture, the Department of Water Resources, and Oregon Office of Emergency Management.

A timely response to the severe drought conditions is vital to the safety of persons and property and economic security of the citizens and businesses of the affected Counties, I am therefore declaring a state of drought emergency in Harney, Klamath, Lake, and Malheur Counties and directing the following activities;

IT IS HEREBY ORDERED AND DIRECTED:

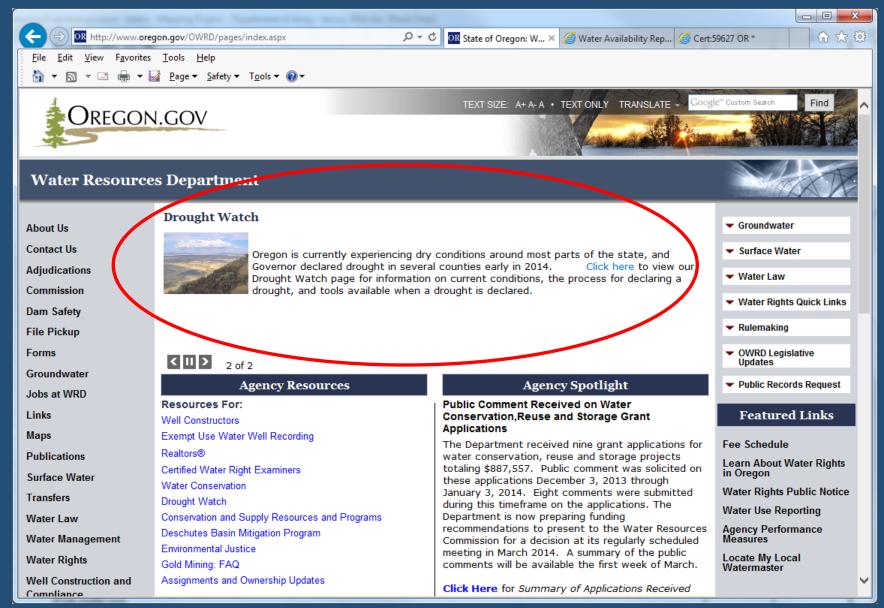
- I. The Oregon Department of Agriculture is directed to coordinate and provide assistance in seeking federal resources available to mitigate conditions and affect agricultural recovery in the affected counties.
- II. The Department of Water Resources is directed to coordinate and provide assistance and regulation for the affected counties as it determines is necessary in accordance with ORS 536.700 to 536.780.
- III. The Office of Emergency Management is directed to coordinate and assist as needed with assessment and mitigation activities to address current and projected conditions in the affected counties.

- First 2014
 Executive Order
- Four Southeast
 Oregon Counties
- ODA, OWRD and OEM direction

Next Steps

- March 10, 2014 WAC meeting
 - -Crook County declaration
- Conditions somewhat improved
- Monthly WAC meetings through at least June

OWRD Drought Watch Home Page



OWRD Drought Response Tools

- Preference of water rights use for human or livestock consumption
- Temporary supplemental groundwater right
- Temporary emergency permits, transfers and in-stream leases
- Special option agreements
- Temporary exchange of water source

Action Item

Preference to human and livestock use for Klamath County

Four Alternatives

- 1. Adopt draft temporary rules (Attachment 5)
- 2. Hold teleconference meeting in April
- 3. Find temporary rules are not needed
- 4. Direct staff to explore other options

Recommendation

The Director Recommends alternative 1; Adopt draft temporary rules OAR 690, Division 22