



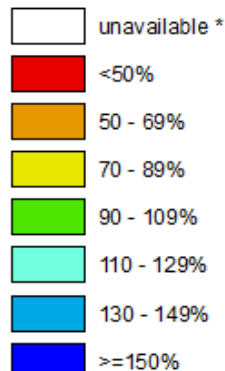
Statewide SNOTEL Precipitation is 85% of normal

Oregon SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal

Sep 11, 2018

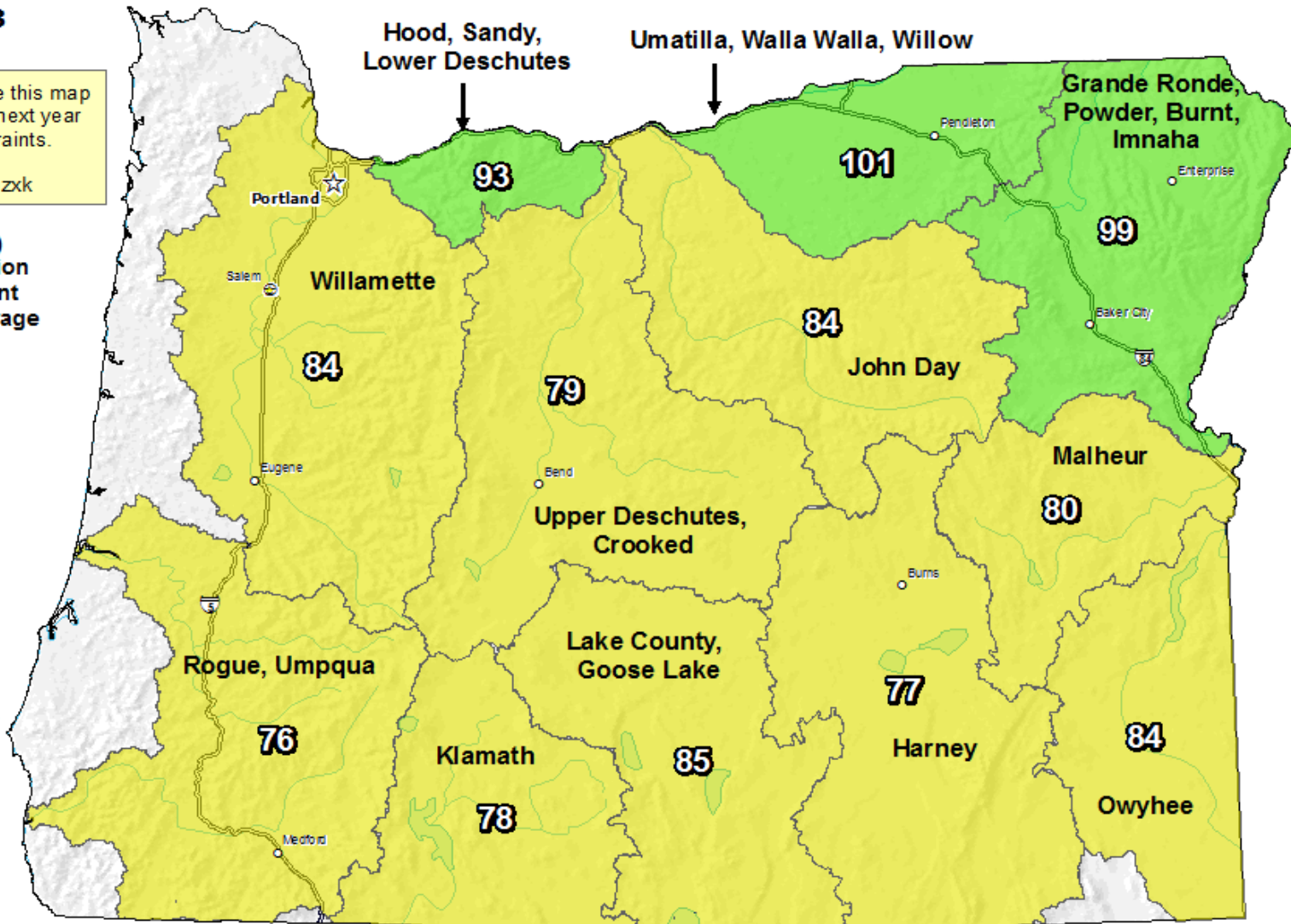
Notice: We anticipate this map will not be available next year due to staffing constraints. Alternate maps: <https://go.usa.gov/xnzxk>

Water Year (Oct 1) to Date Precipitation Basin-wide Percent of 1981-2010 Average

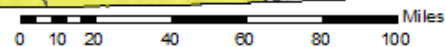


* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional Data
Subject to Revision



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:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

SNOTEL Precipitation last 102 days June 1, 2018 – September 11, 2018

Selected Stations: 208

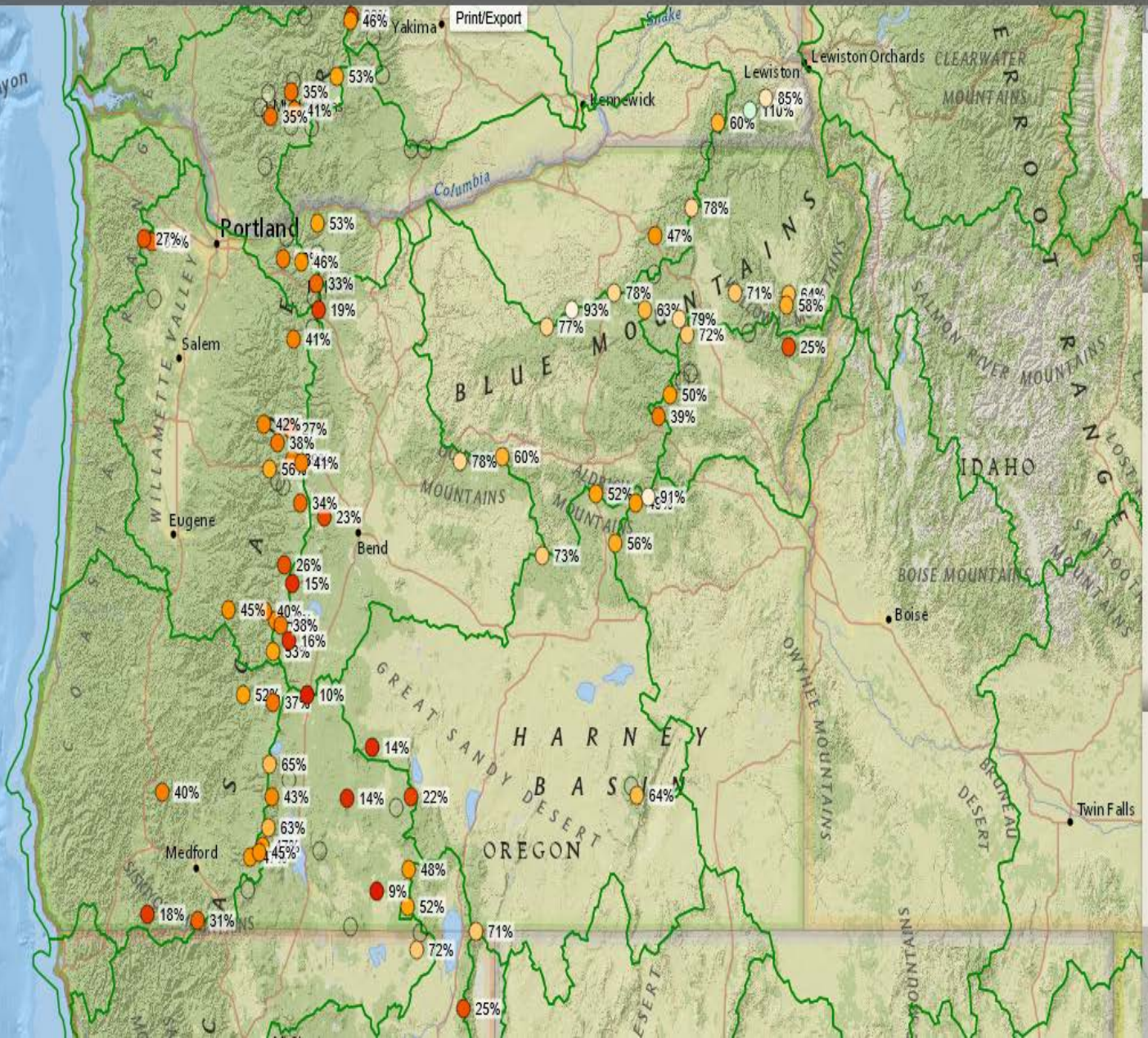
+
-
Thompson Seamount

102 day Precipitation
Percent NRCS 1981-2010
Average
June 1, 2018 through
September 10, 2018

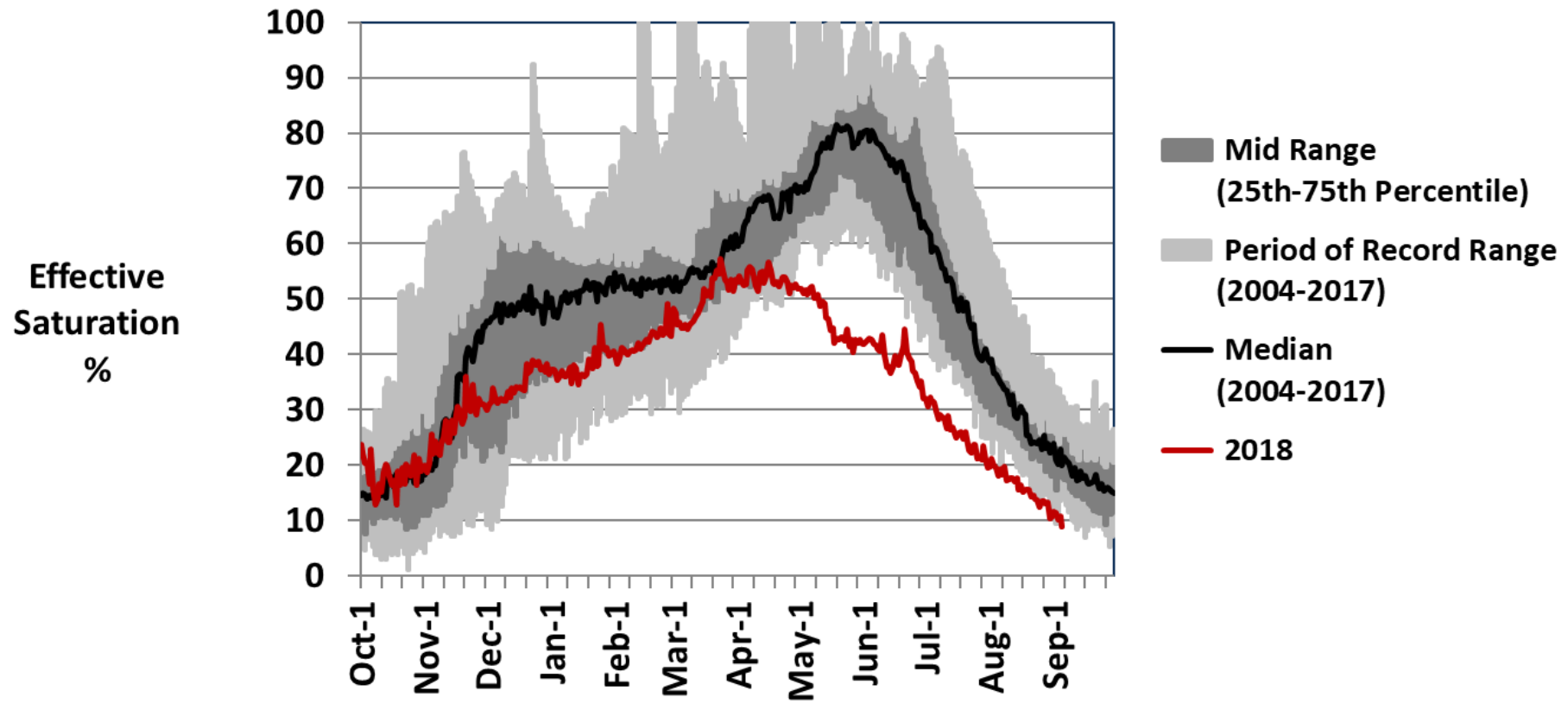
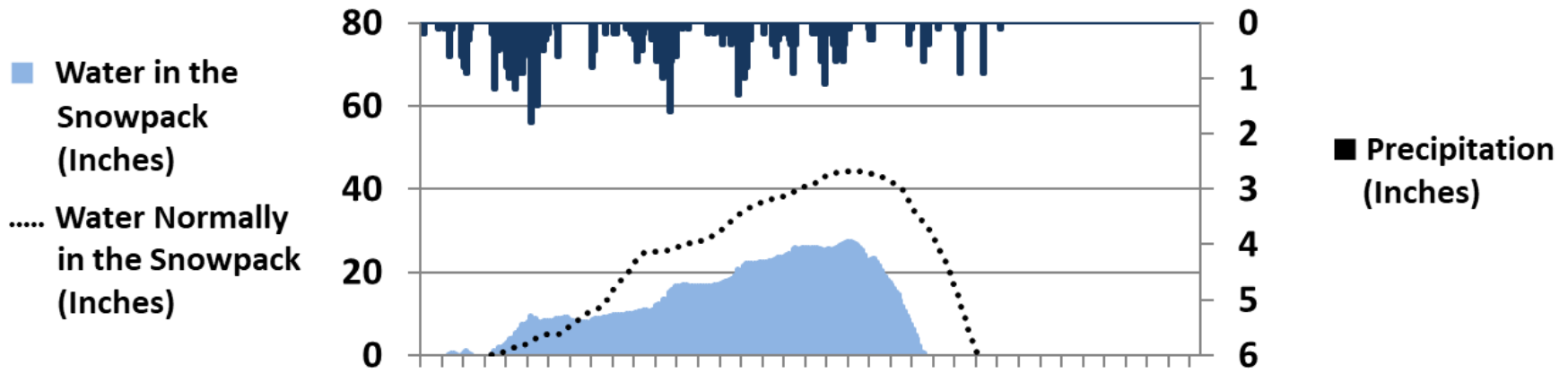
Watershed Boundaries
— Basin (6-Digit HUC)

Created 9-11-2018, 06:55 AM PDT

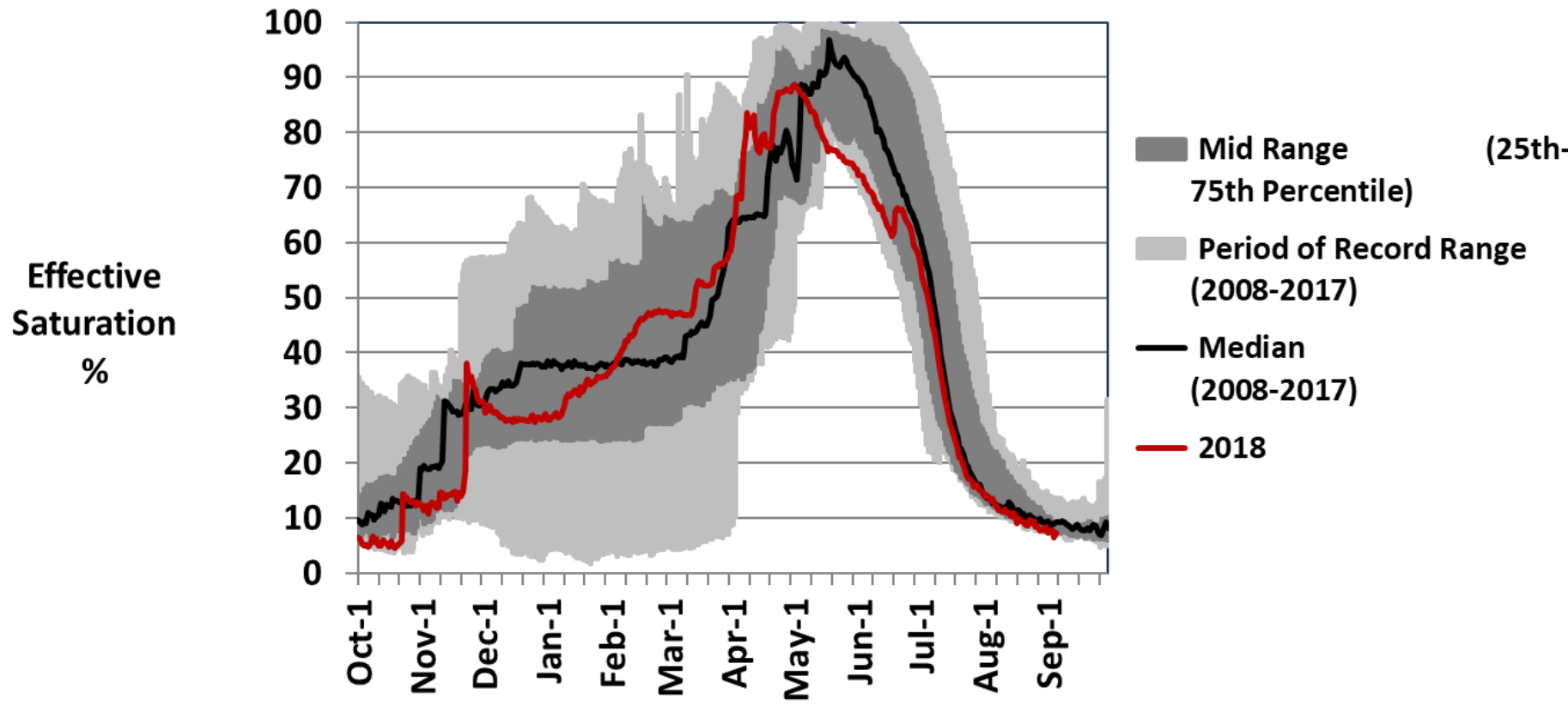
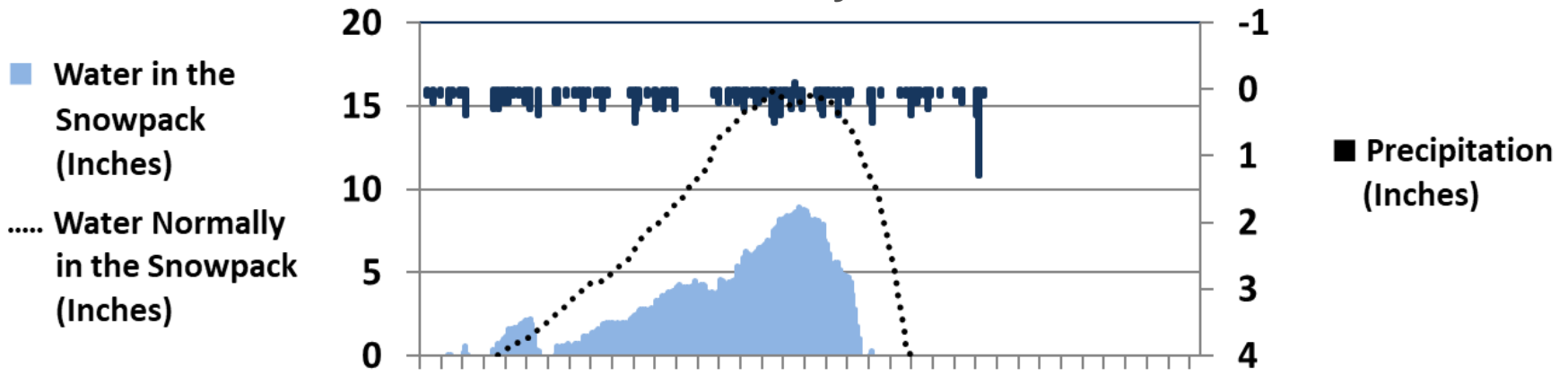
50 km
50 mi



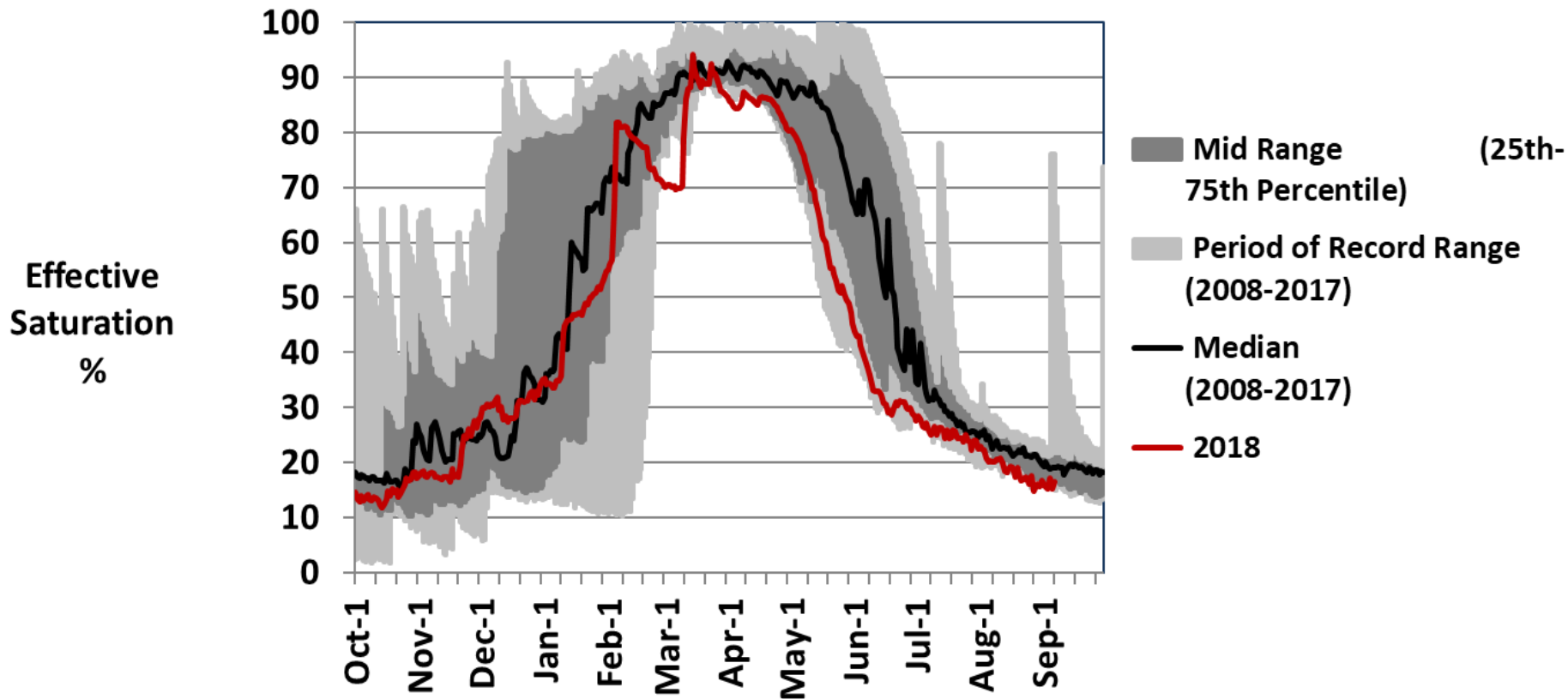
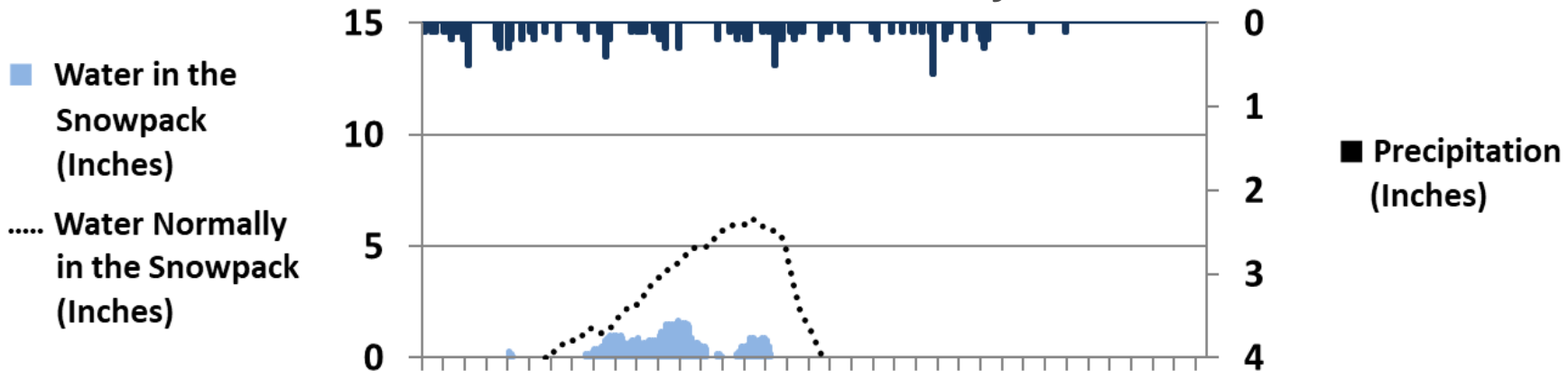
ANNIE SPRINGS – Klamath – Elev = 6010'



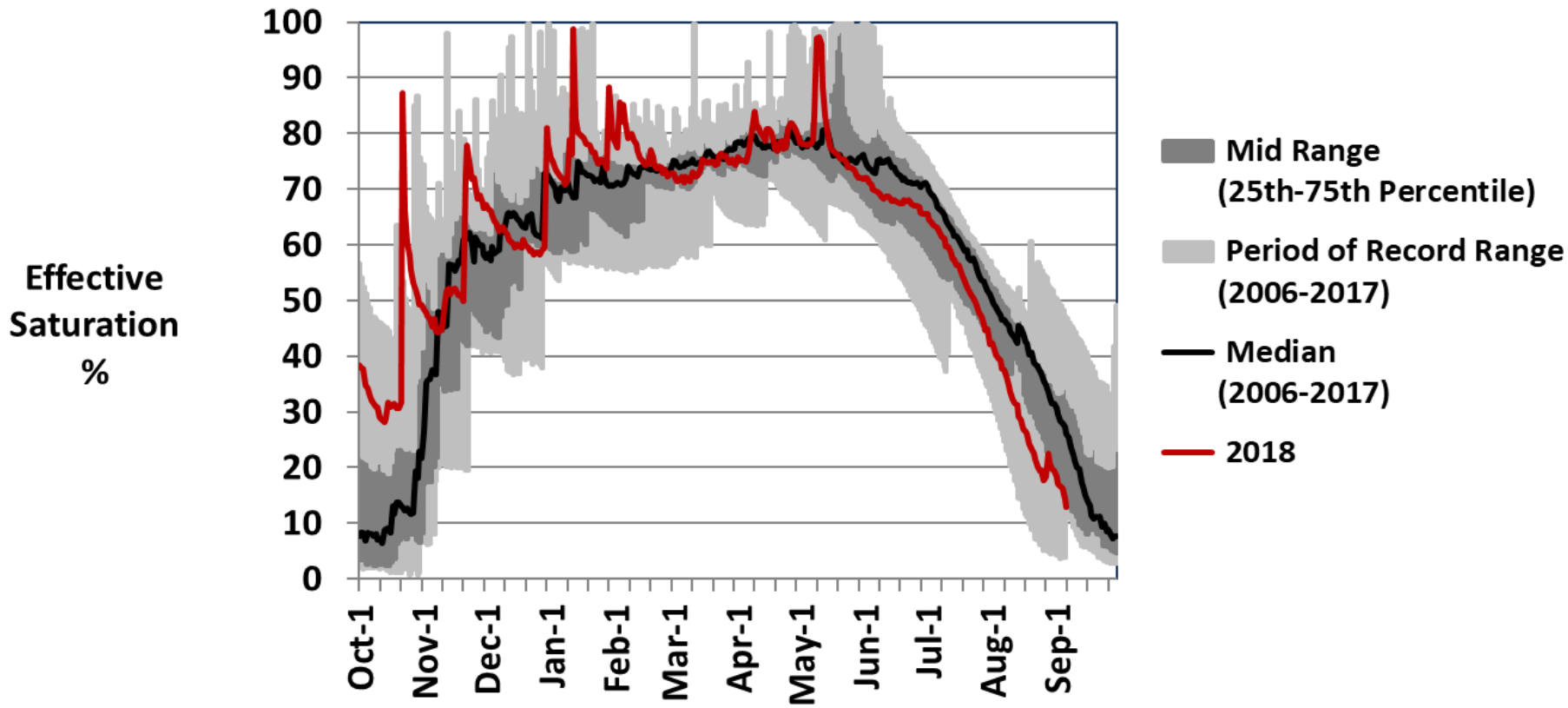
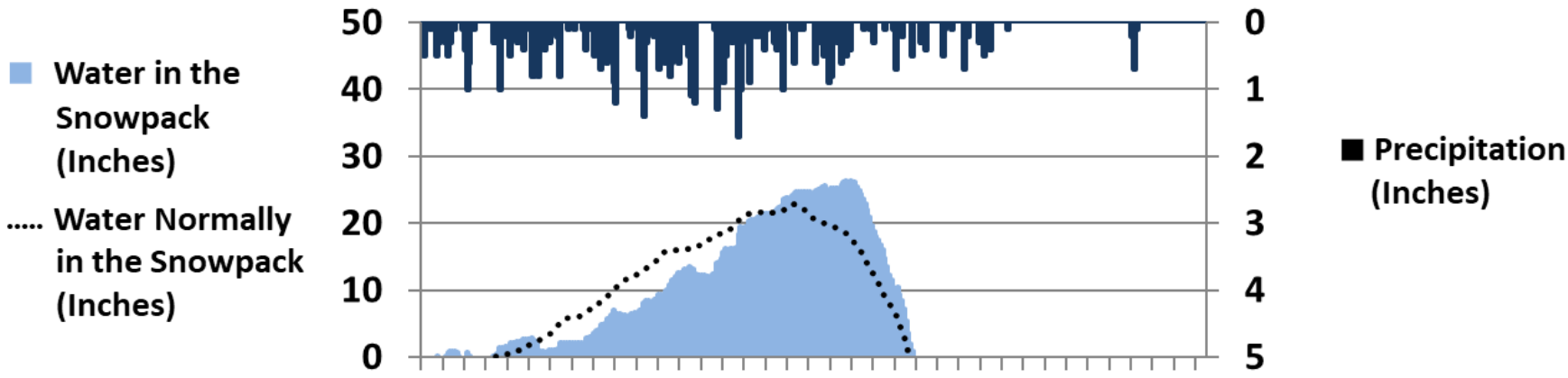
SILVIES – Harney – Elev = 6990'



ROCK SPRINGS – Grant/Harney – Elev = 5290'



HIGH RIDGE – Umatilla/Union – Elev = 4920'





Thank you

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotope, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at [How to File a Program Discrimination Complaint](#) and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690-7442; or (3) email: program.intake@usda.gov.



Oregon Water Supply Availability

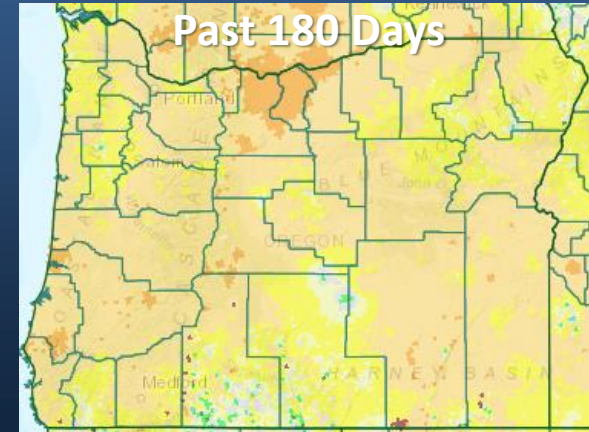
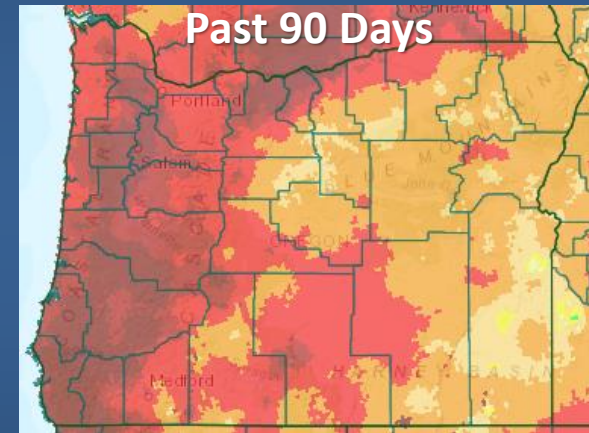
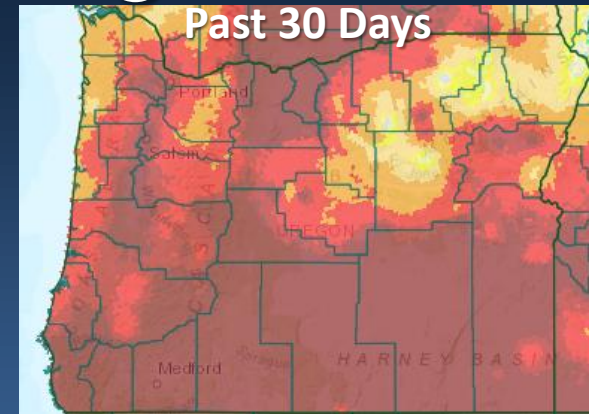
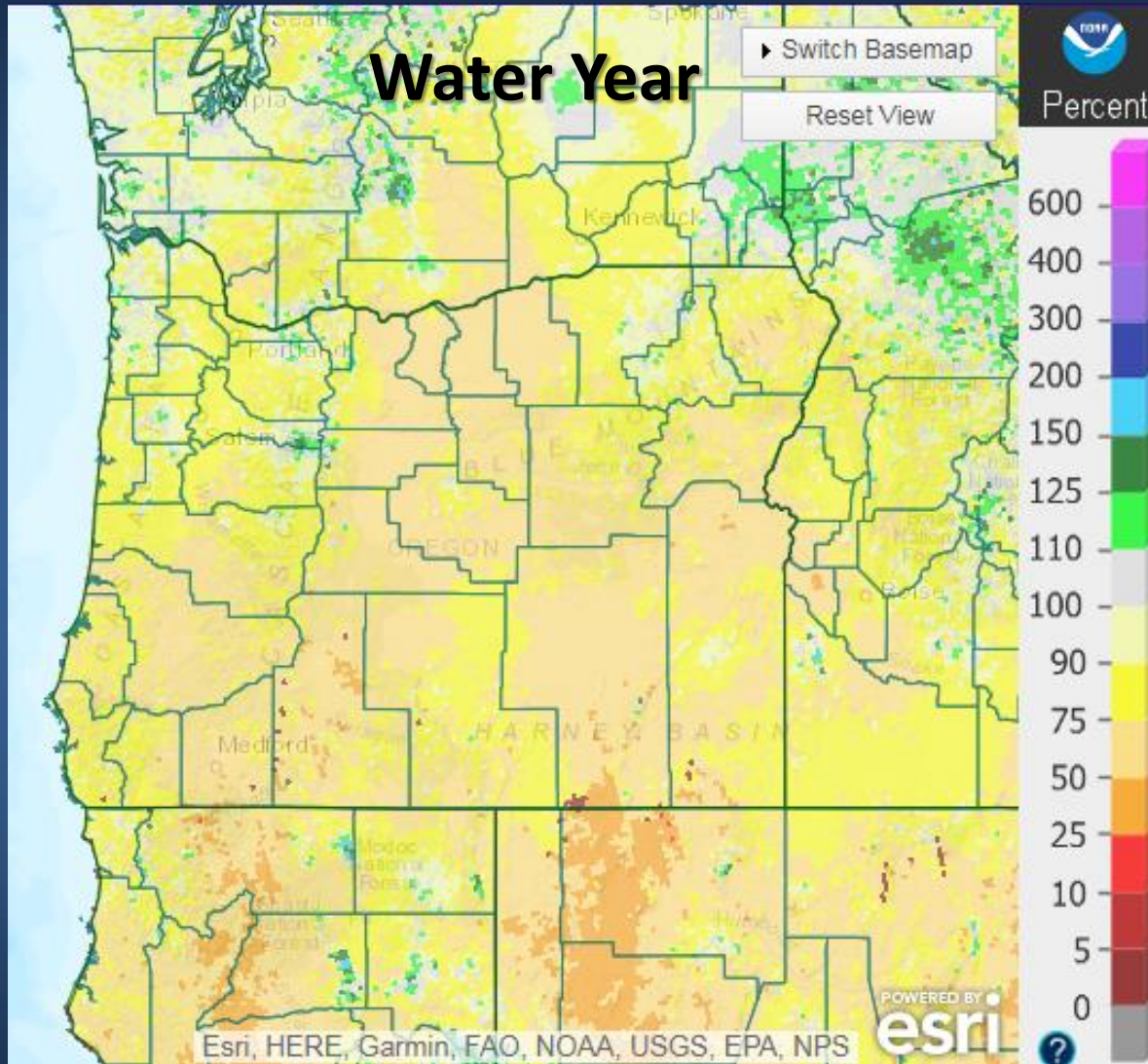
*September 11, 2018
National Weather Service Update*



Andy Bryant, NWS Portland



Precipitation % of Average



Precipitation Data as of Sept 10th, 2018

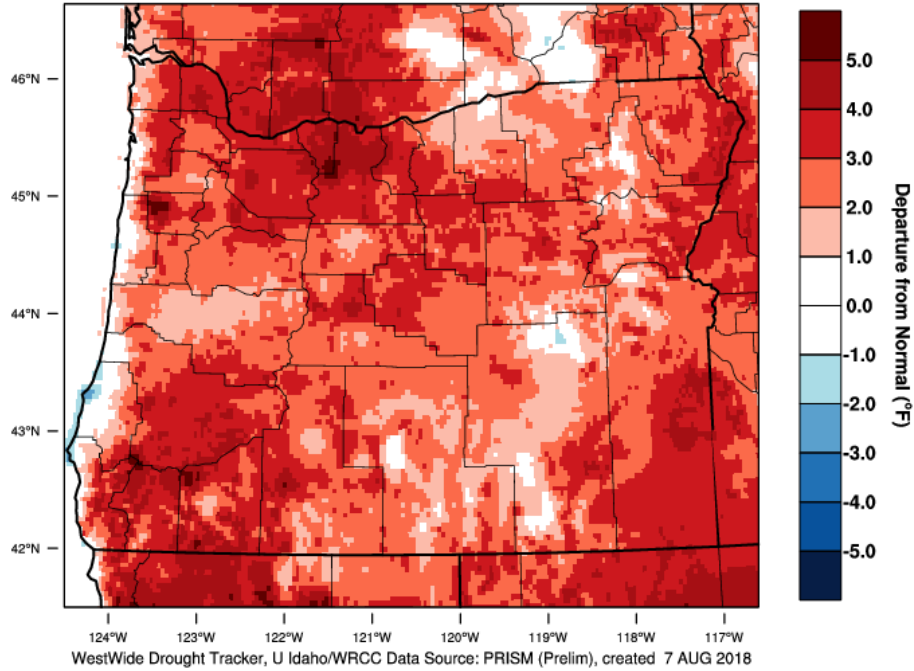
Source: water.weather.gov/precip/index.php?location_type=wfo&location_name=pqr



Recent Temperatures

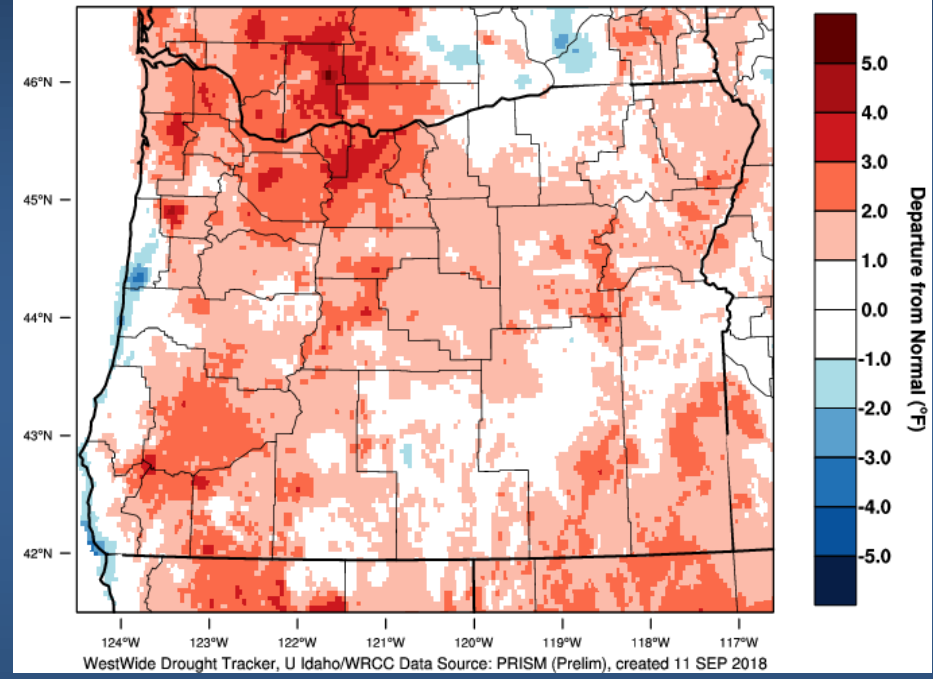
July 2018

Oregon - Mean Temperature
July 2018 Departure from 1981-2010 Normal



August 2018

Oregon - Mean Temperature
August 2018 Departure from 1981-2010 Normal





Drought Monitor

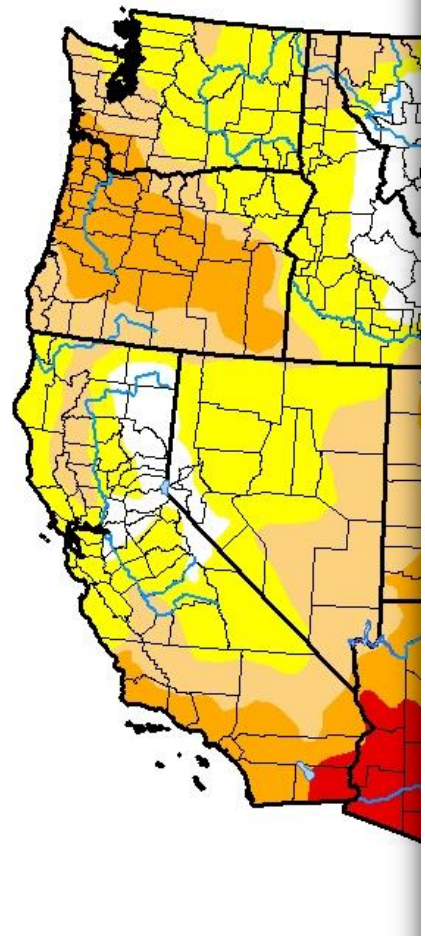
U.S. Drought Monitor

July 31, 2018

(Released Thursday, Aug. 2, 2018)

Valid 8 a.m. EDT

West



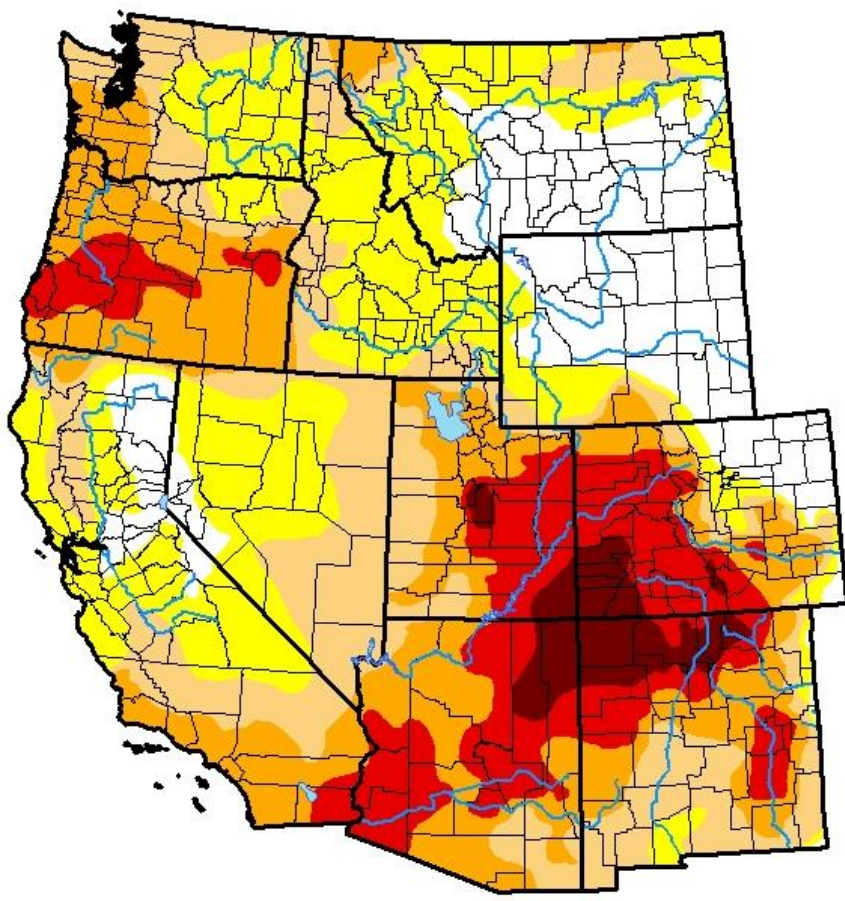
U.S. Drought Monitor

September 4, 2018

(Released Thursday, Sep. 6, 2018)

Valid 8 a.m. EDT

West



Intensity:

-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

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

Author:

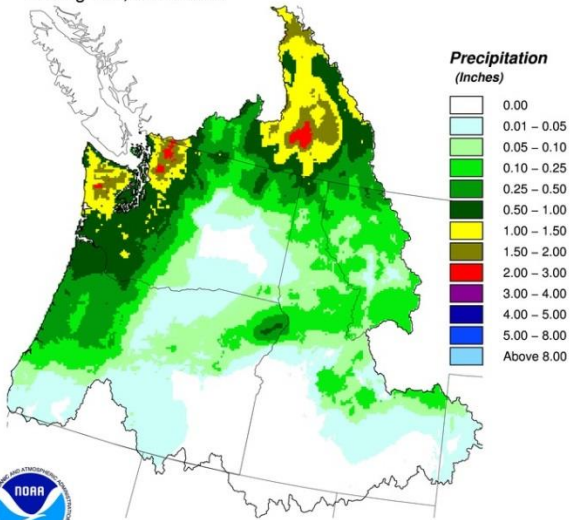
David Miskus
NOAA/NWS/NCEP/CPC





Mid/Late-September Outlook

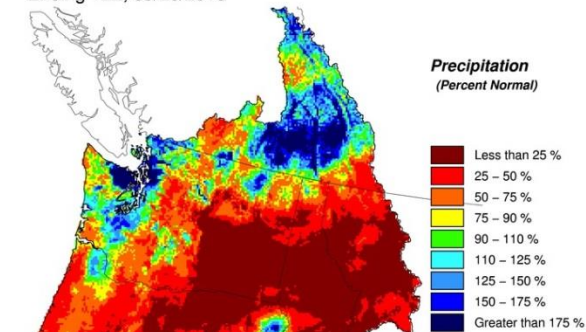
10 Day QPF
Ending 12Z, 09/20/2018



Creation Time: Mon Sep 10 16:14:25 UTC 2018



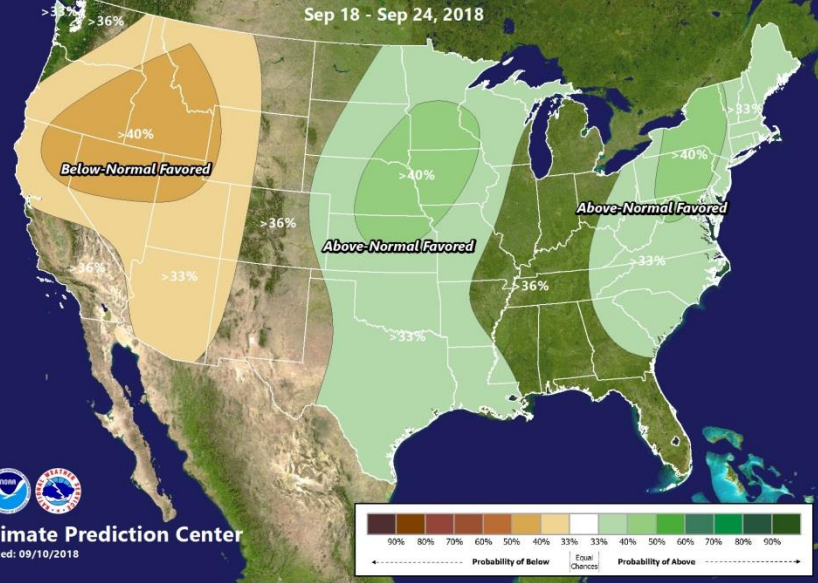
10 Day QPF (Percent of Climatology)
Ending 12Z, 09/20/2018



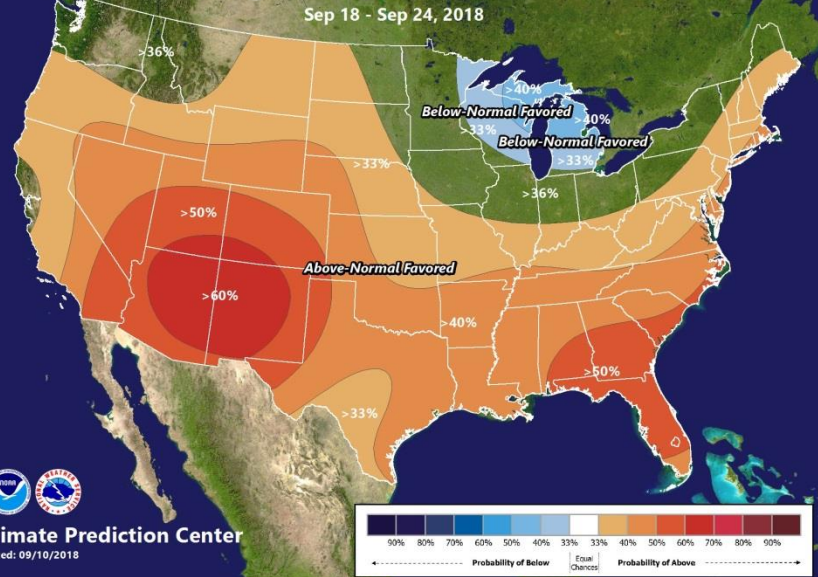
Creation Time: Mon Sep 10 16:14:39 UTC 2018



8-14 Day Precipitation Outlook
Sep 18 - Sep 24, 2018



8-14 Day Temperature Outlook
Sep 18 - Sep 24, 2018

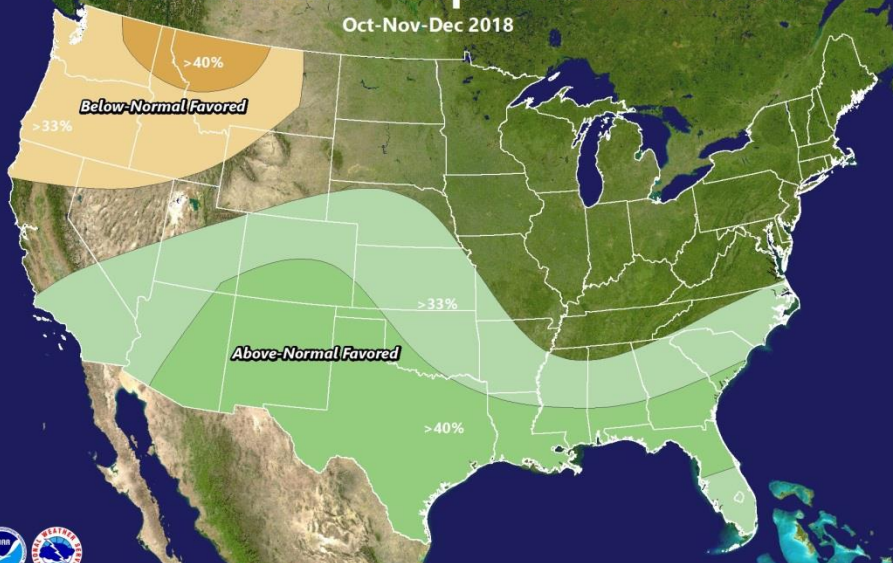




Outlook for October-November-December 2018

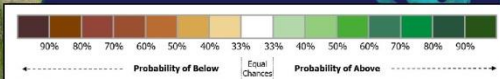
Three-Month Precipitation Outlook

Oct-Nov-Dec 2018



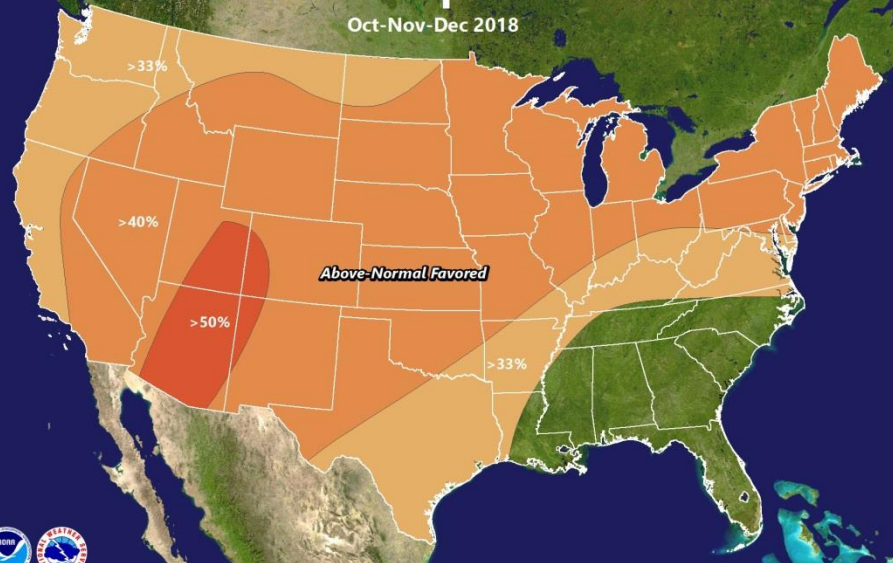
Climate Prediction Center

Issued: 08/16/18



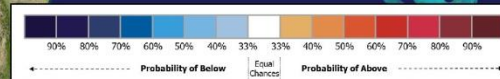
Three-Month Temperature Outlook

Oct-Nov-Dec 2018



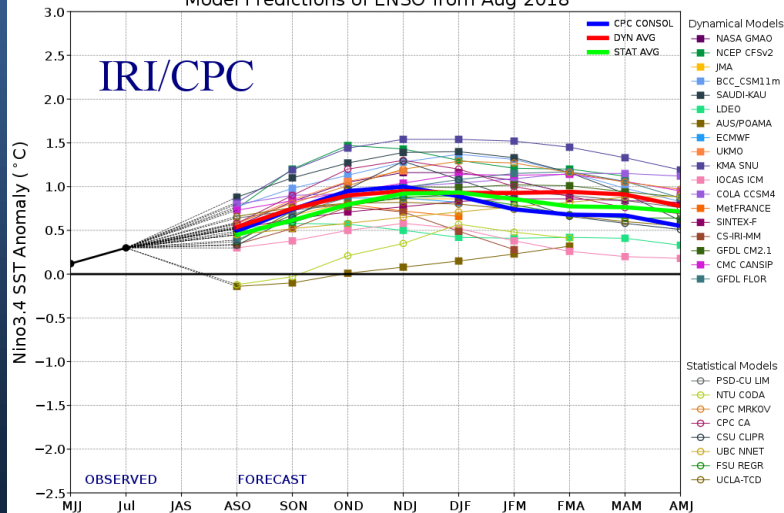
Climate Prediction Center

Issued: 08/16/18



ENSO Prediction based on consensus of model guidance

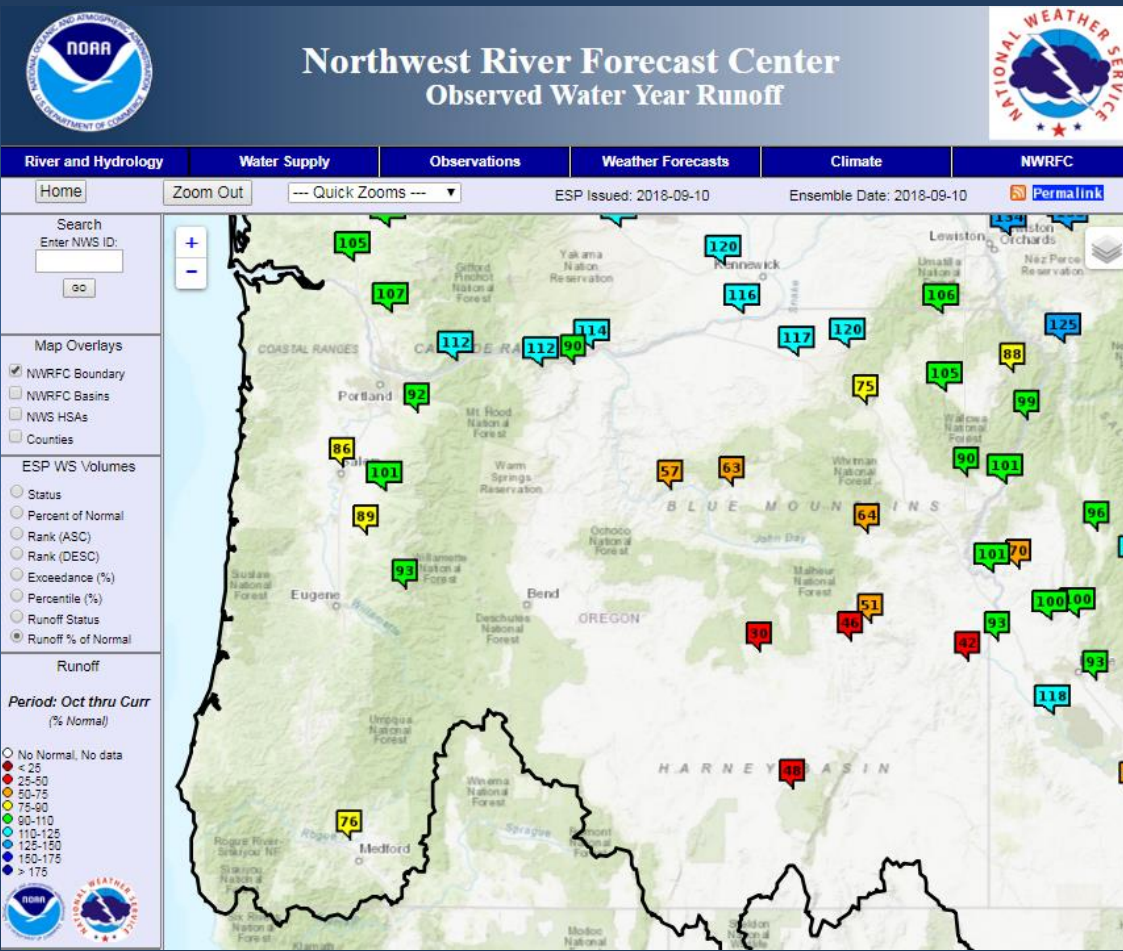
Model Predictions of ENSO from Aug 2018



IRI/CPC



Observed Water Year Runoff as of September 11th

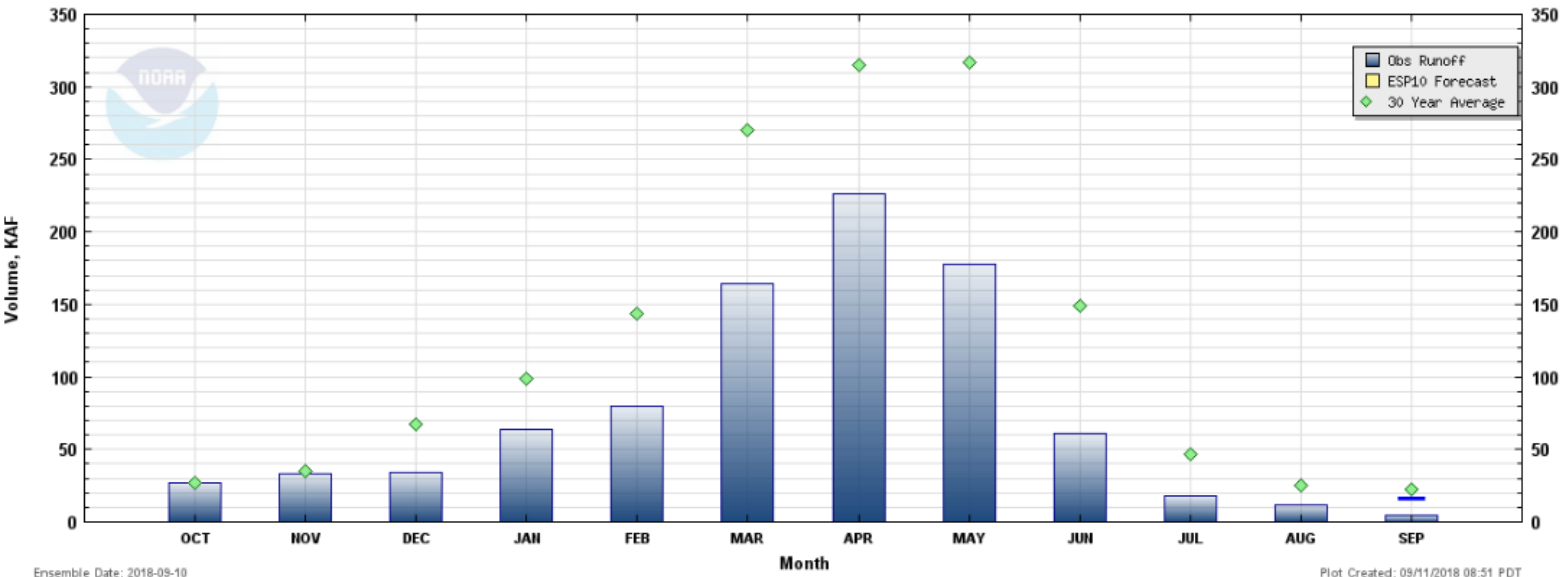


Source: www.nwrfc.noaa.gov & www.cnrfc.noaa.gov

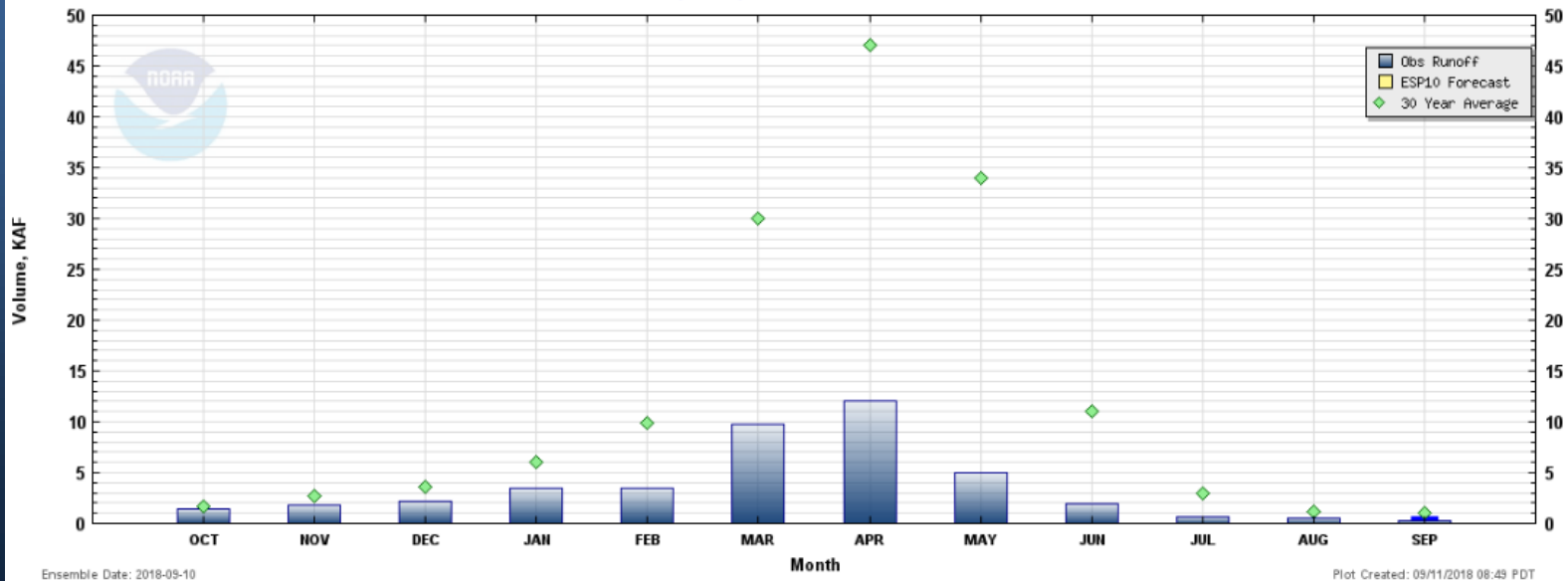


Observed Runoff - Eastern Oregon

Natural Volume Monthly Forecasts (ESP10) for Water Year 2018
(SER03) JOHN DAY - AT SERVICE CK



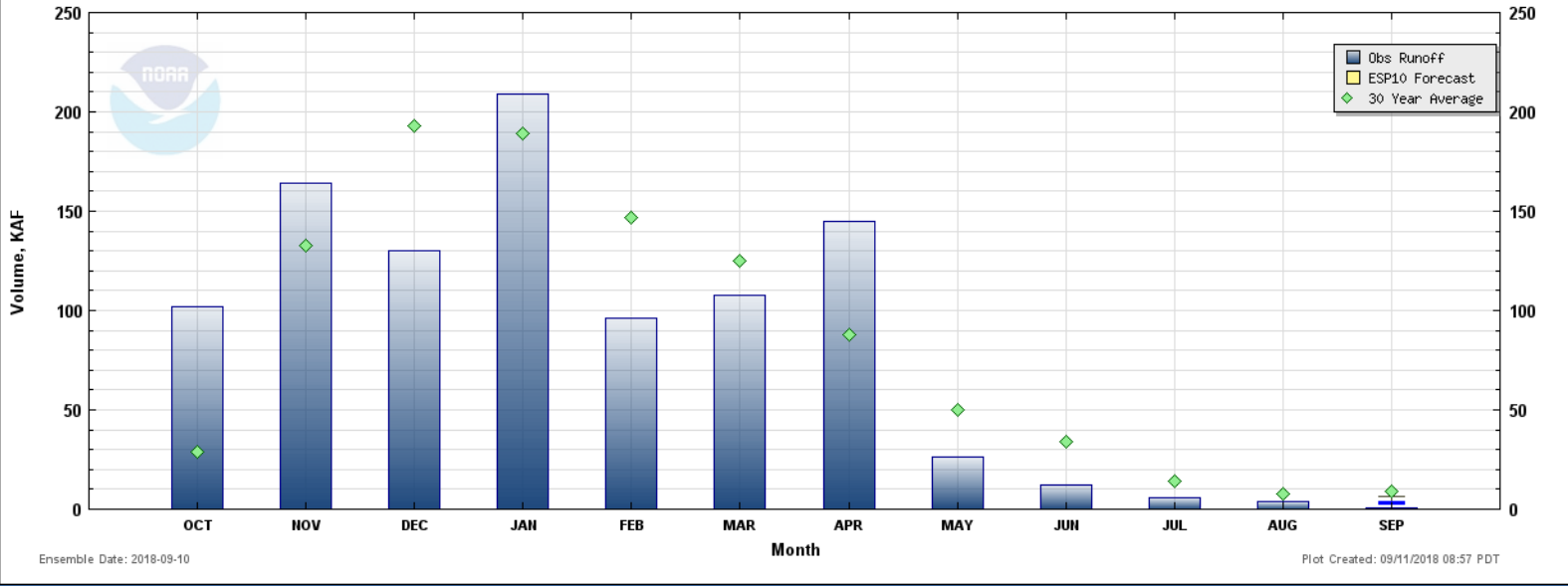
Natural Volume Monthly Forecasts (ESP10) for Water Year 2018
(BUS03) SILVIES - NEAR BURNS



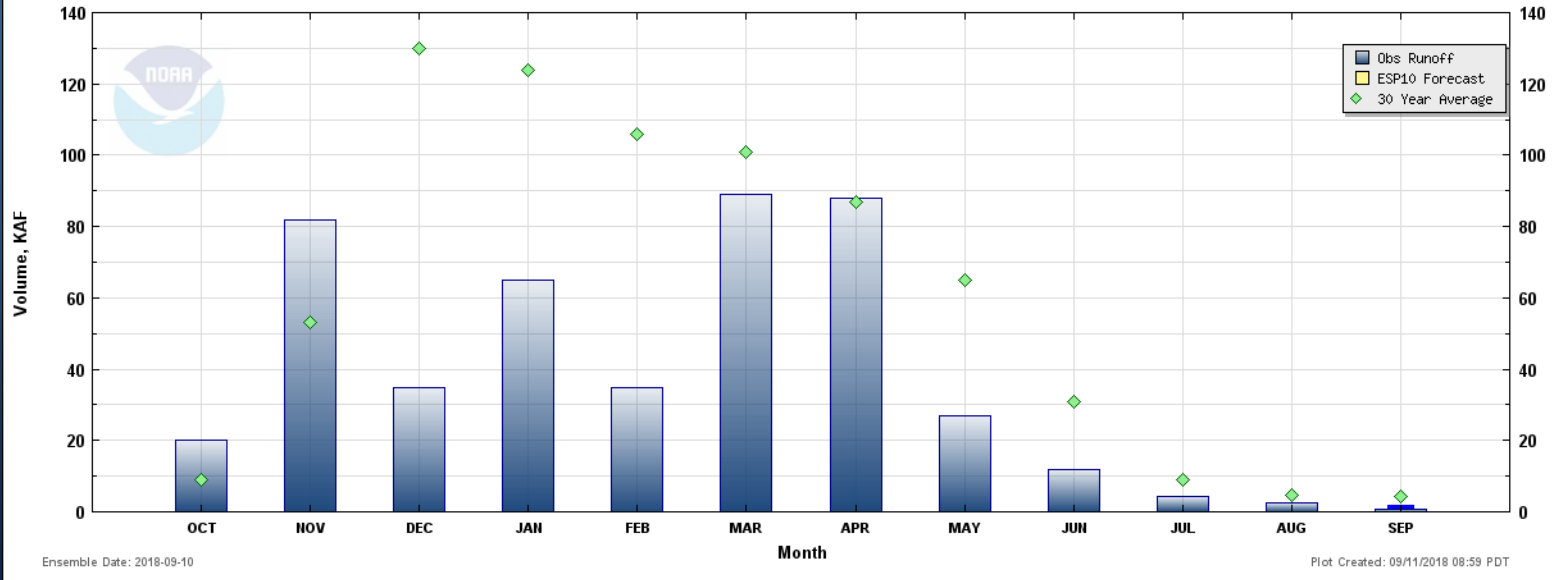


Observed Runoff - Western Oregon

Natural Volume Monthly Forecasts (ESP10) for Water Year 2018
(SILO3) SILETZ - AT SILETZ



Natural Volume Monthly Forecasts (ESP10) for Water Year 2018
(TILO3) S UMPQUA - AT TILLER





Oregon Water Supply Availability

September 2018

USGS Update on Surface Water Conditions

Carrie Boudreau & Marc Stewart, USGS Oregon Water Science Center

Provisional Data Statement : Data are provisional and subject to revision until they have been thoroughly reviewed and received final approval.

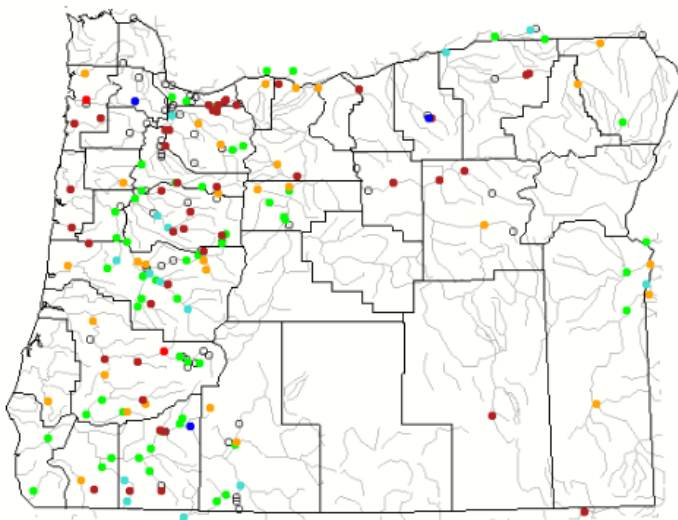
Oregon Map of 28-day average streamflow compared to historical streamflow for the day of the year

Map of 28-day average streamflow compared to historical streamflow for the day of the year (Oregon)

Oregon or Water-Resources Regions

Monday, August 06, 2018

From August 7



Search USGS streamgage

Choose a data retrieval option and select a location on the map

- List of all stations
- Single station
- Nearest stations

Explanation - Percentile classes

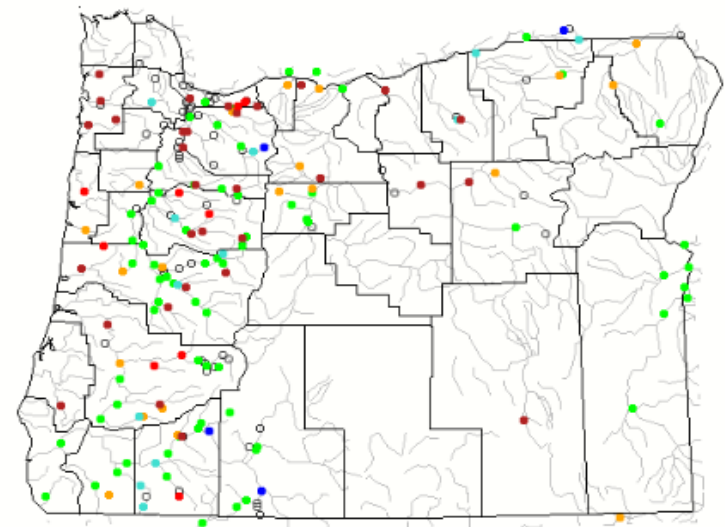
●	●	●	●	●	●	●	○
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

Map of 28-day average streamflow compared to historical streamflow for the day of the year (Oregon)

Oregon or Water-Resources Regions

Monday, September 10, 2018

From Sept 10



Search USGS streamgage

Choose a data retrieval option and select a location on the map

- List of all stations
- Single station
- Nearest stations

Explanation - Percentile classes

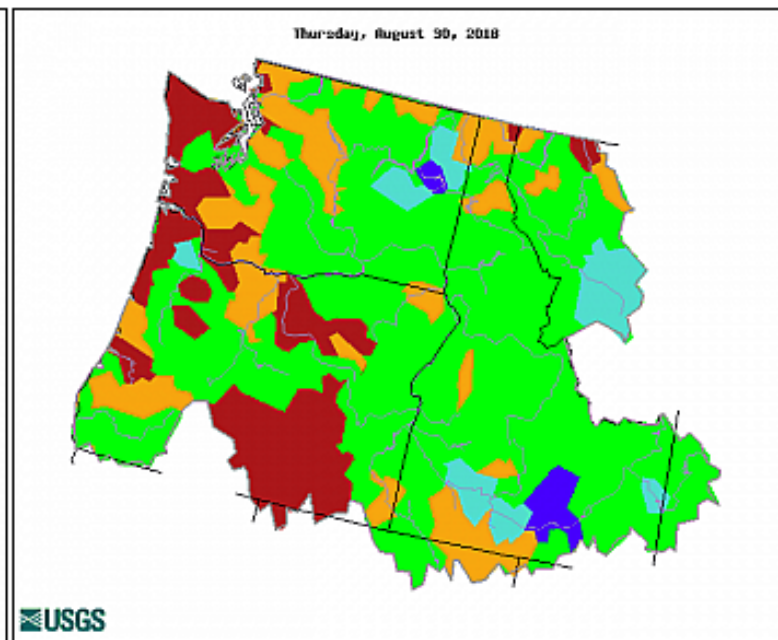
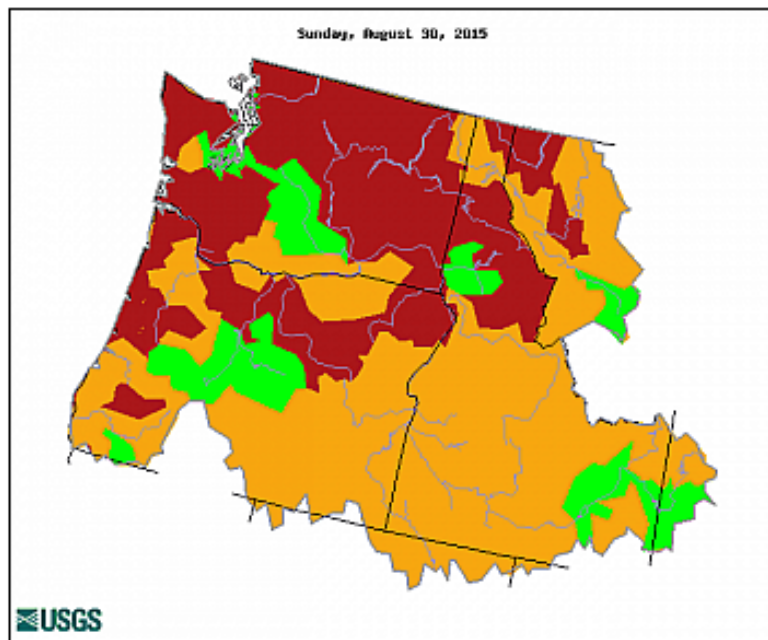
●	●	●	●	●	●	●	○
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

Comparison of Streamflow Maps

Geographic area: **Water resource region:** 17 Pacific Northwest
Map type: 28-day Streamflow (day of year) **Sub type:** HUC Streamflow Map

Date (YYYYMMDD):

Date (YYYYMMDD):



Explanation - Percentile classes

Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

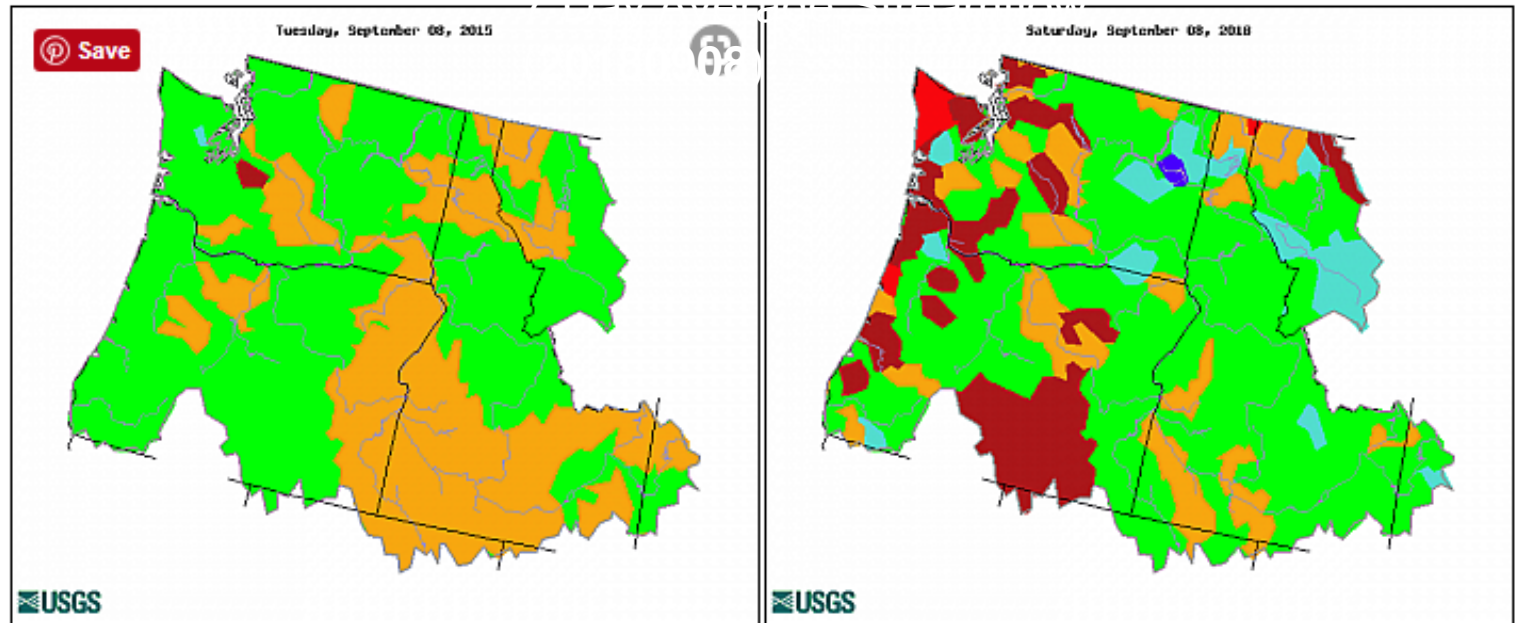
Comparison of Streamflow Maps

Geographic area: Water resource region: 17 Pacific Northwest

Map type: 7-day Streamflow (day of year)

Date (YYYYMMDD):

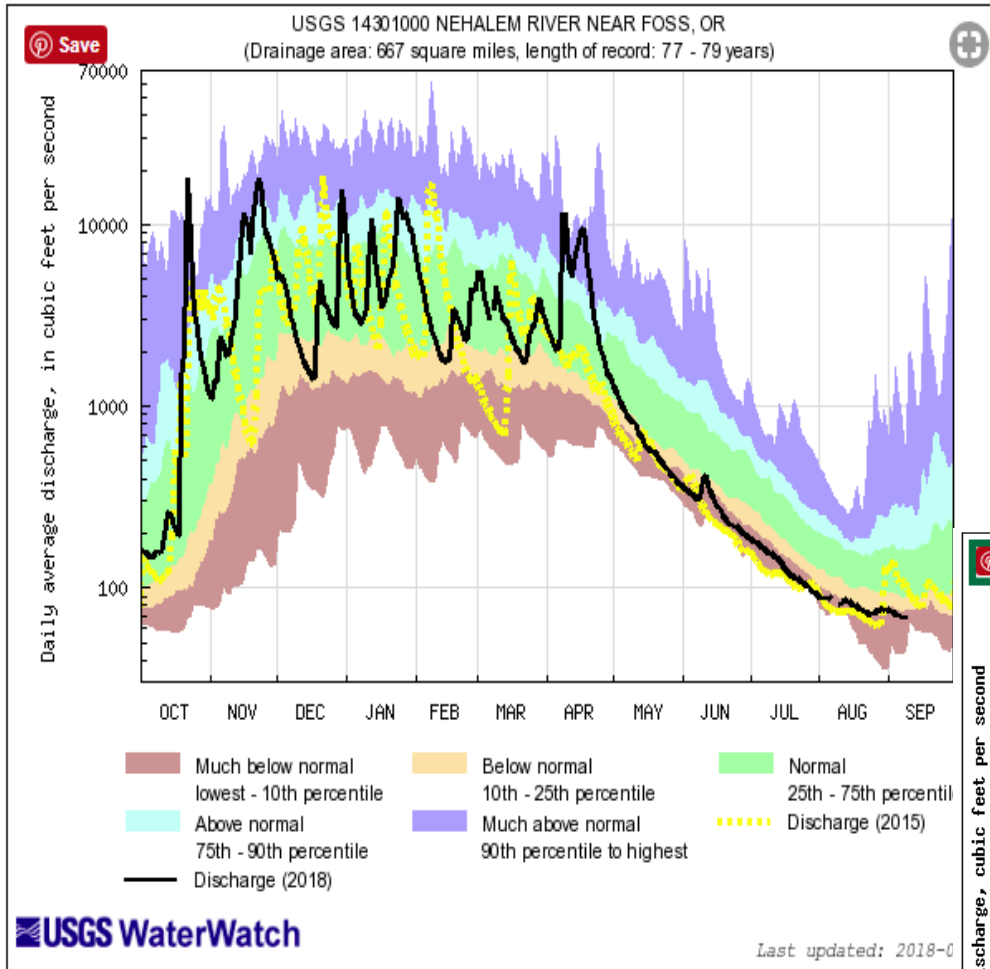
Date (YYYYMMDD):



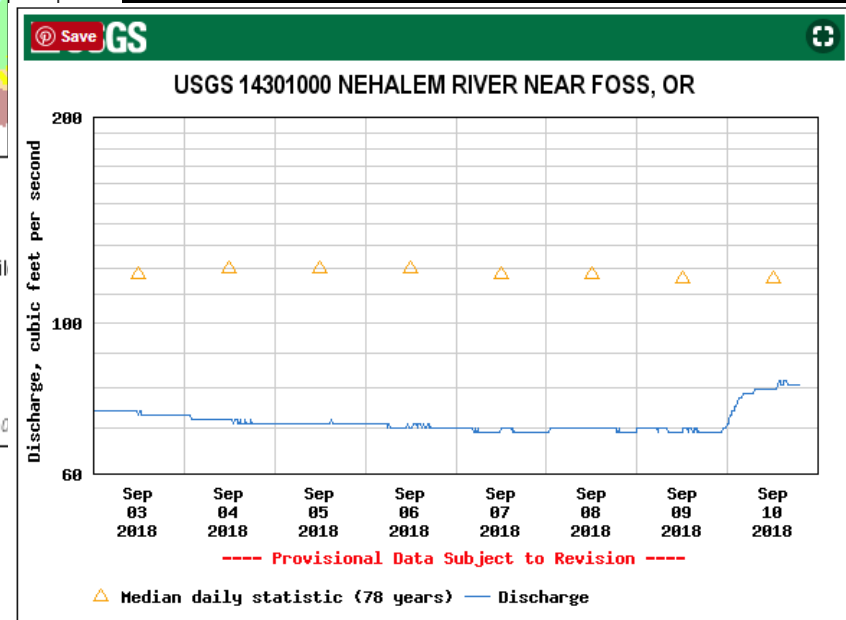
Explanation - Percentile classes

Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

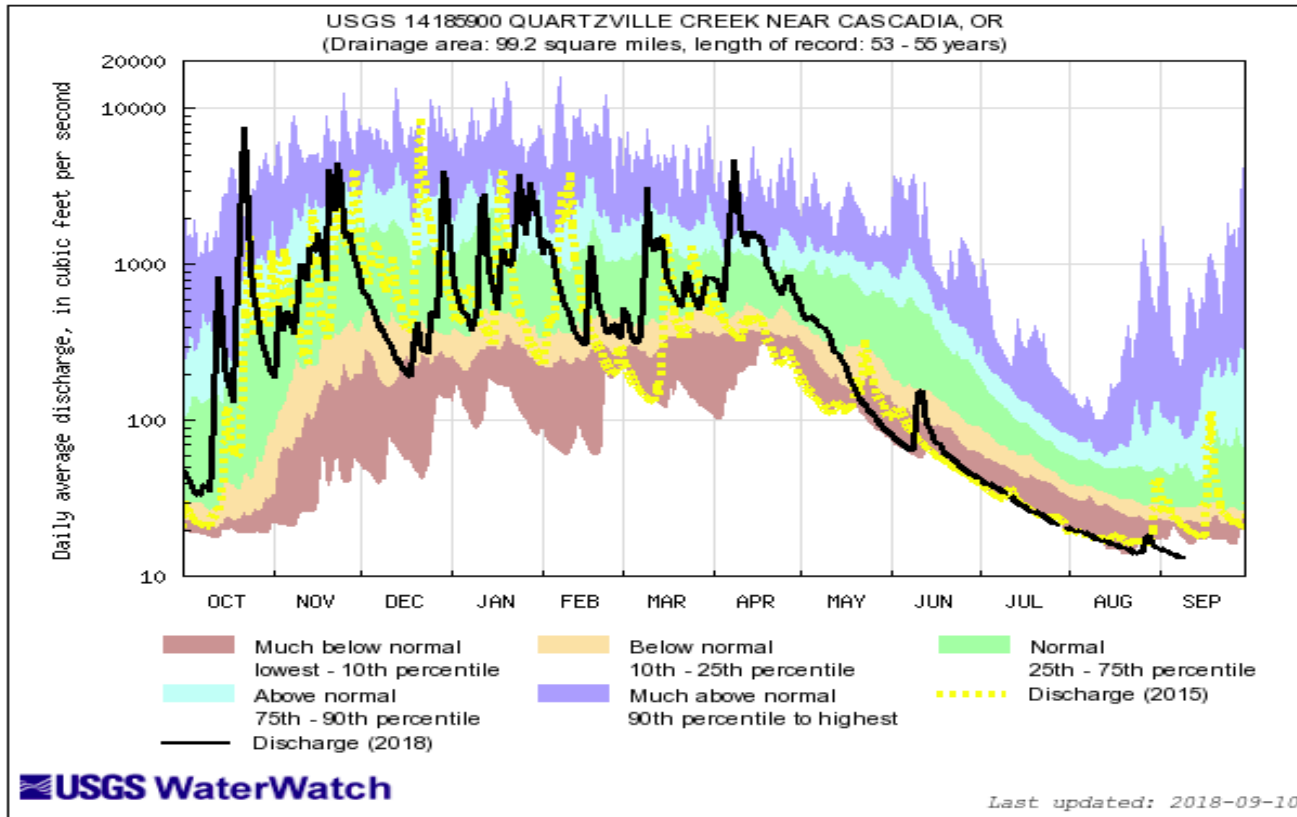
North West Coast



Explanation - Percentile classes				
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest
Much below normal	Below normal	Normal	Above normal	Much above normal
Flow				

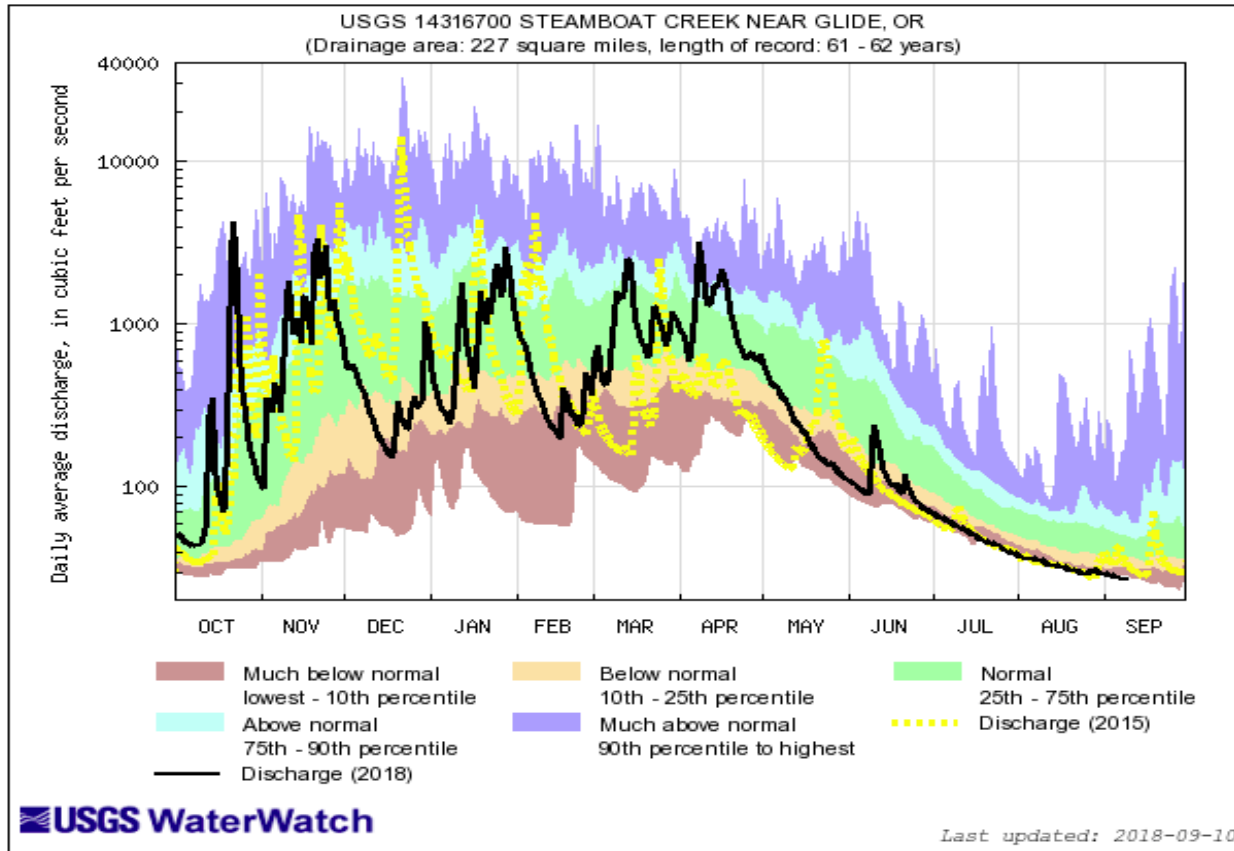


Linn County

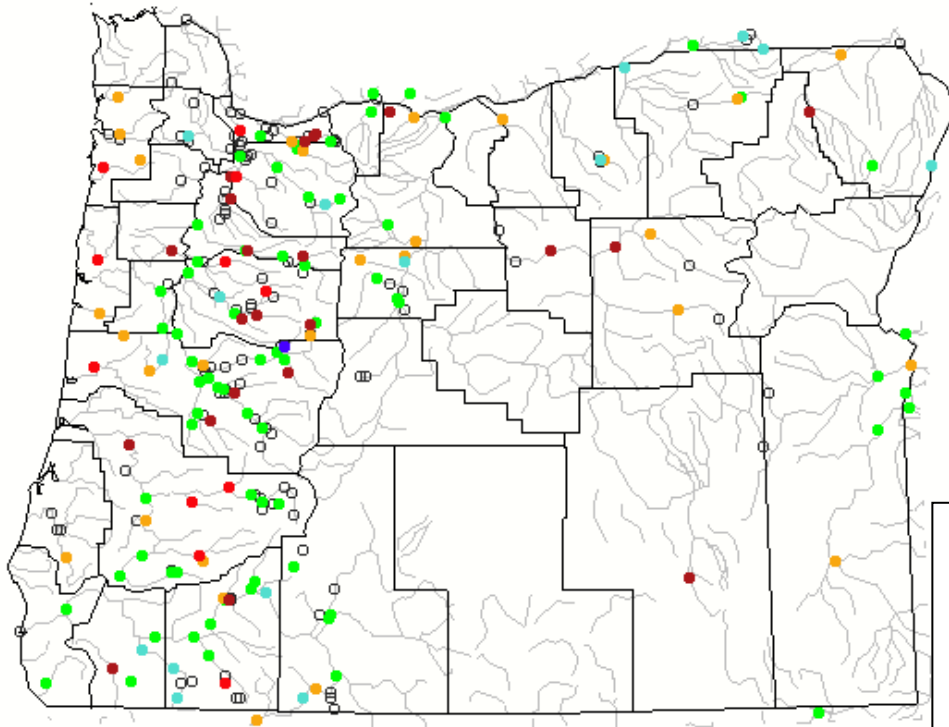


Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

Douglas County



Explanation - Percentile classes				
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest
Much below normal	Below normal	Normal	Above normal	Much above normal
Flow				

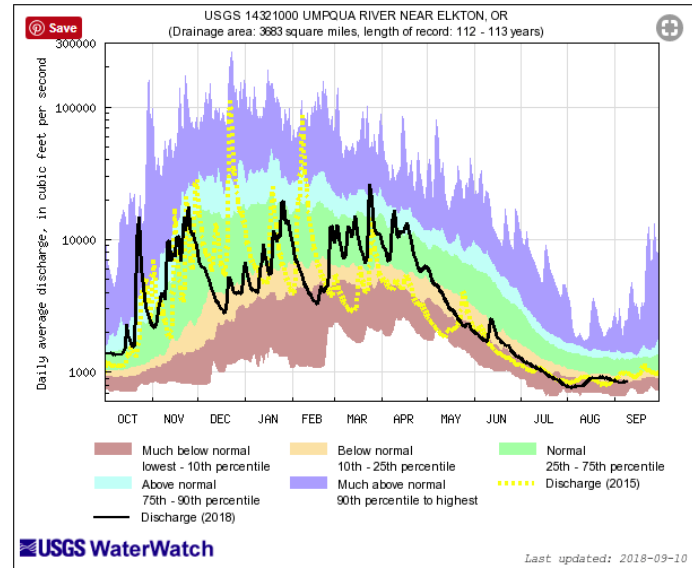


Search USGS streamgage

Choose a data retrieval option and select a location on the map

- List of all stations
- Single station
- Nearest stations
- Peak flow

Explanation - Percentile classes							
●	●	●	●	●	●	●	○
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		



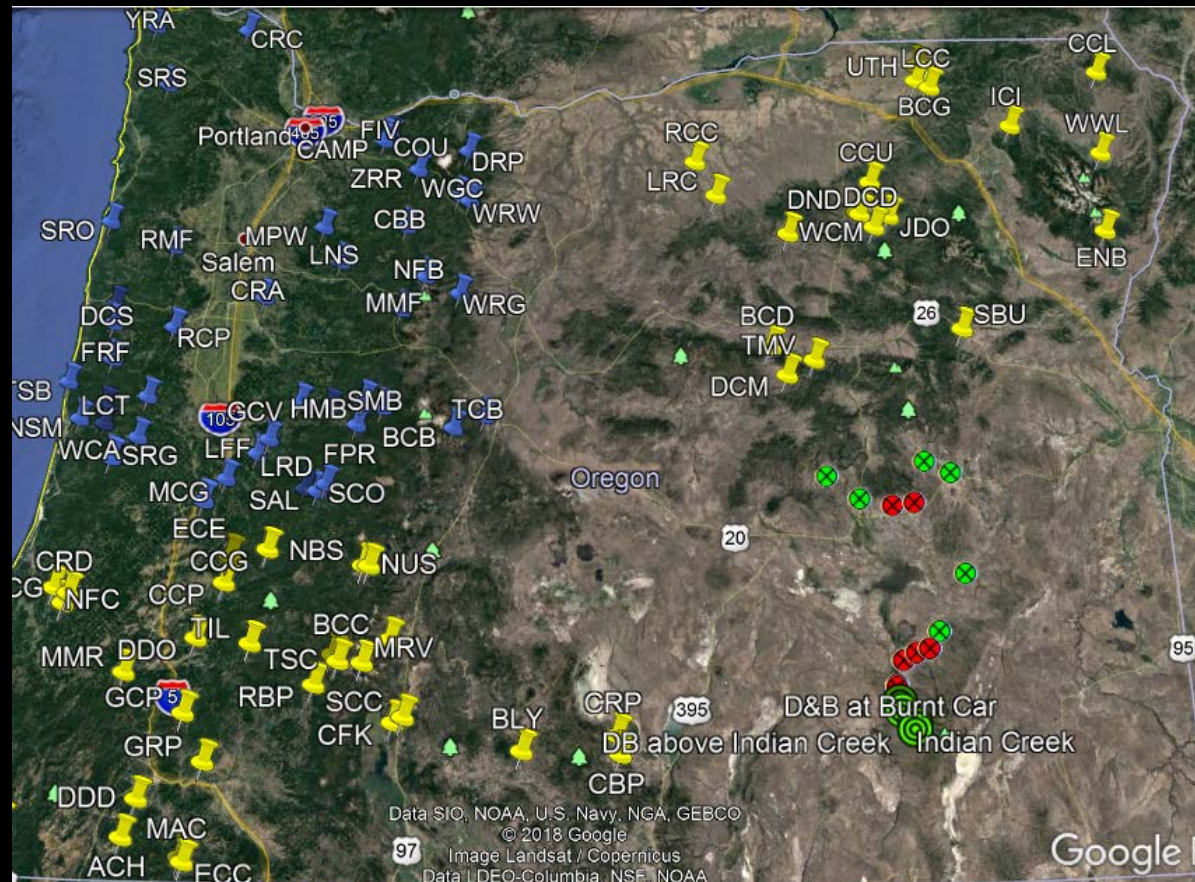
Explanation - Percentile classes					
●	●	●	●	●	●
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

Low Flow Measurements

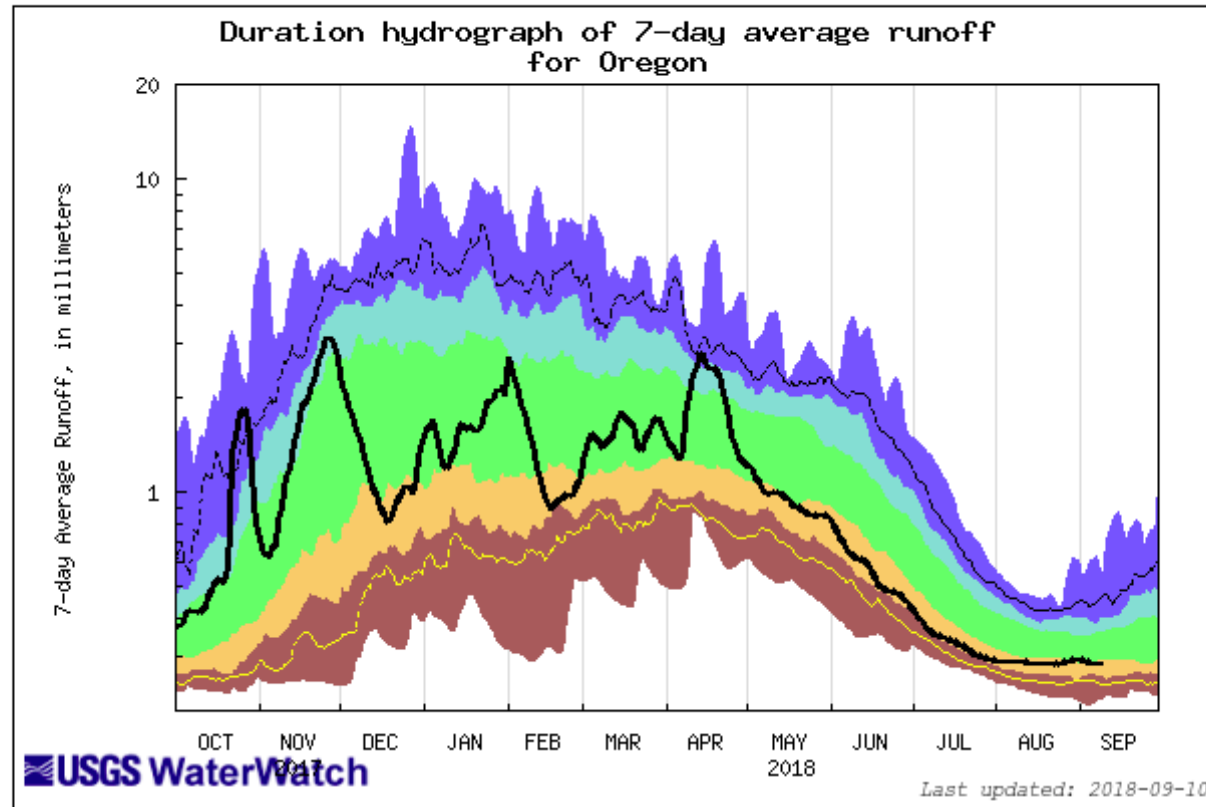
ORWSC and OWRD are revisiting about 90 stream flow locations throughout Oregon to make a flow measurements

Use data for filling in gaps and helping to establish base flow

Many of the same sites 1977, 1987, 2001 & 2015



Oregon Average



Explanation - Percentile classes							
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff
Much below Normal		Below normal	Normal	Above normal	Much above normal		



443623123511300 Big Elk Creek near Elk City, OR



14307600 Indian Creek near Rainrock, OR (photos by Syllas Daughtrey)



14113400 Dog River near Parkdale, OR



Power Point "USGS Update on Surface Water Conditions"

By: Carrie Boudreau & Marc Stewart USGS ORWSC

Water Availability Report By: Tiffany Rae Jacklin USGS ORWSC

Surface Water Conditions Report

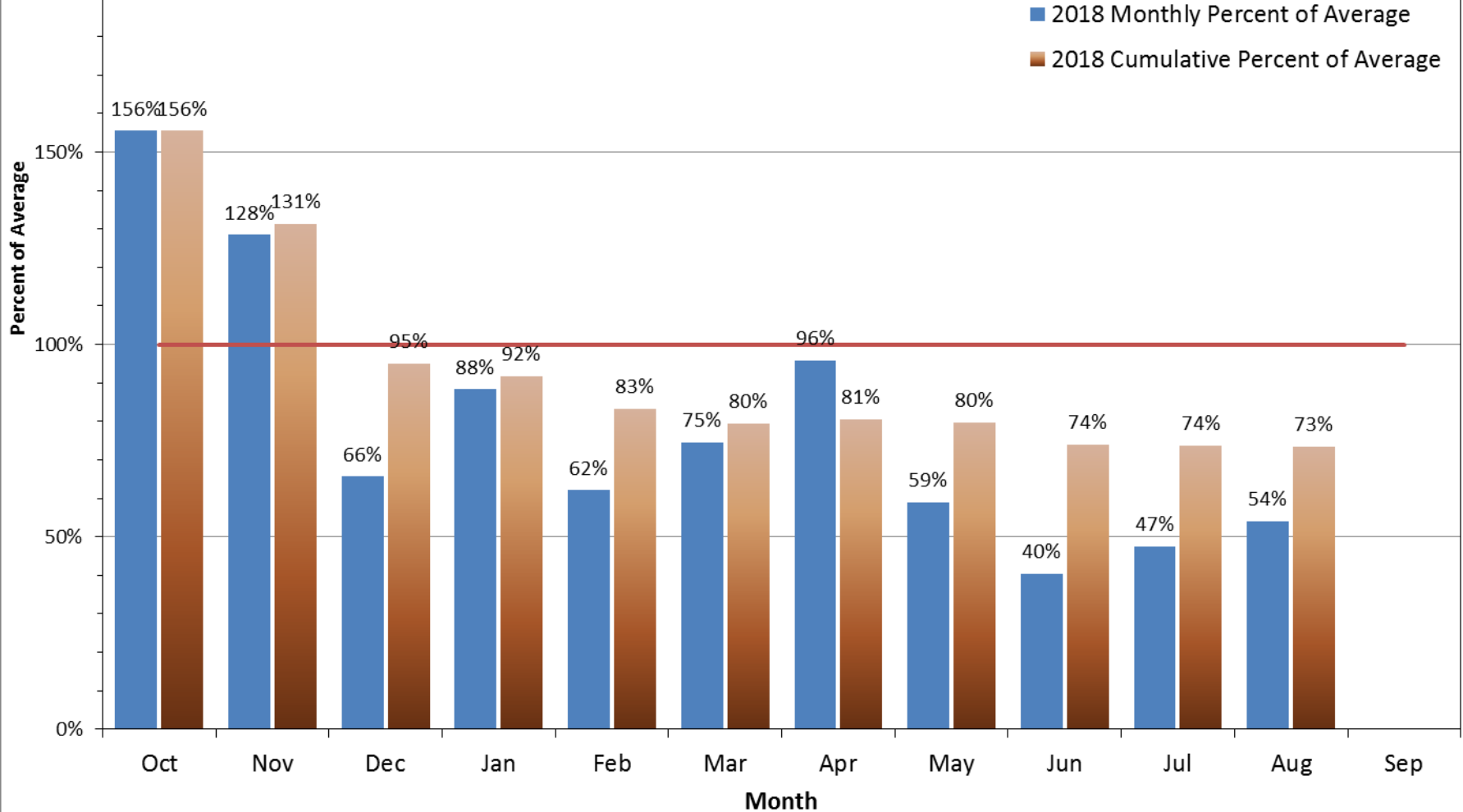
Water Supply Availability Committee



Ken Stahr
Oregon Water Resources
Department
September 10, 2018



2018 Statewide Percent of Average Stream Flow



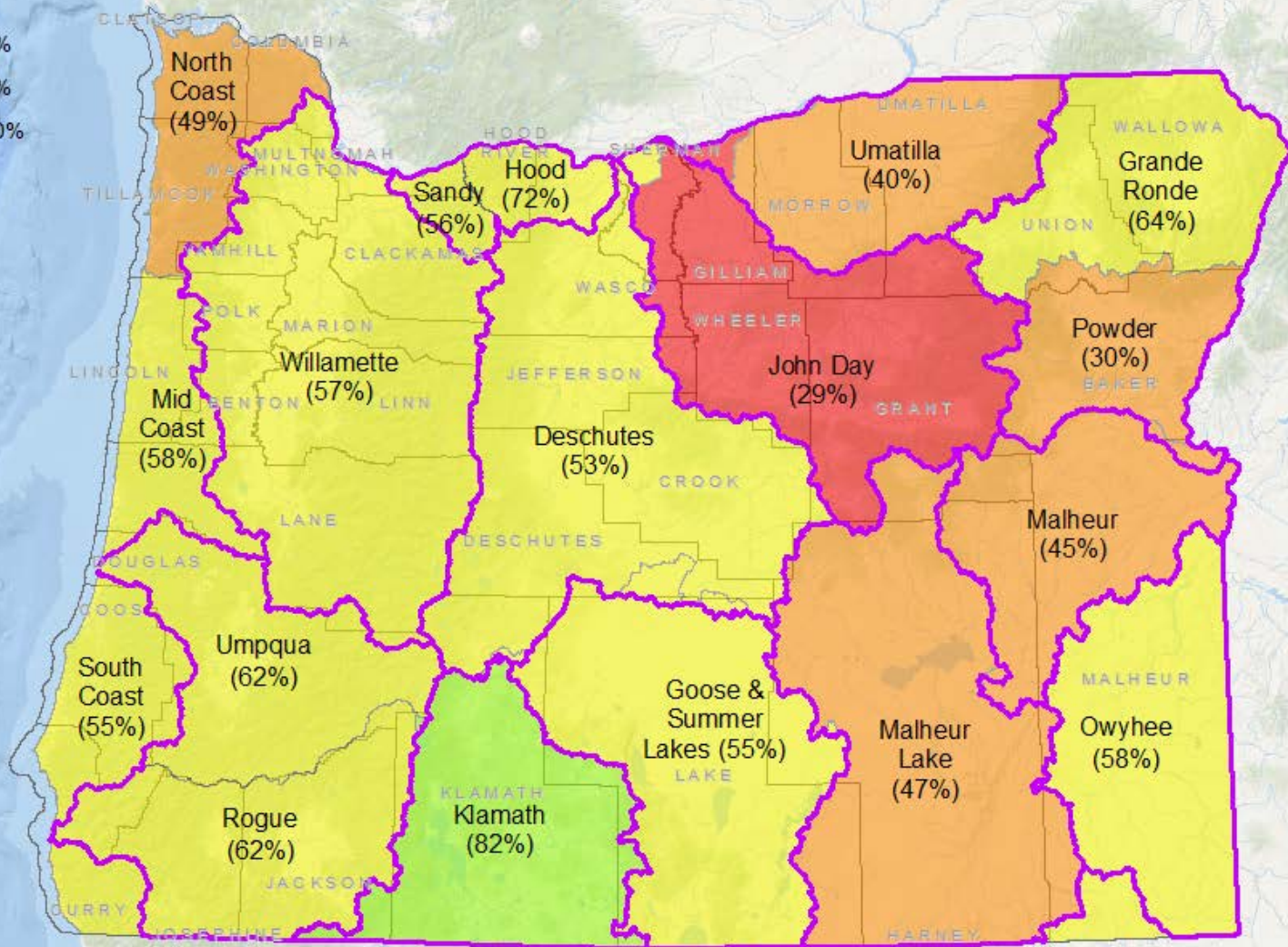
Percent of Average Streamflow August, 2018

WRD Basin

- < 30%
- 30% - 50%
- 51% - 75%
- 76% - 100%
- > 100%

NRCS Basin

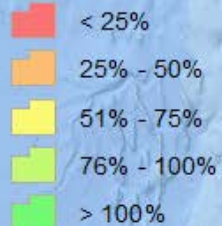
-
- County



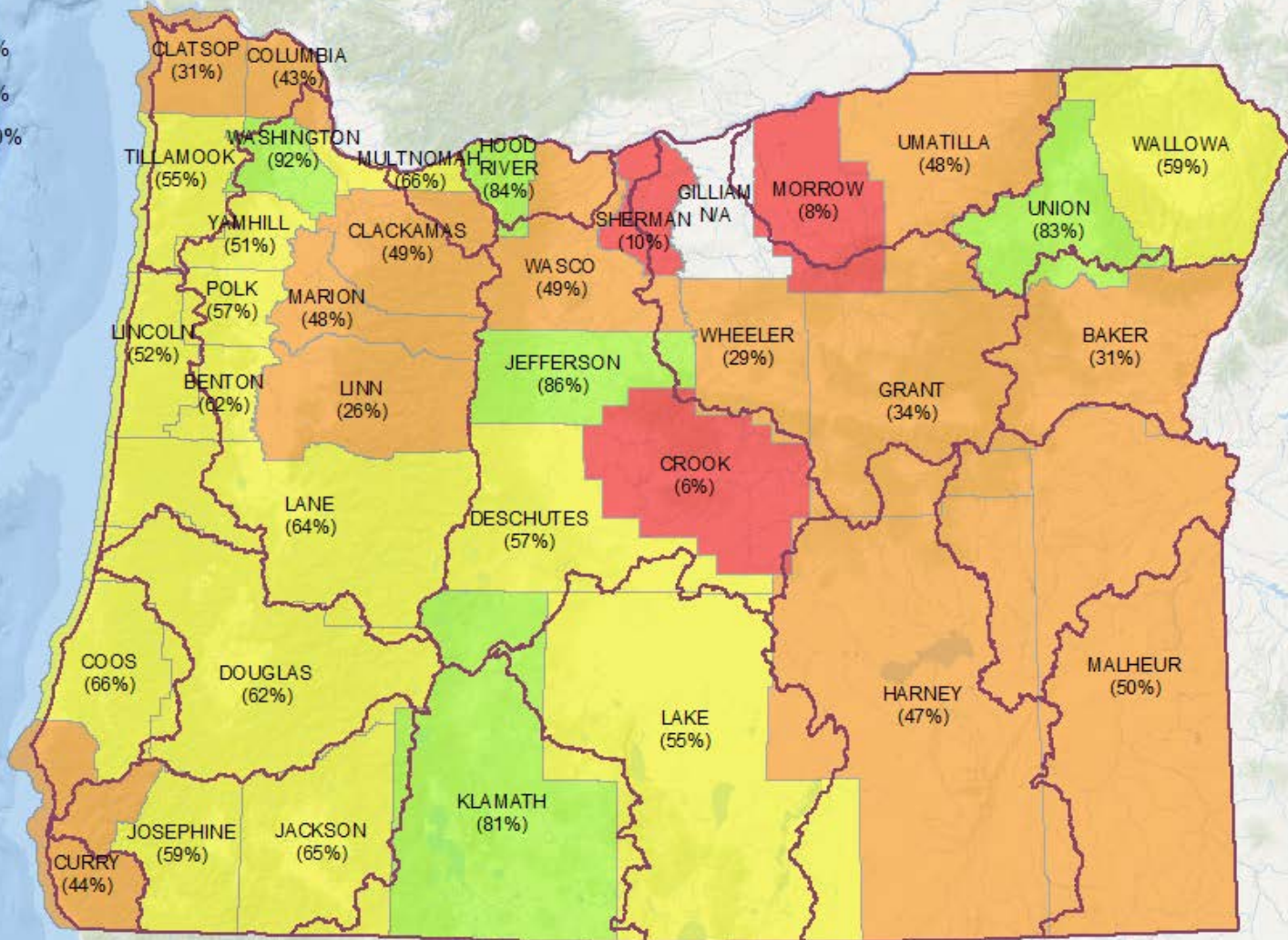
Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

Percent of Average Streamflow August, 2018

County

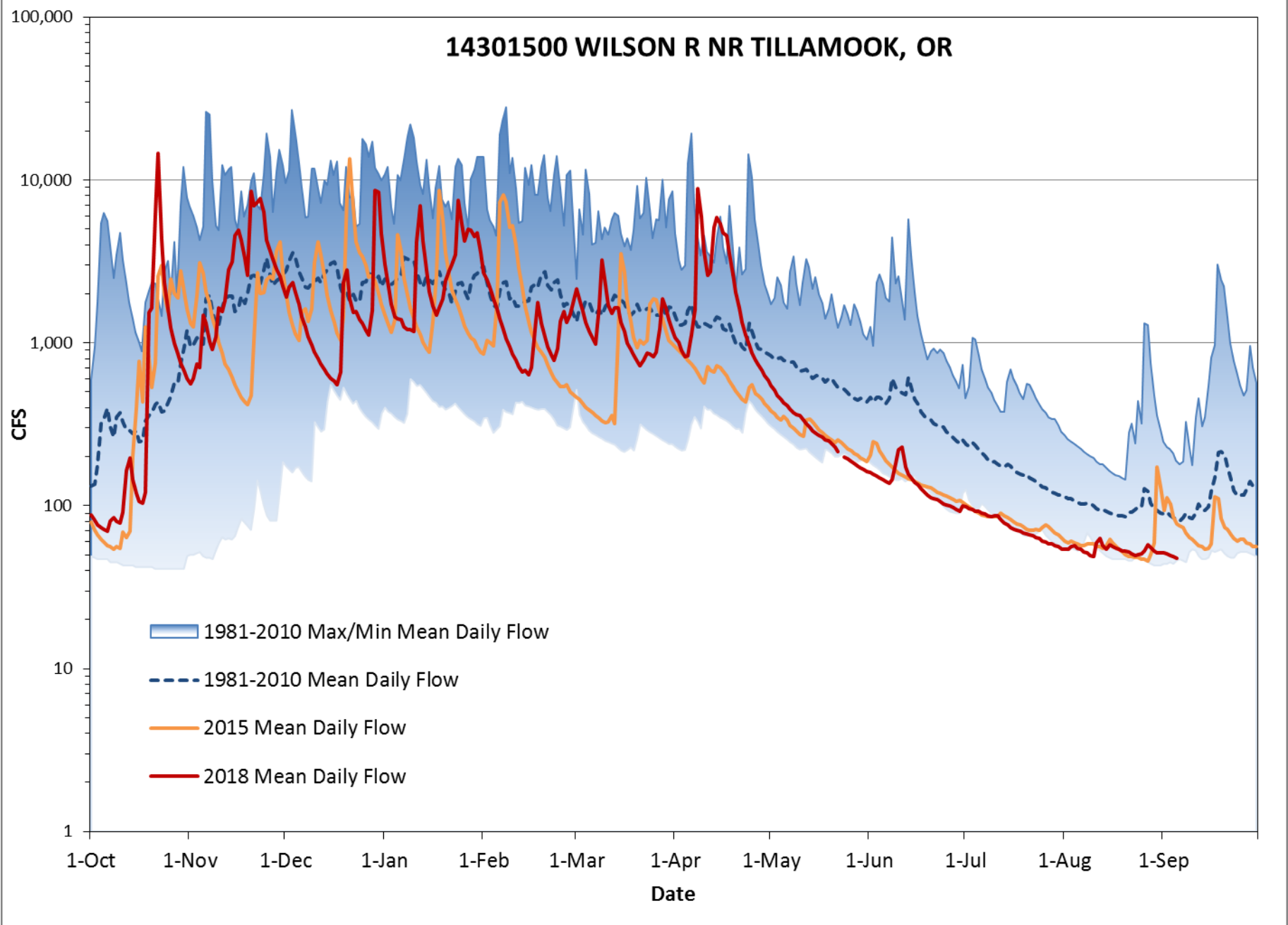


WRD Basin

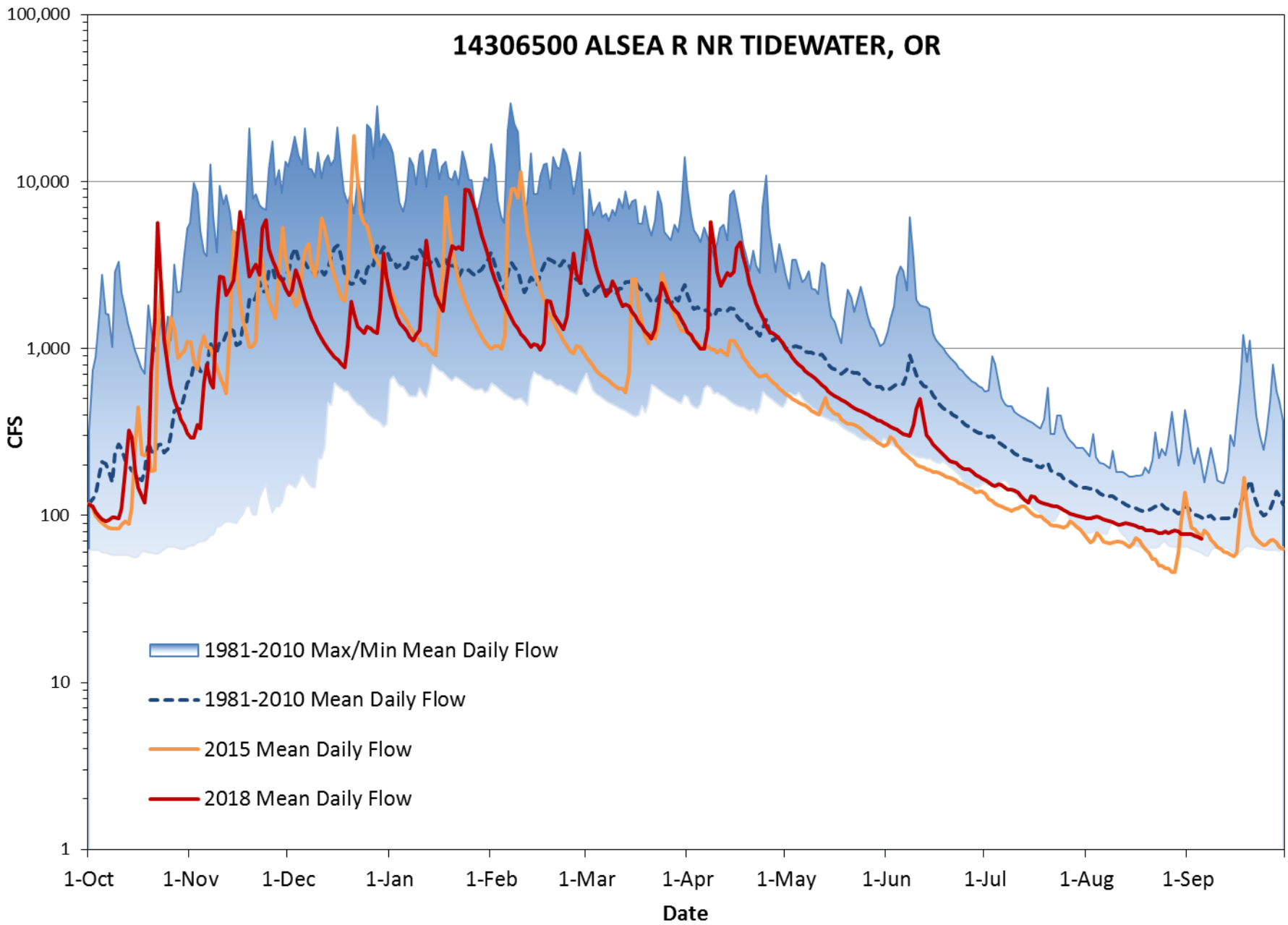


Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

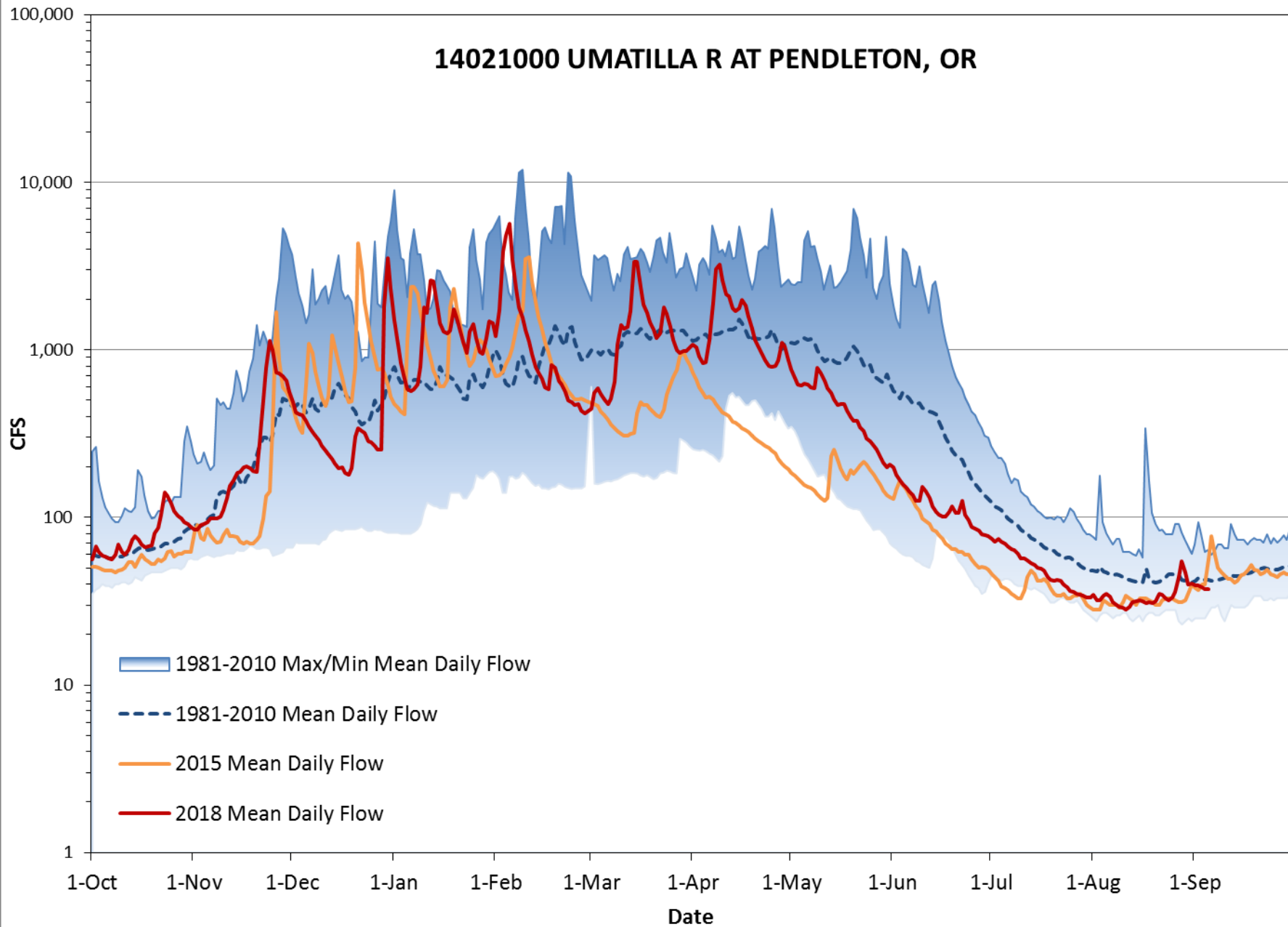
14301500 WILSON R NR TILLAMOOK, OR



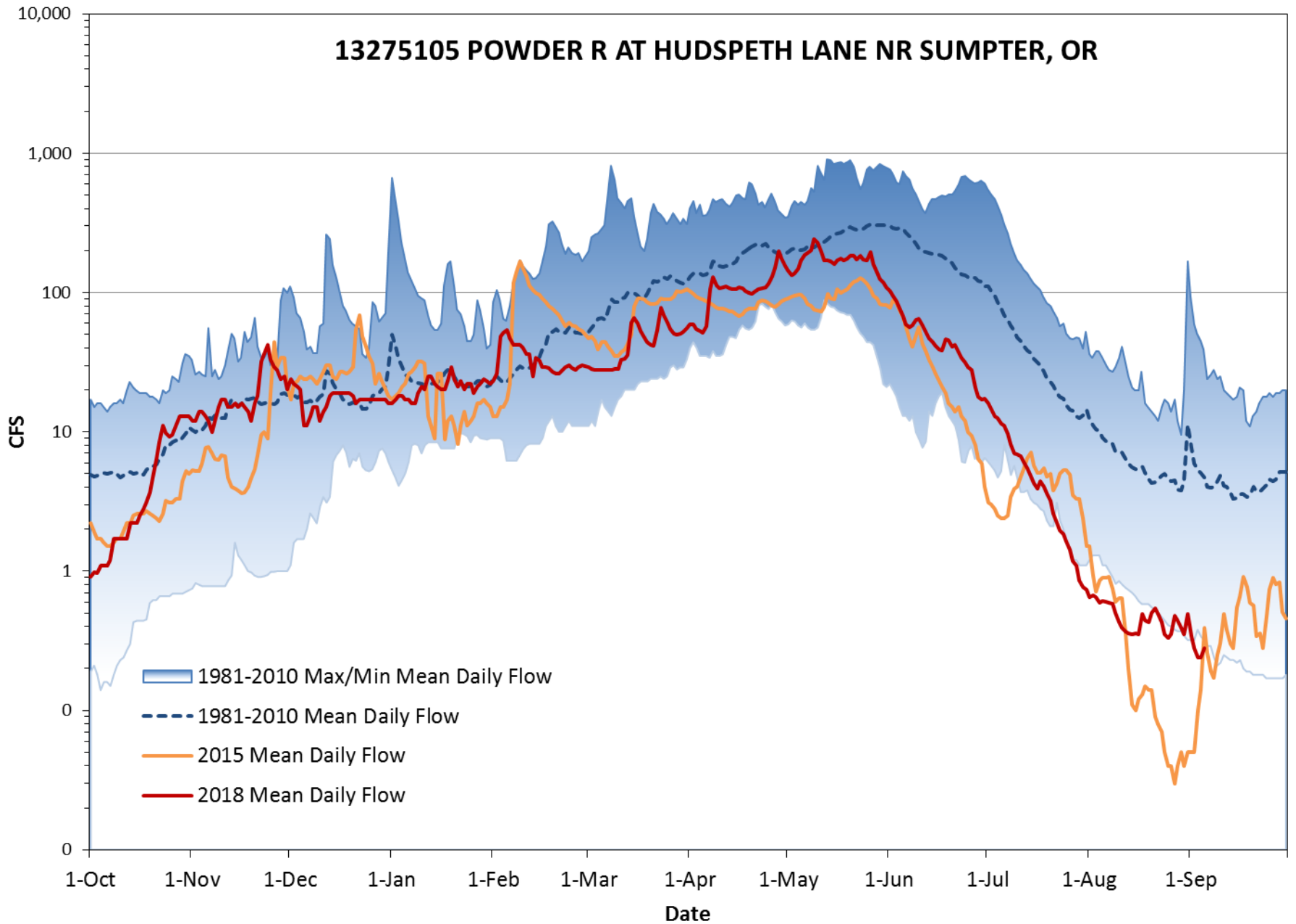
14306500 ALSEA R NR TIDEWATER, OR



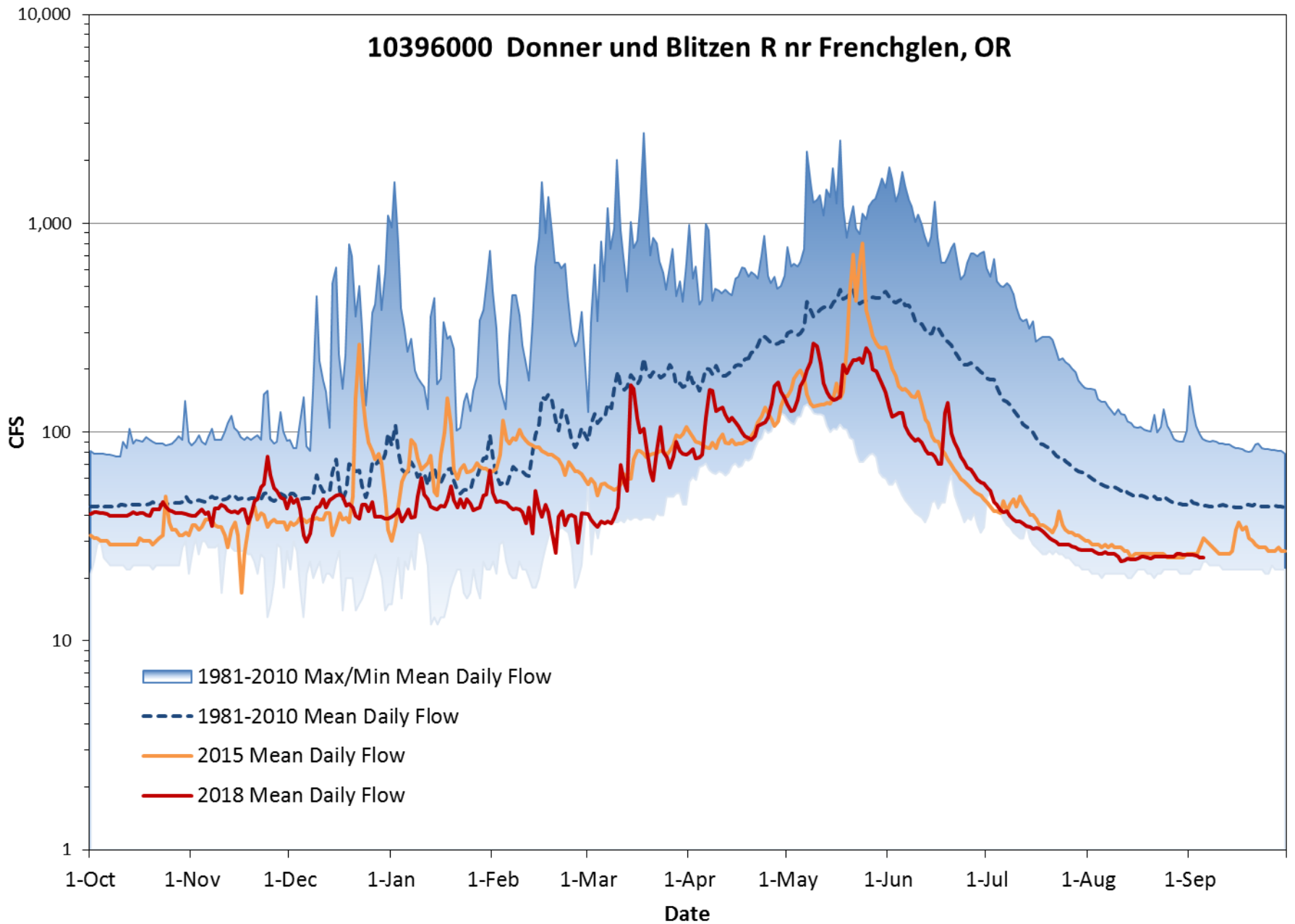
14021000 UMATILLA R AT PENDLETON, OR



13275105 POWDER R AT HUDSPETH LANE NR SUMPTER, OR






10396000 Donner und Blitzen R nr Frenchglen, OR



Drought Declaration Status

September 2018

Drought Declaration by

-  County Requested
-  Governor Declared
-  Not Rated



Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
www.oregon.gov/owrd

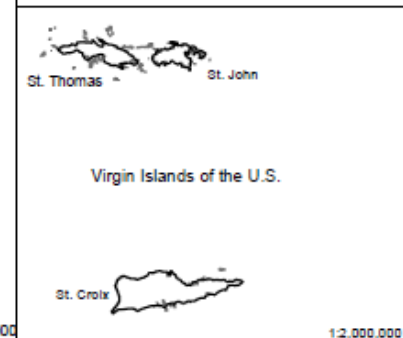
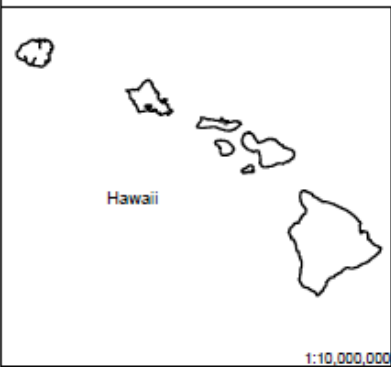
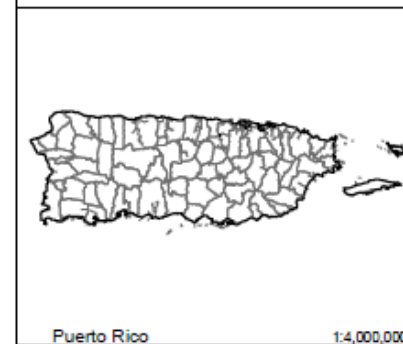
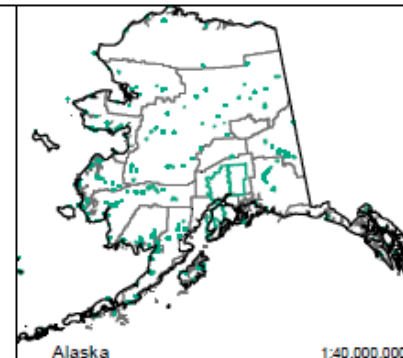
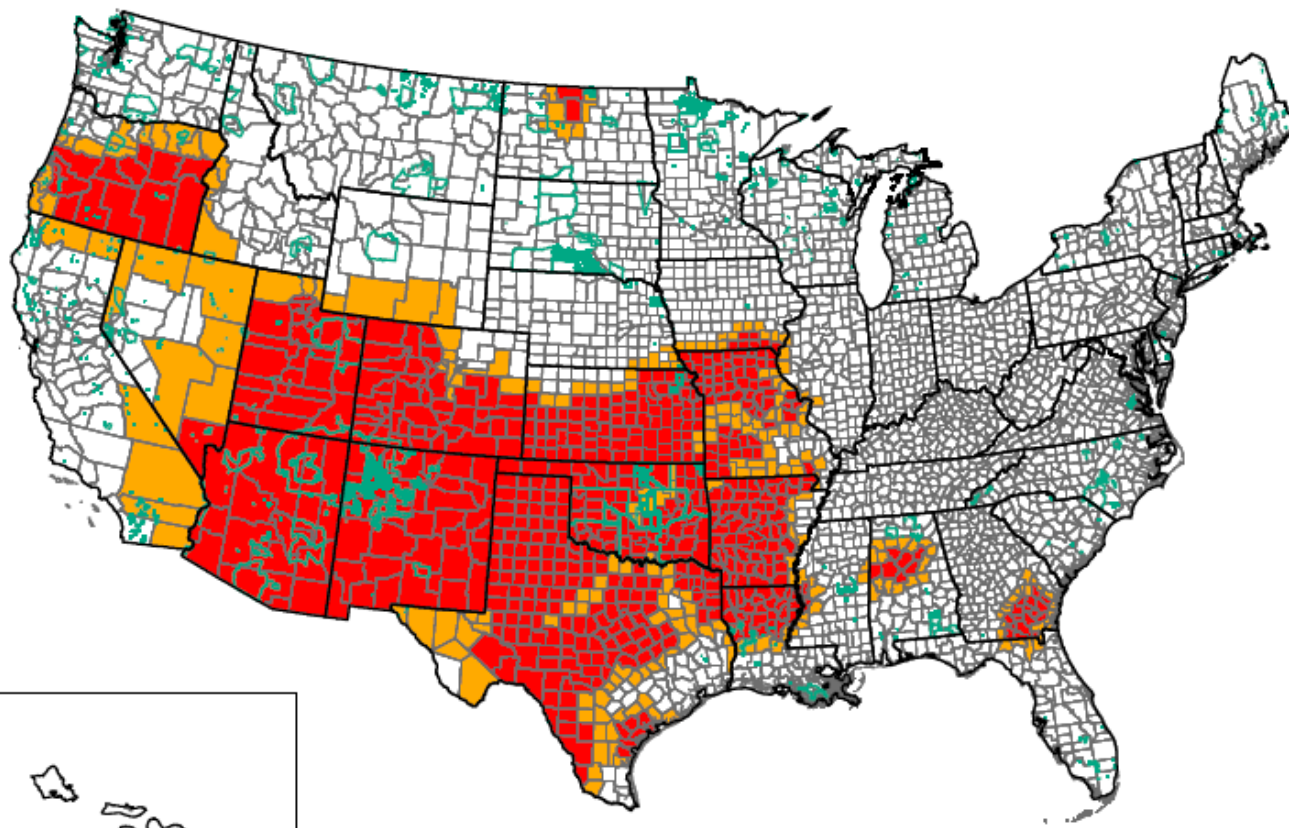
This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

0 20 40 60 80 100 Miles

Updated: 9/10/2018 12:01 PM
Projection: Oregon Lambert, NAD 83





Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

2018 Secretarial Drought Designations - All Drought



Secretarial Drought Designations for 2018

Disaster Incidents as of September 5, 2018

-  State Boundary
-  County Boundary
-  Tribal Lands
-  Primary Counties: 630
-  Contiguous Counties: 250



United States Department of Agriculture
Farm Service Agency
Production, Emergencies and Compliance Division
Washington, D.C.
September 5, 2018

1:25,000,000

1:2,000,000

OREGON



WATER RESOURCES
DEPARTMENT

Thank you.

RECLAMATION

Managing Water in the West

**Oregon Water Supply Availability
Committee Meeting
August 7, 2018**

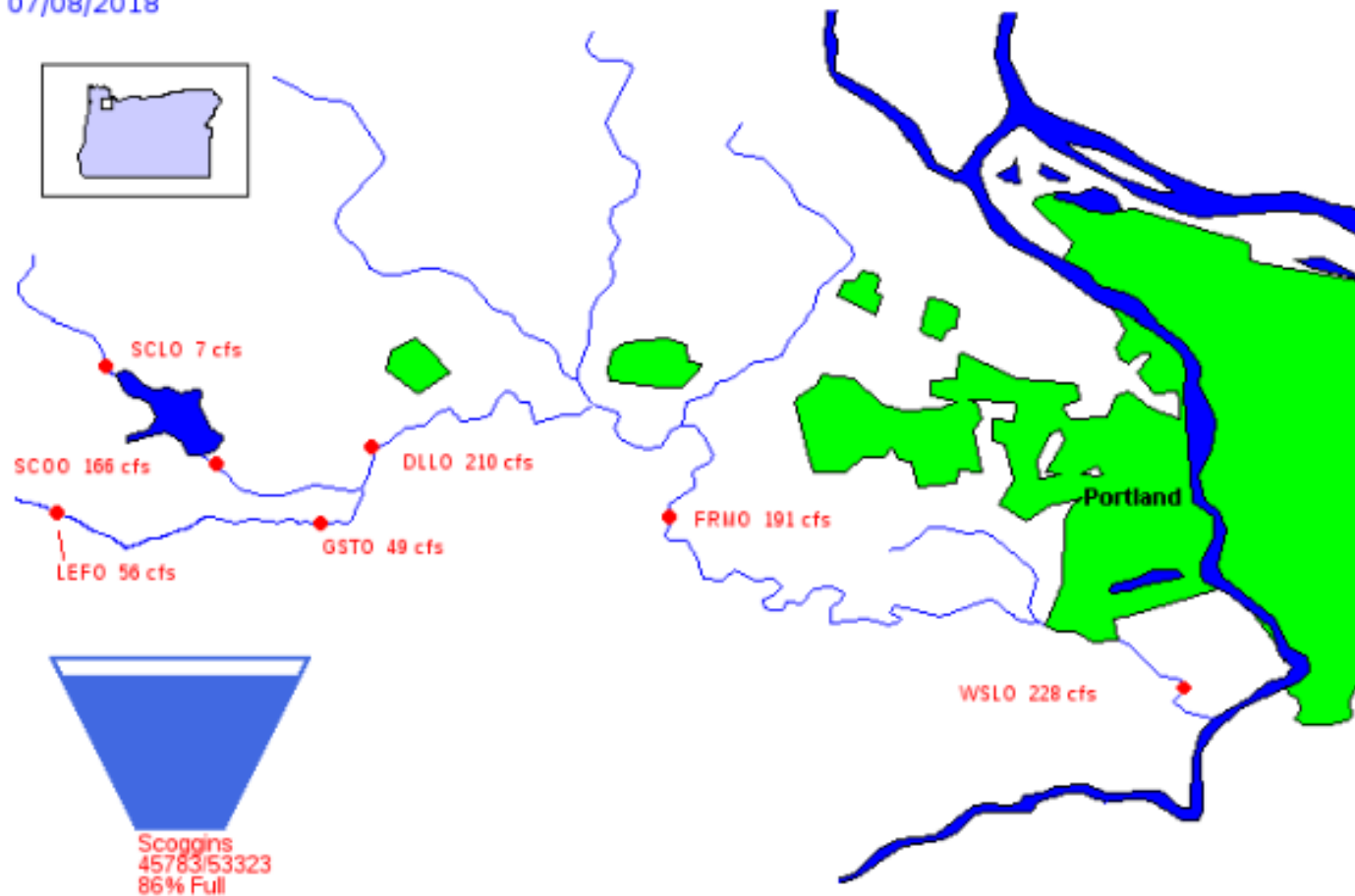
**Peter Cooper
PN Region RRO**



U.S. Department of the Interior
Bureau of Reclamation

Bureau of Reclamation, Pacific Northwest Region Tualatin River Basin Storage and Flow Diagram

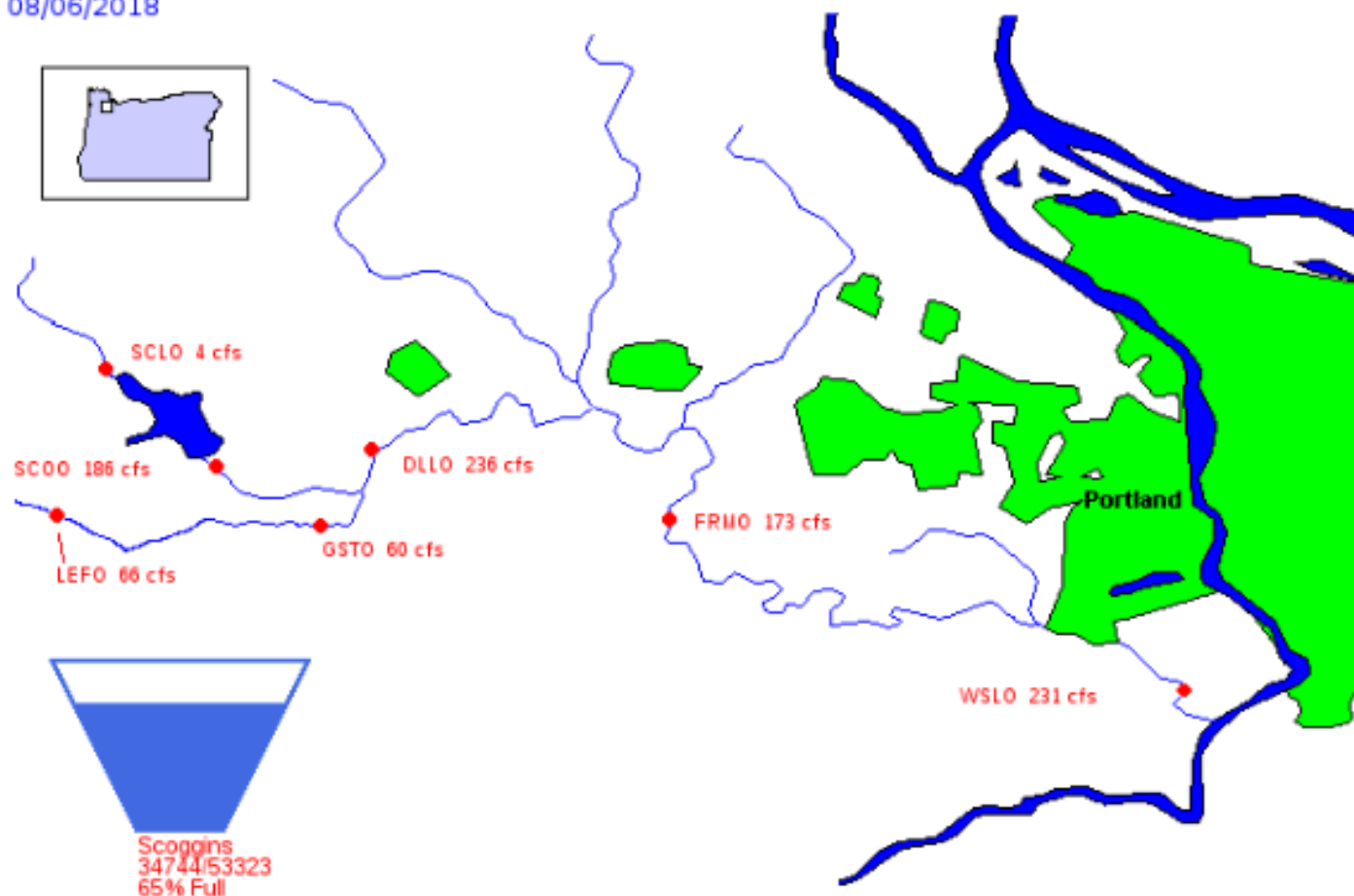
07/08/2018



RECLAMATION

Bureau of Reclamation, Pacific Northwest Region Tualatin River Basin Storage and Flow Diagram

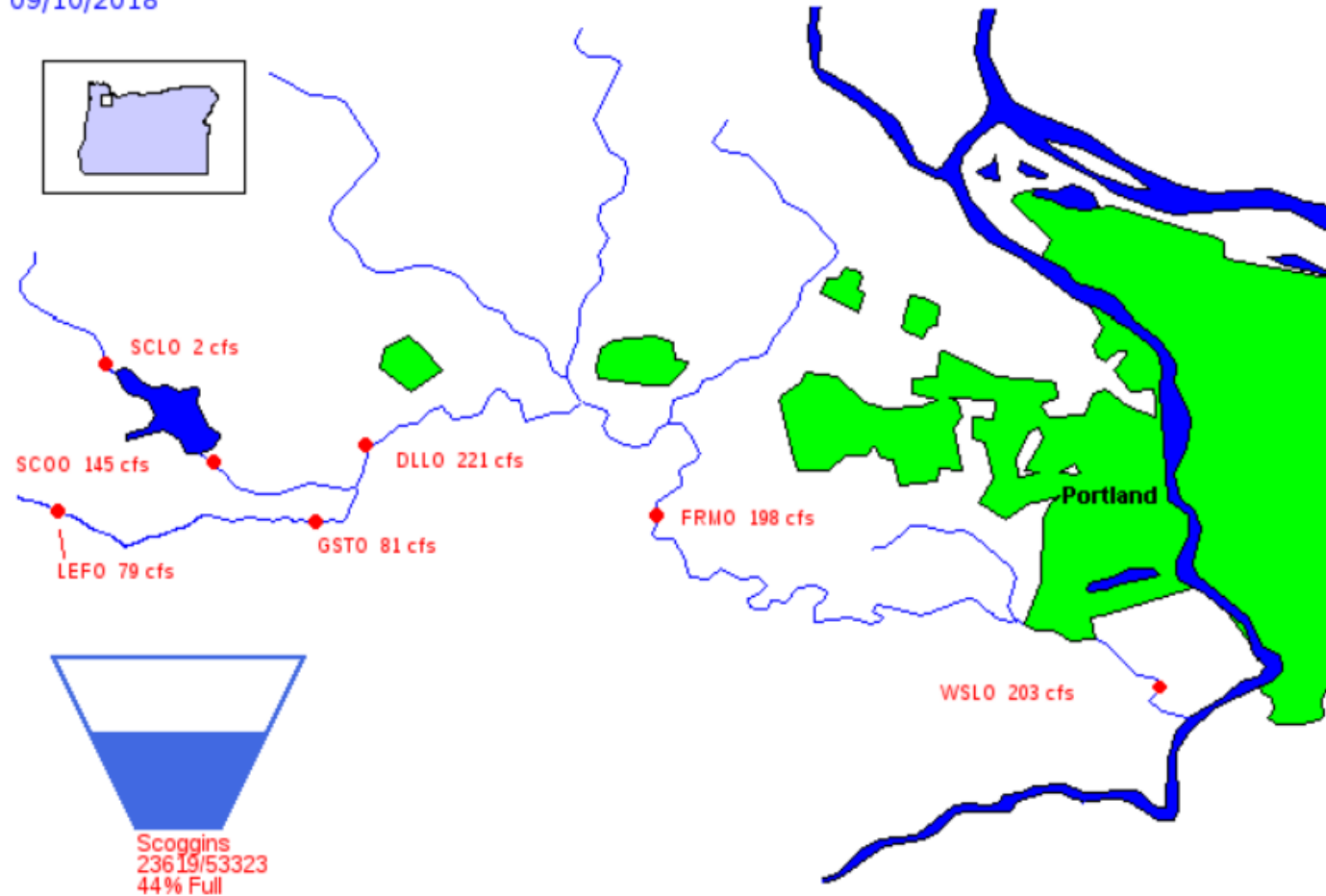
08/06/2018



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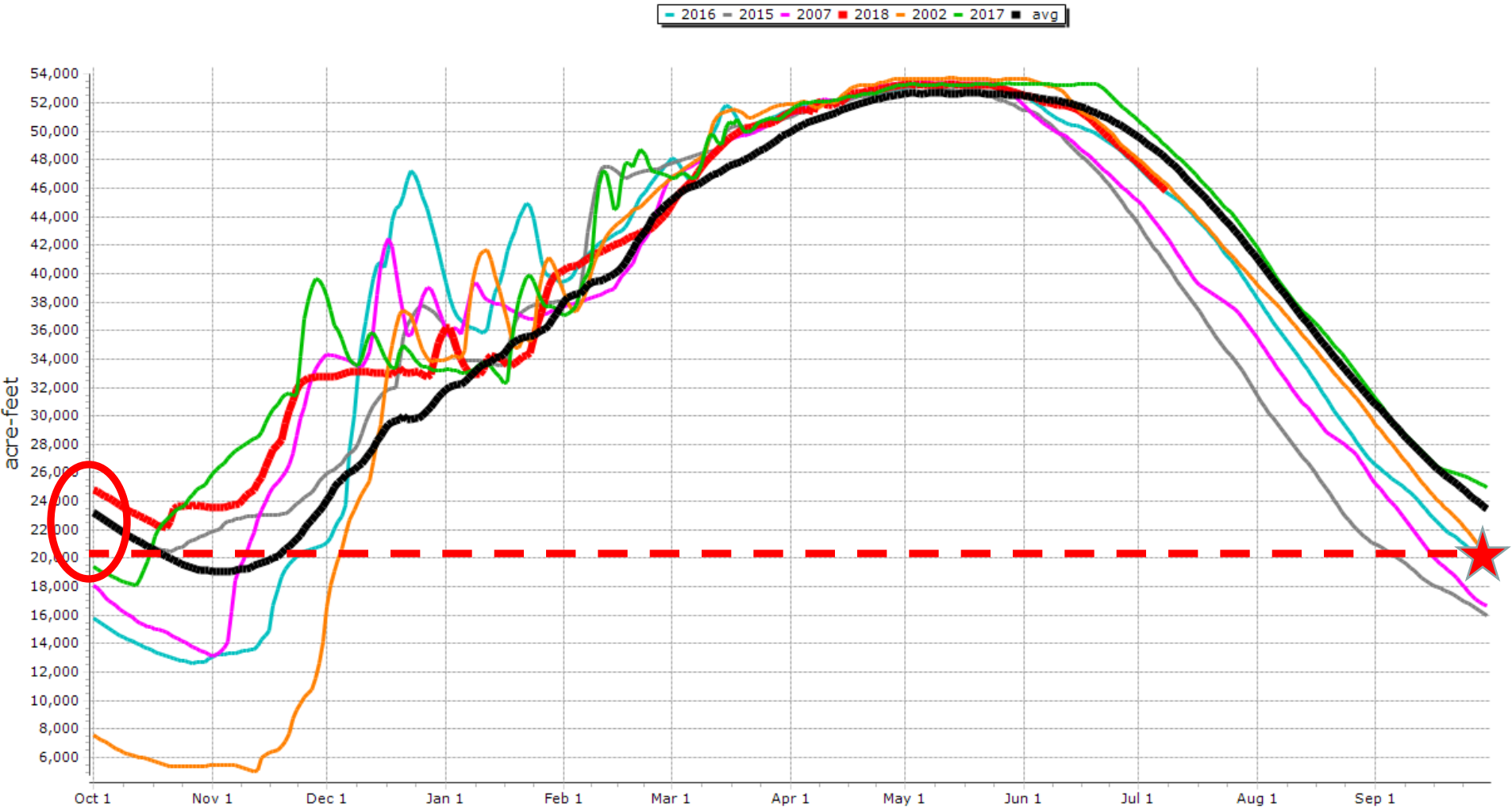
Bureau of Reclamation, Pacific Northwest Region Tualatin River Basin Storage and Flow Diagram

09/10/2018



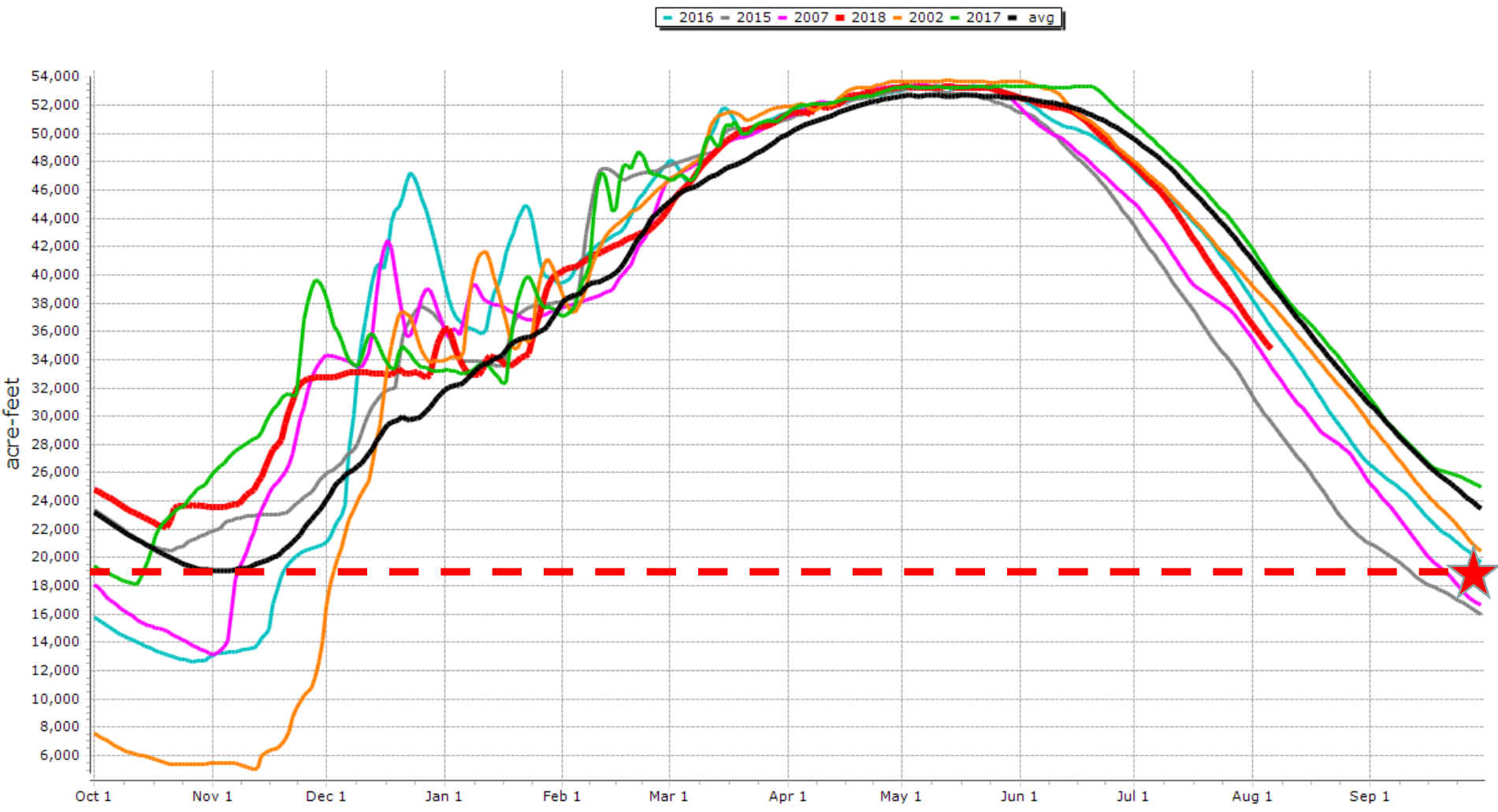
RECLAMATION

Scoggins Dam & Henry Hagg Lake nr Forest Grove, OR Elevation:200.0000



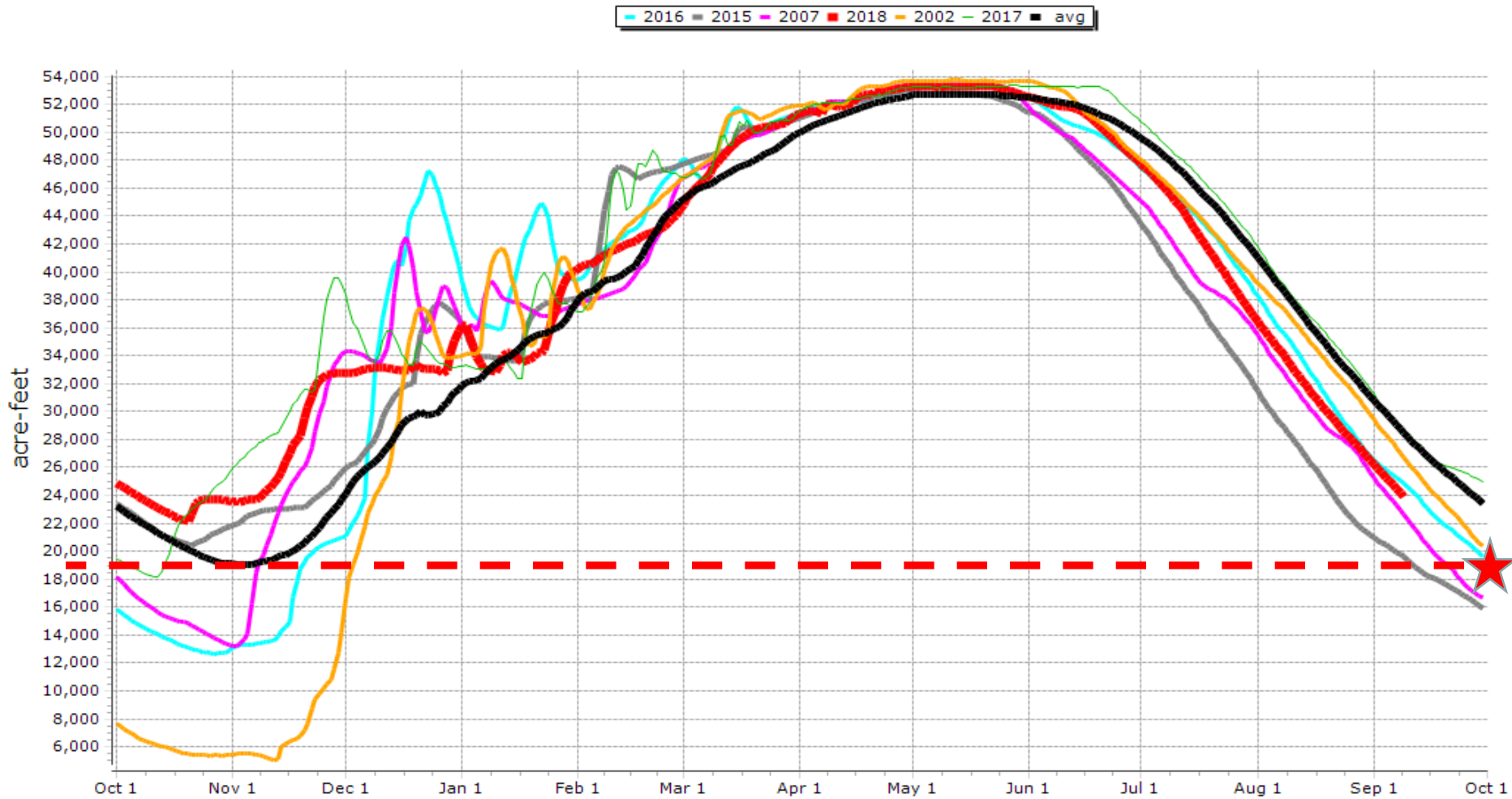
RECLAMATION

Scoggins Dam & Henry Hagg Lake nr Forest Grove, OR Elevation:200.0000



RECLAMATION

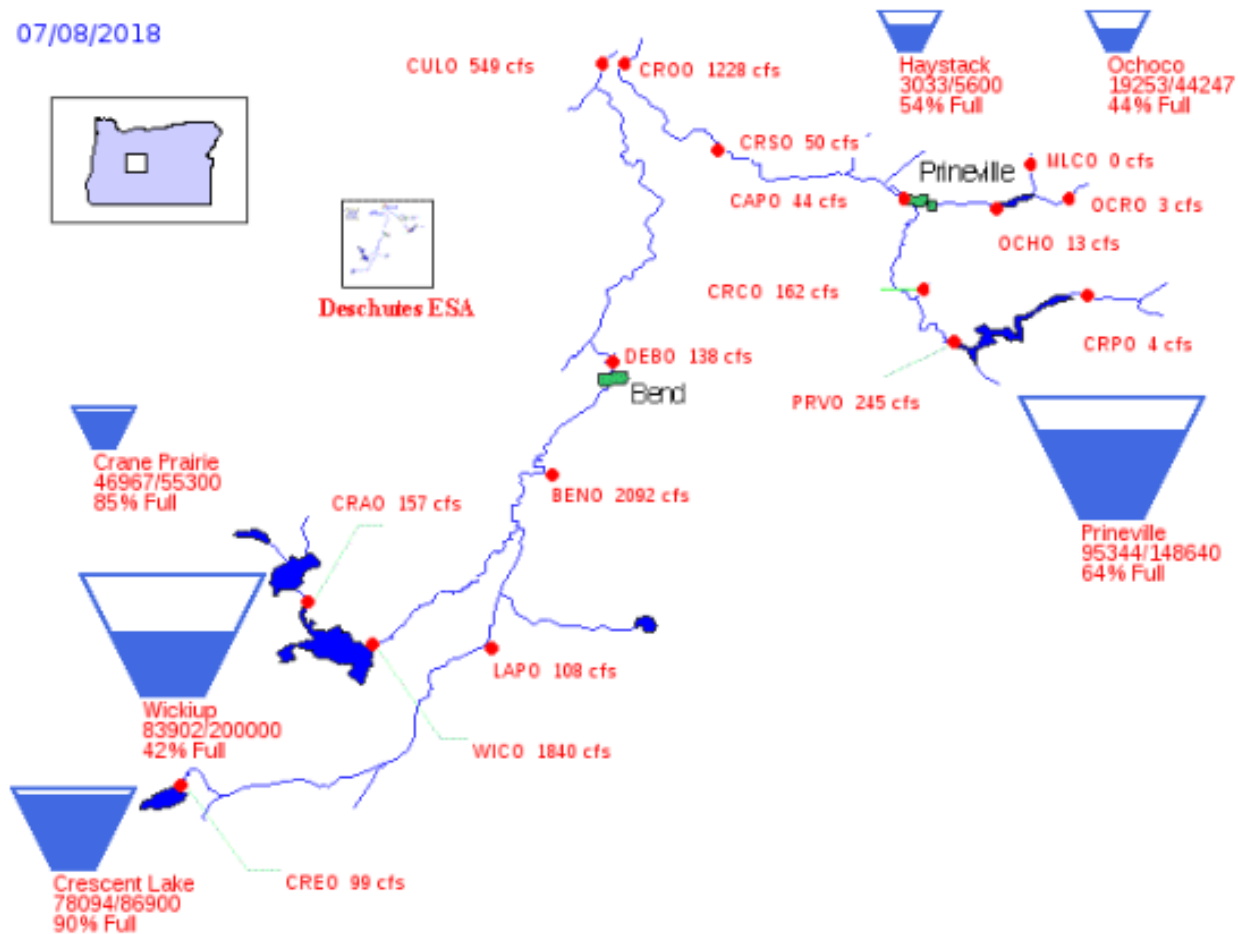
Scoggins Dam & Henry Hagg Lake nr Forest Grove, OR Elevation:200.0000



RECLAMATION

US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in the Deschutes River Basin

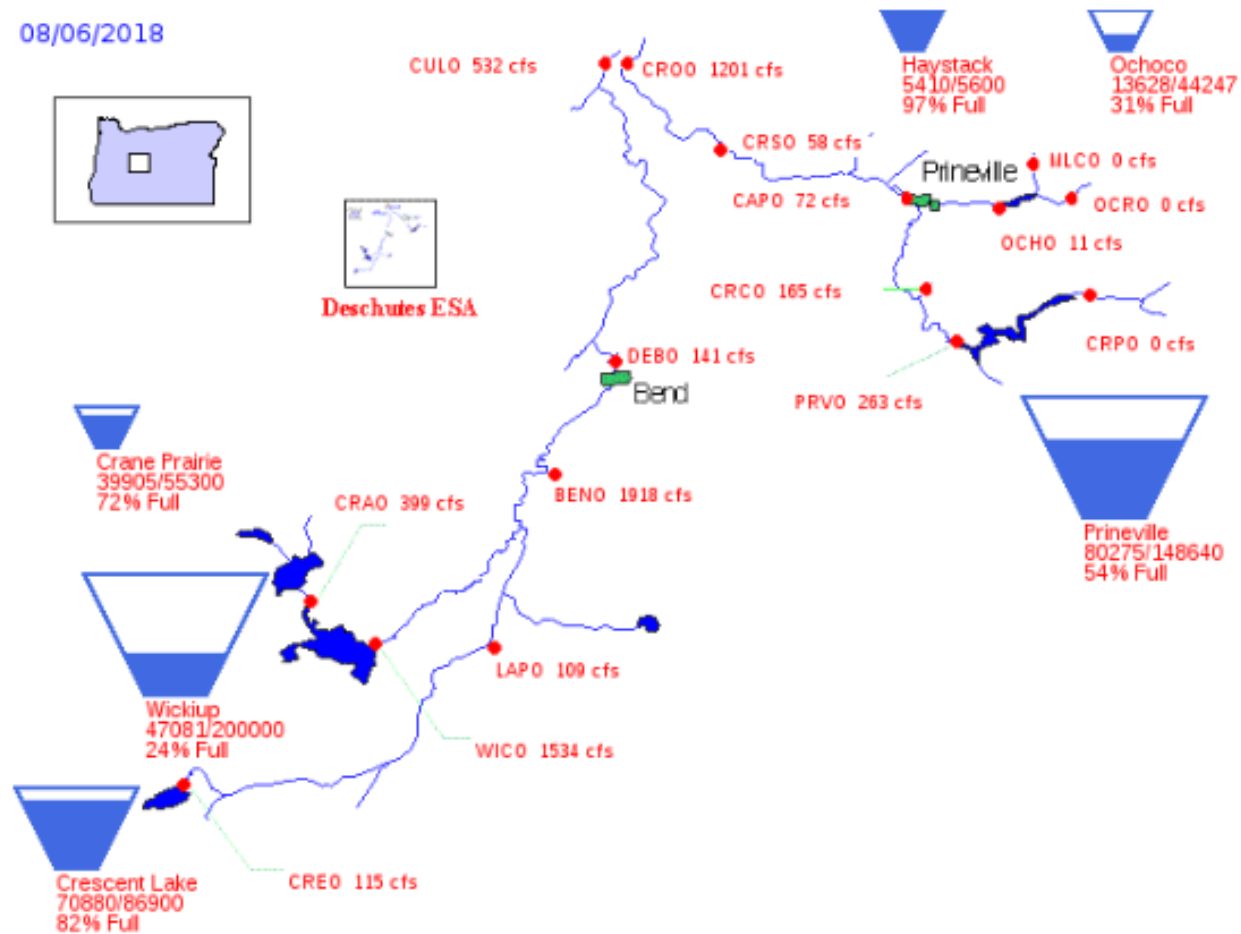
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US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in the Deschutes River Basin

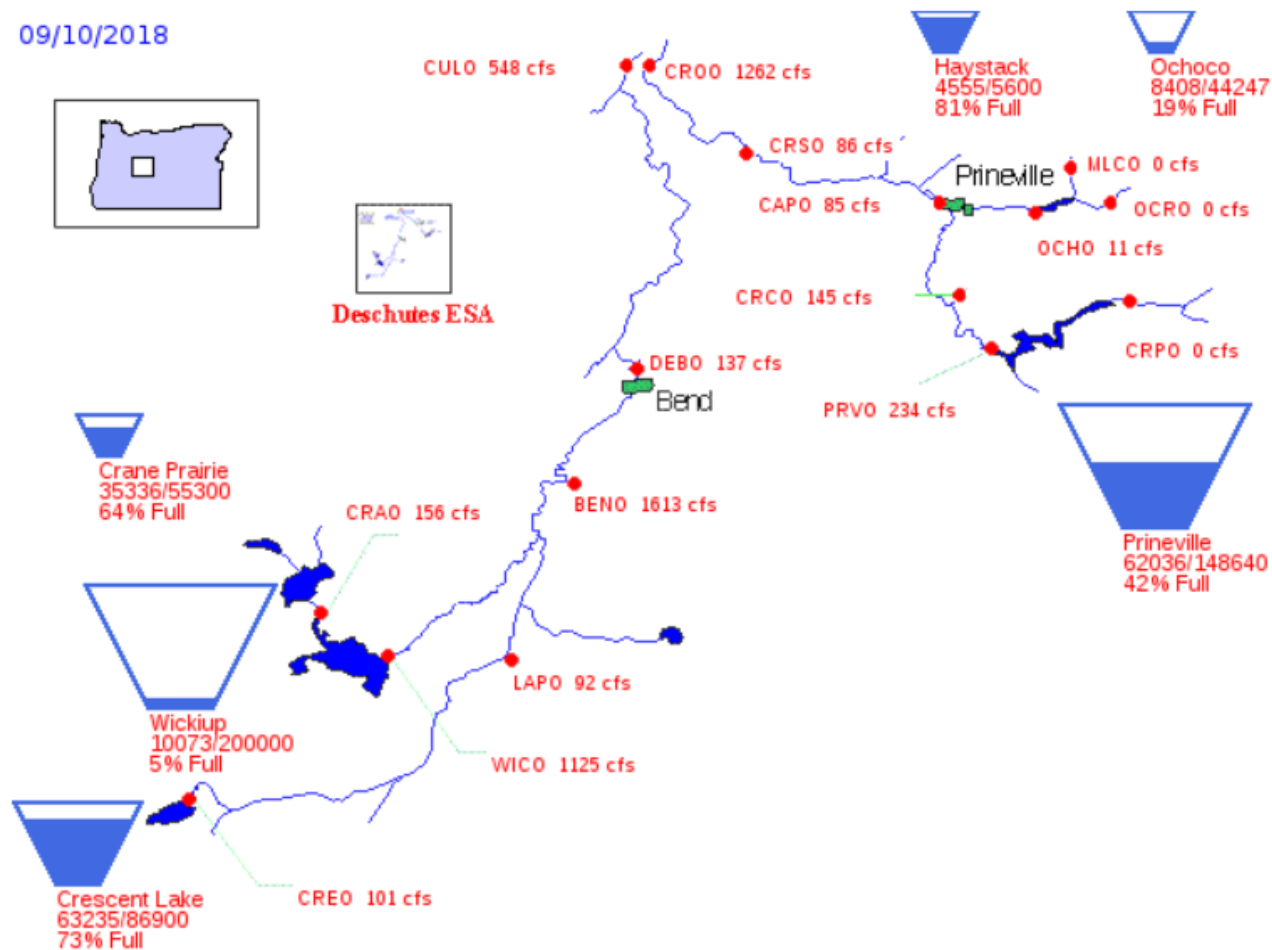
08/06/2018



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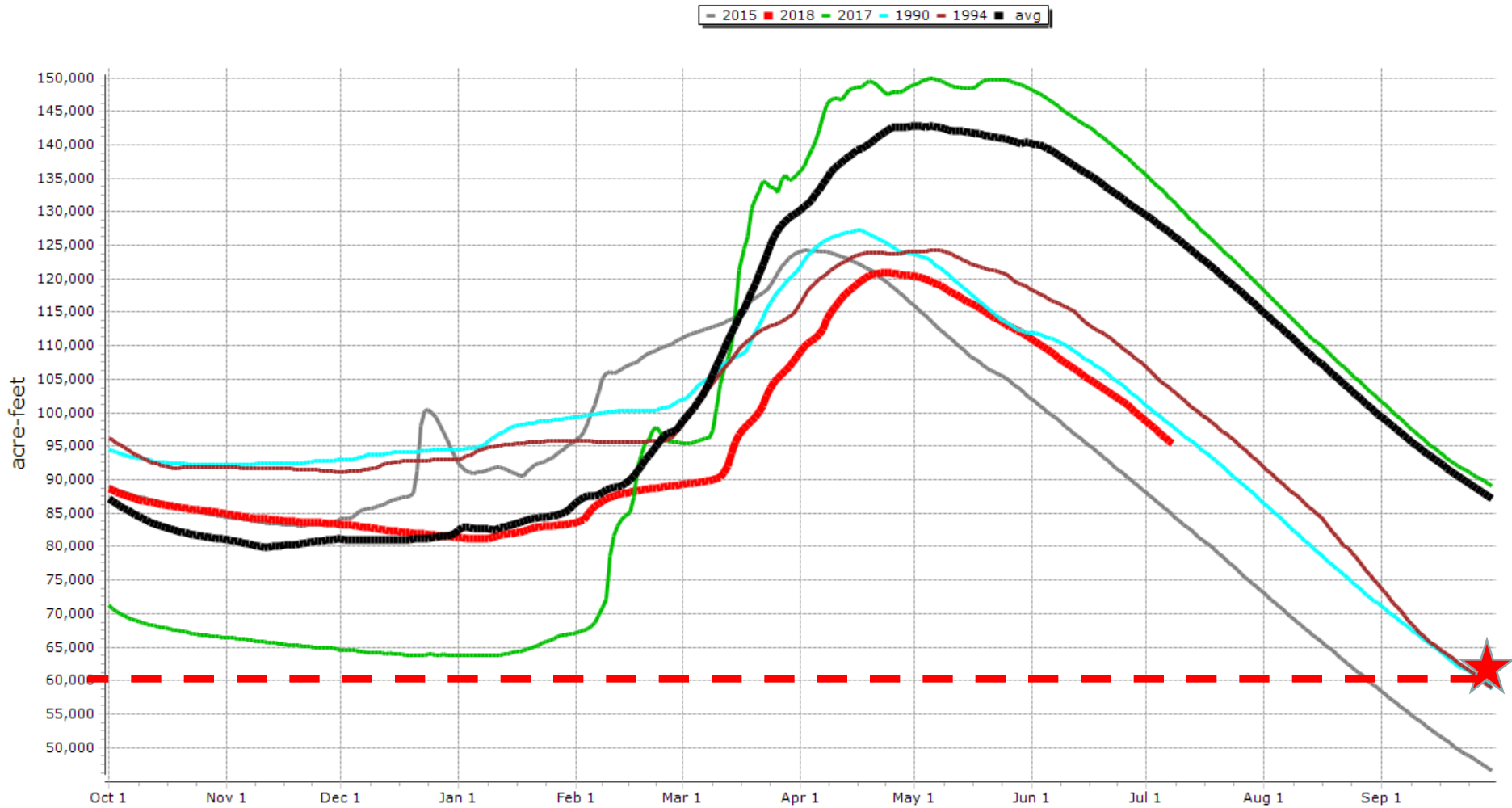
US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in the Deschutes River Basin

09/10/2018



RECLAMATION

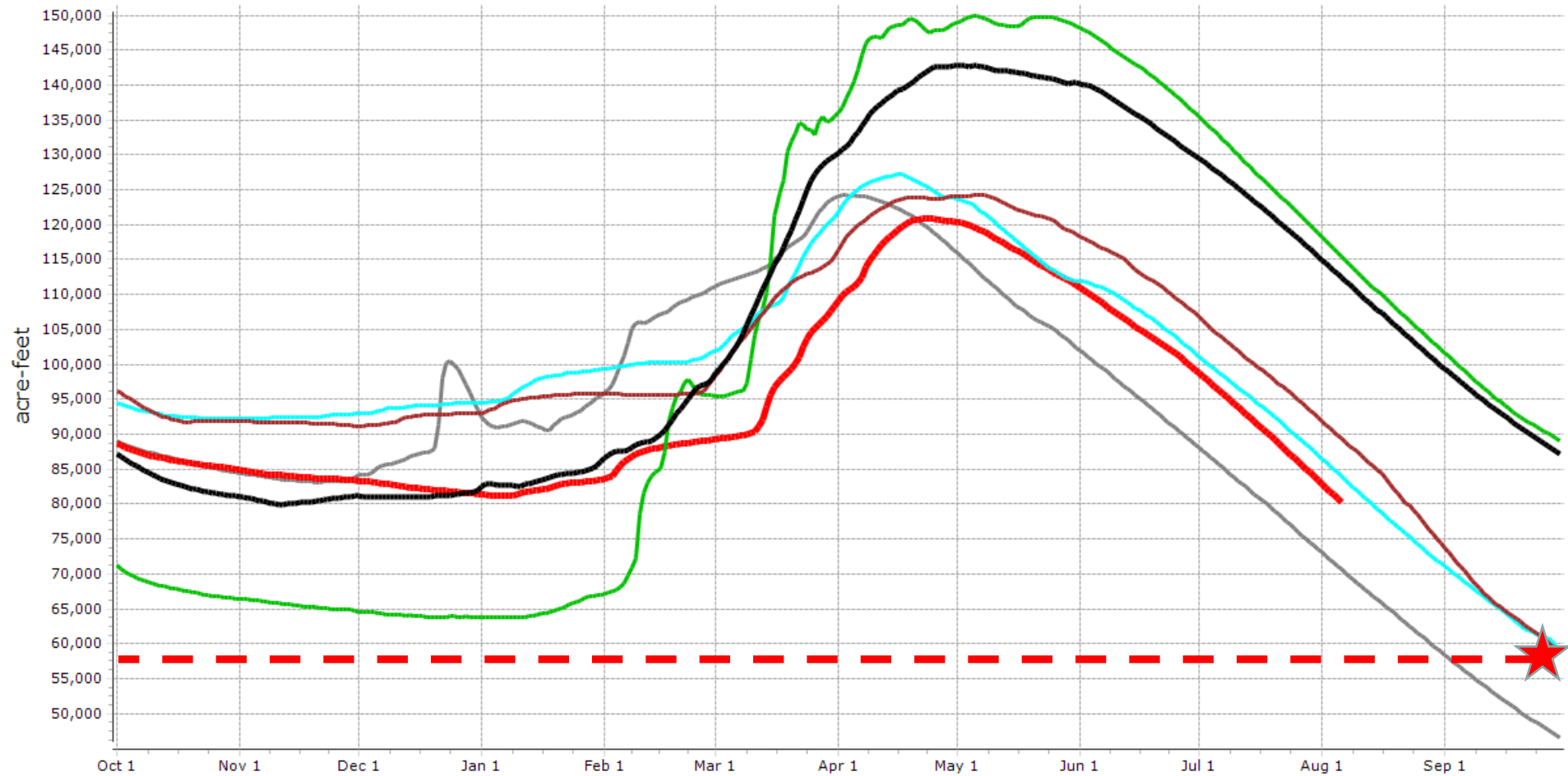
Prineville Reservoir nr Prineville, OR Elevation:3264.000



RECLAMATION

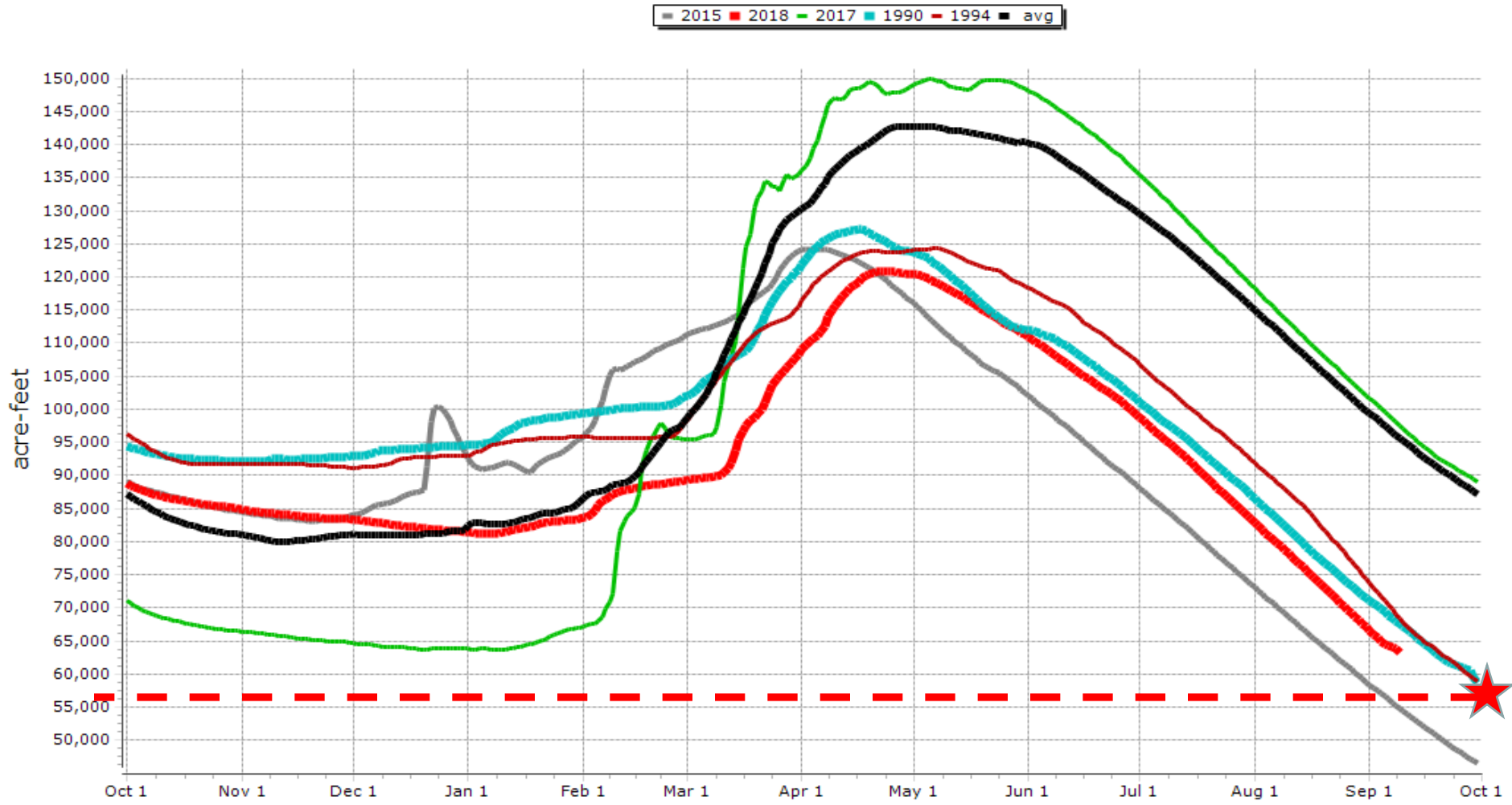
Prineville Reservoir nr Prineville, OR Elevation:3264.000

2015 2018 2017 1990 1994 avg



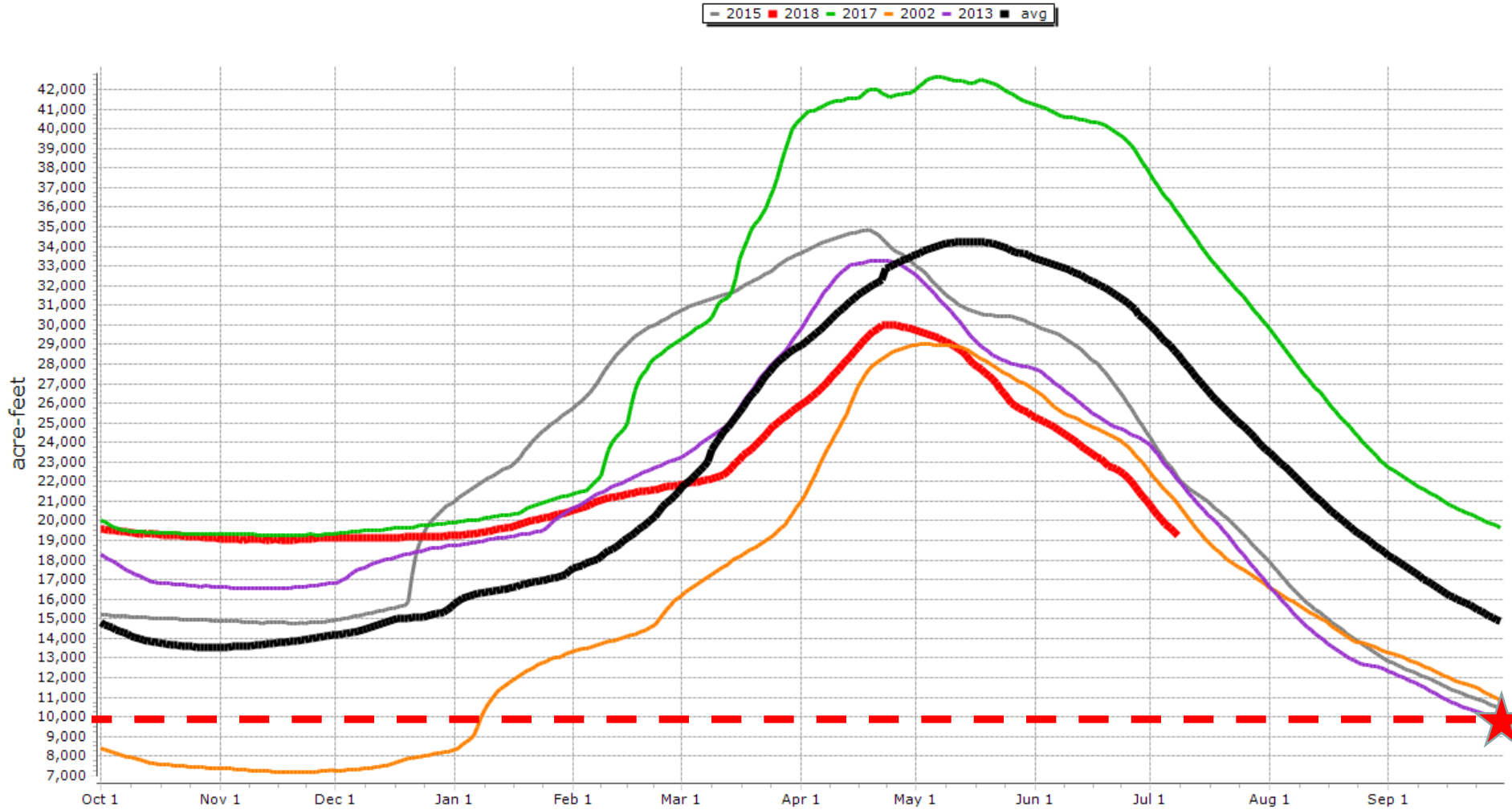
RECLAMATION

Prineville Reservoir nr Prineville, OR Elevation:3264.000



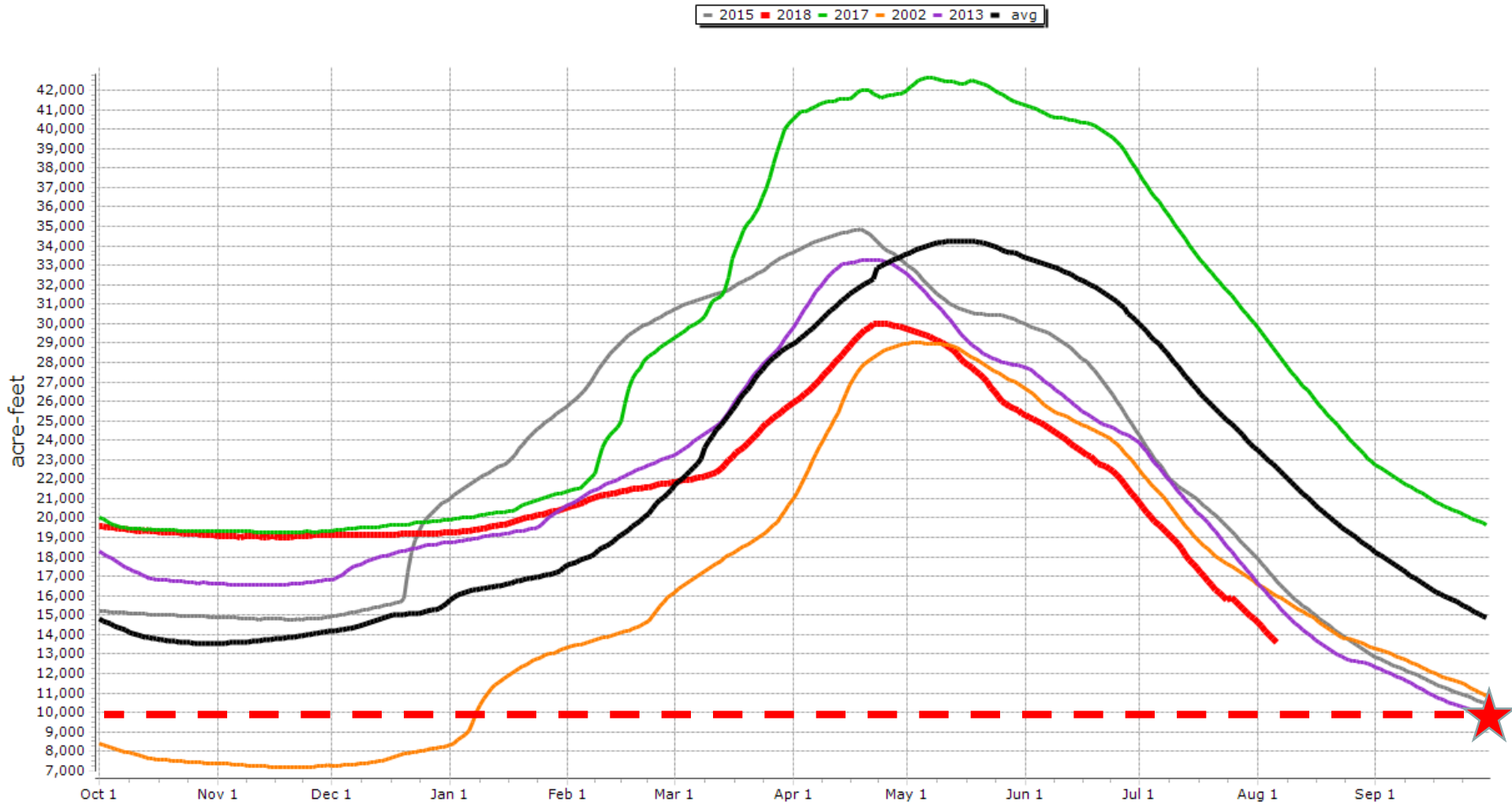
RECLAMATION

Ochoco Reservoir near Prineville, OR Elevation:3143.000



RECLAMATION

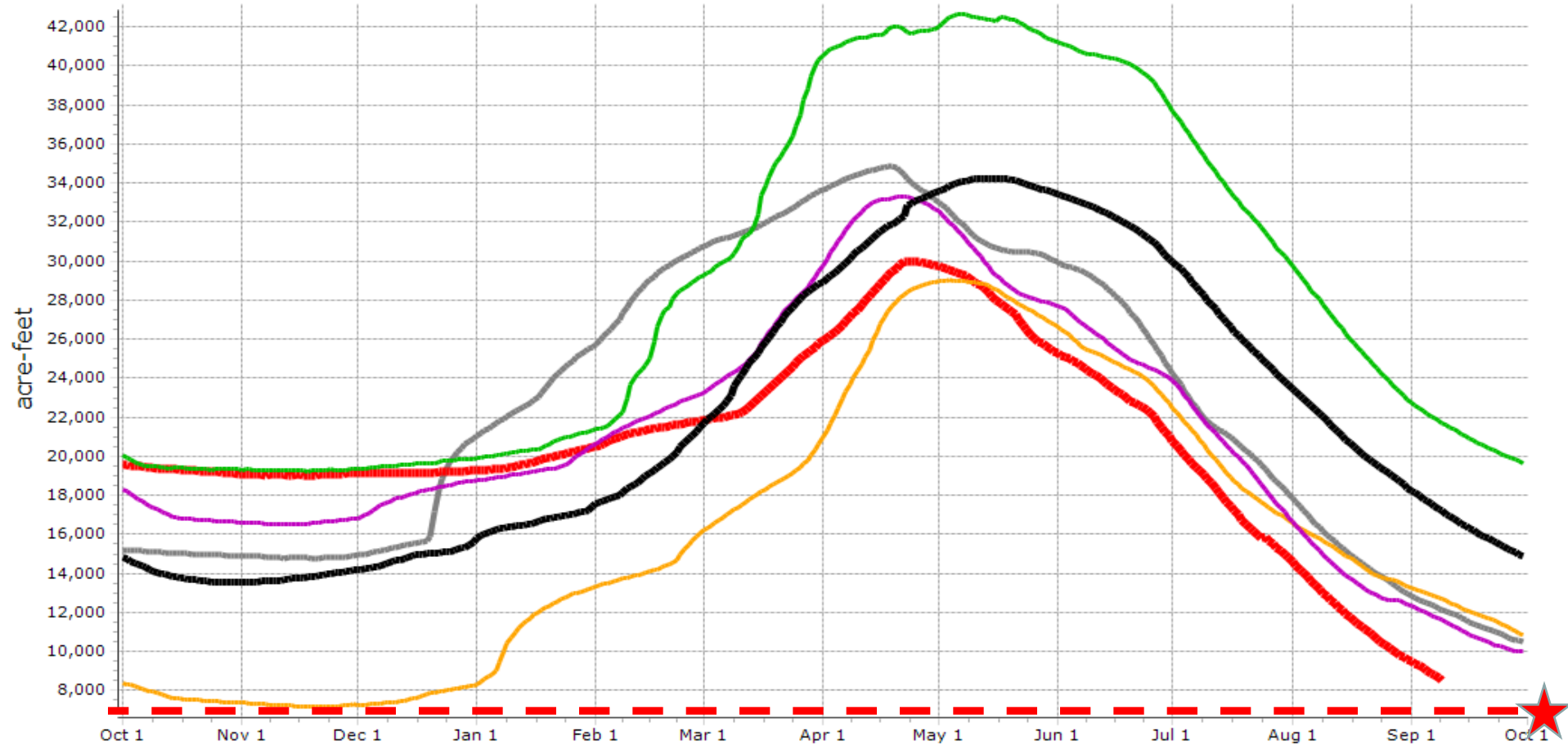
Ochoco Reservoir near Prineville, OR Elevation:3143.000



RECLAMATION

Ochoco Reservoir near Prineville, OR Elevation:3143.000

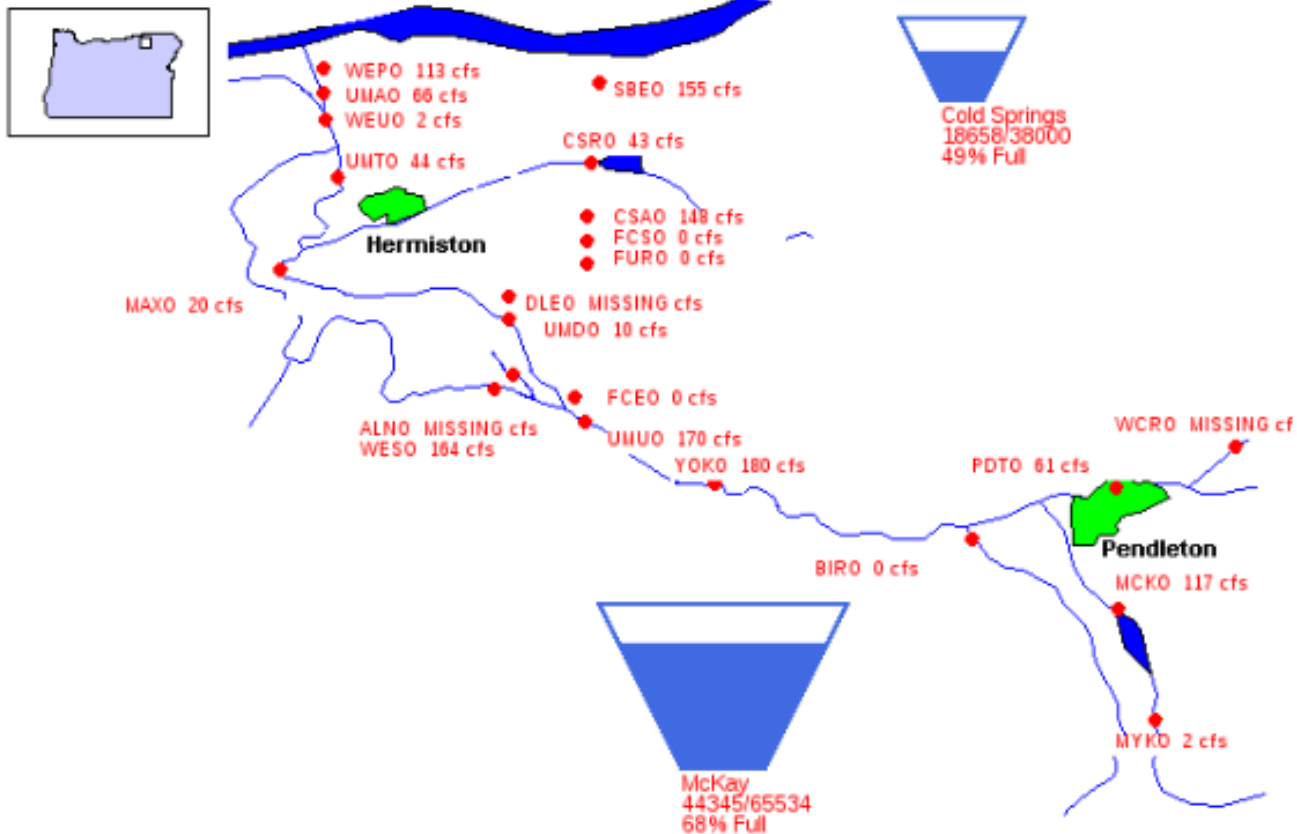
2015 2018 2017 2002 2013 avg



RECLAMATION

Bureau of Reclamation, Pacific Northwest Region Umatilla River Basin Storage and Flow Diagram

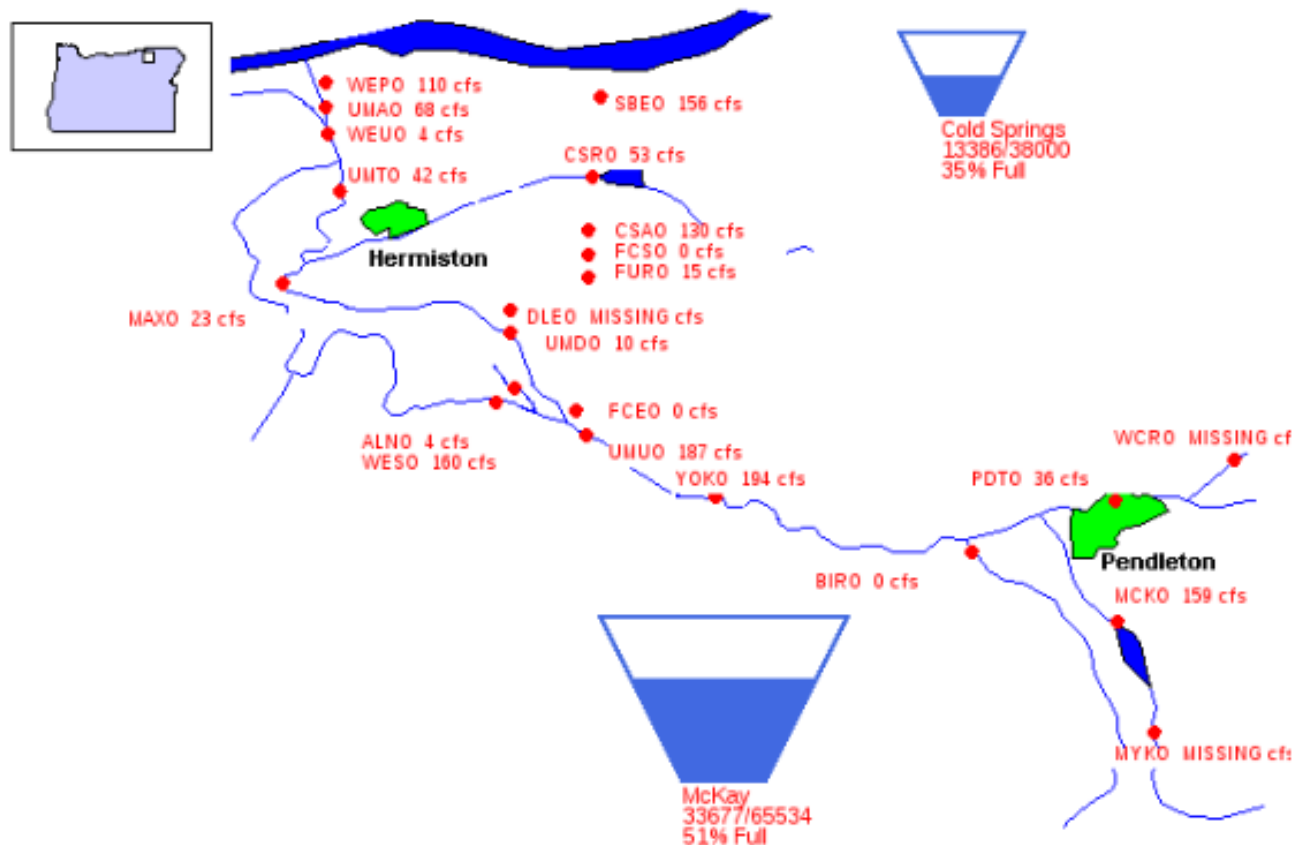
07/08/2018



RECLAMATION

Bureau of Reclamation, Pacific Northwest Region Umatilla River Basin Storage and Flow Diagram

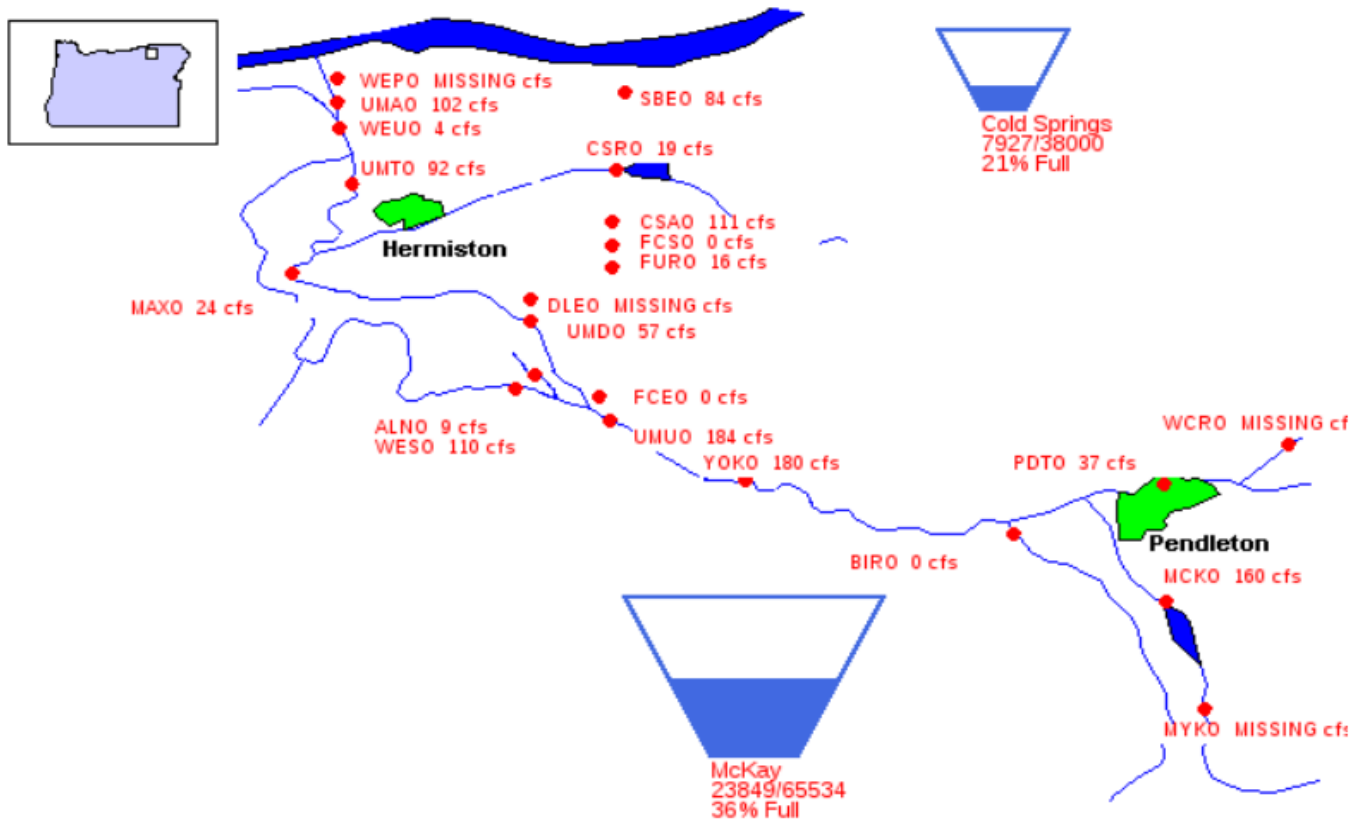
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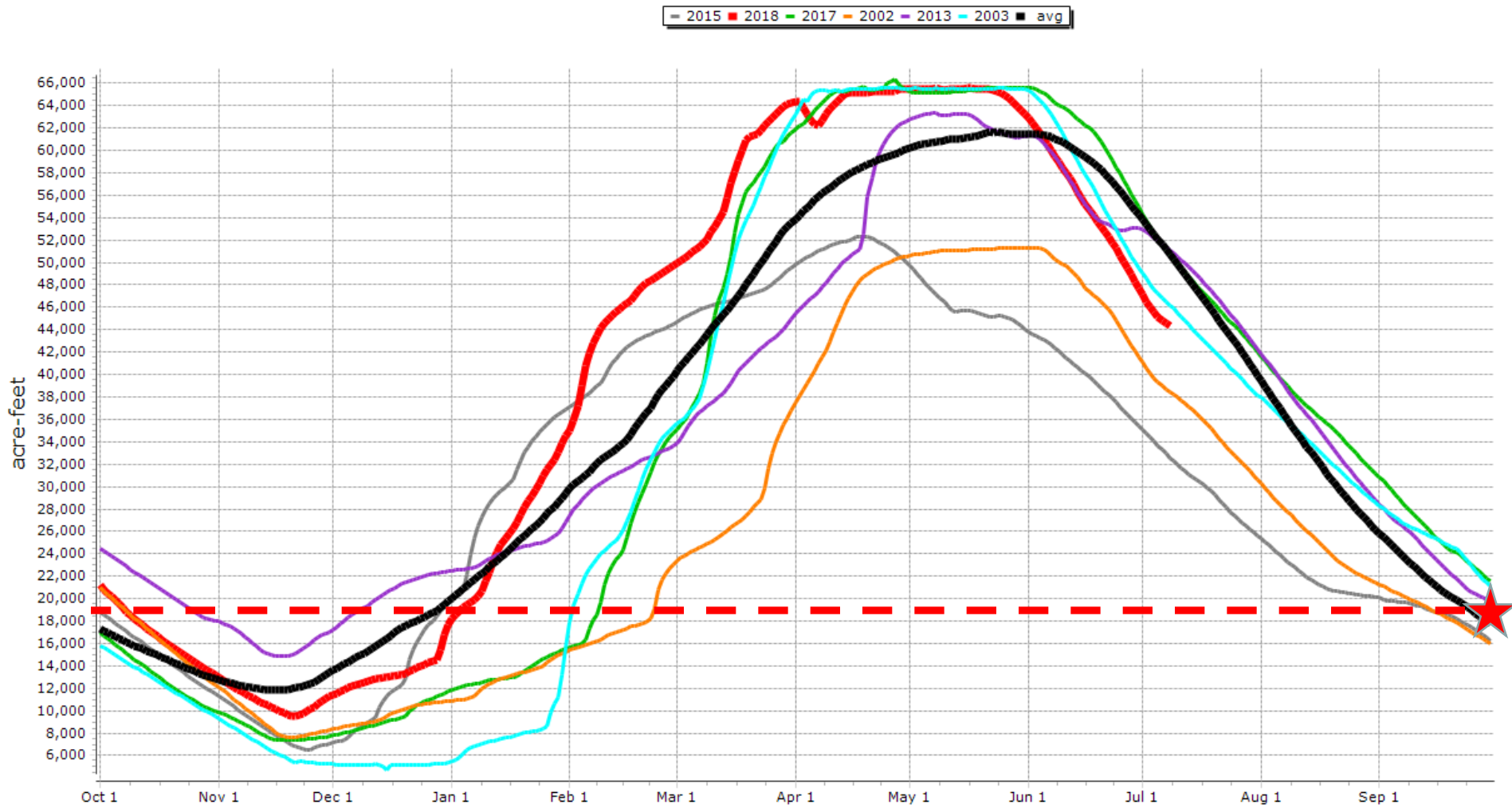
Bureau of Reclamation, Pacific Northwest Region Umatilla River Basin Storage and Flow Diagram

09/10/2018



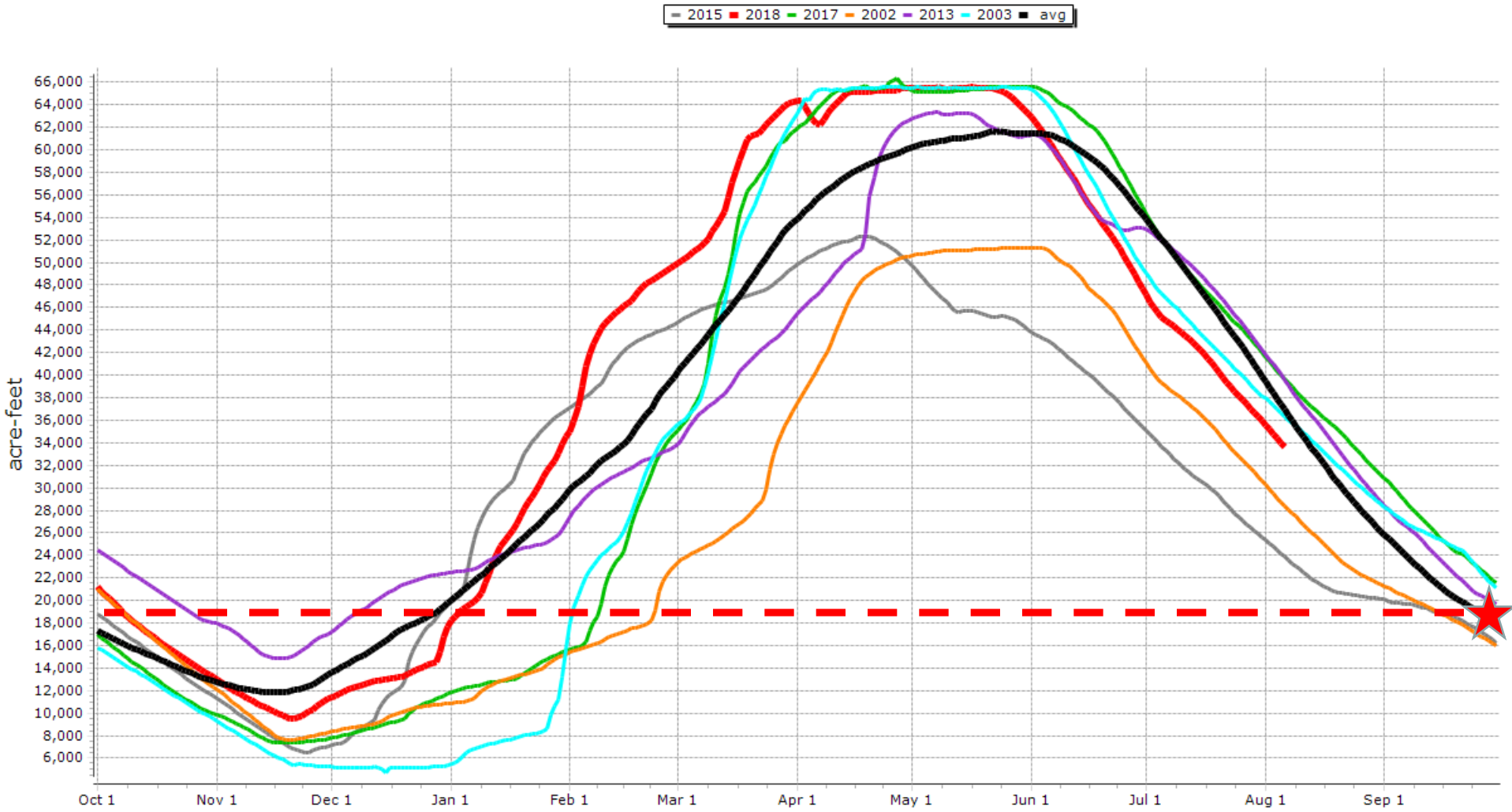
RECLAMATION

McKay Reservoir near Pendleton, OR Elevation:1333.000



RECLAMATION

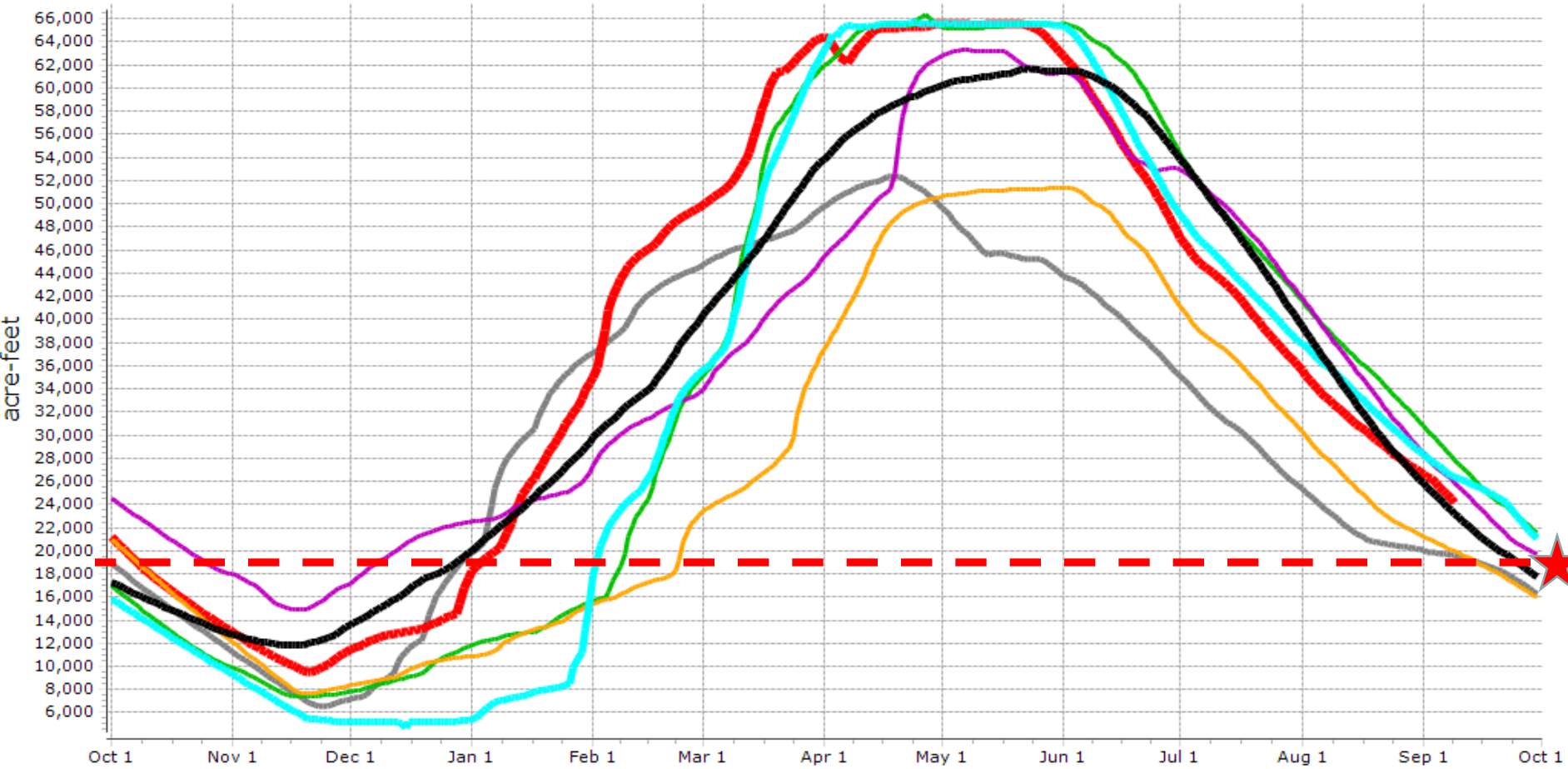
McKay Reservoir near Pendleton, OR Elevation:1333.000



RECLAMATION

McKay Reservoir near Pendleton, OR Elevation:1333.000

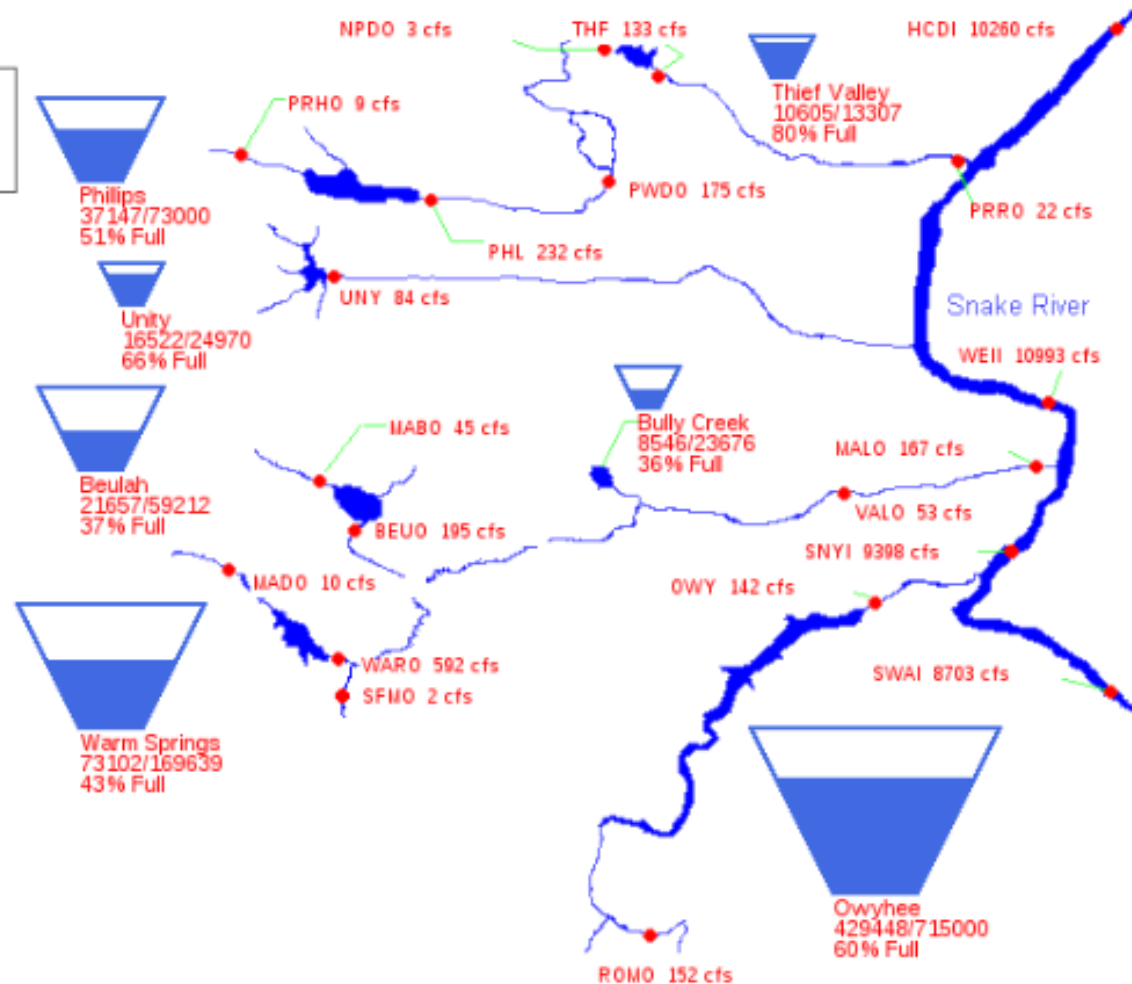
2015 2018 2017 2002 2013 2003 avg



RECLAMATION

US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in Southeastern Oregon

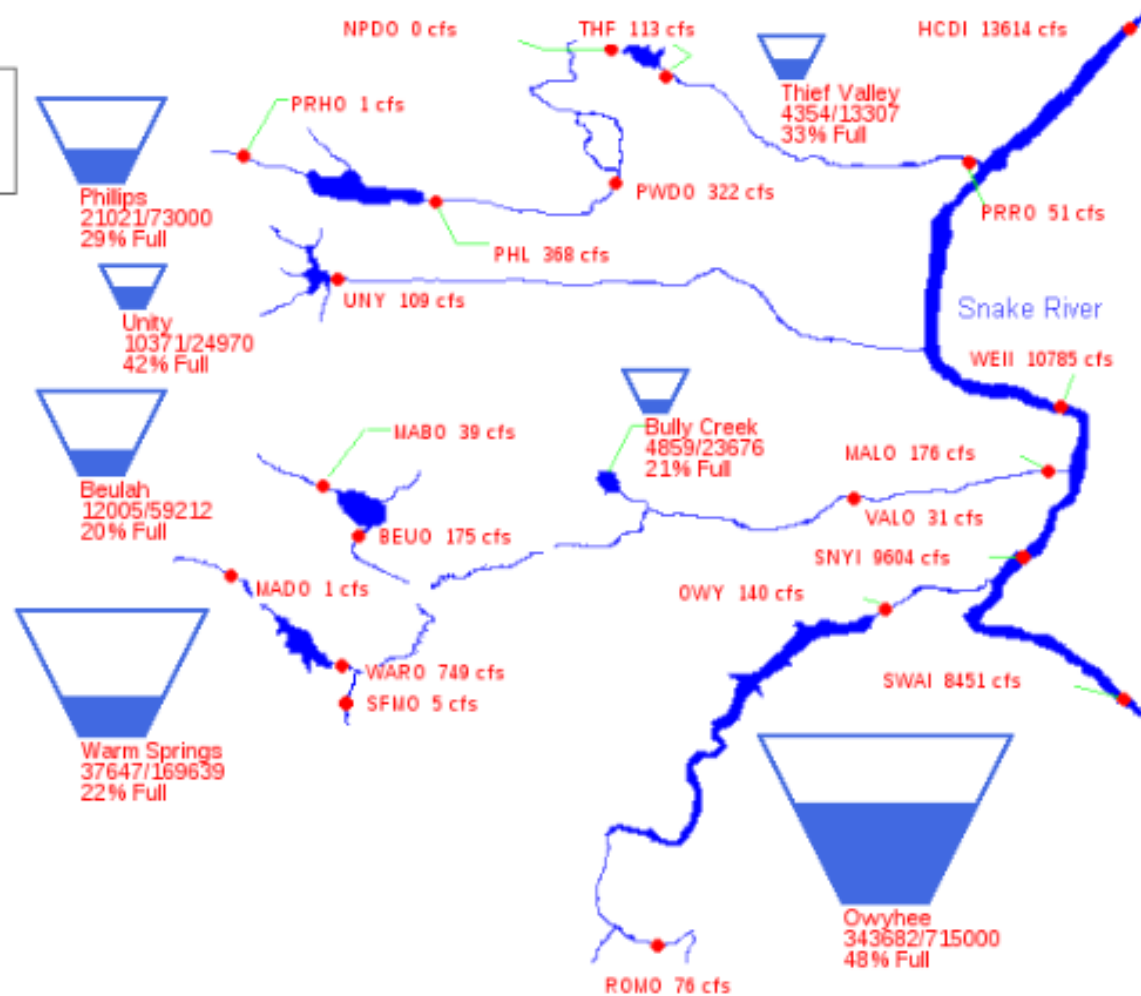
07/08/2018



RECLAMATION

US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in Southeastern Oregon

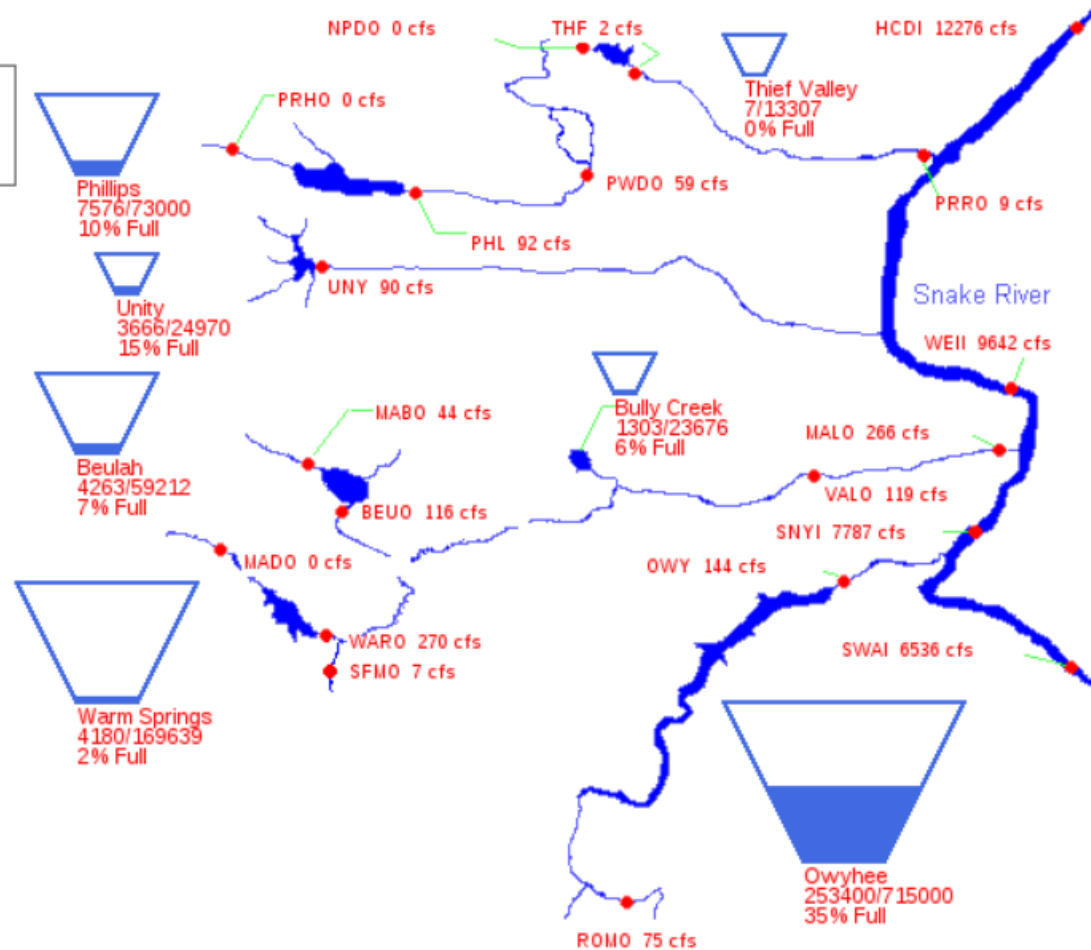
08/06/2018



RECLAMATION

US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in Southeastern Oregon

09/10/2018

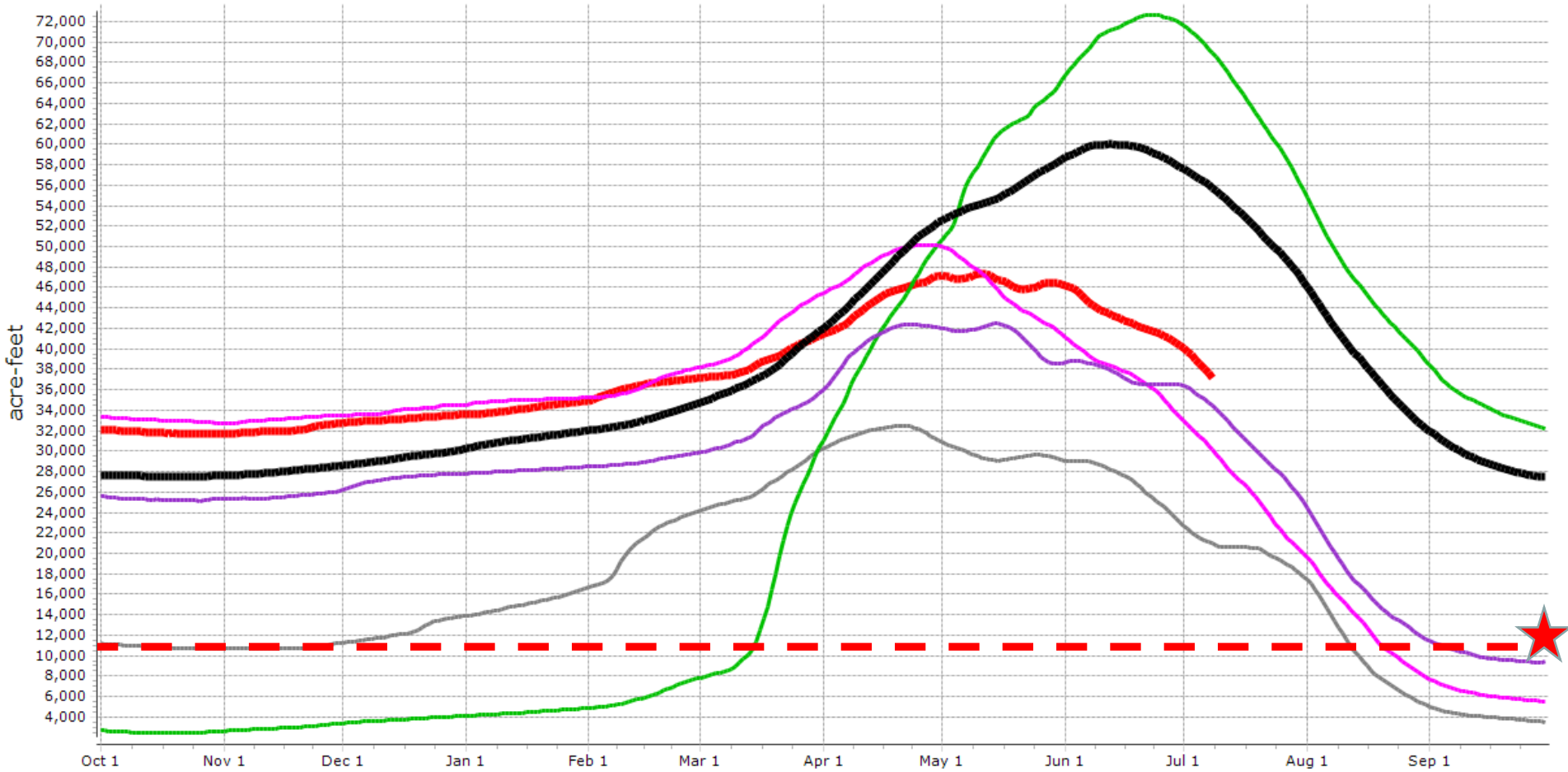


Baker

RECLAMATION

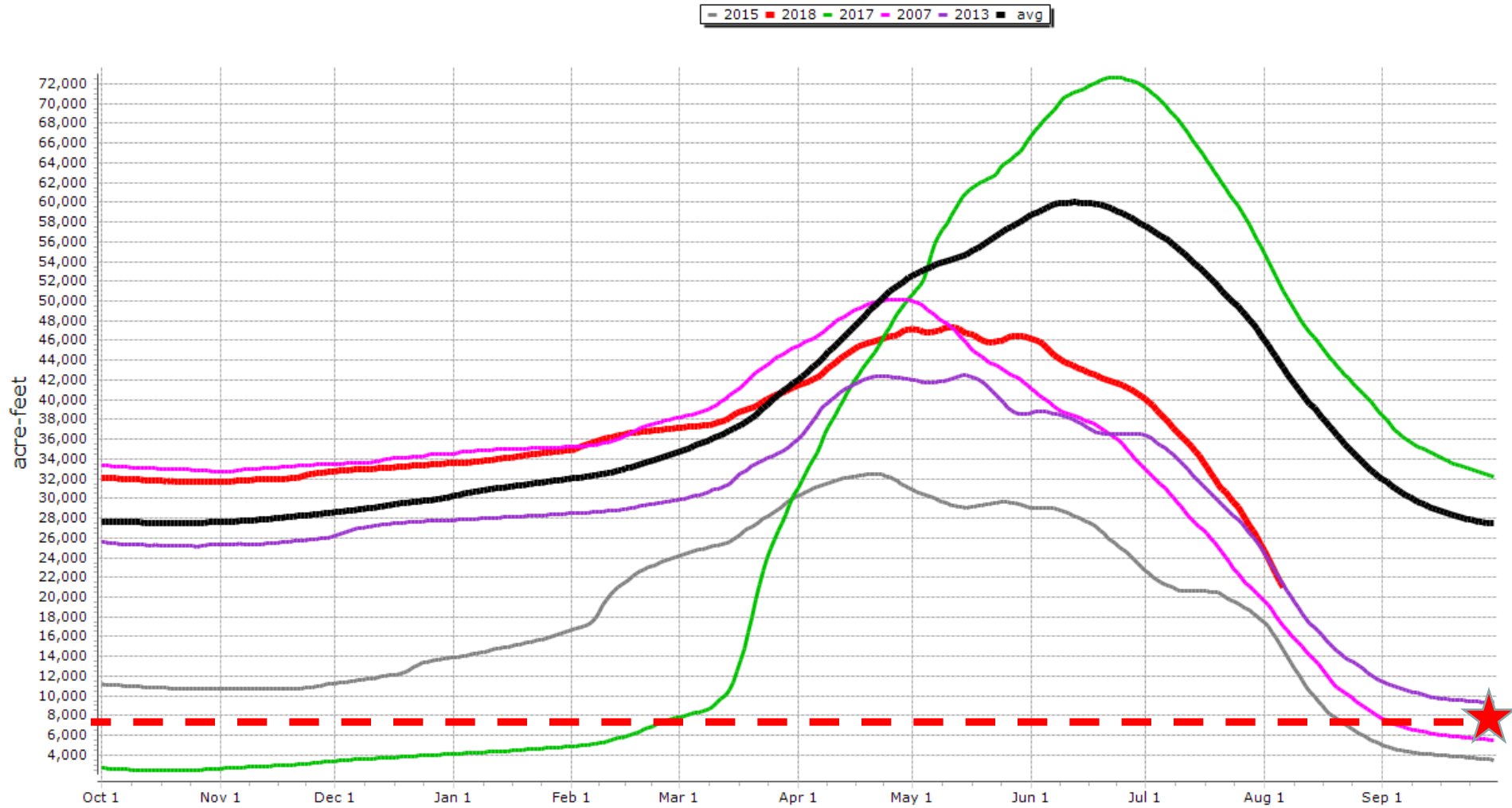
Mason Dam and Phillips Lake near Sumpter, OR Elevation:3898.000

2015 2018 2017 2007 2013 avg



RECLAMATION

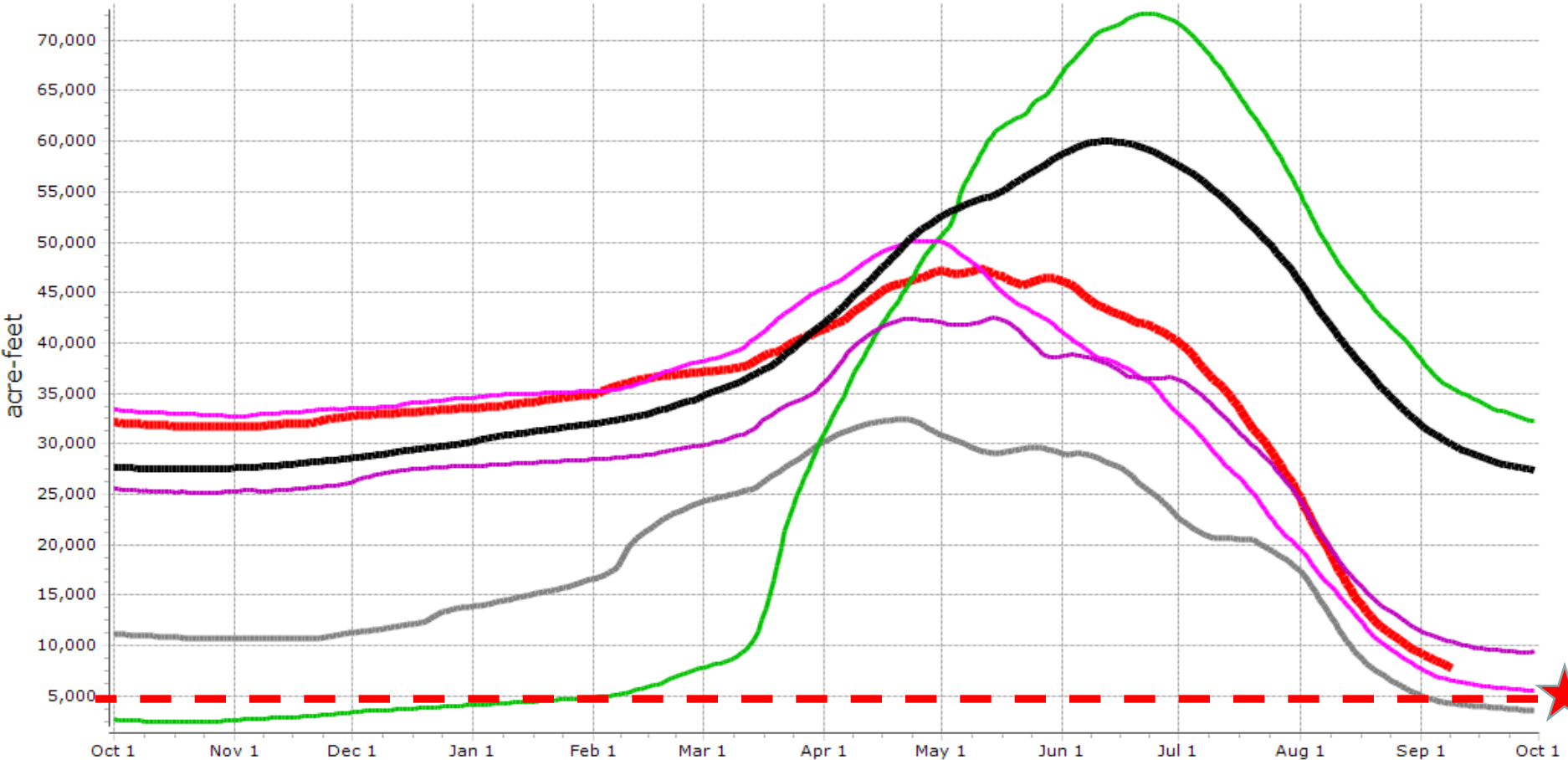
Mason Dam and Phillips Lake near Sumpter, OR Elevation:3898.000



RECLAMATION

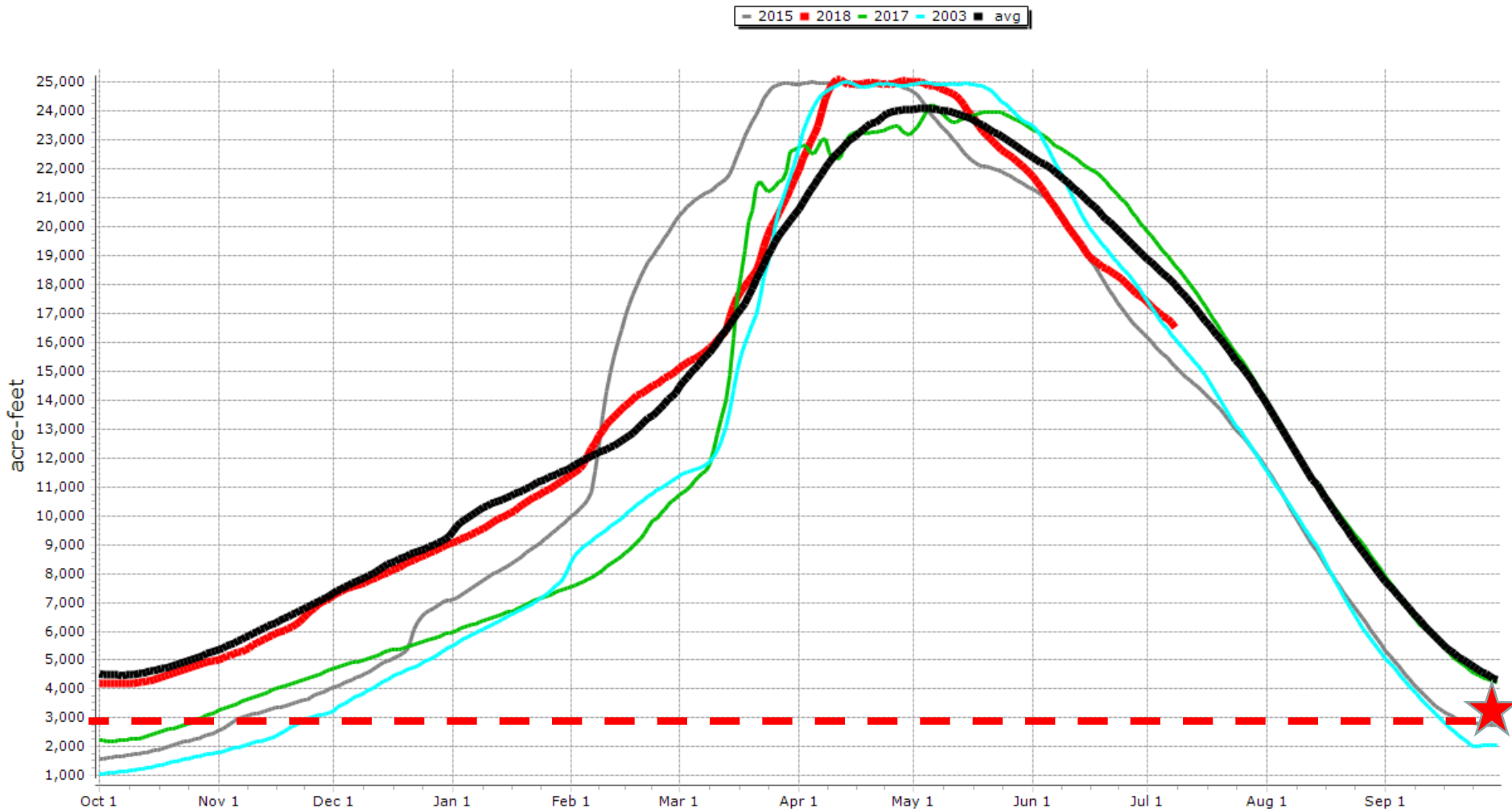
Mason Dam and Phillips Lake near Sumpter, OR Elevation:3898.000

2015 2018 2017 2007 2013 avg



RECLAMATION

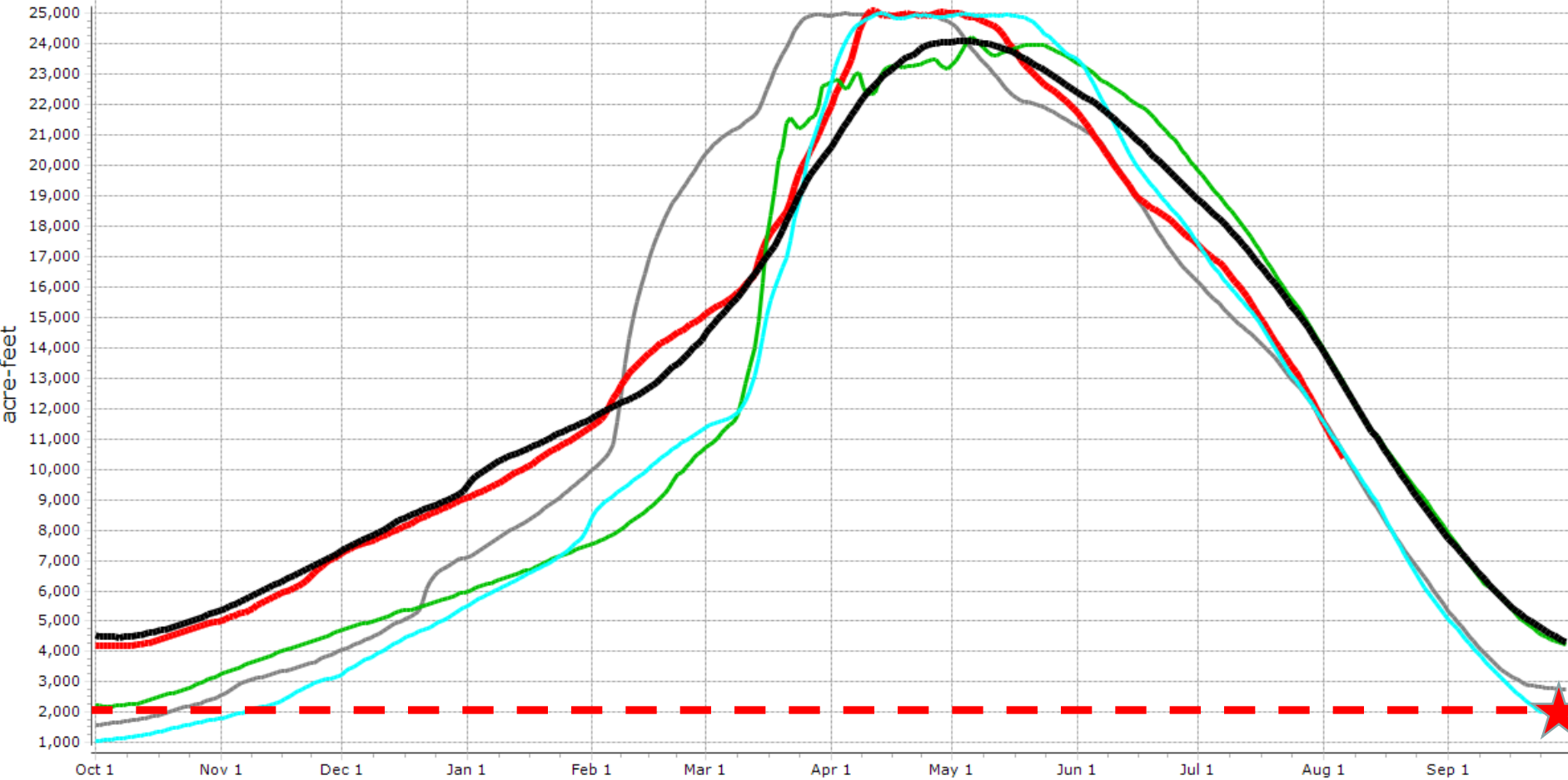
Unity Reservoir and Burnt River near Unity, Oregon Elevation:3820.000



RECLAMATION

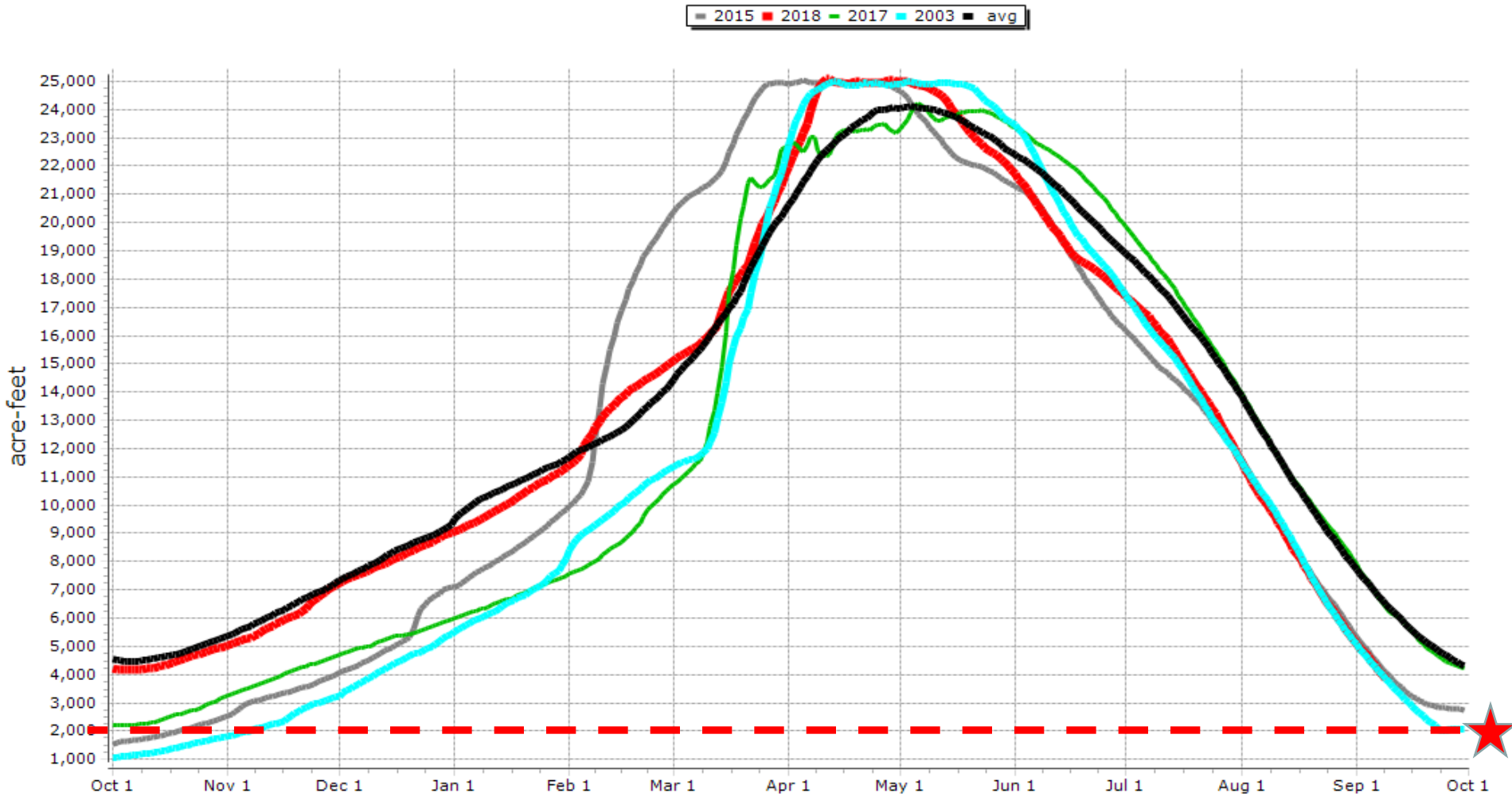
Unity Reservoir and Burnt River near Unity, Oregon Elevation:3820.000

2015 2018 2017 2003 avg



RECLAMATION

Unity Reservoir and Burnt River near Unity, Oregon Elevation:3820.000



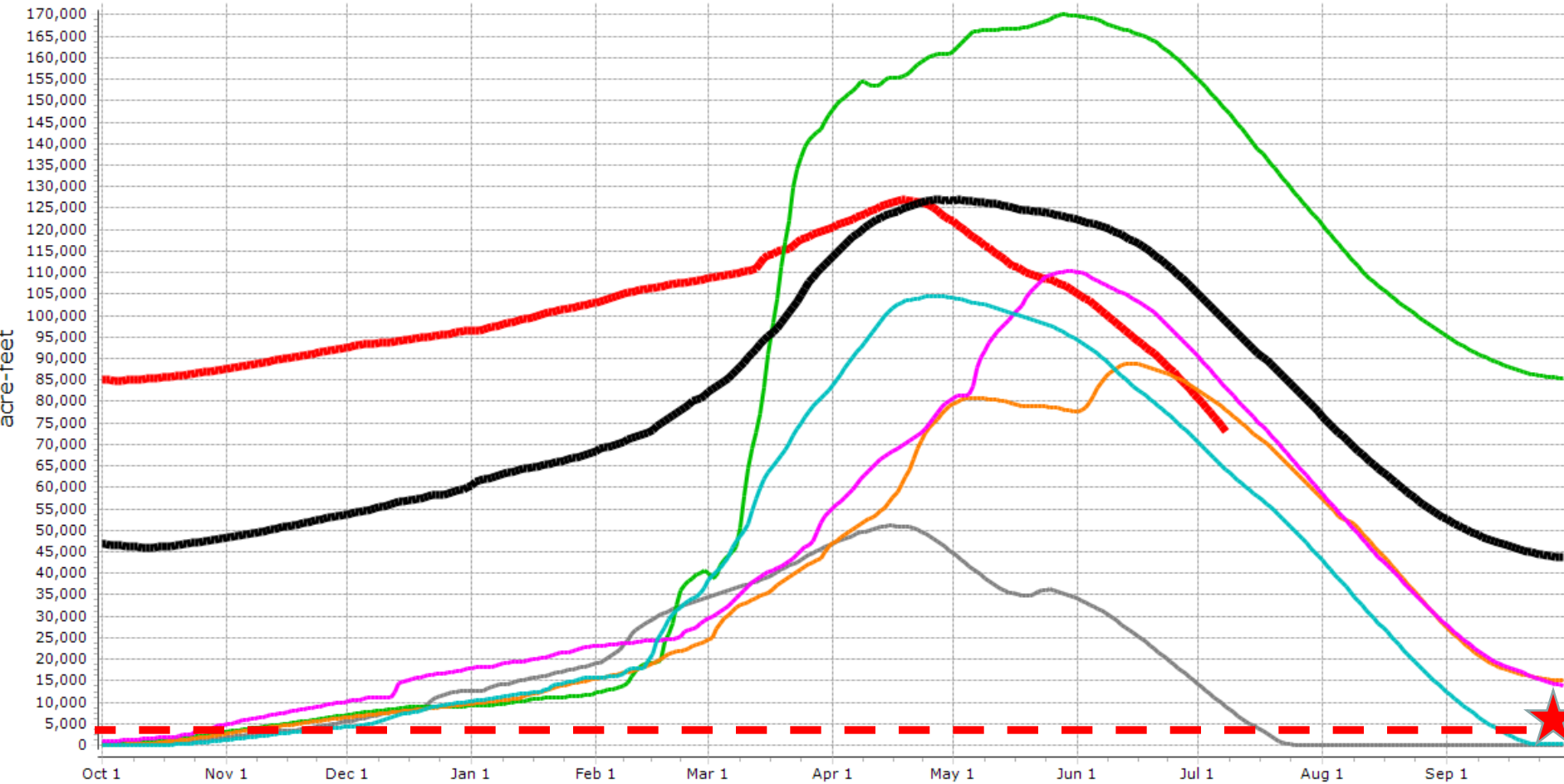
RECLAMATION

Malheur

RECLAMATION

Warm Springs Dam and Reservoir nr Riverside, OR Elevation:3305.000

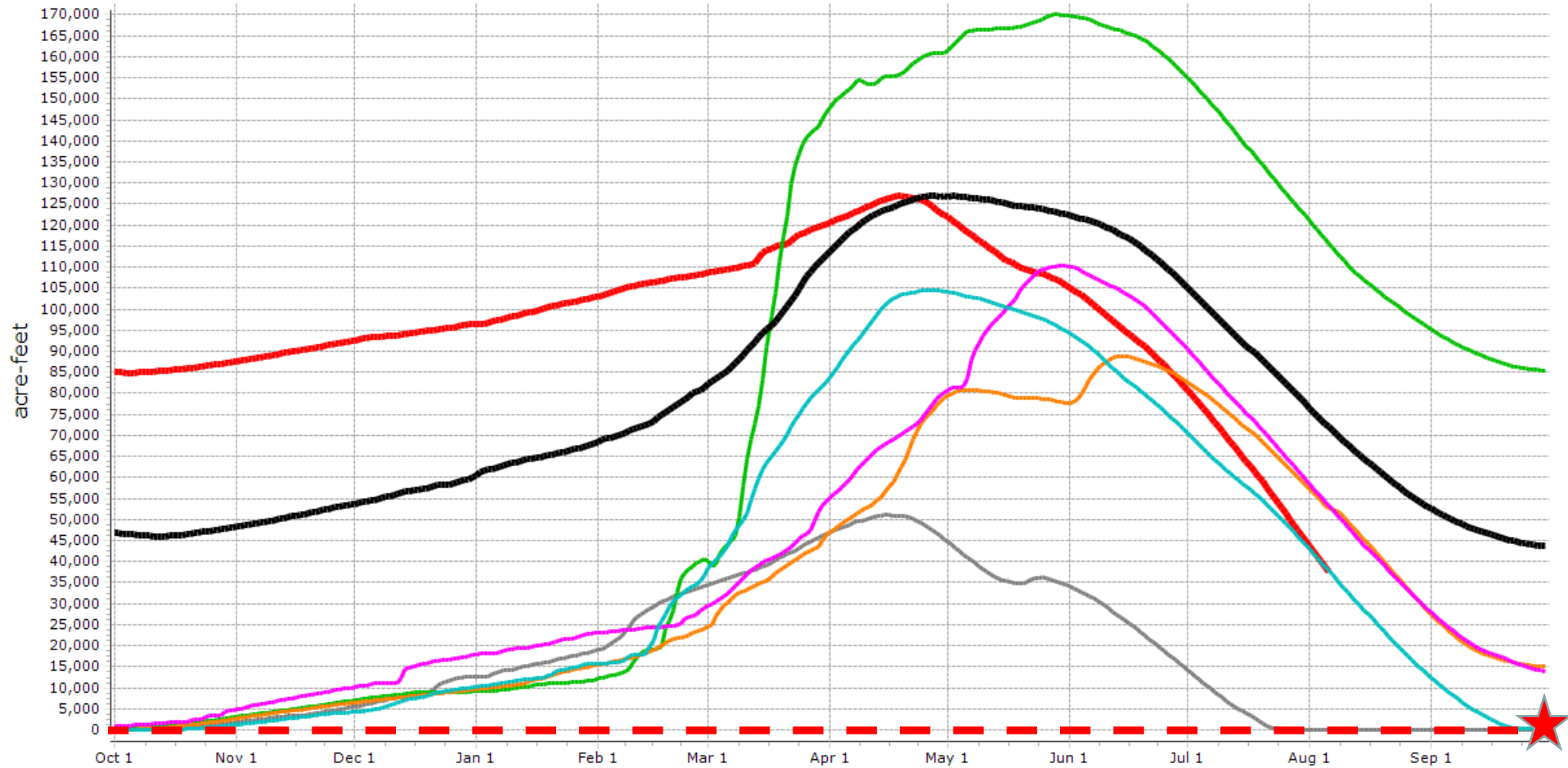
2015 2018 2017 2010 2005 2016 avg



RECLAMATION

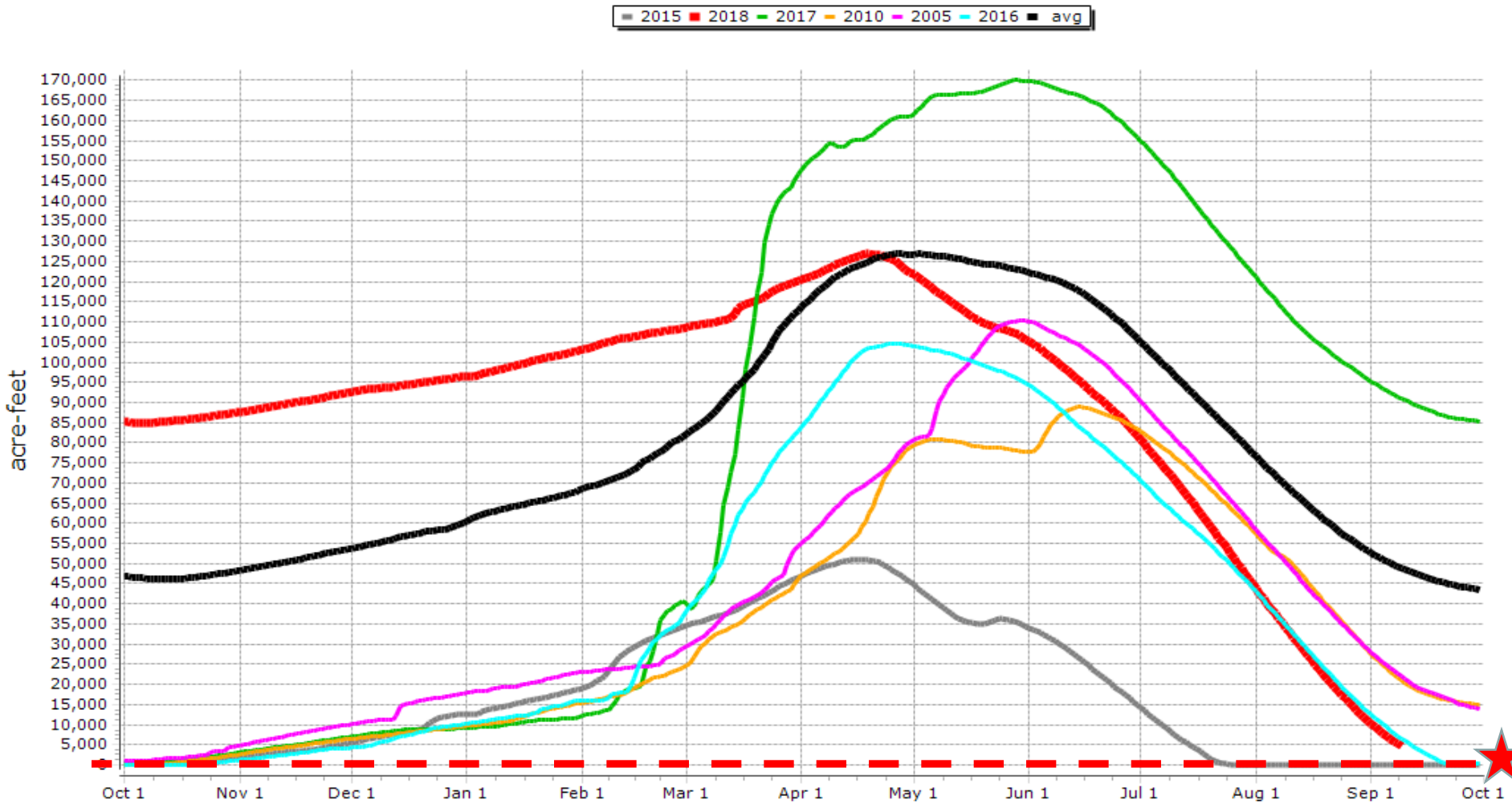
Warm Springs Dam and Reservoir nr Riverside, OR Elevation:3305.000

2015 2018 2017 2010 2005 2016 avg



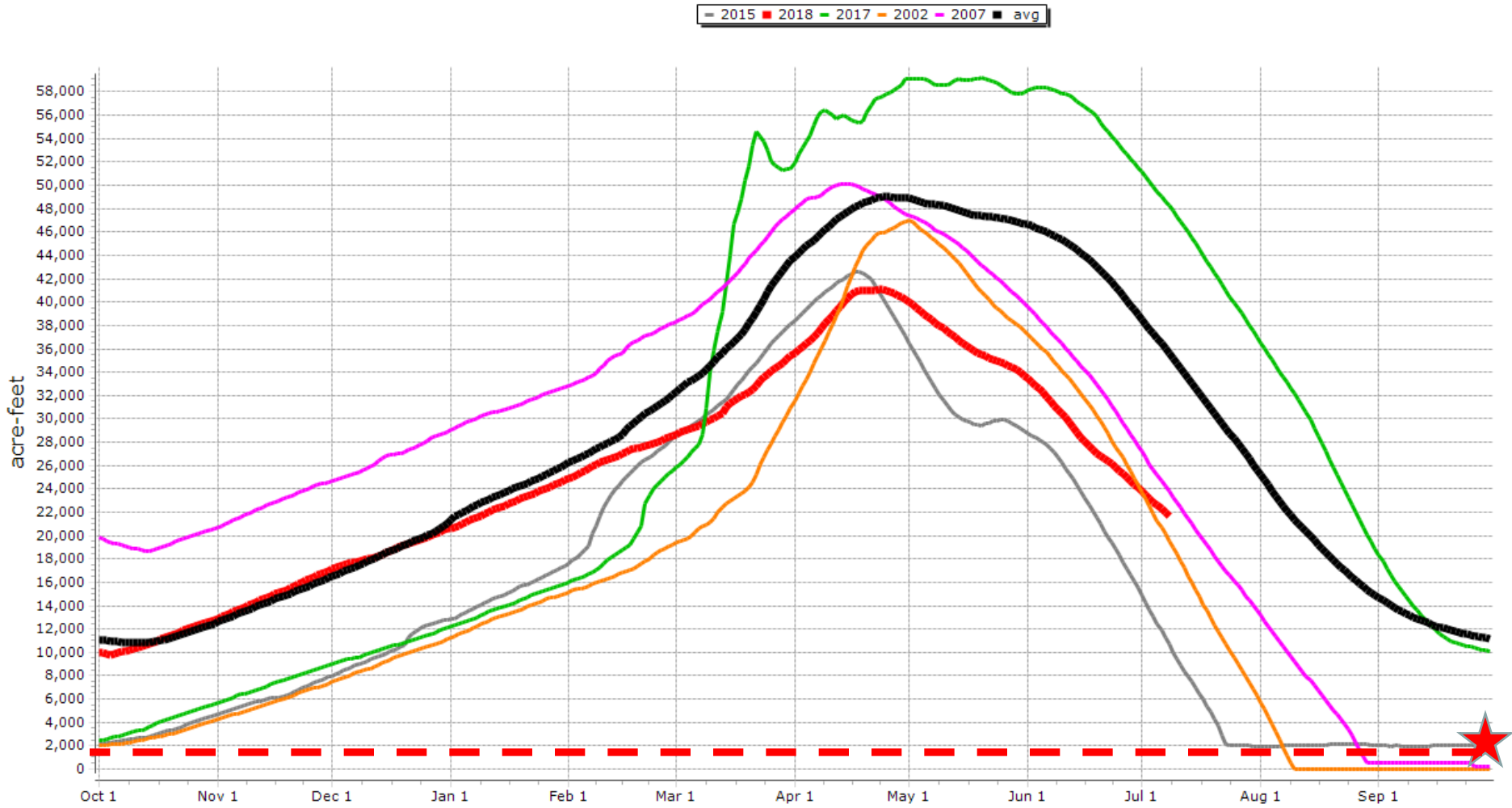
RECLAMATION

Warm Springs Dam and Reservoir nr Riverside, OR Elevation:3305.000



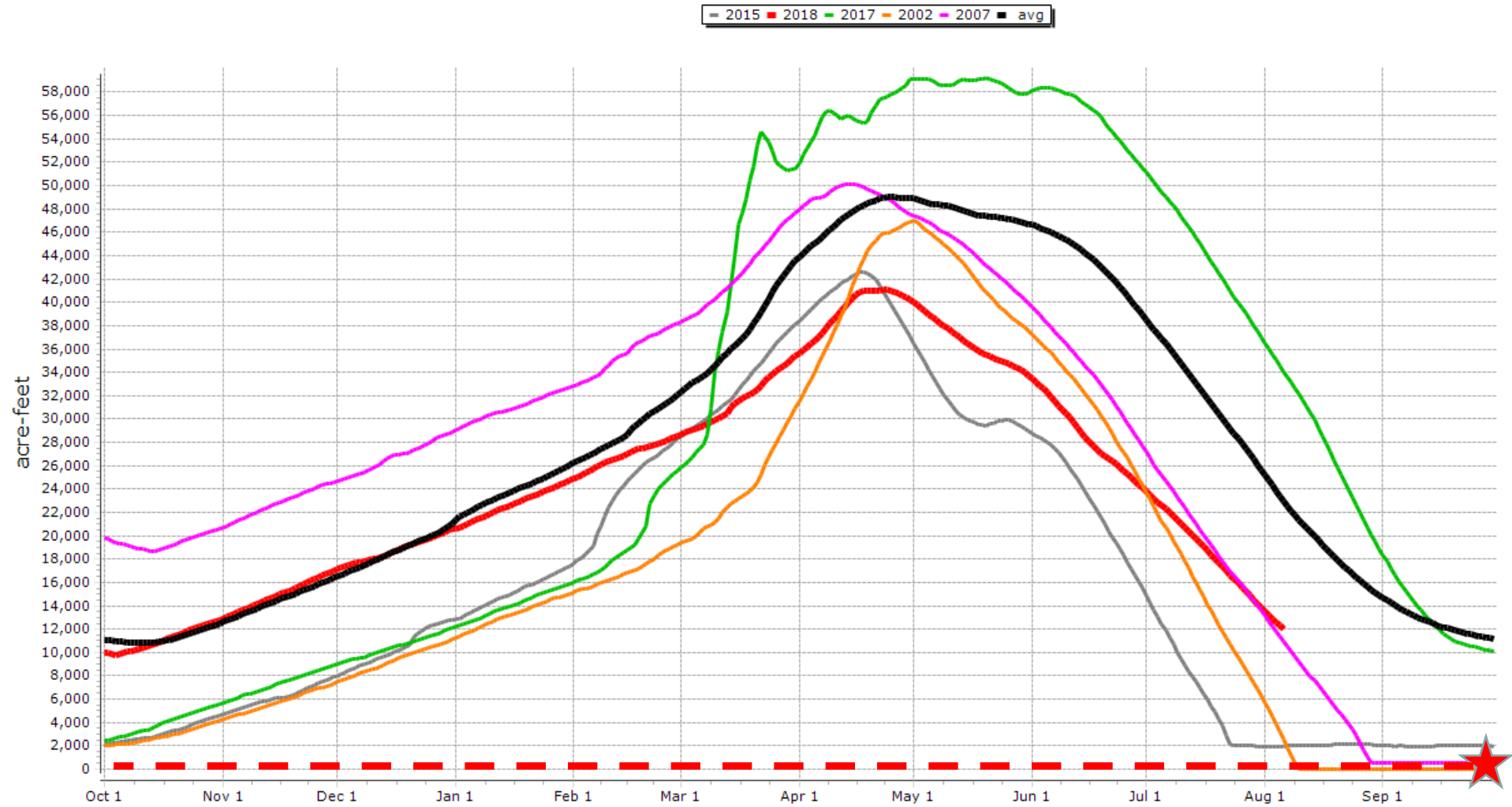
RECLAMATION

Agency Valley (Beulah) Dam and Reservoir Elevation:3305.000



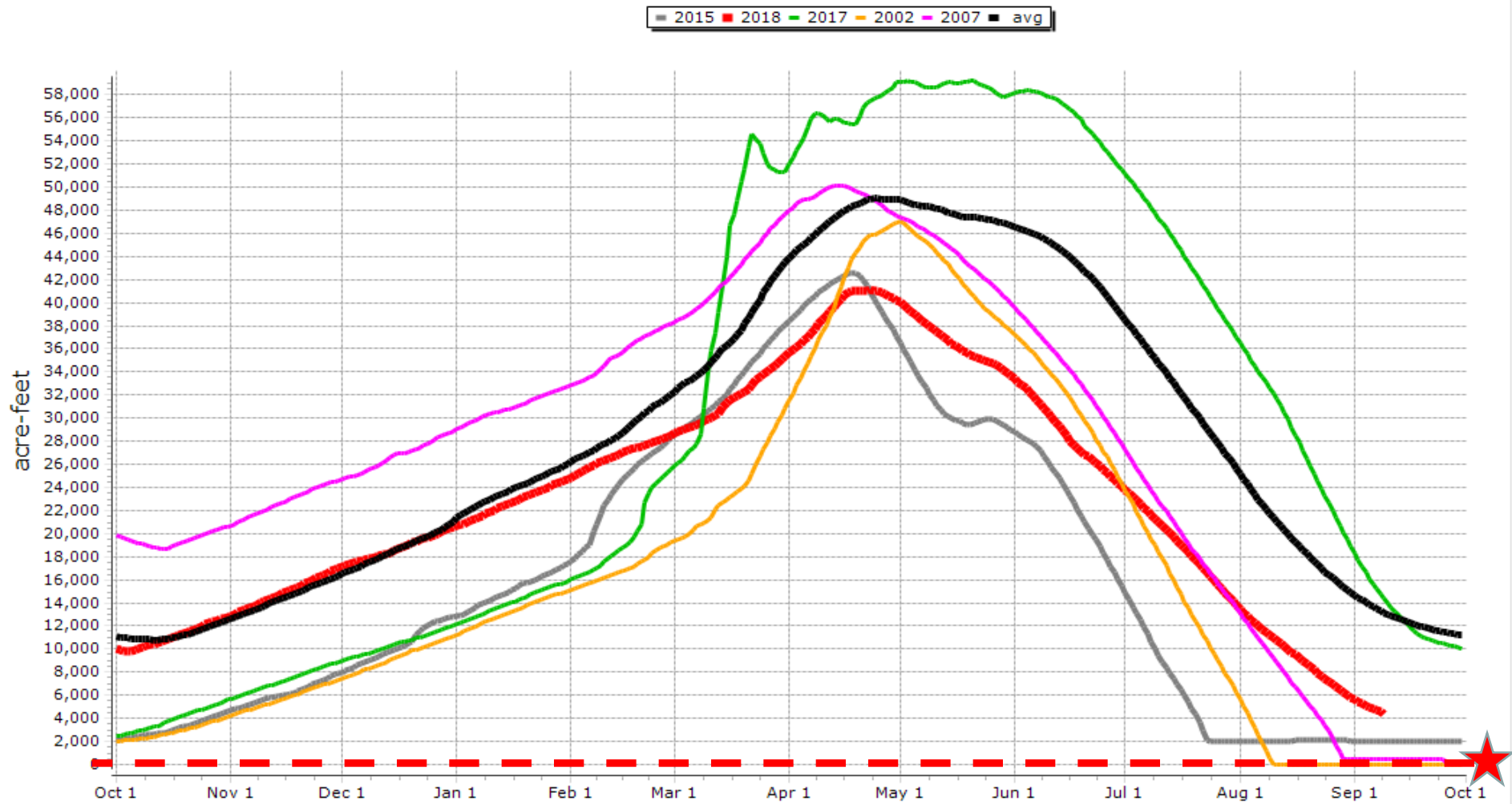
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Agency Valley (Beulah) Dam and Reservoir Elevation:3305.000



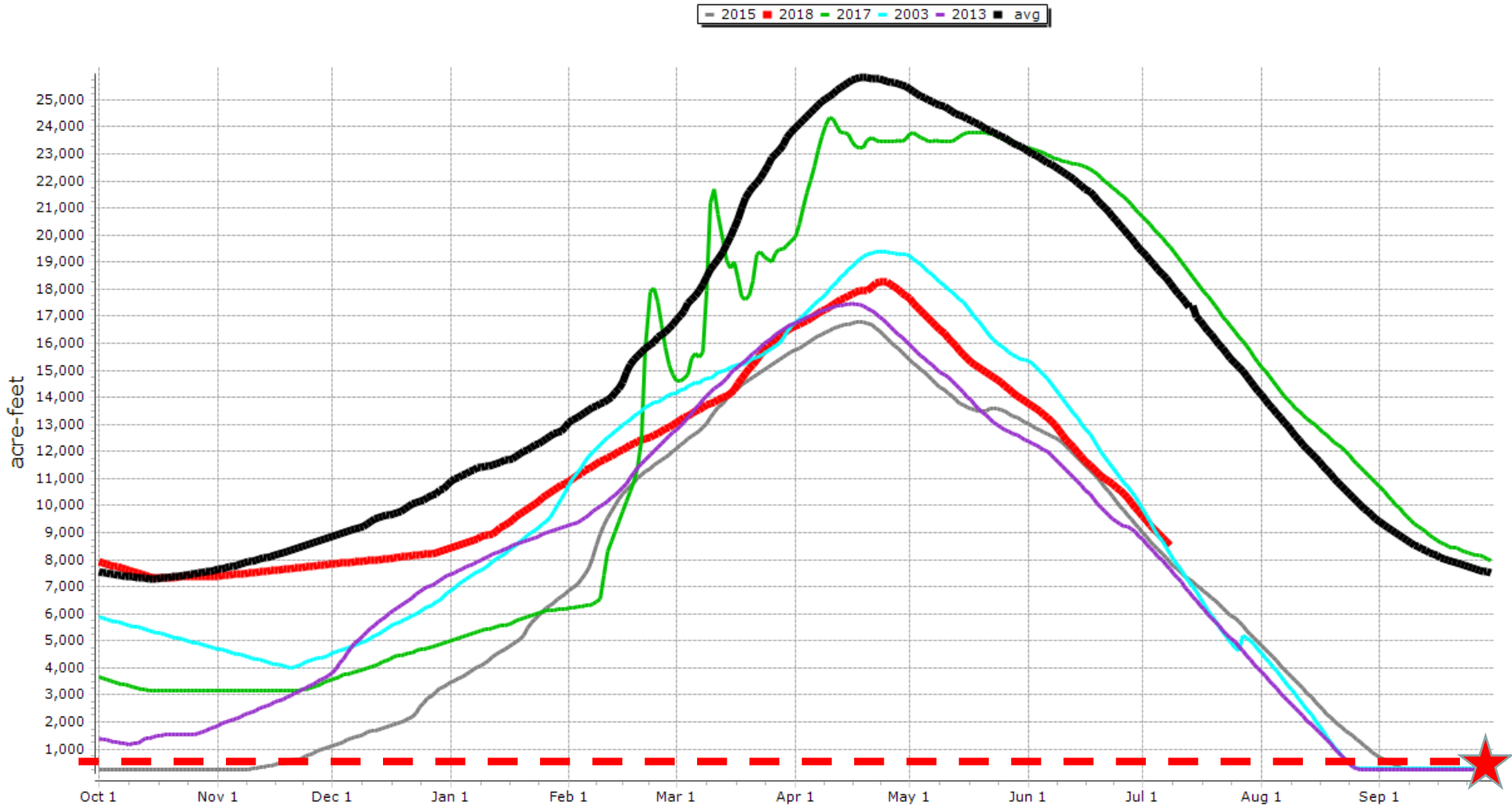
RECLAMATION

Agency Valley (Beulah) Dam and Reservoir Elevation:3305.000



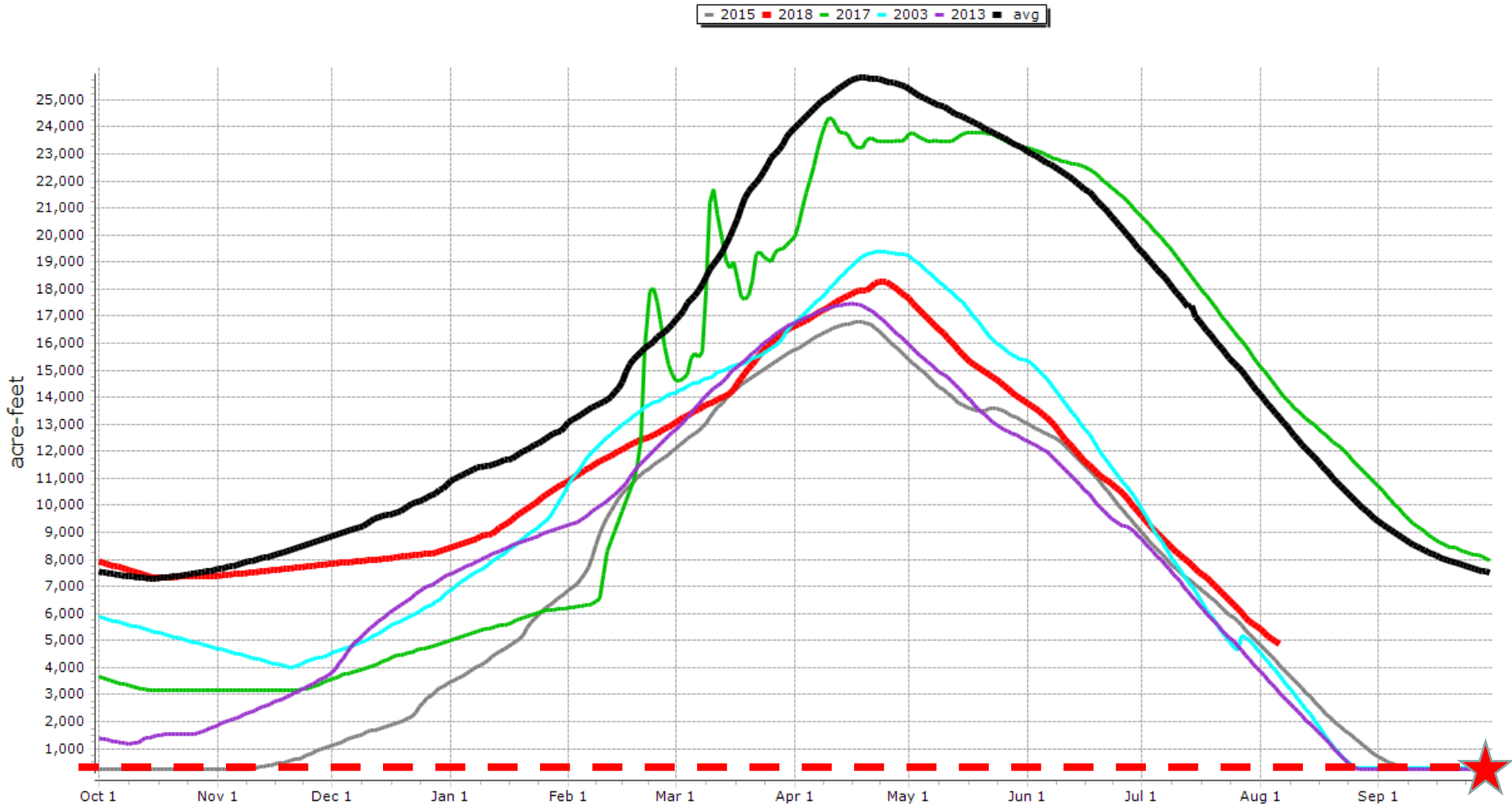
RECLAMATION

Bully Creek Dam and Reservoir near Vale, OR Elevation:2516.000



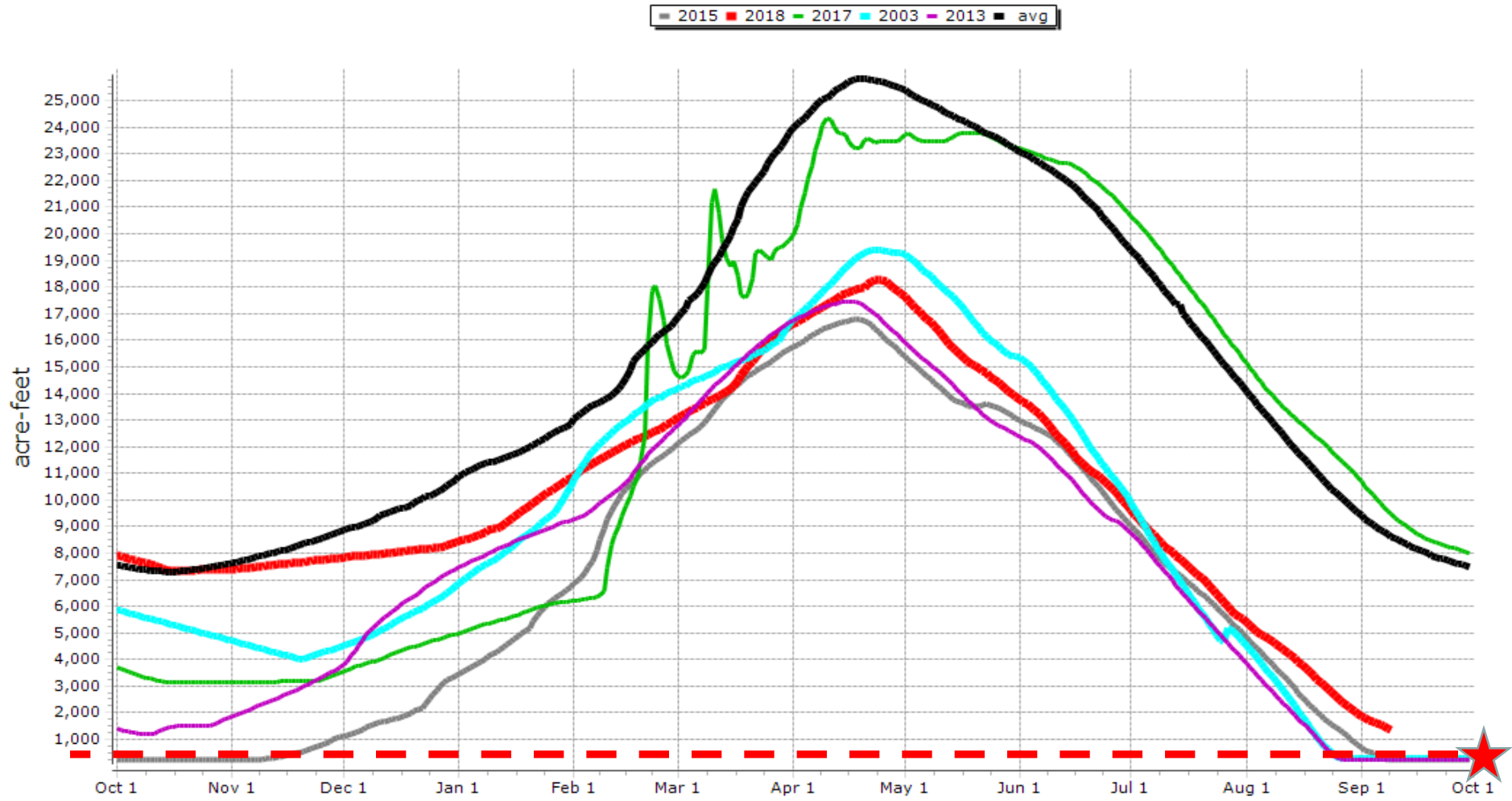
RECLAMATION

Bully Creek Dam and Reservoir near Vale, OR Elevation:2516.000



RECLAMATION

Bully Creek Dam and Reservoir near Vale, OR Elevation:2516.000

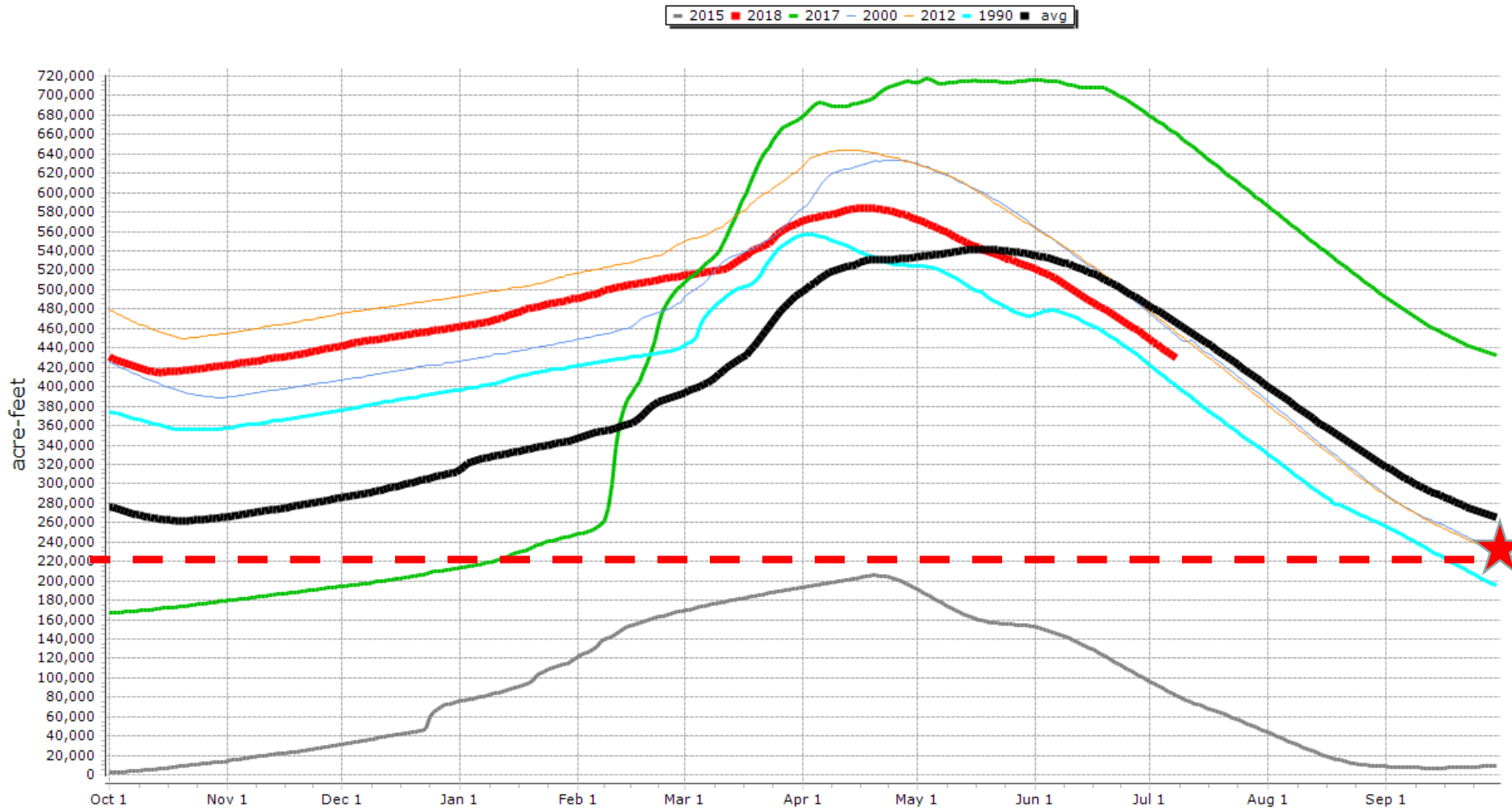


RECLAMATION

Owyhee

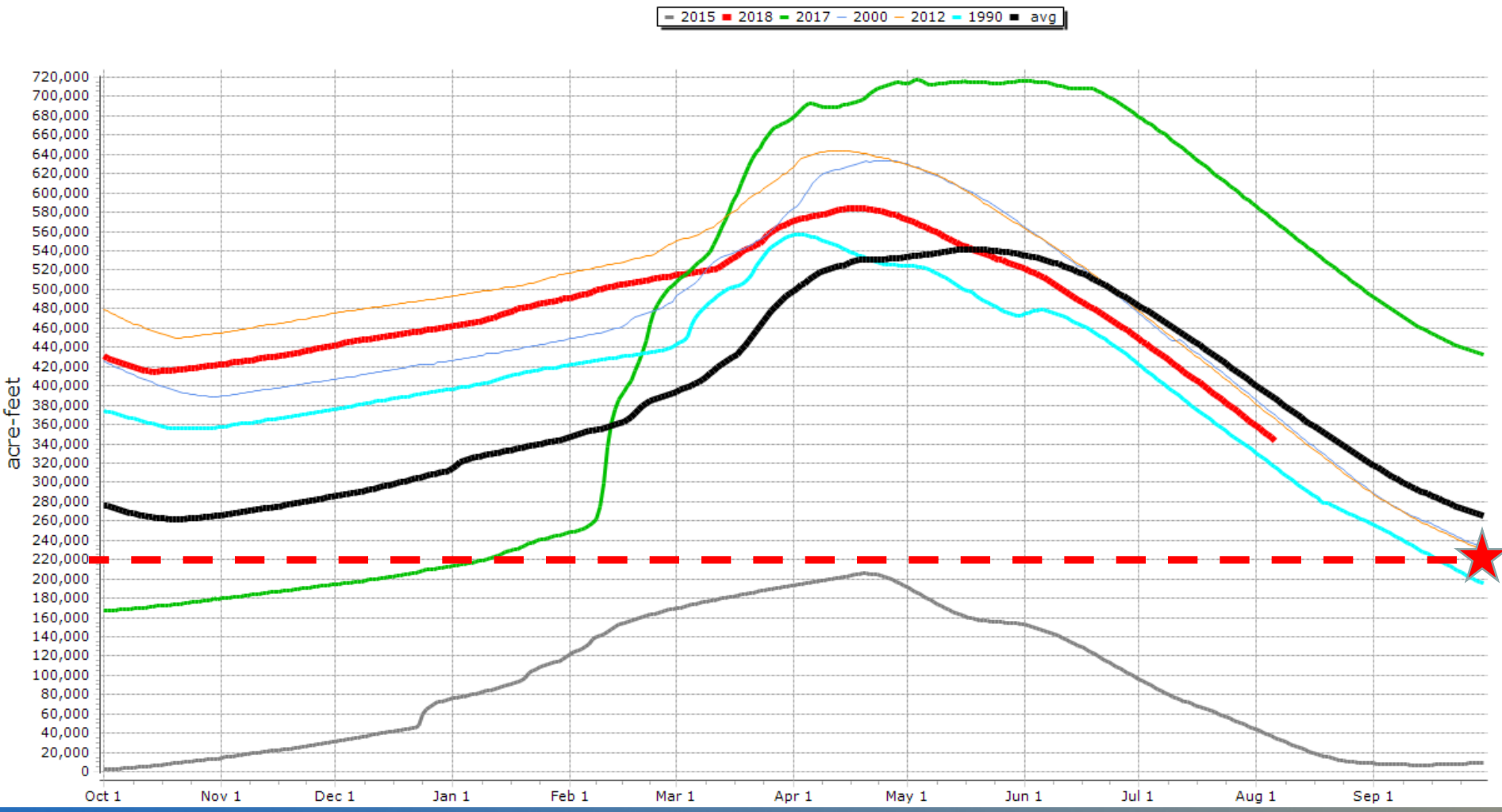
RECLAMATION

Lake Owyhee and Owyhee River near Nyssa, OR Elevation:2344.000



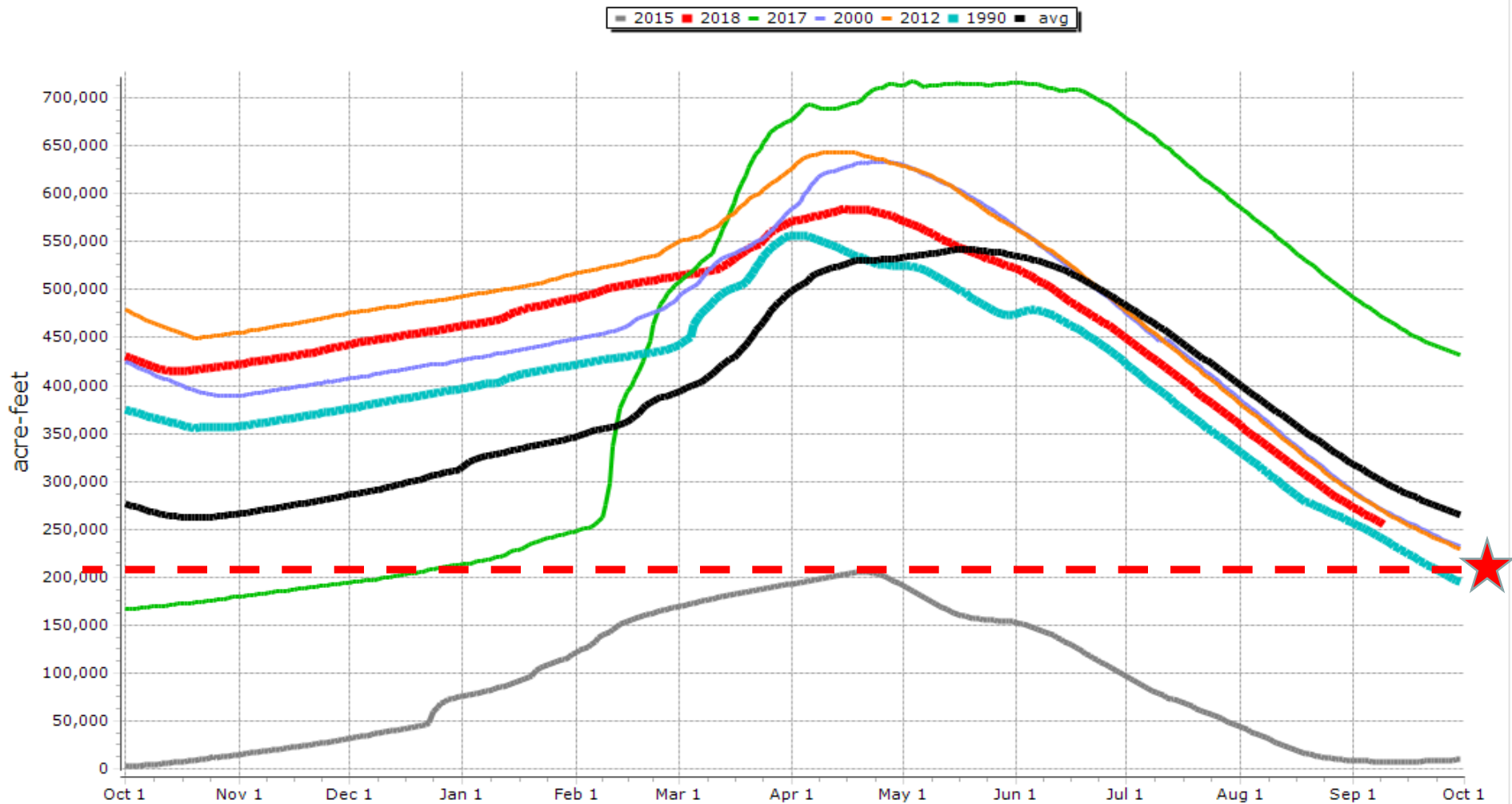
RECLAMATION

Lake Owyhee and Owyhee River near Nyssa, OR Elevation:2344.000



RECLAMATION

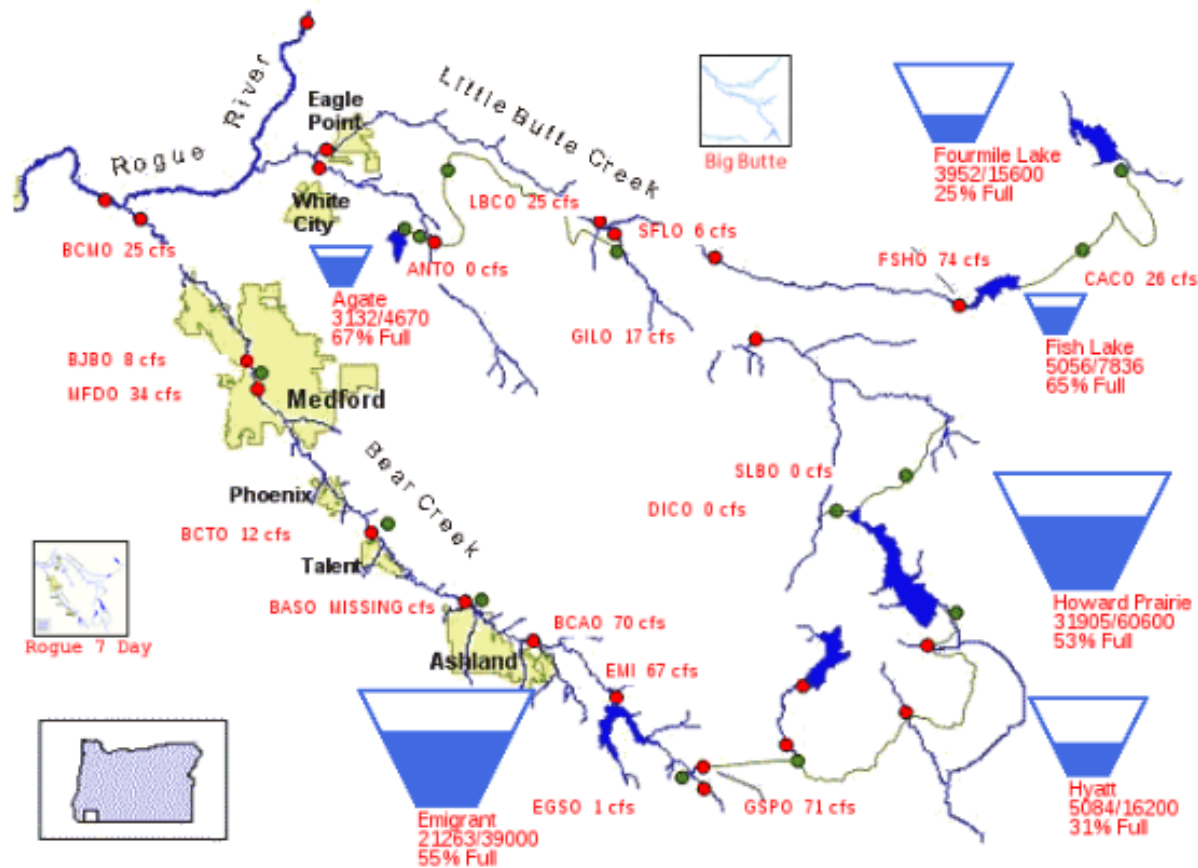
Lake Owyhee and Owyhee River near Nyssa, OR Elevation:2344.000



RECLAMATION

US Bureau of Reclamation, Pacific Northwest Region Bear Creek and Little Butte Creek Basins

07/08/2018

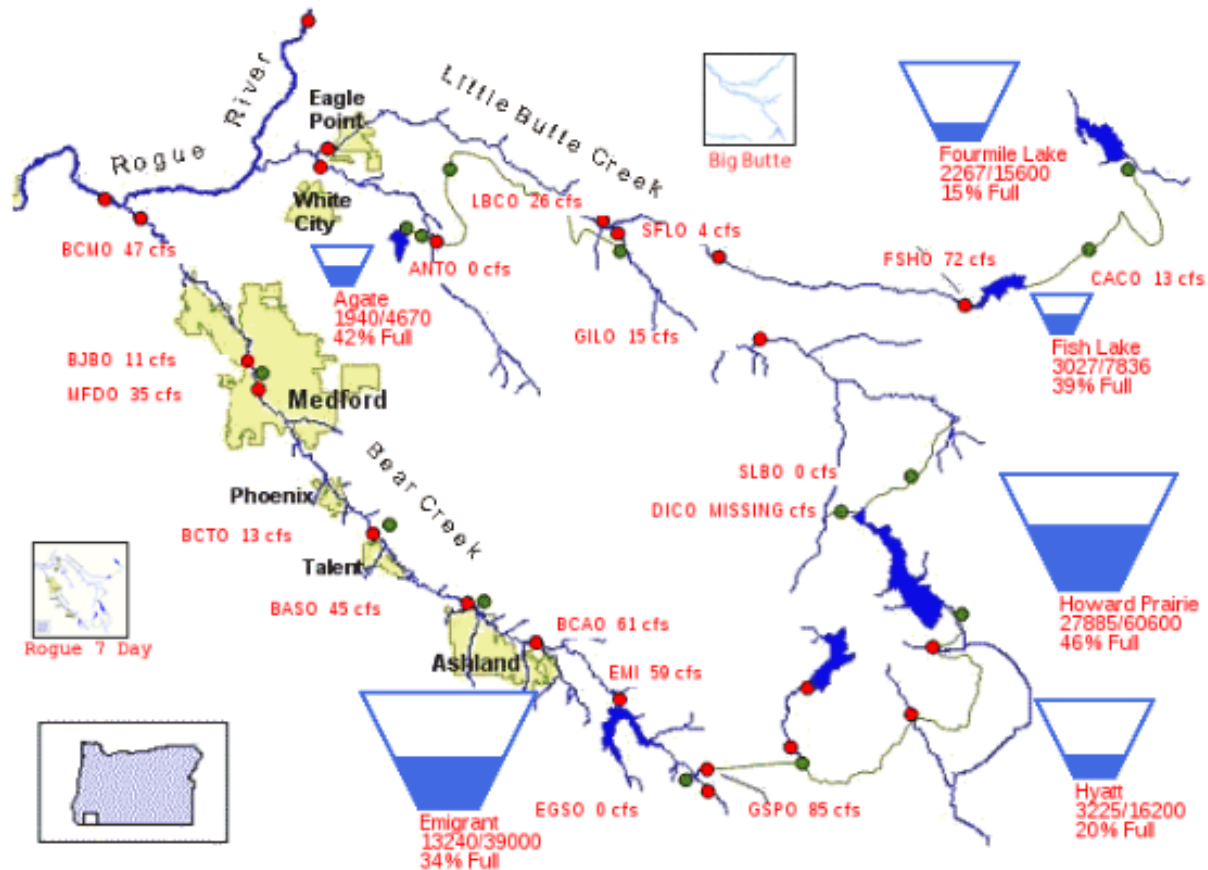


PROVISIONAL DATA - SUBJECT TO CHANGE!

RECLAMATION

US Bureau of Reclamation, Pacific Northwest Region Bear Creek and Little Butte Creek Basins

08/06/2018

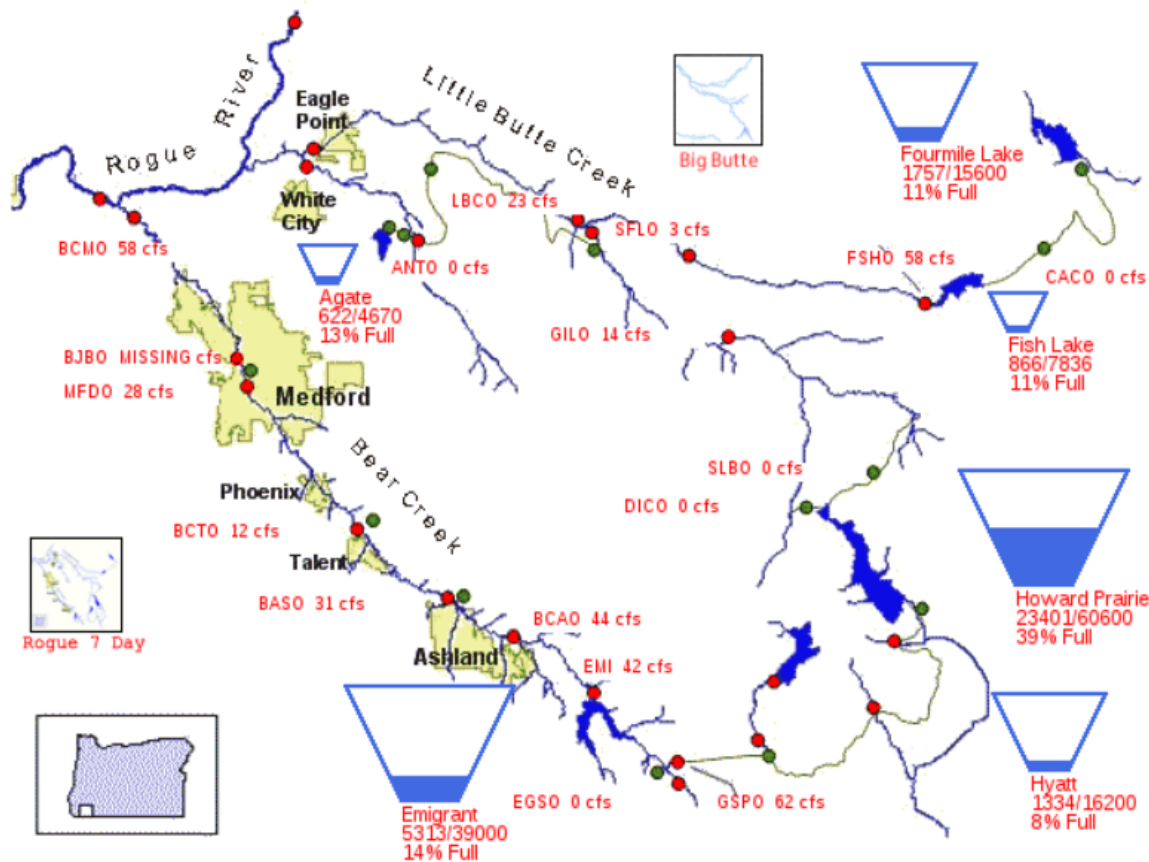


PROVISIONAL DATA - SUBJECT TO CHANGE!

RECLAMATION

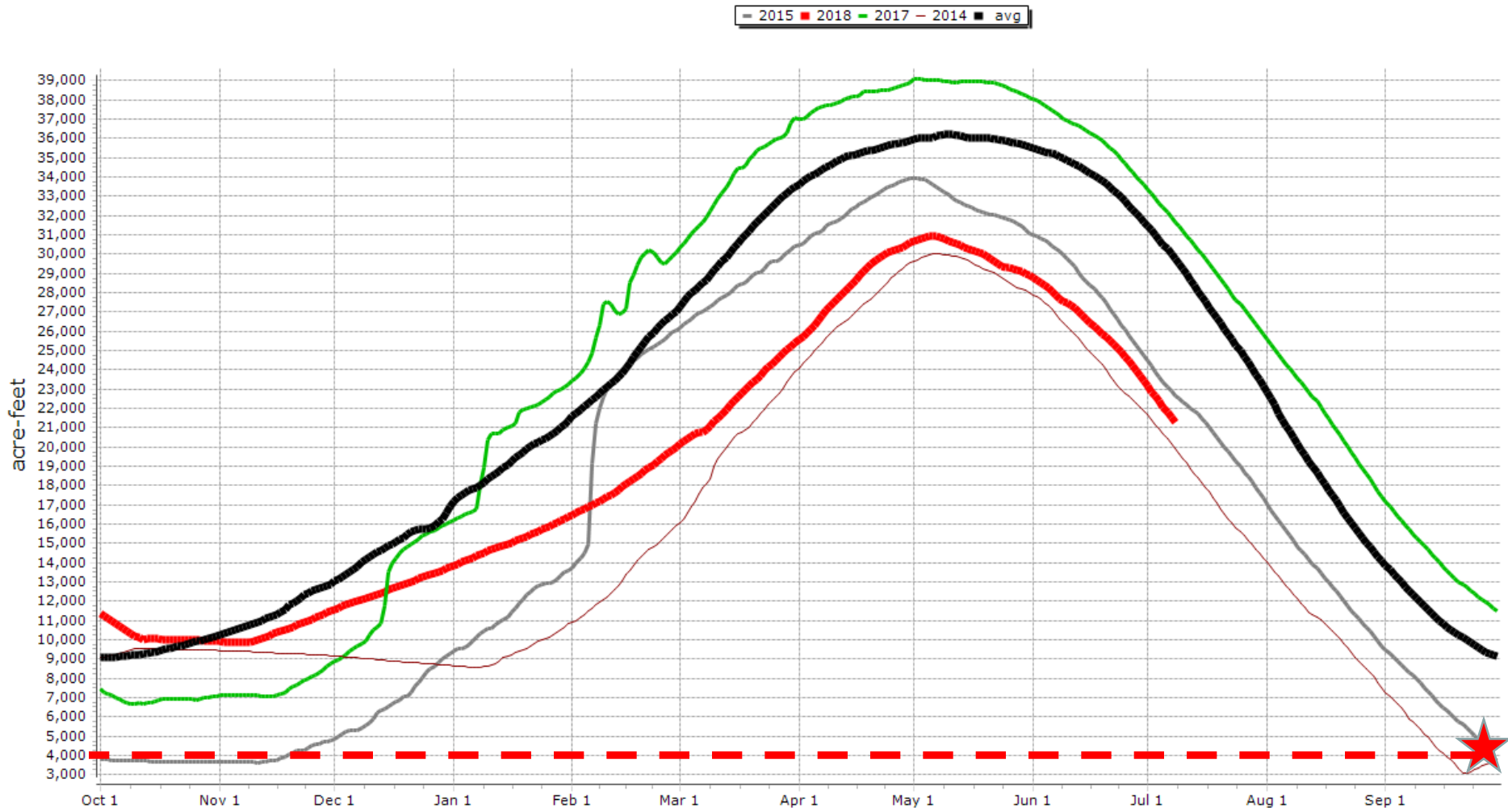
US Bureau of Reclamation, Pacific Northwest Region Bear Creek and Little Butte Creek Basins

09/10/2018



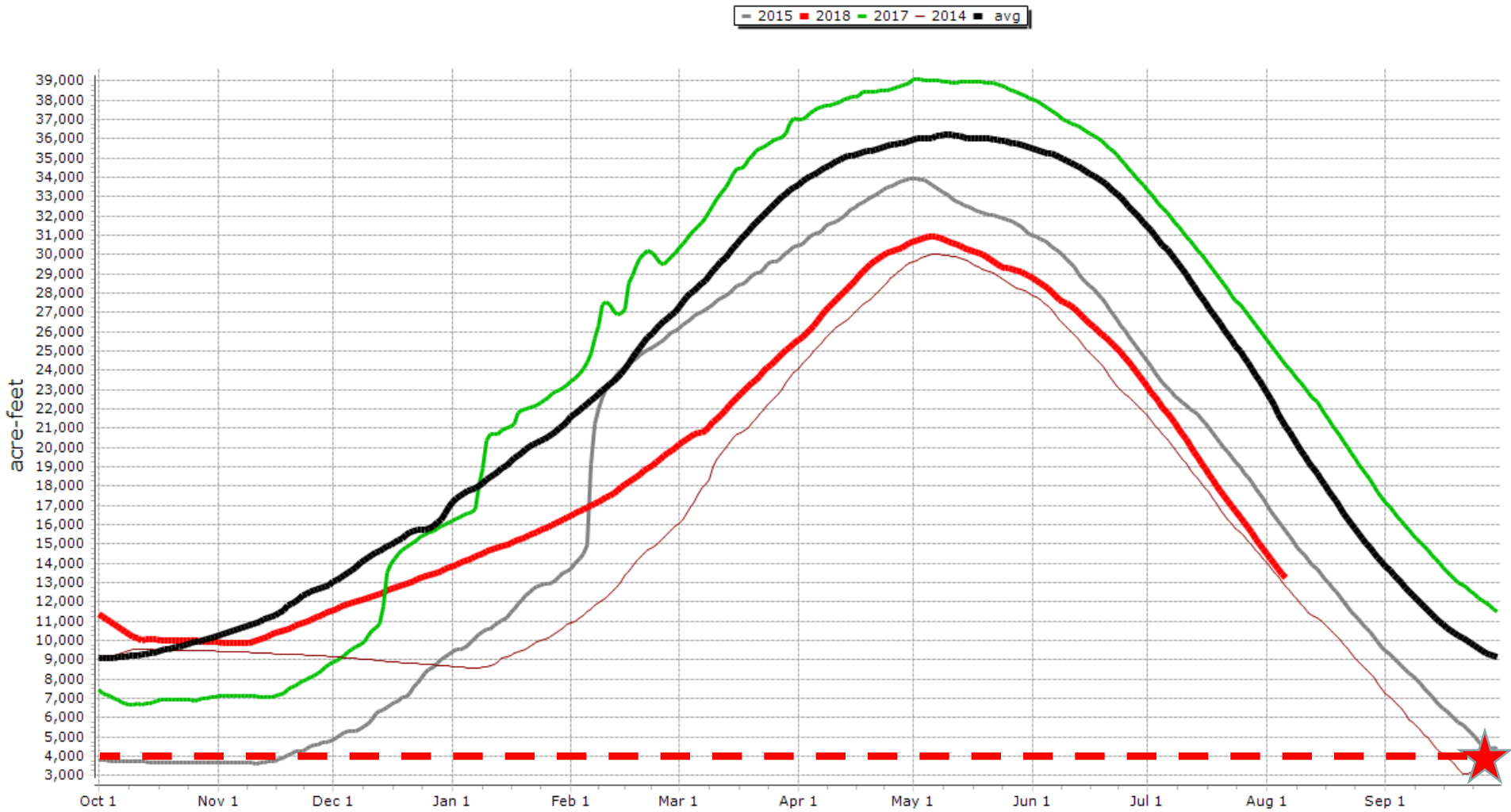
RECLAMATION

Emigrant Dam and Lake near Ashland, OR Elevation:2100.000



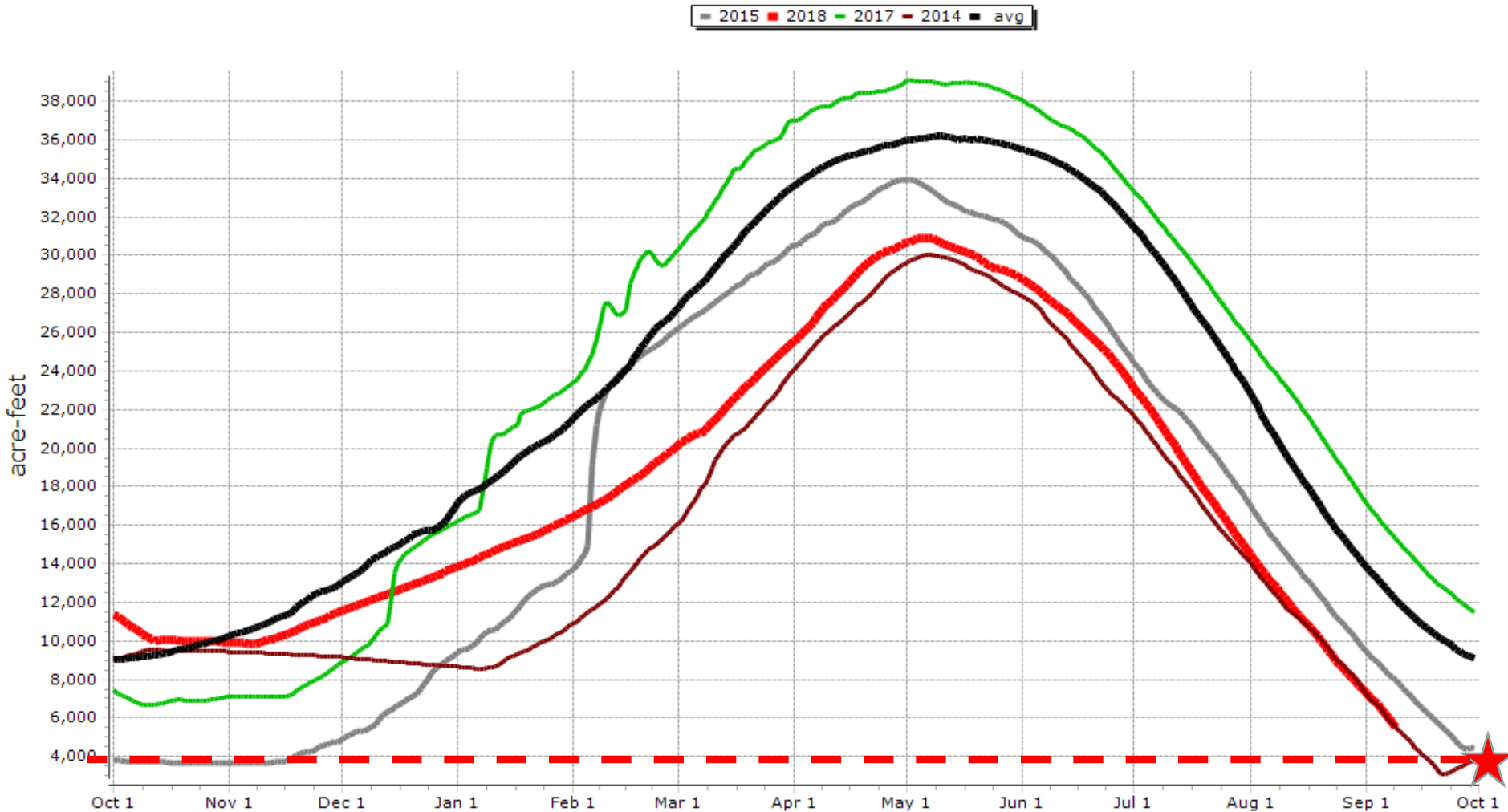
RECLAMATION

Emigrant Dam and Lake near Ashland, OR Elevation:2100.000



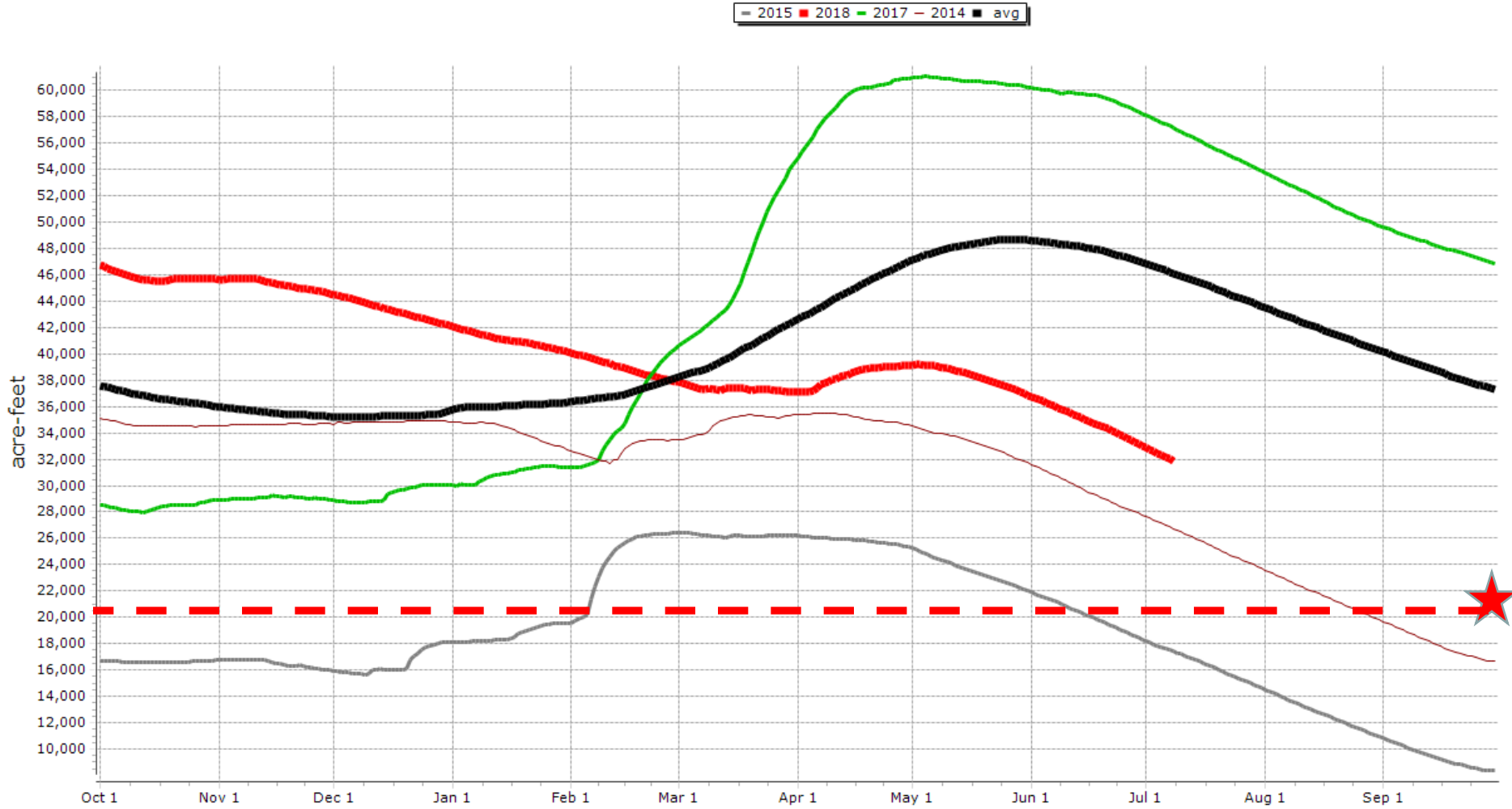
RECLAMATION

Emigrant Dam and Lake near Ashland, OR Elevation:2100.000



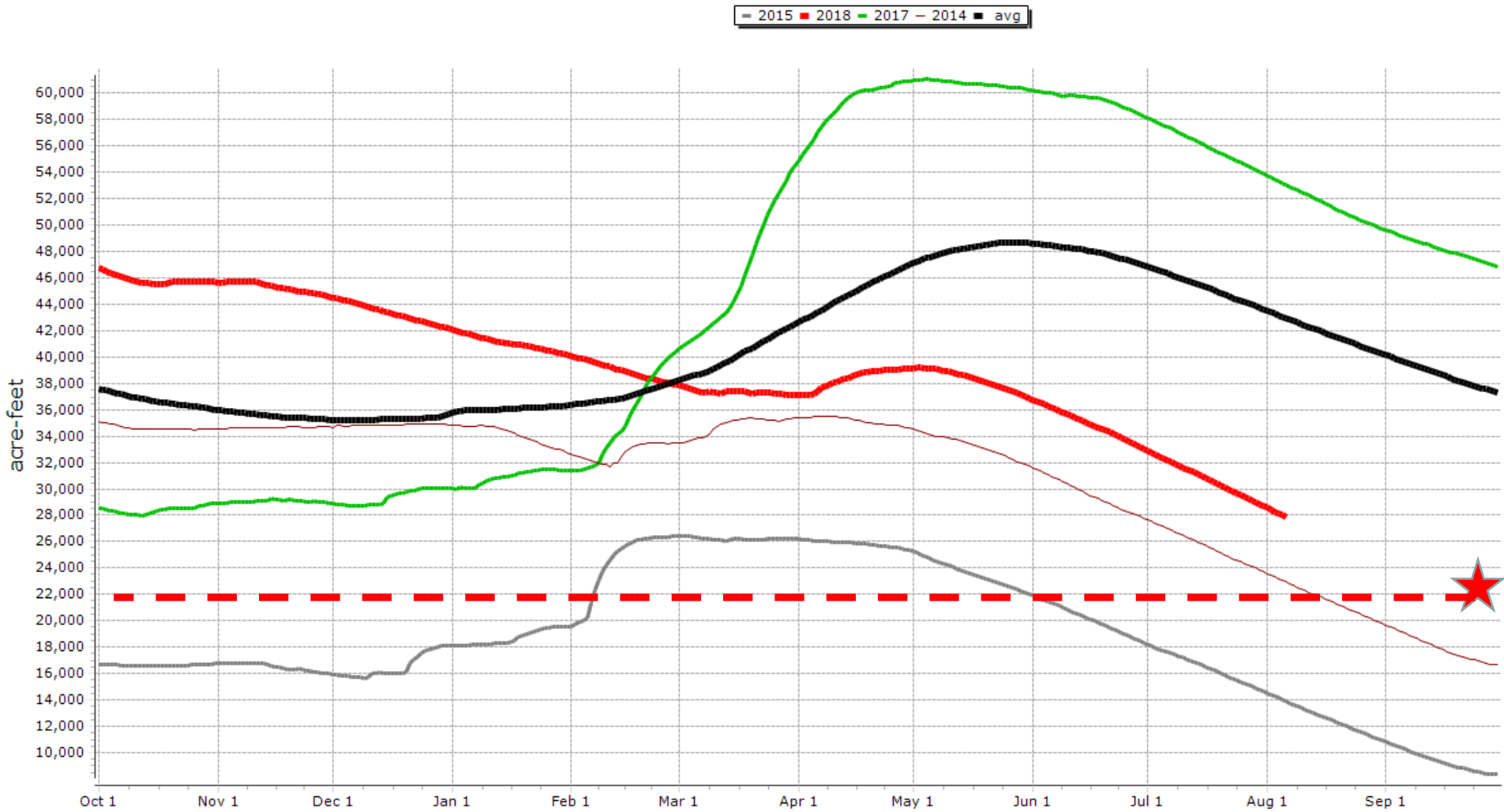
RECLAMATION

Howard Prairie Lake and Dam near Ashland, OR Elevation:4539.000



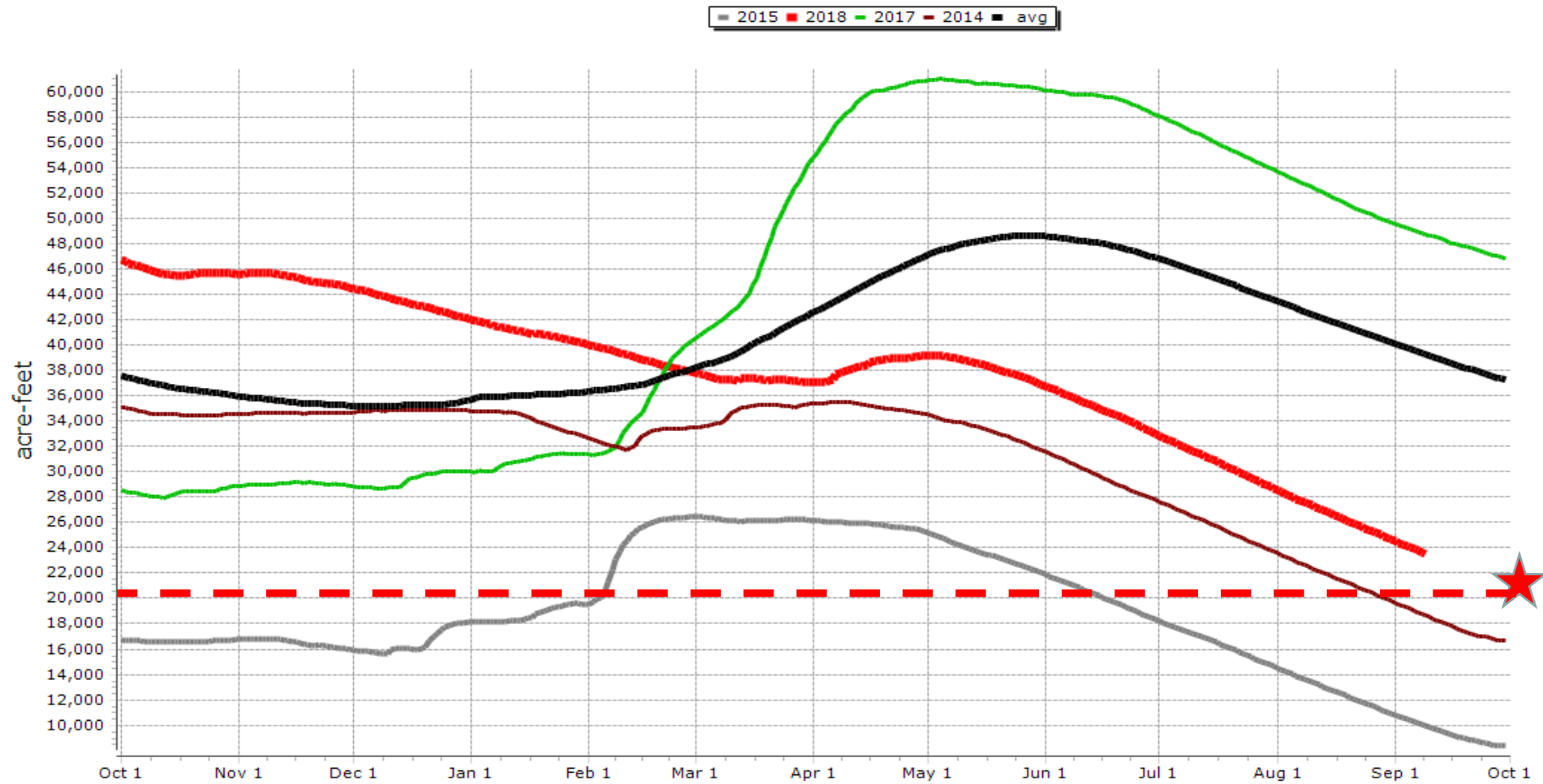
RECLAMATION

Howard Prairie Lake and Dam near Ashland, OR Elevation:4539.000



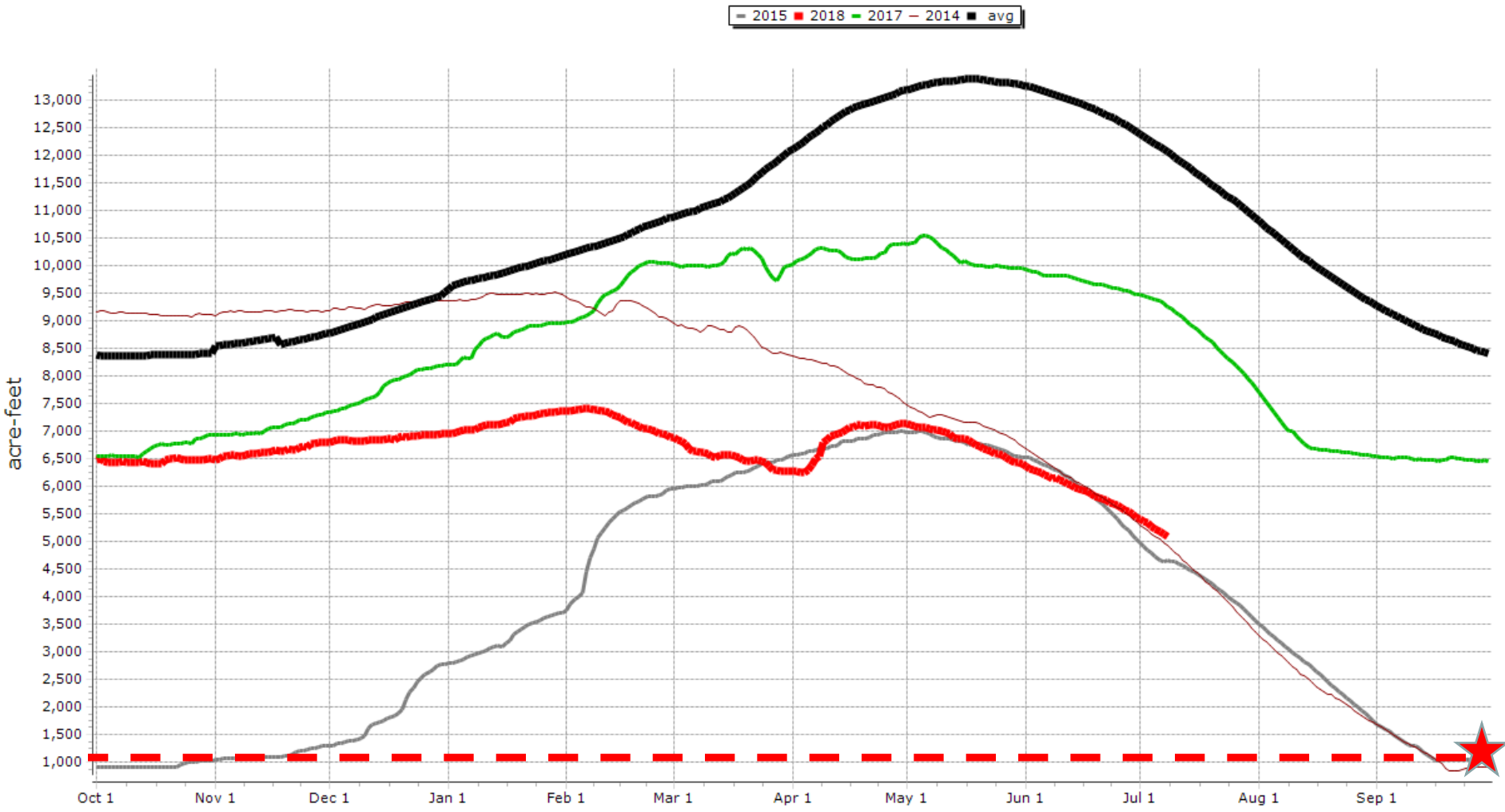
RECLAMATION

Howard Prairie Lake and Dam near Ashland, OR Elevation:4539.000



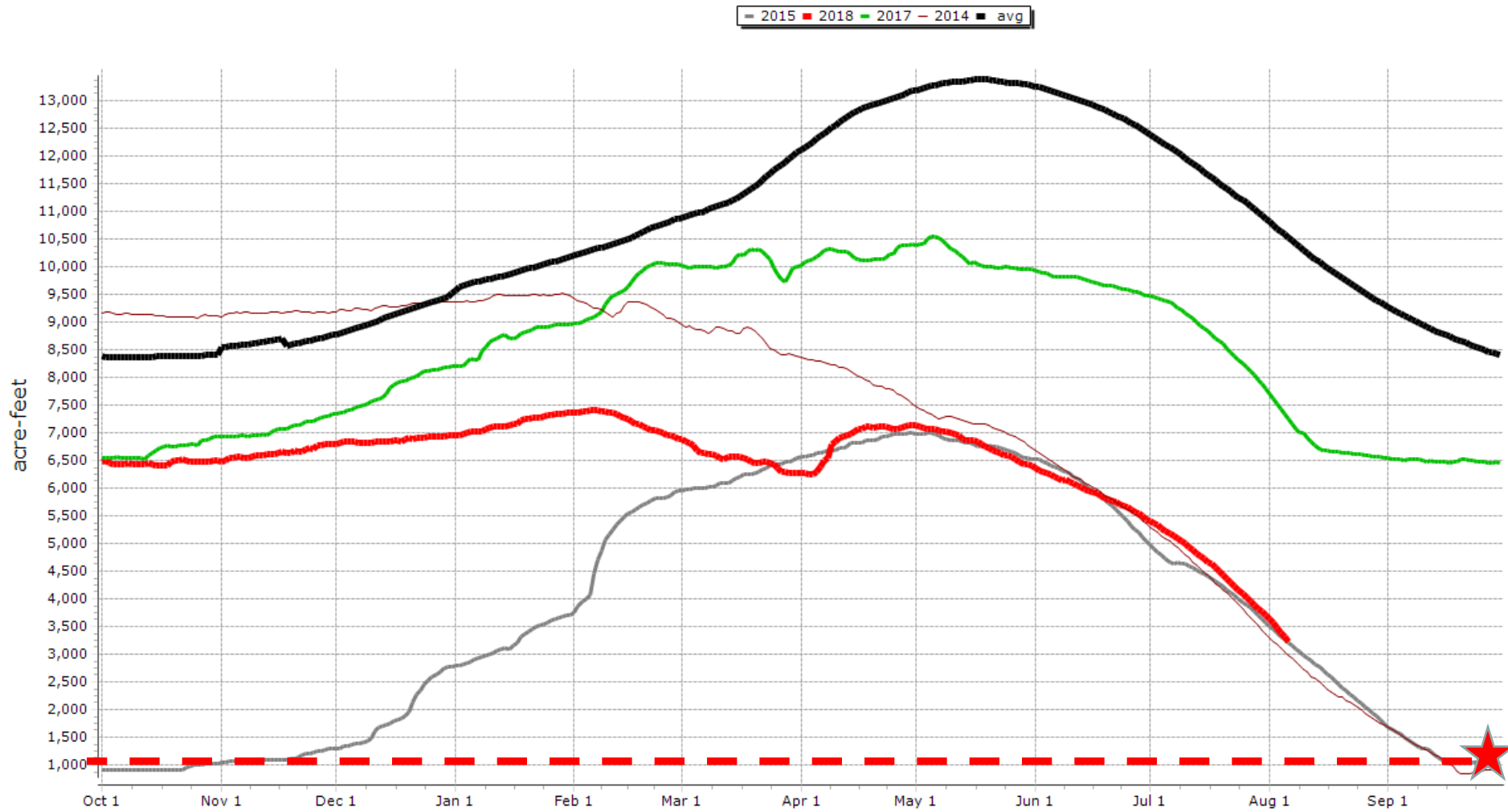
RECLAMATION

Hyatt Dam and Reservoir near Ashland, OR Elevation:5016.000



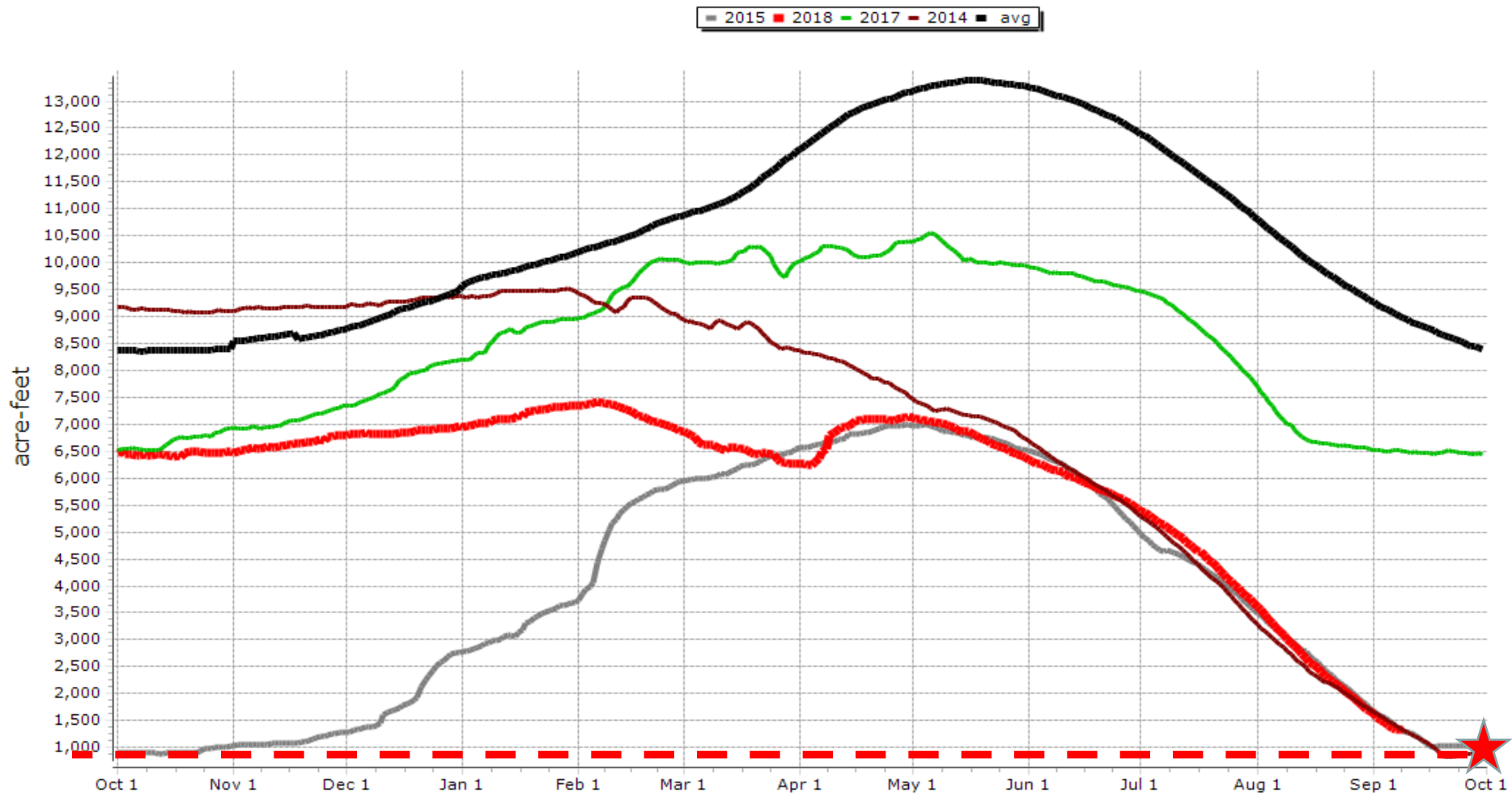
RECLAMATION

Hyatt Dam and Reservoir near Ashland, OR Elevation:5016.000



RECLAMATION

Hyatt Dam and Reservoir near Ashland, OR Elevation:5016.000



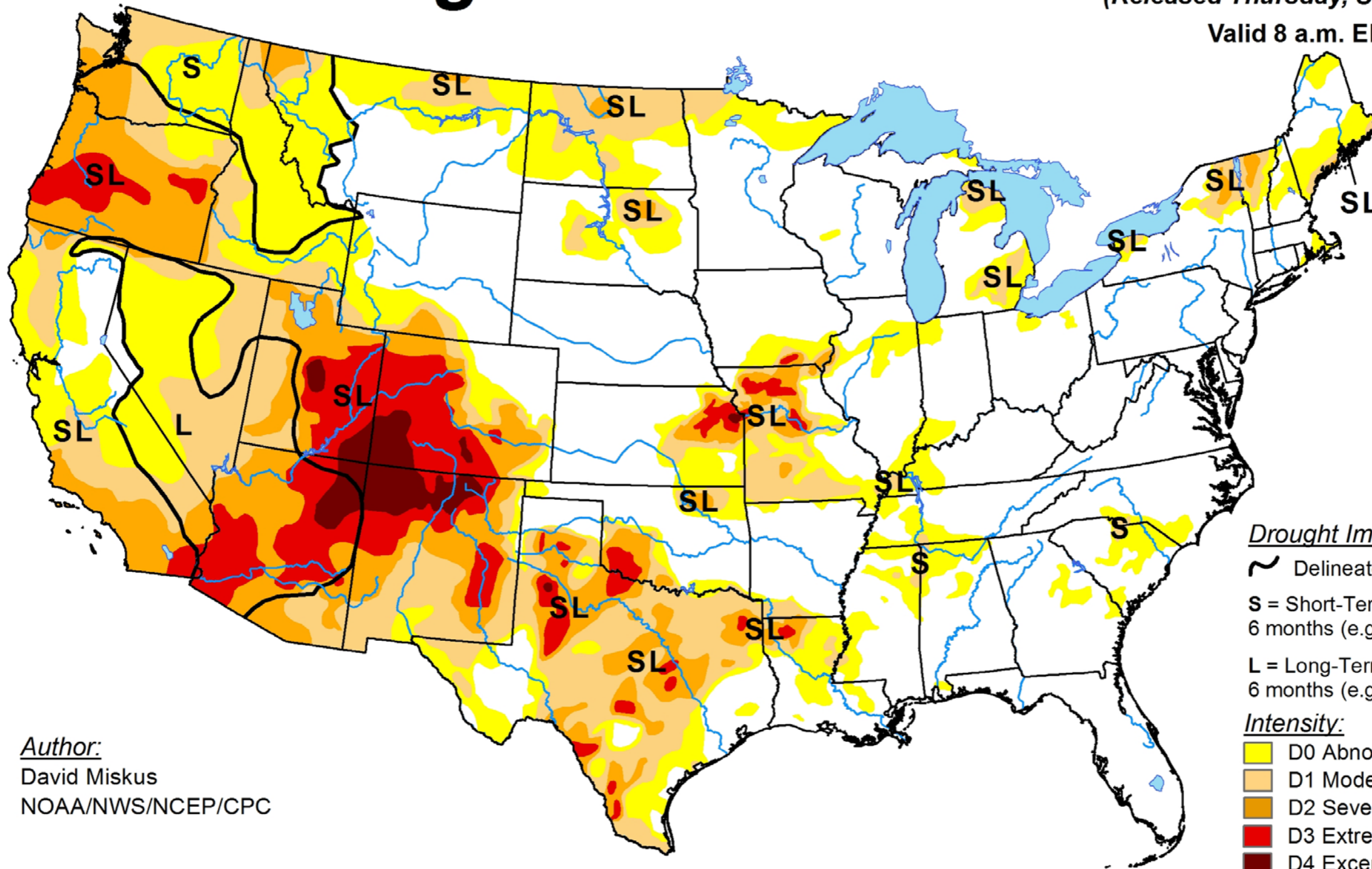
Questions?

RECLAMATION

U.S. Drought Monitor

September 4, 2018
(Released Thursday, Sep. 6, 2018)

Valid 8 a.m. EDT



Author:
David Miskus
NOAA/NWS/NCEP/CPC

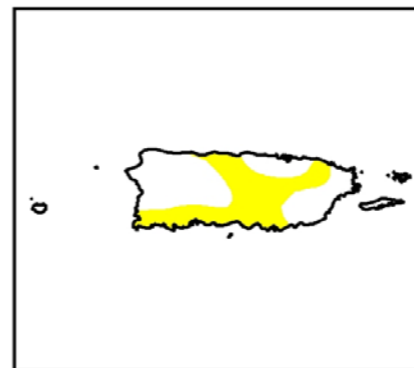
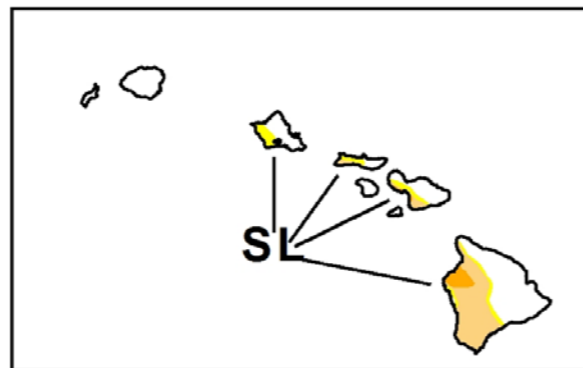
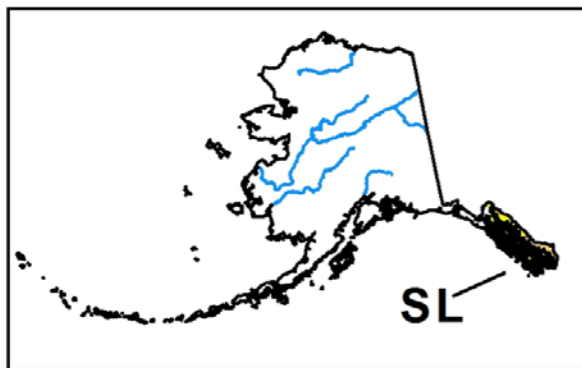
Drought Impact Types:

- Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

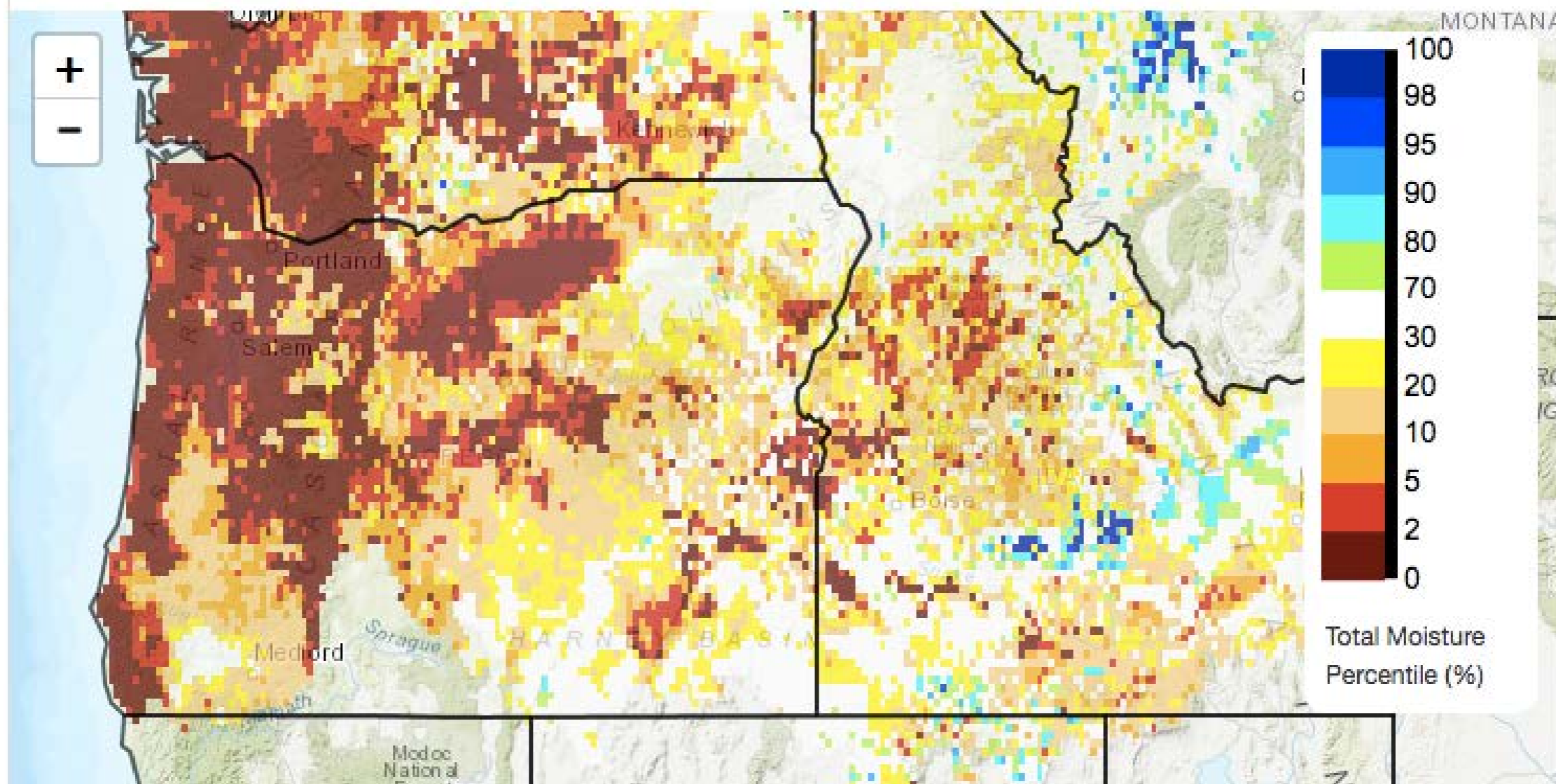
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>

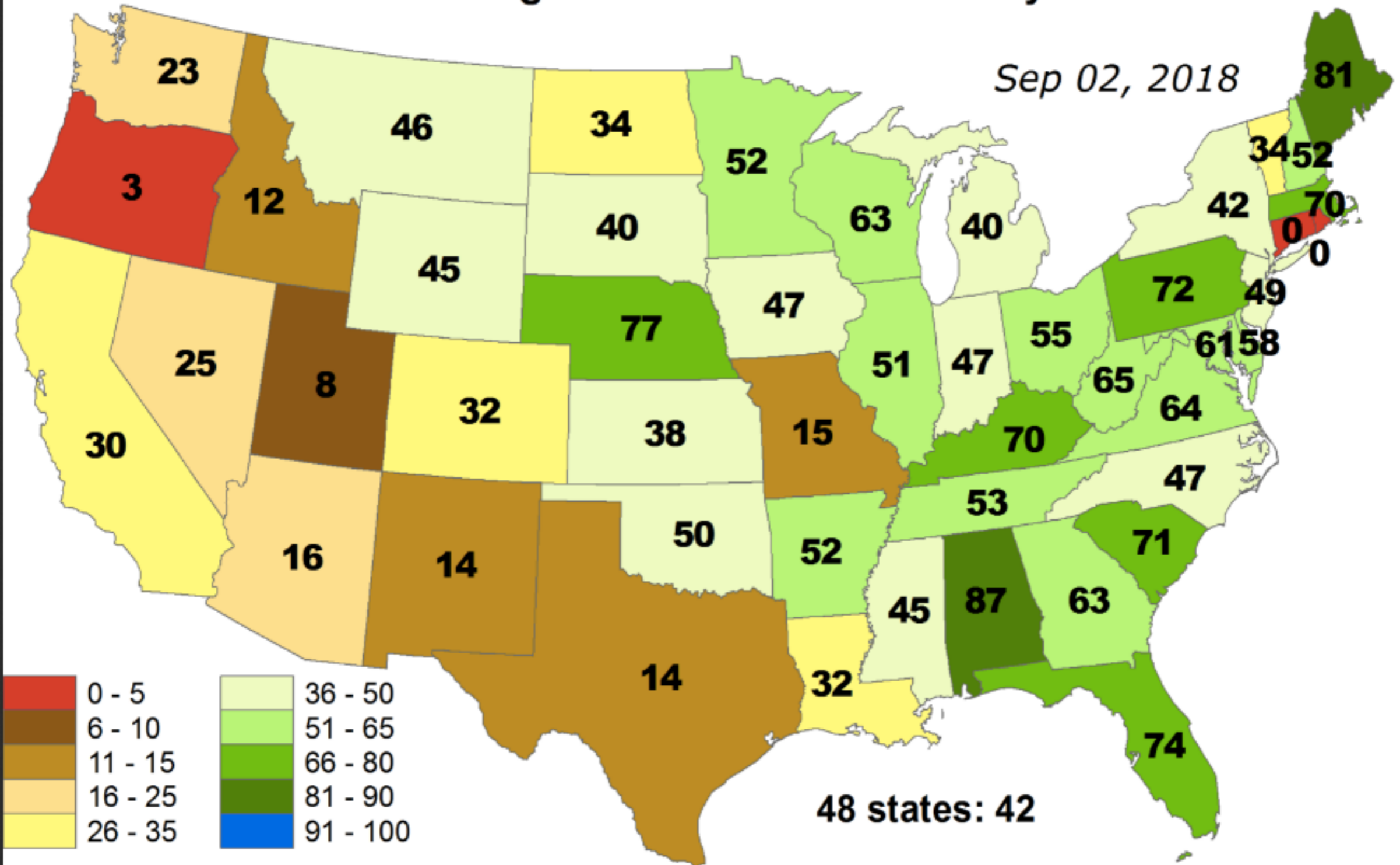
Total Moisture Percentile (1981-2010), Yesterday

2018/09/09



Percent of Pasture & Range Land in "Good" or "Very Good" Condition

Sep 02, 2018



Average Pasture and Range Land Condition PERCENTILE

Sep 02, 2018

