

2019 Idaho Water Supply Committee Meeting

January 11, 2019

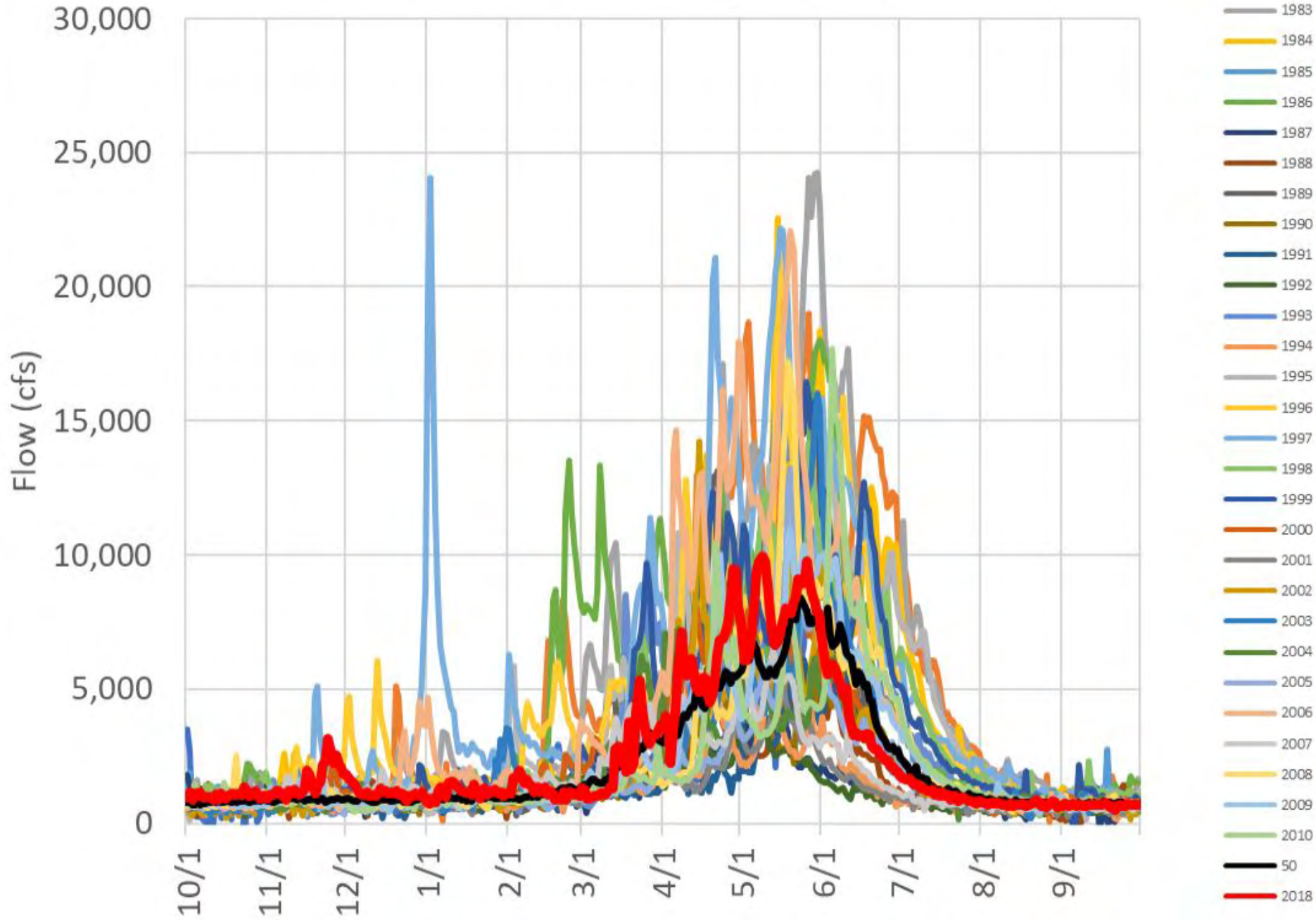
Ryan Hedrick

Middle Snake Field Office – Water Operations

Overview

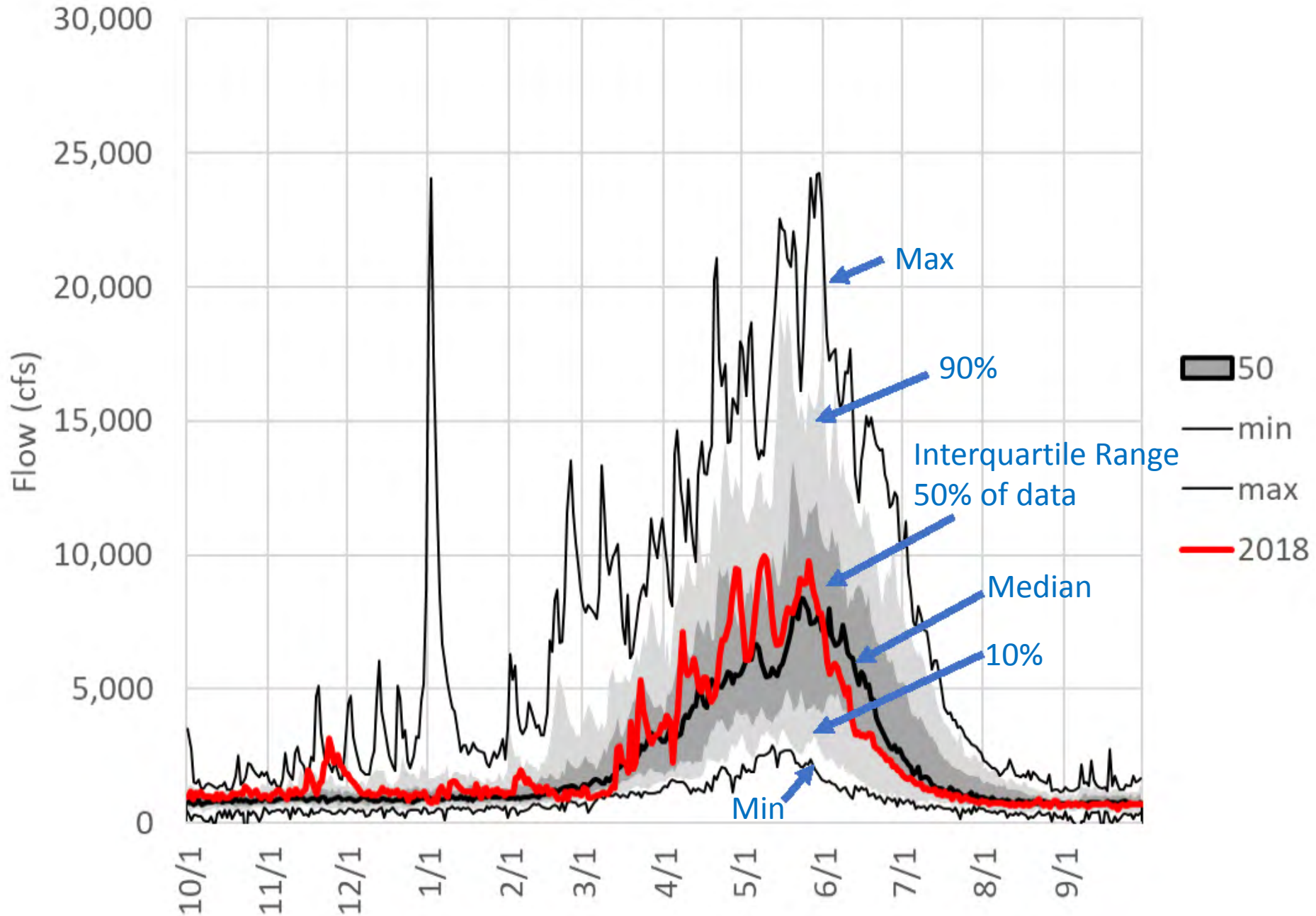
- **WY2018 Review**
- **Current Conditions**
- **WY2019 Outlook**

Boise Reservoir System Inflow



Boise Reservoir System Inflow

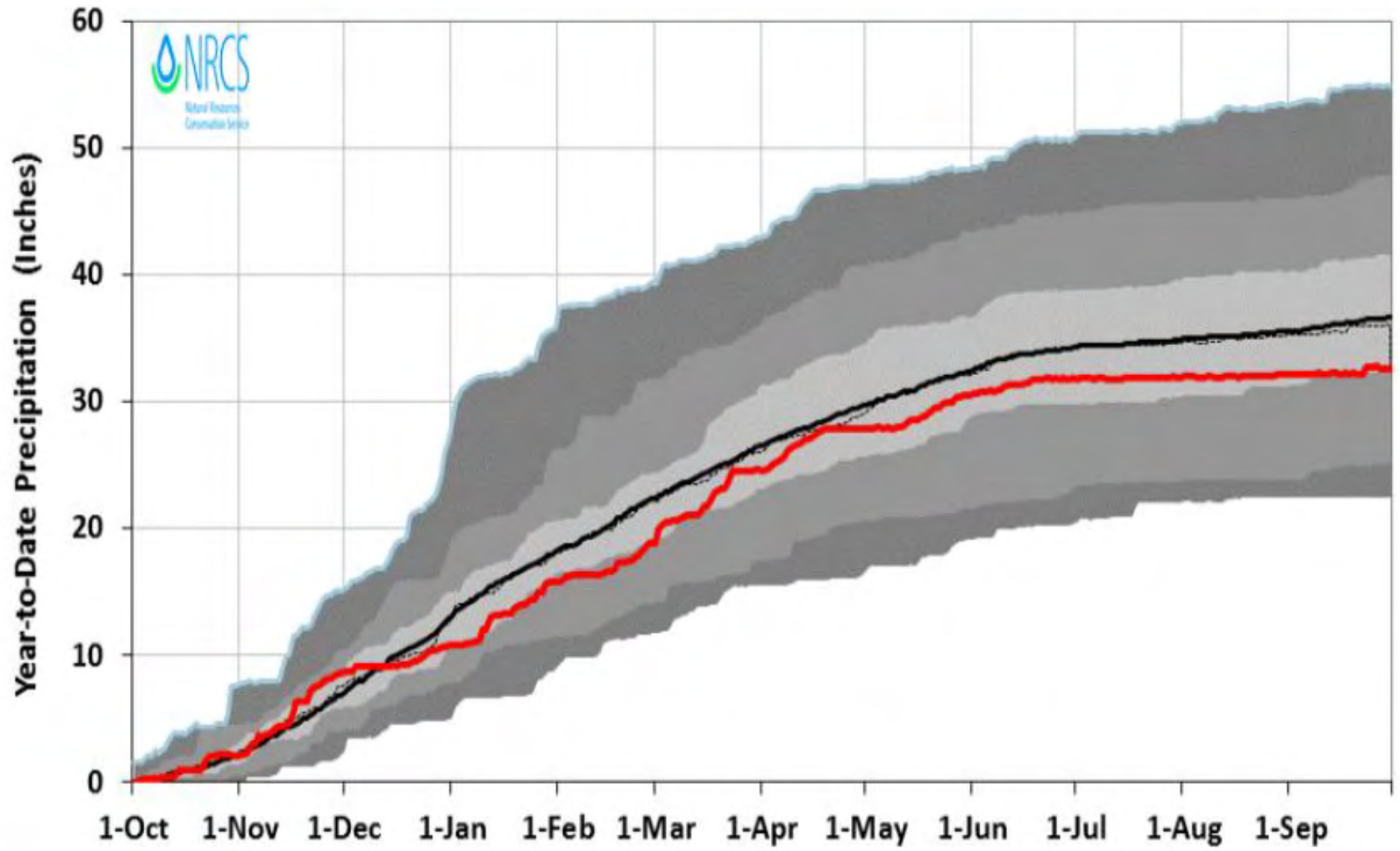
Stats: WY1981-WY2010



Boise Basin 2018 Precipitation with Non-Exceedence Projections (10 sites)

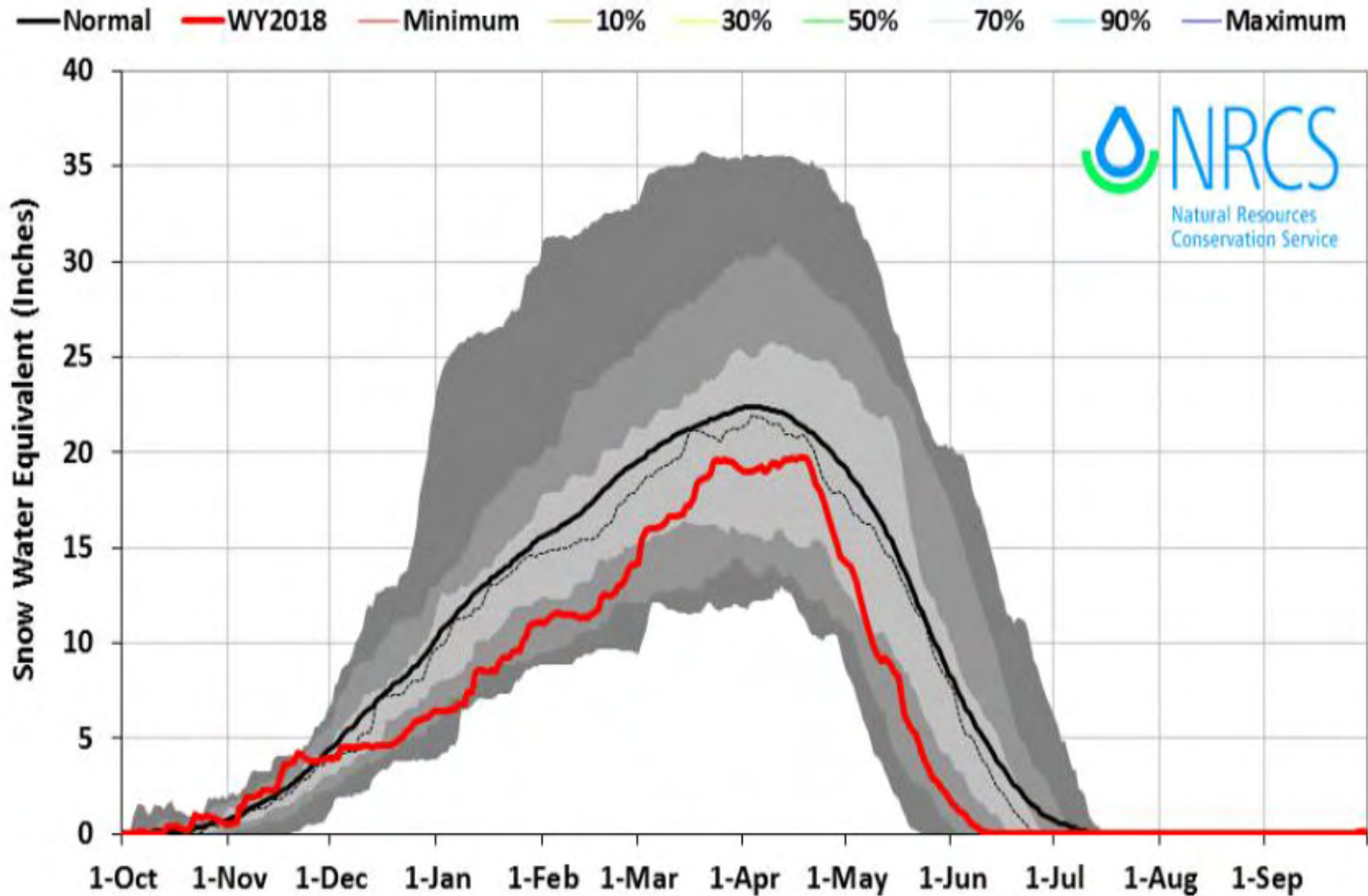
Updated for National Weather Service data as of Sep 30, 2018

— Ave (81-10) **WY2018** Minimum 10% 30% 50% 70% 90% Maximum

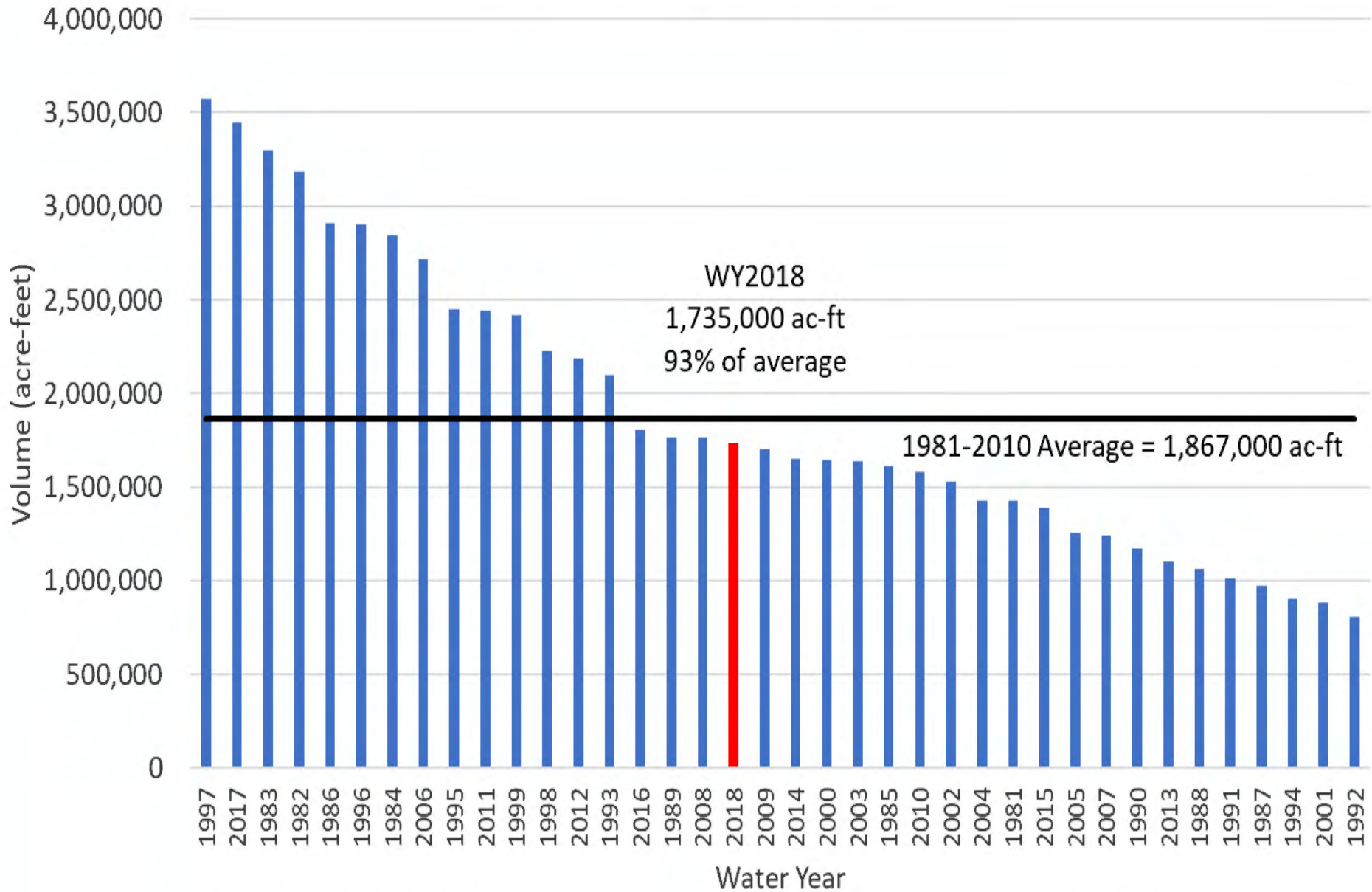


Boise Basin 2018 Snow Water with Non-Exceedence Projections (10 sites)

Pasadena Project in SVJTEL data as of Sep 30, 2018

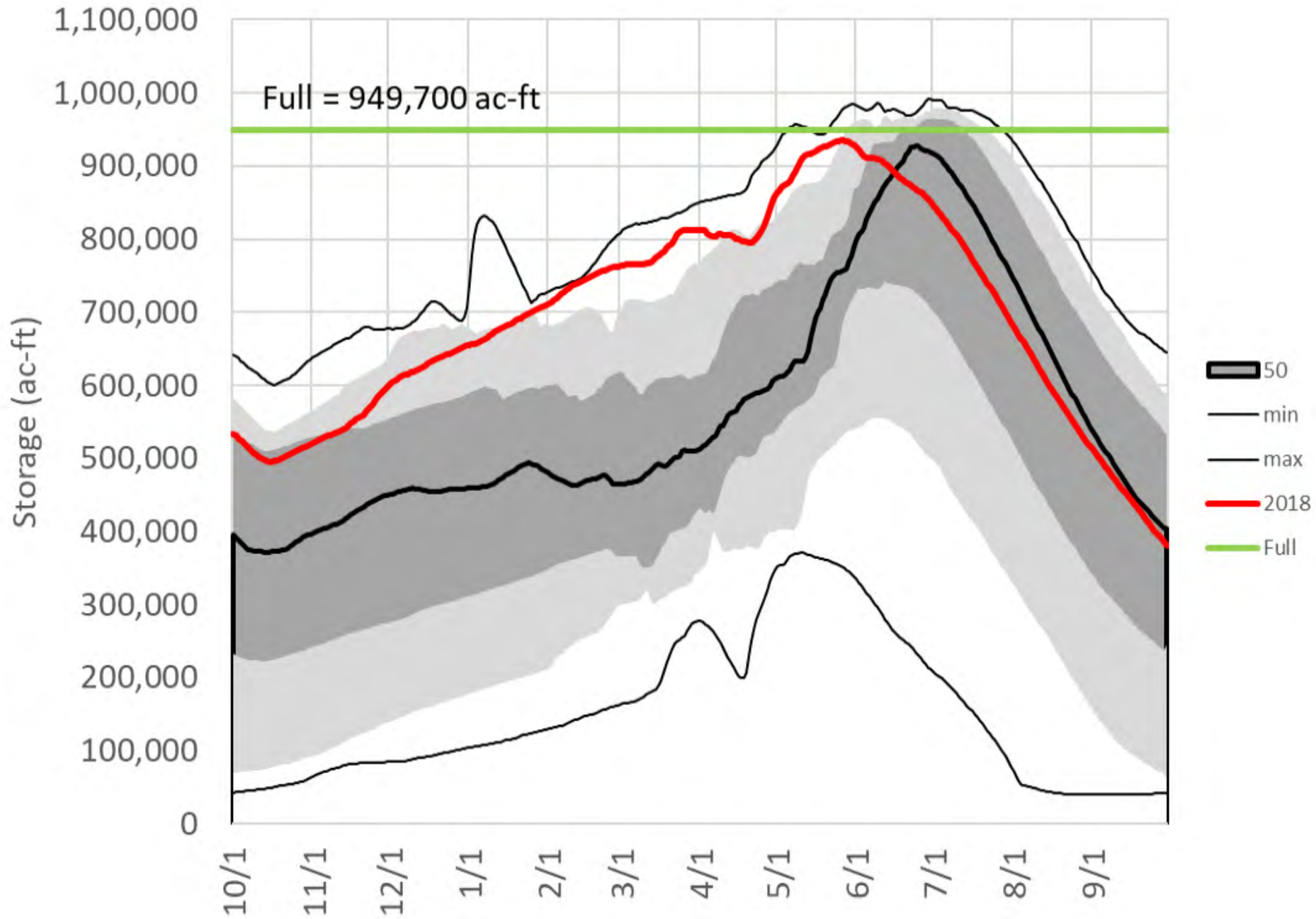


Boise Reservoir System Annual (Oct-Sep) Inflow WY1981 to WY2018

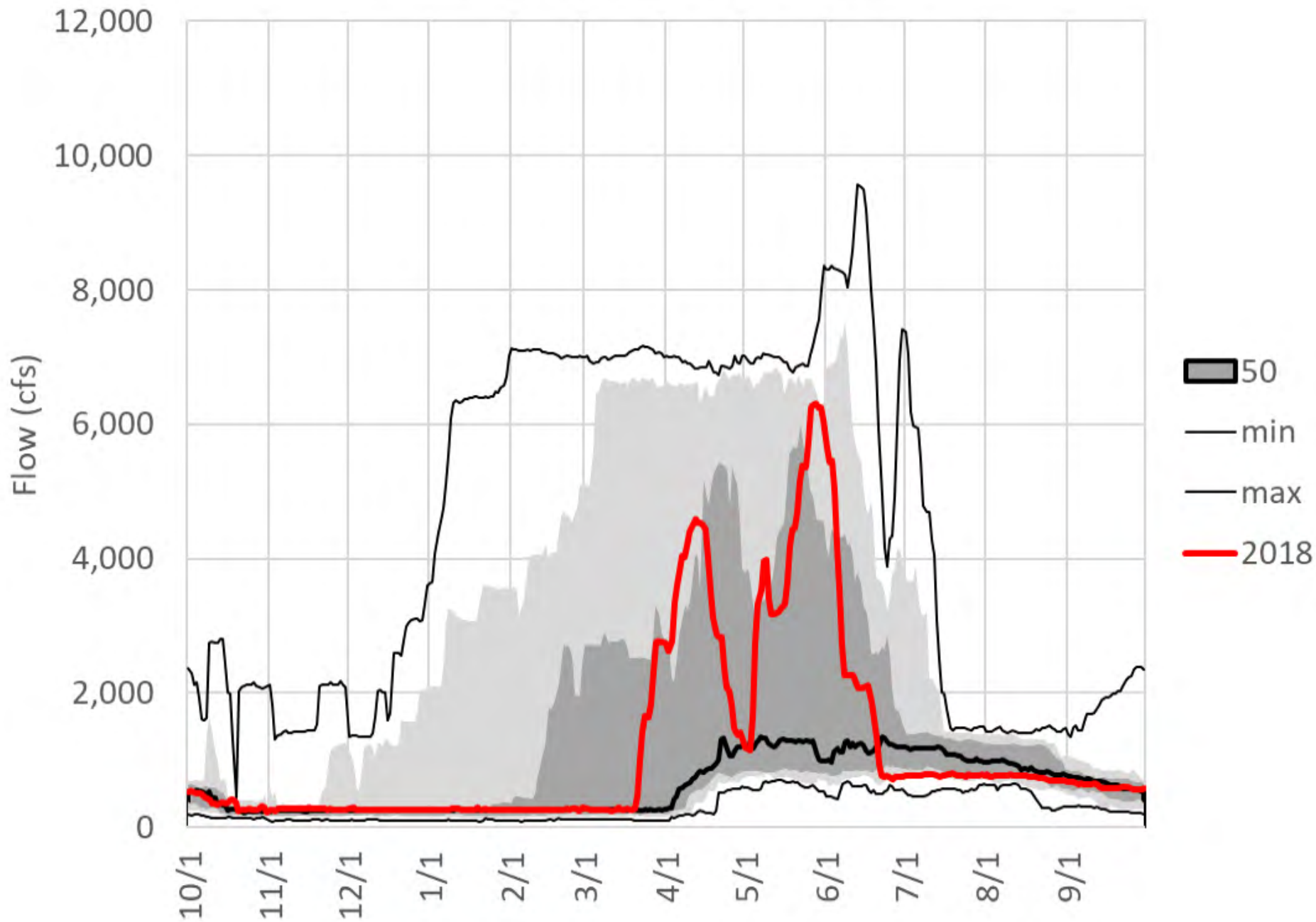


Boise Reservoir System

Stats: WY1981-WY2010



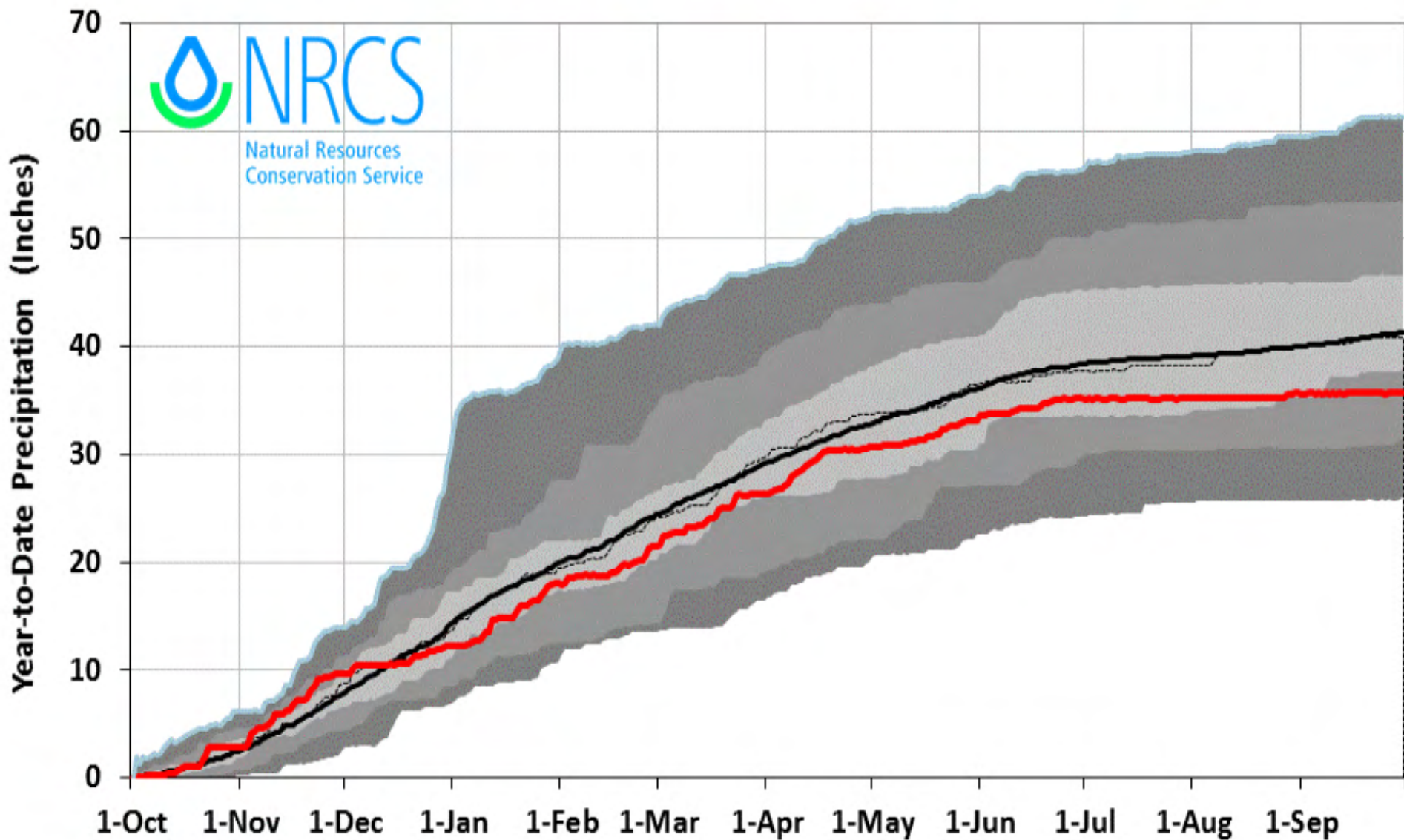
Boise River at Glenwood Bridge Flow Stats: WY1981-WY2010



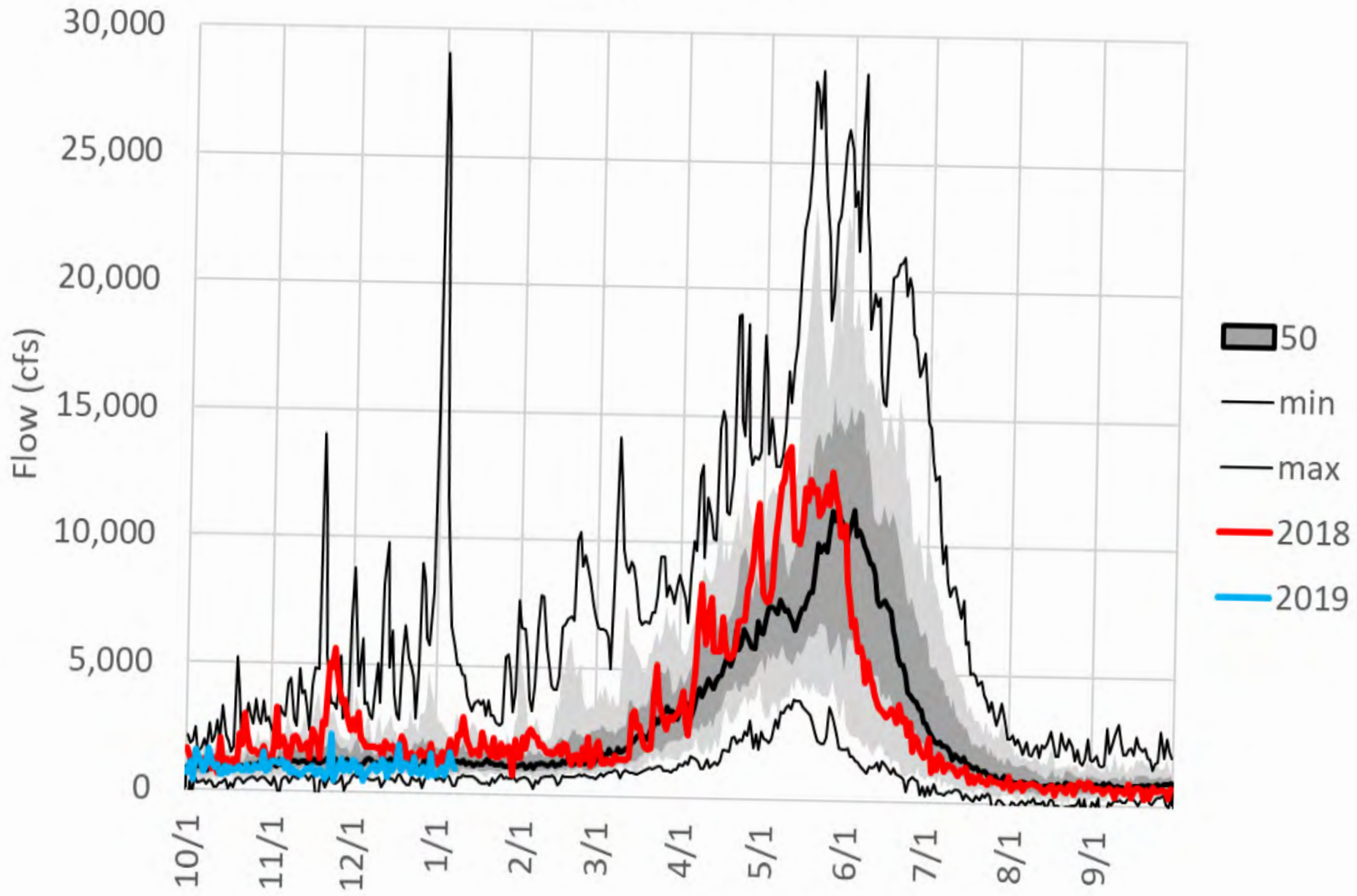
Payette Basin 2018 Precipitation with Non-Exceedence Projections (11 sites)

Based on Provisional SNOTEL data as of Sep 30, 2018

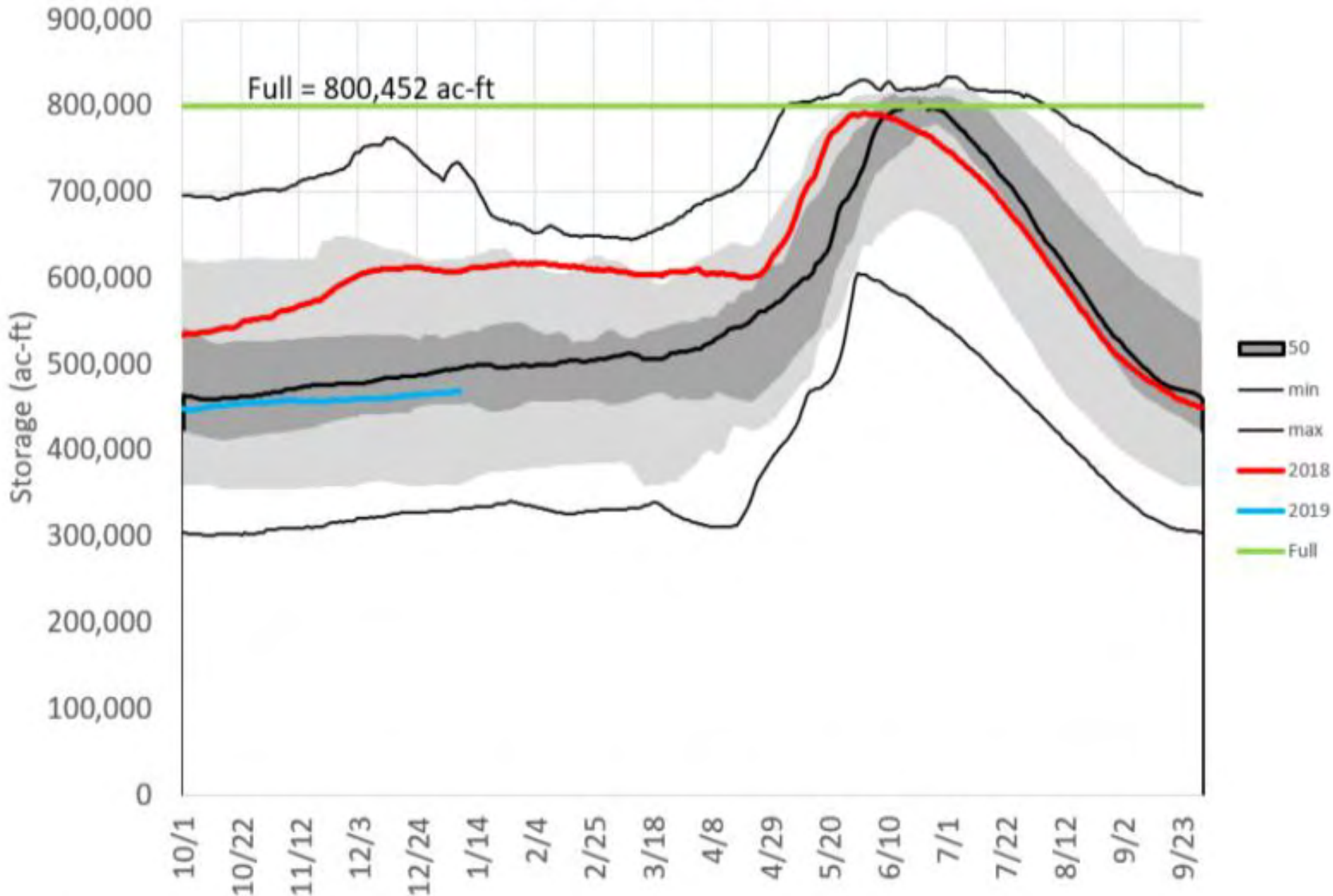
— Ave (81-10) **— WY2018** — Minimum — 10% — 30% — 50% — 70% — 90% — Maximum



Payette River nr Horseshoe Bend Unregulated Flow

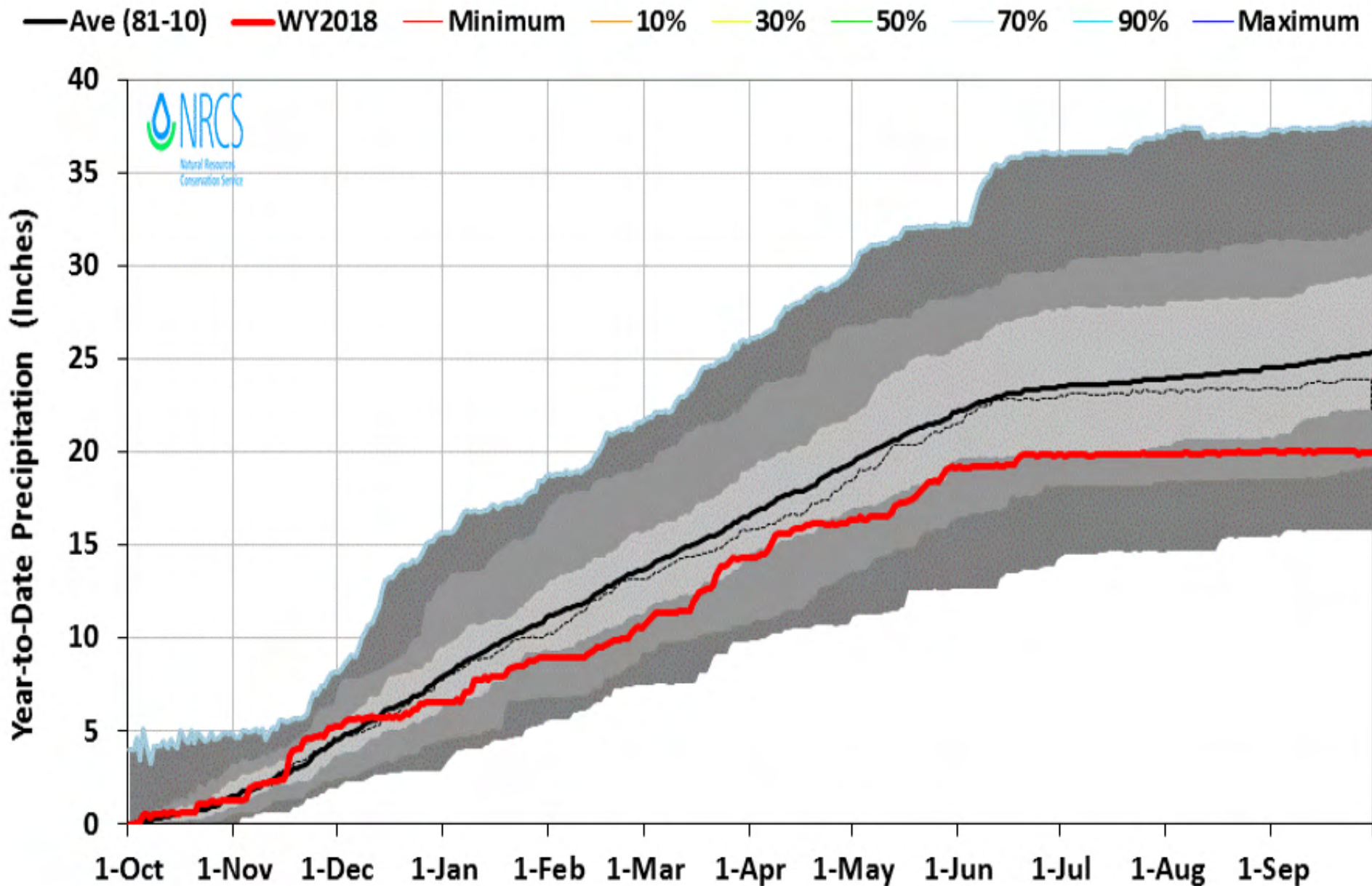


Payette Reservoir System (Cascade + Deadwood)



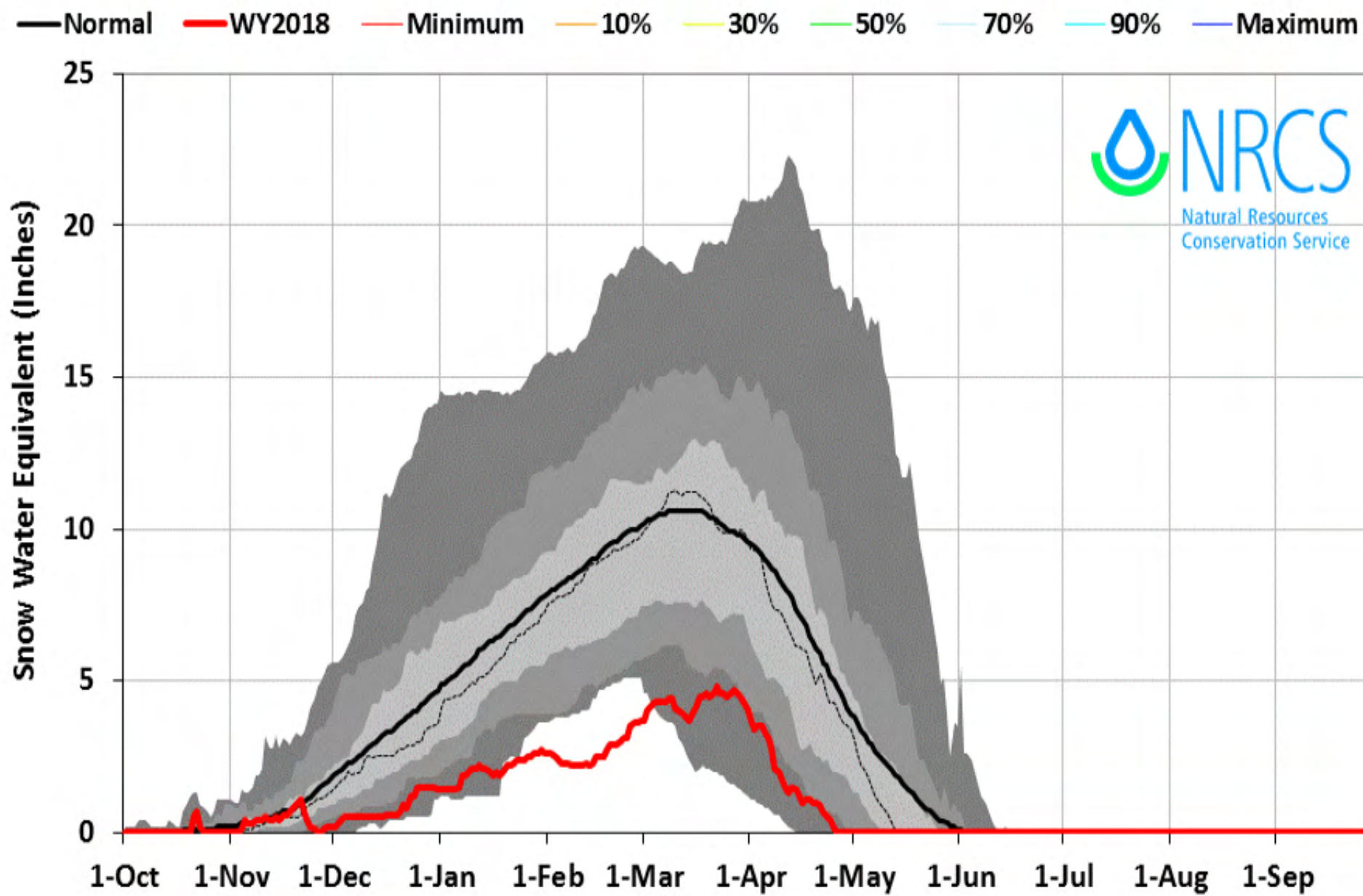
Owyhee Basin 2018 Precipitation with Non-Exceedence Projections (7 sites)

Based on Provisional SNOTEL data as of Sep 30, 2018

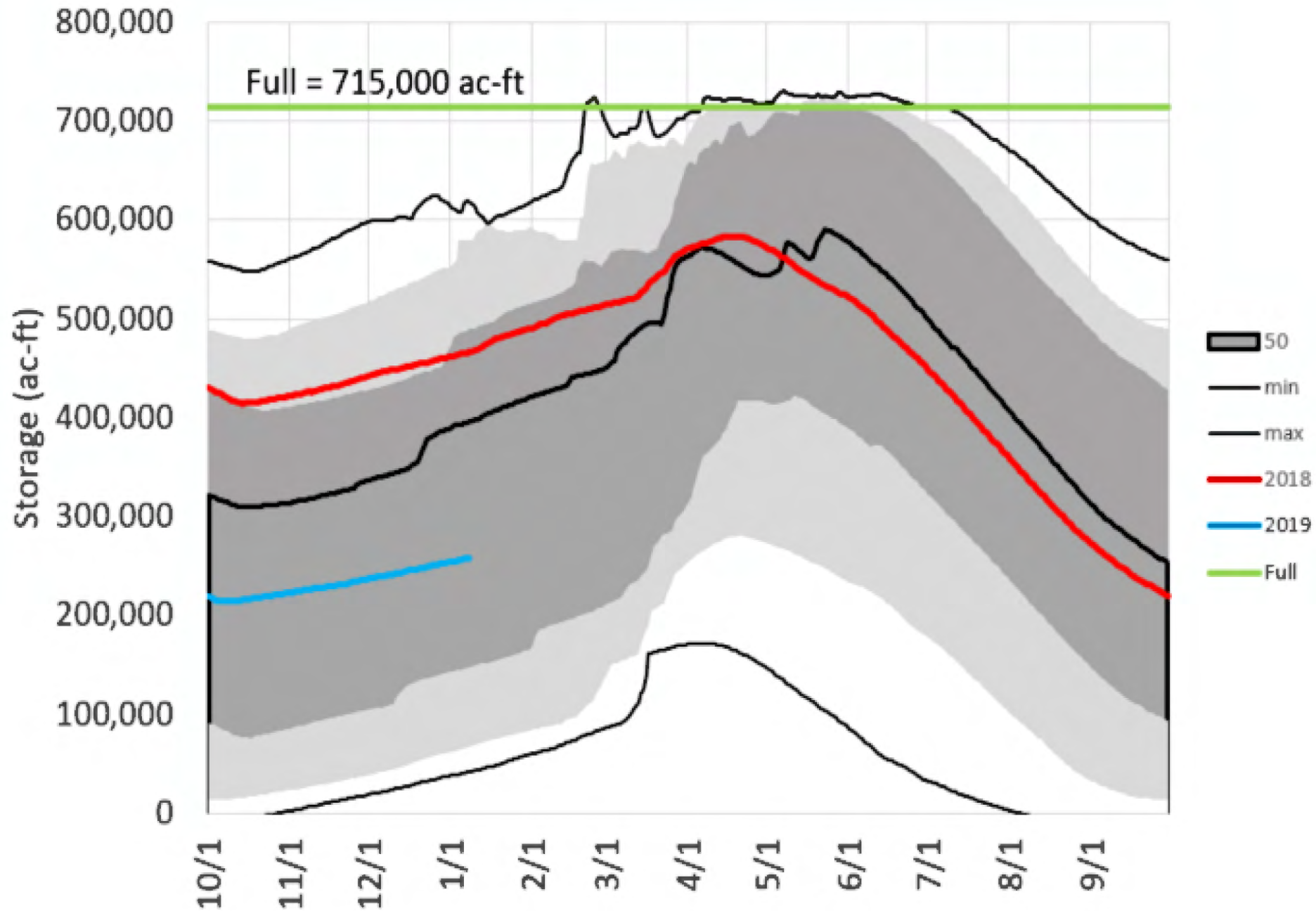


Owyhee Basin 2018 Snow Water with Non-Exceedence Projections (7 sites)

Based on Provisional SNOTEL data as of Sep 30, 2018



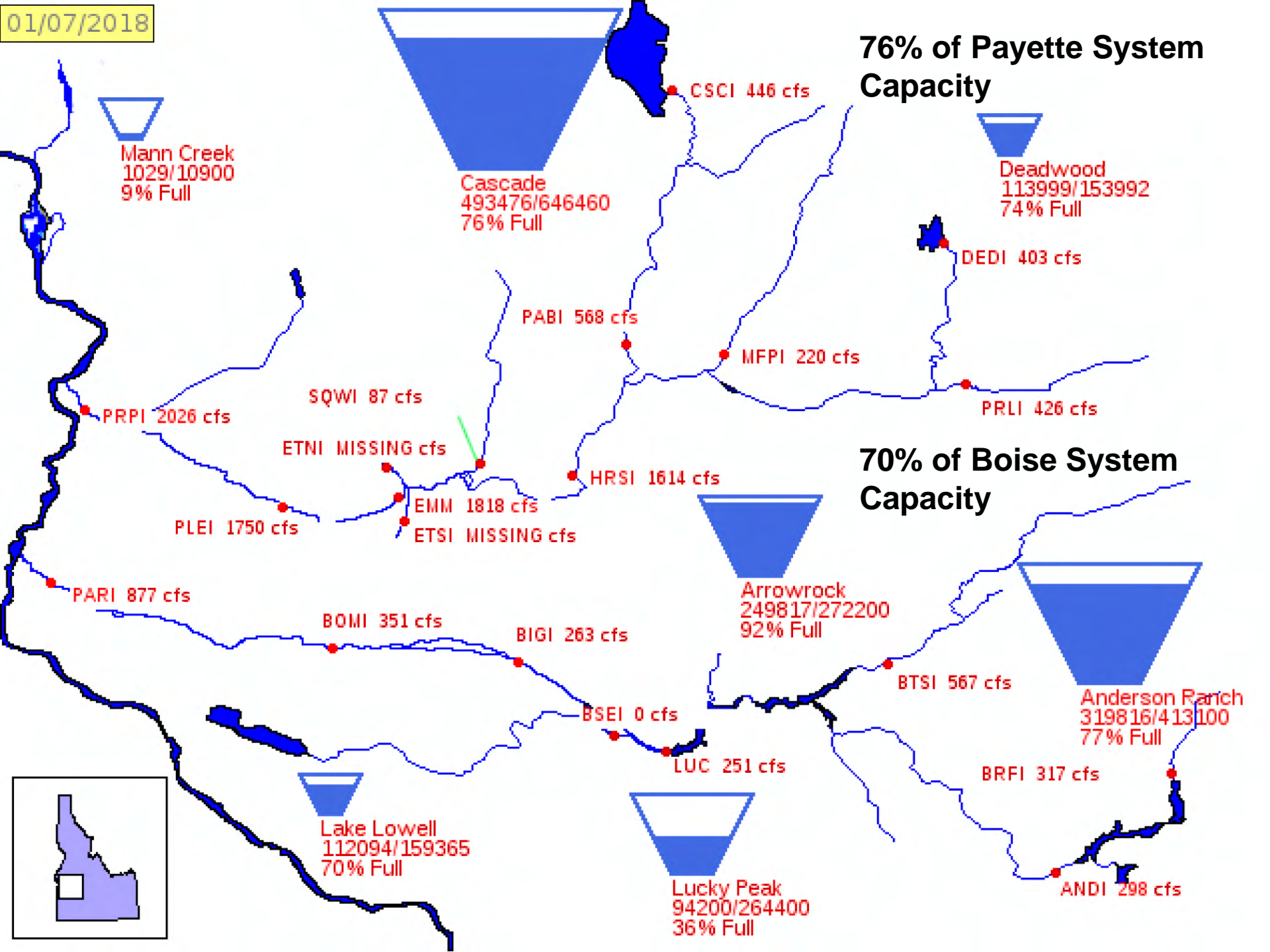
Owyhee Reservoir



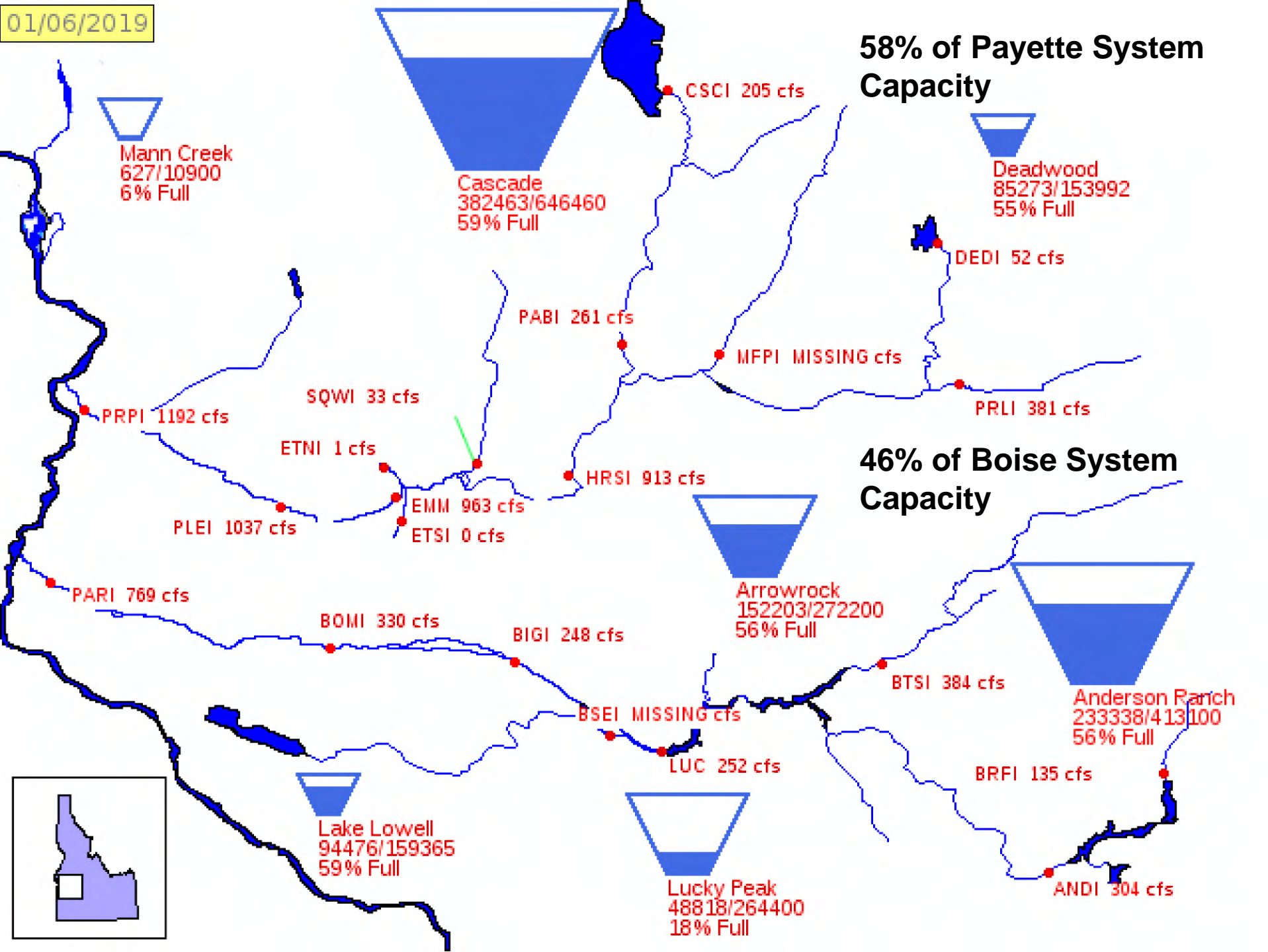
WY2019 Current Conditions

76% of Payette System Capacity

70% of Boise System Capacity

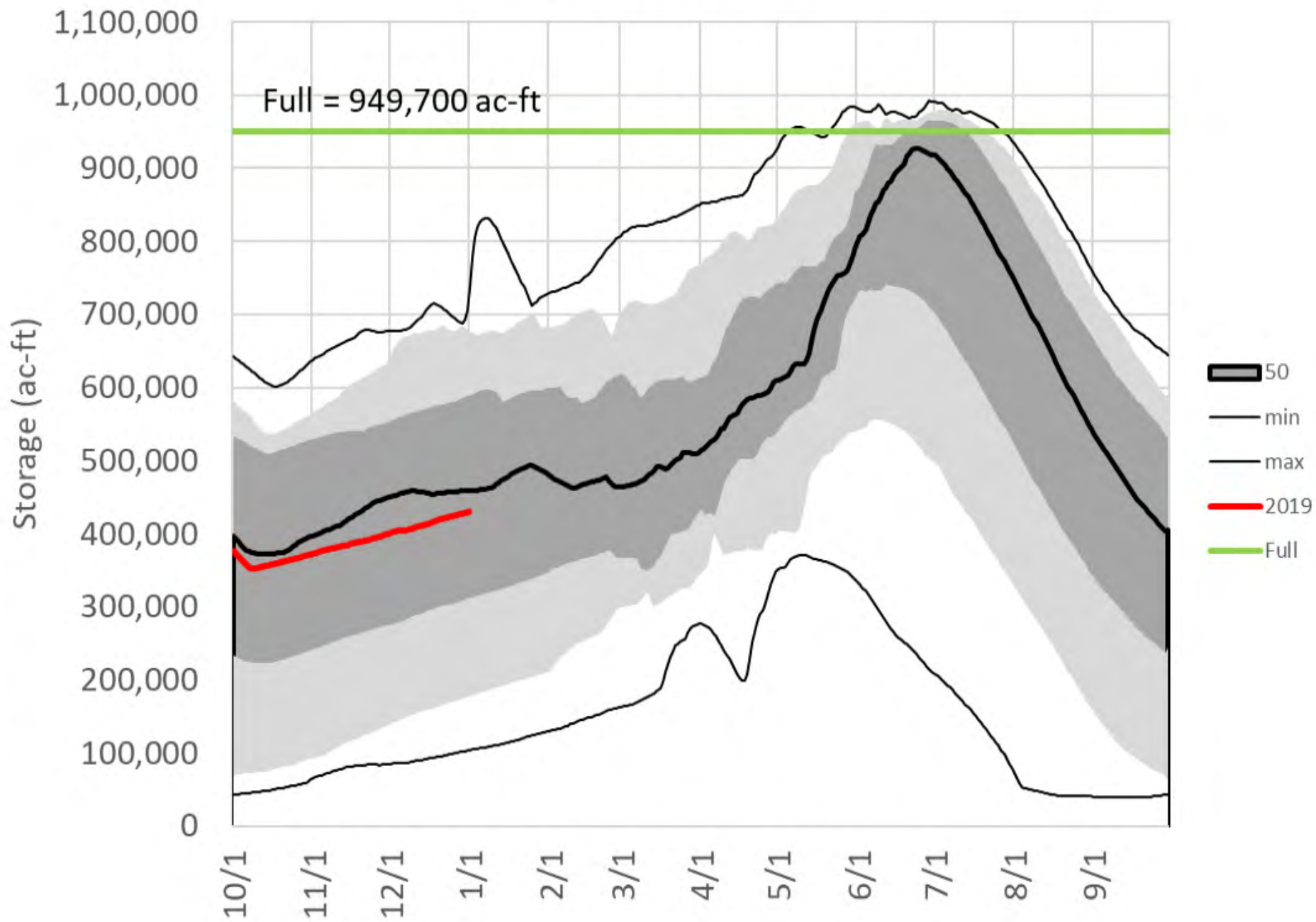


01/06/2019



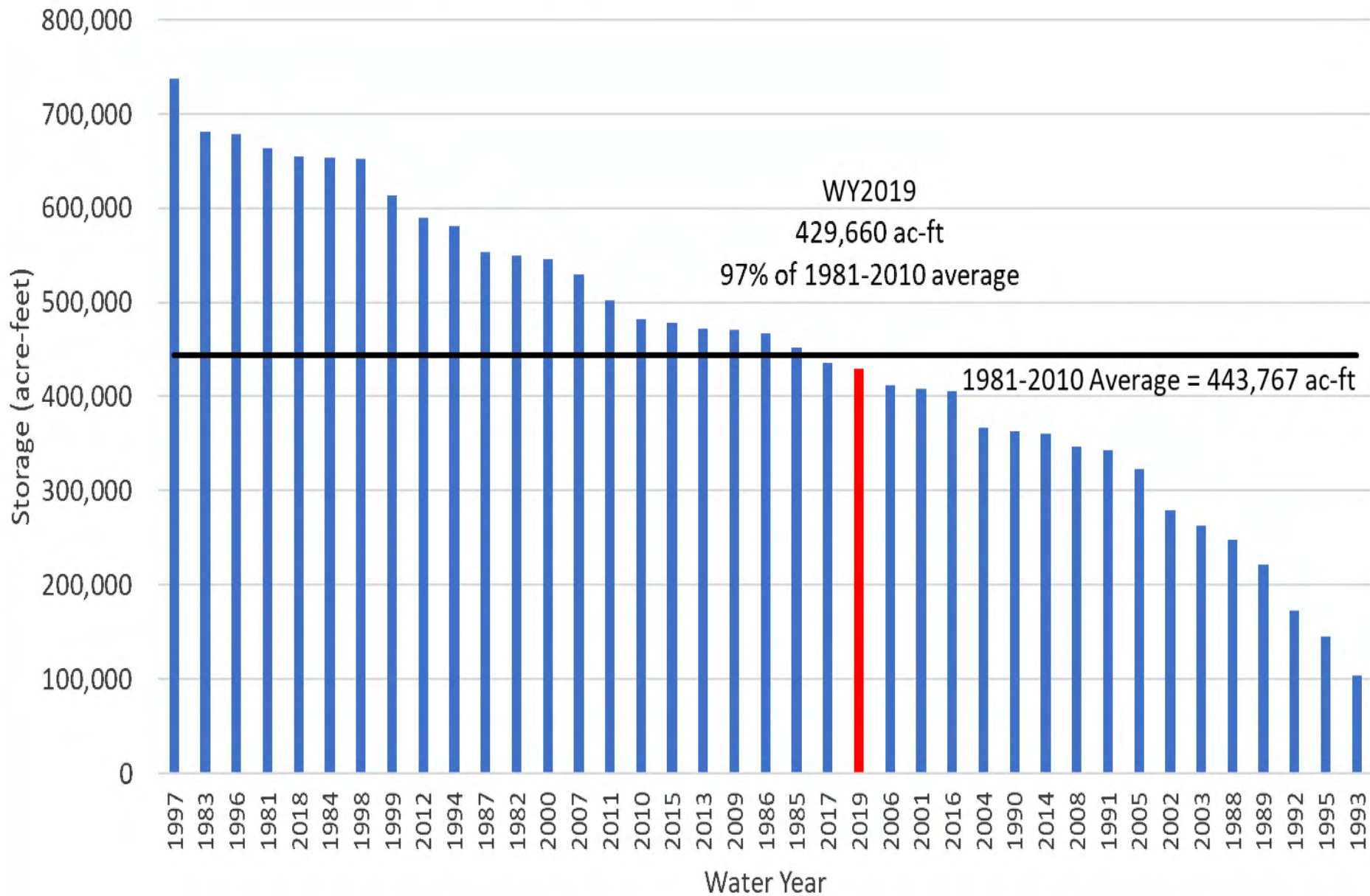
Boise Reservoir System

Stats: WY1981-WY2010

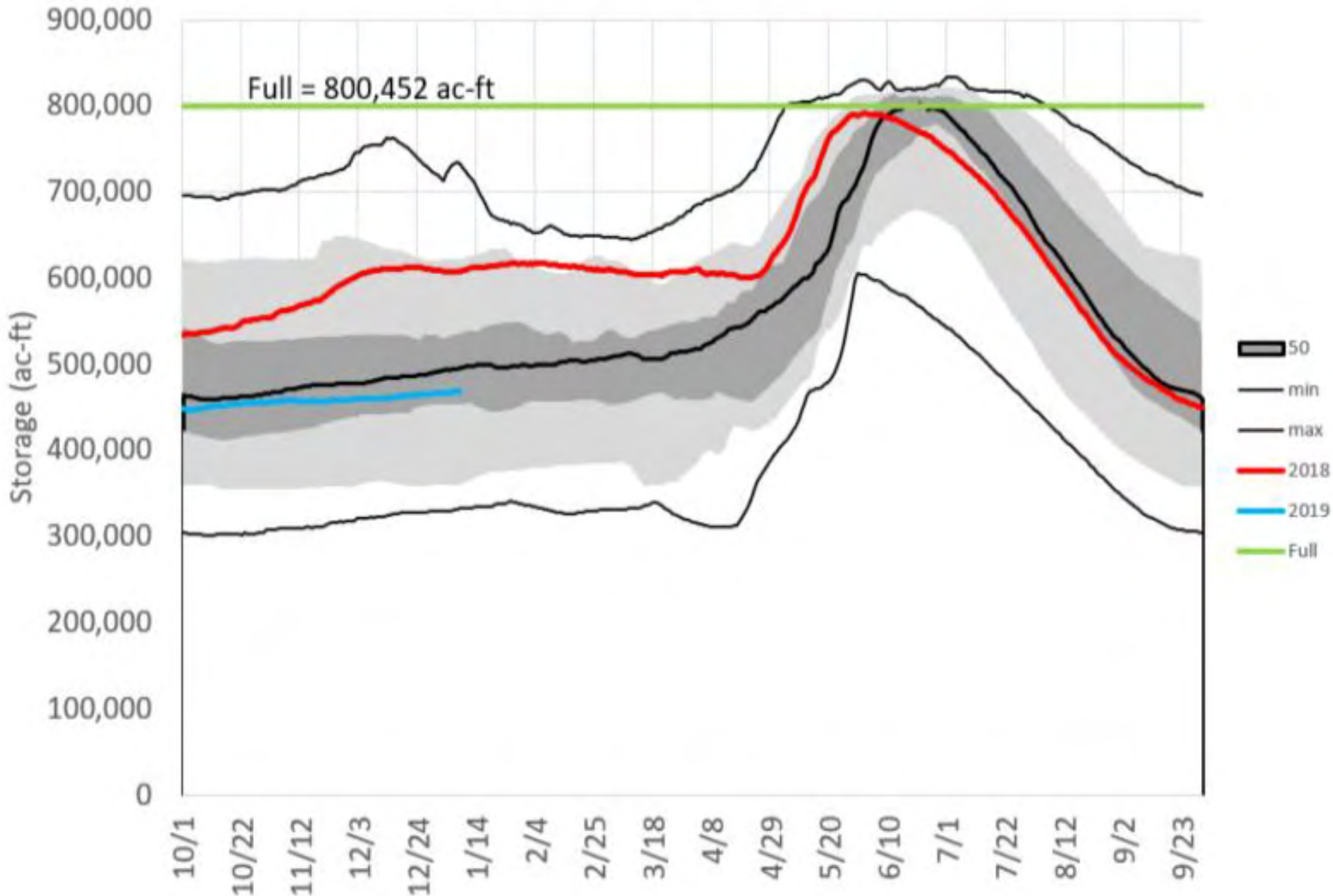


Boise Reservoir System January 1 Contents

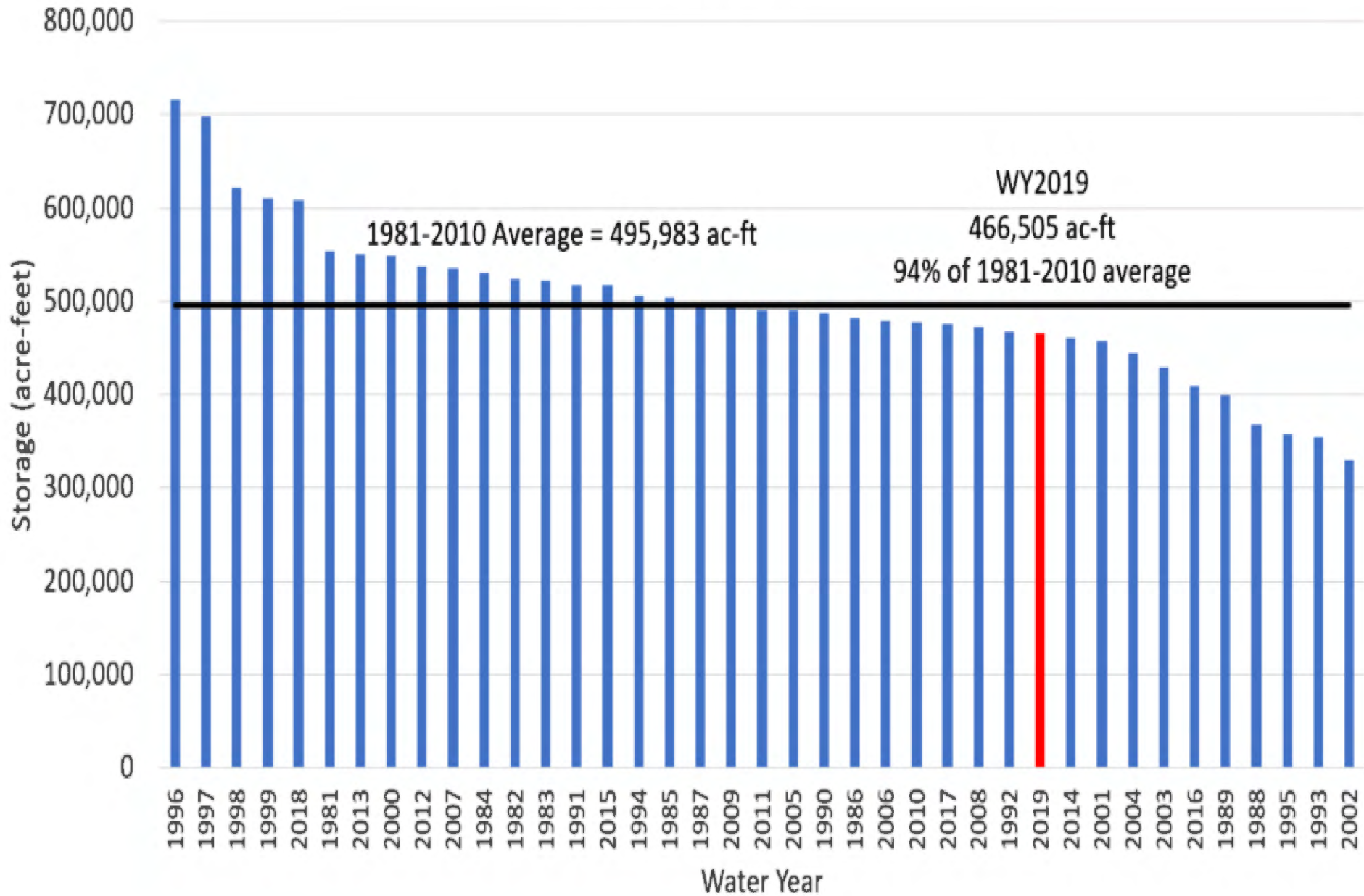
WY1981 to WY2019



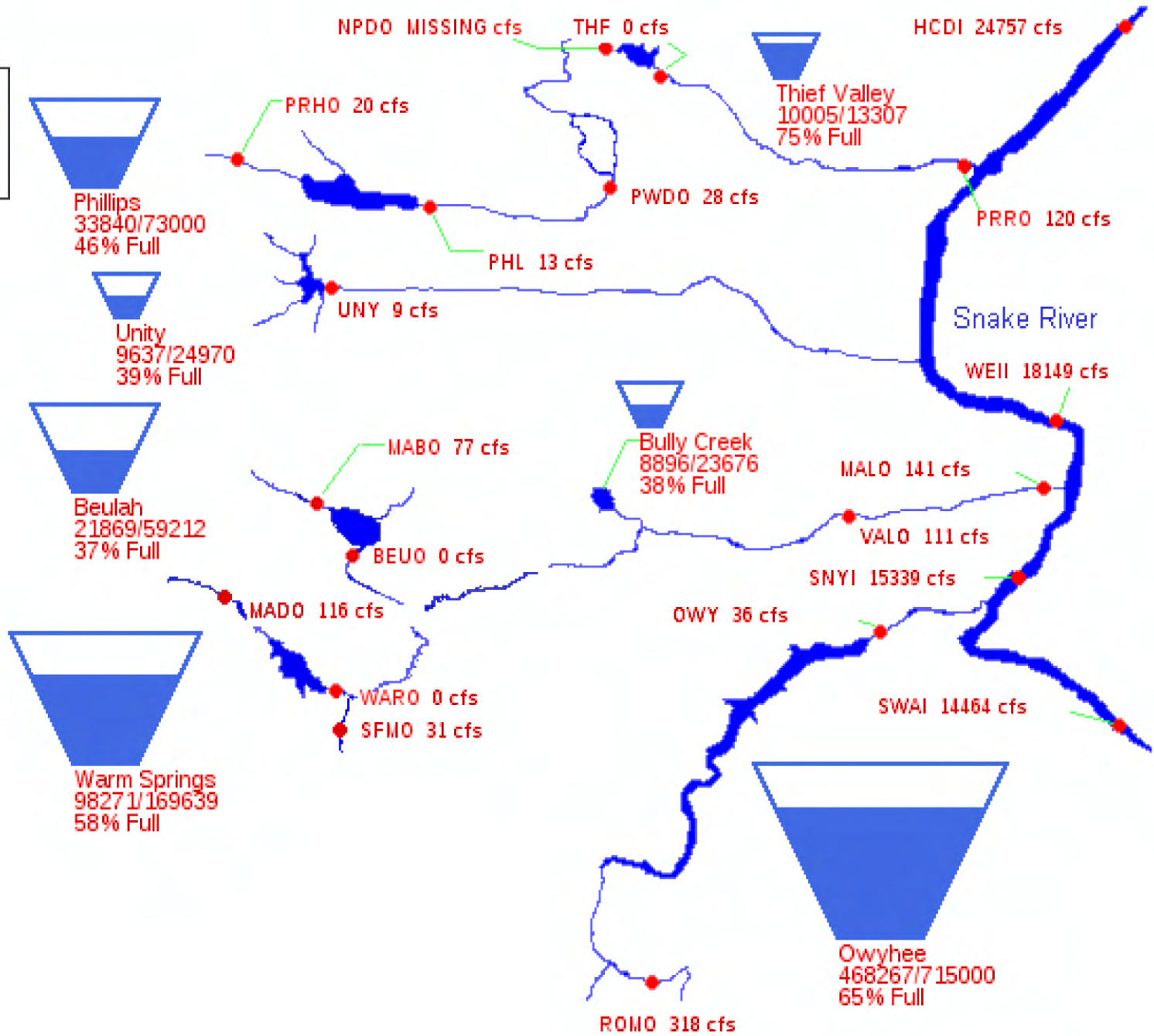
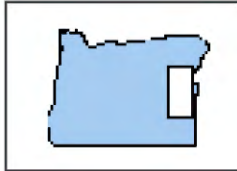
Payette Reservoir System (Cascade + Deadwood)



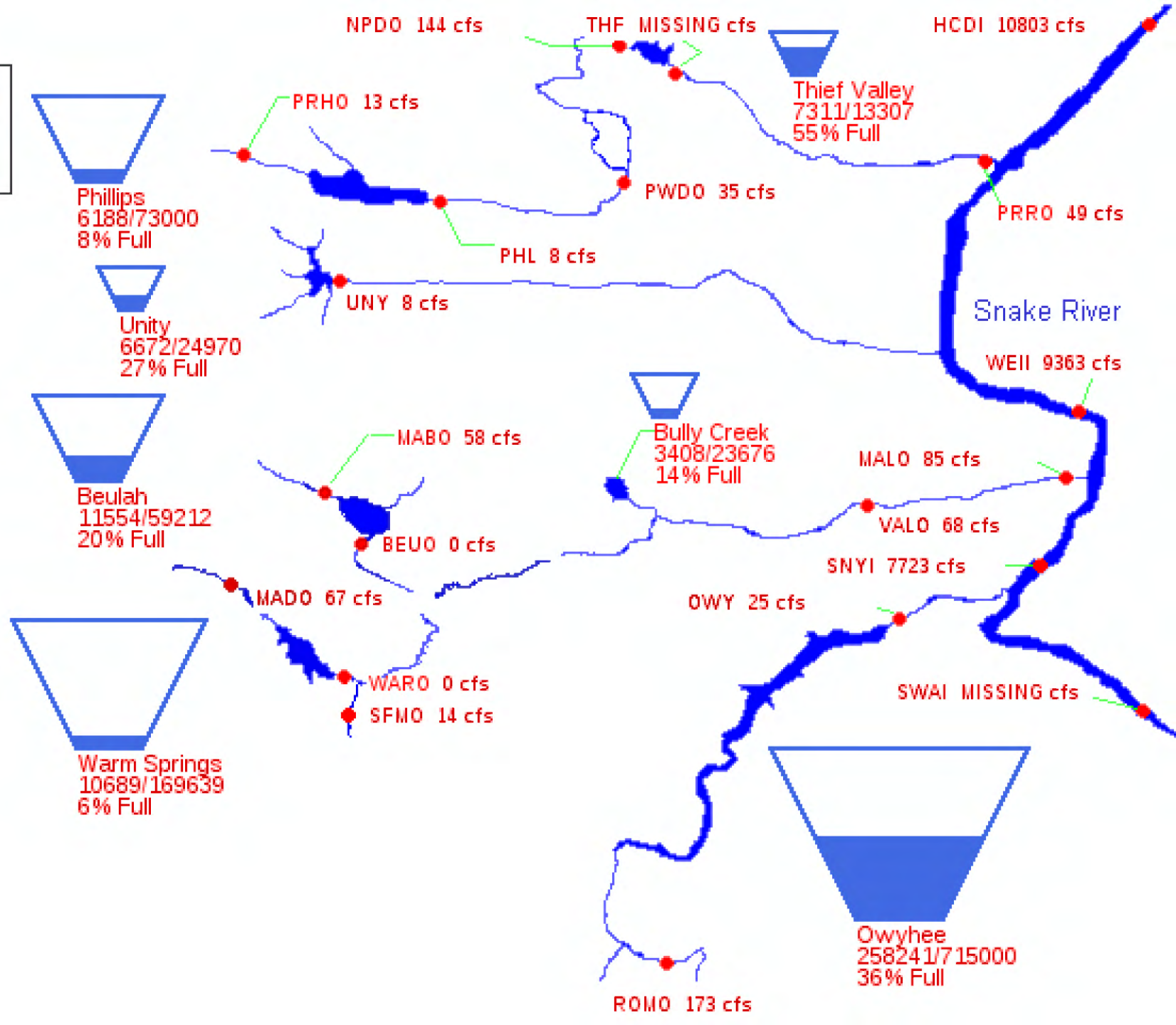
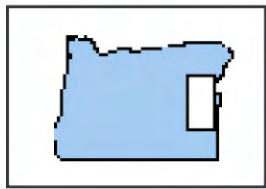
Payette Reservoir System January 1 Contents WY1981 to WY2019



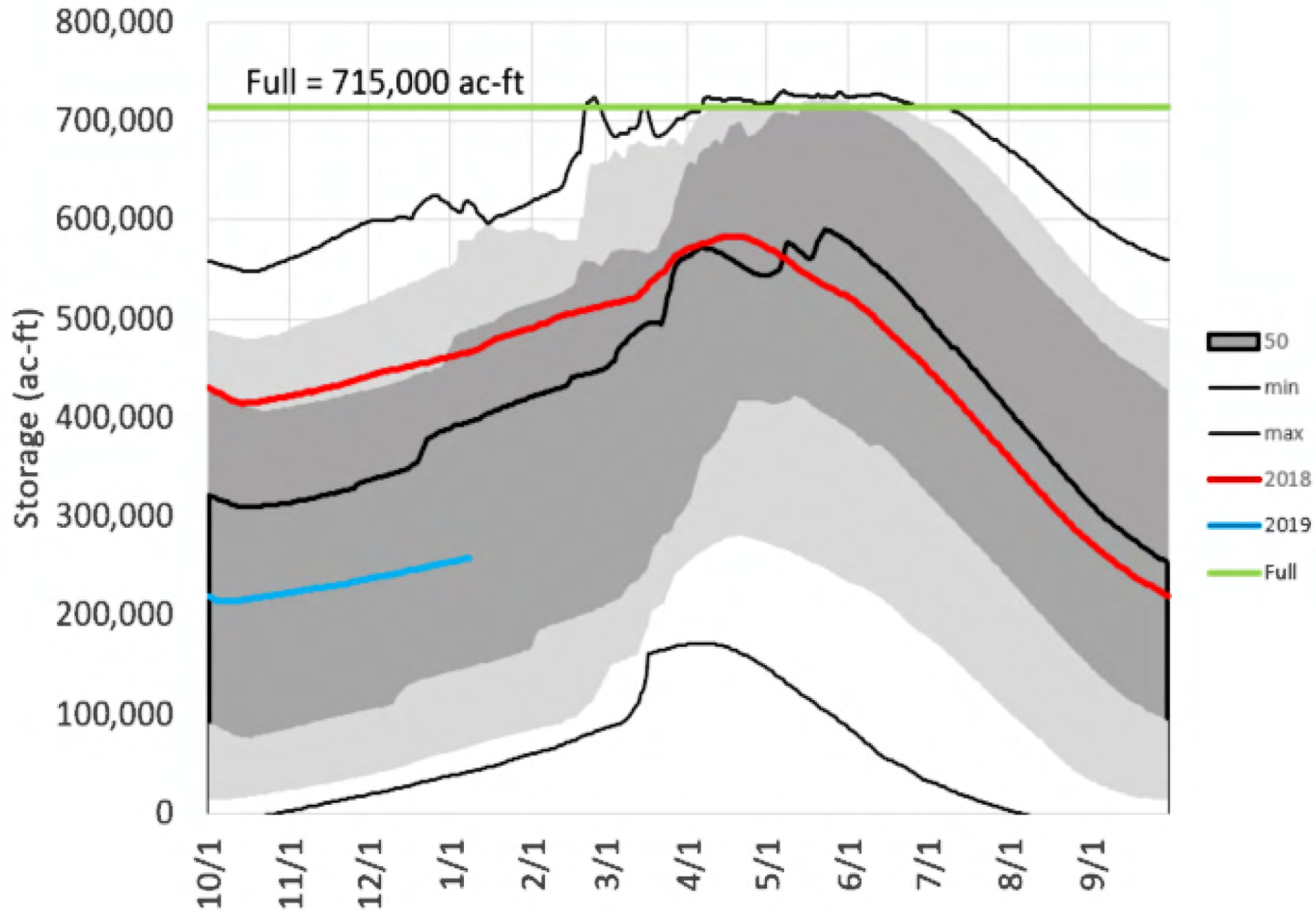
01/10/2018



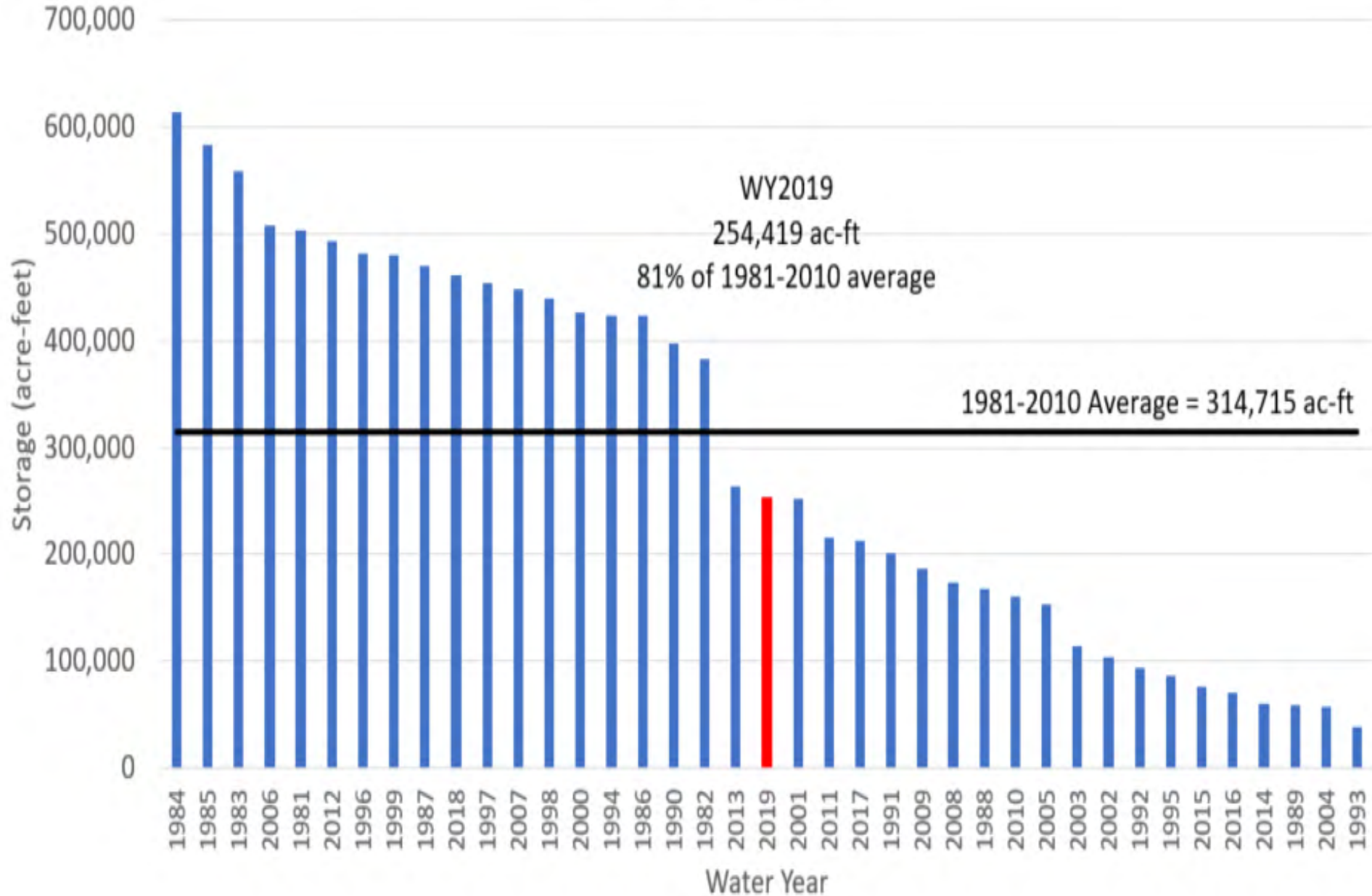
01/09/2019



Owyhee Reservoir

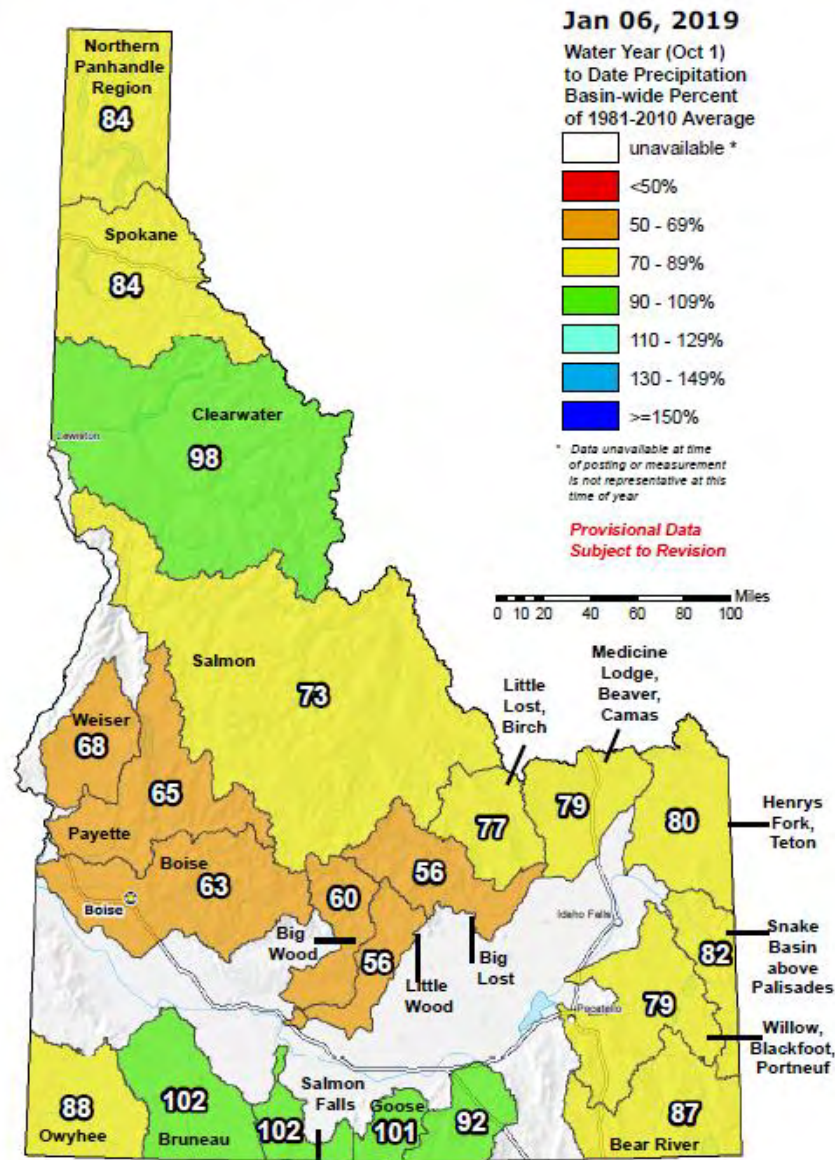


Owyhee Reservoir System January 1 Contents WY1981 to WY2019



WY2019 Outlook

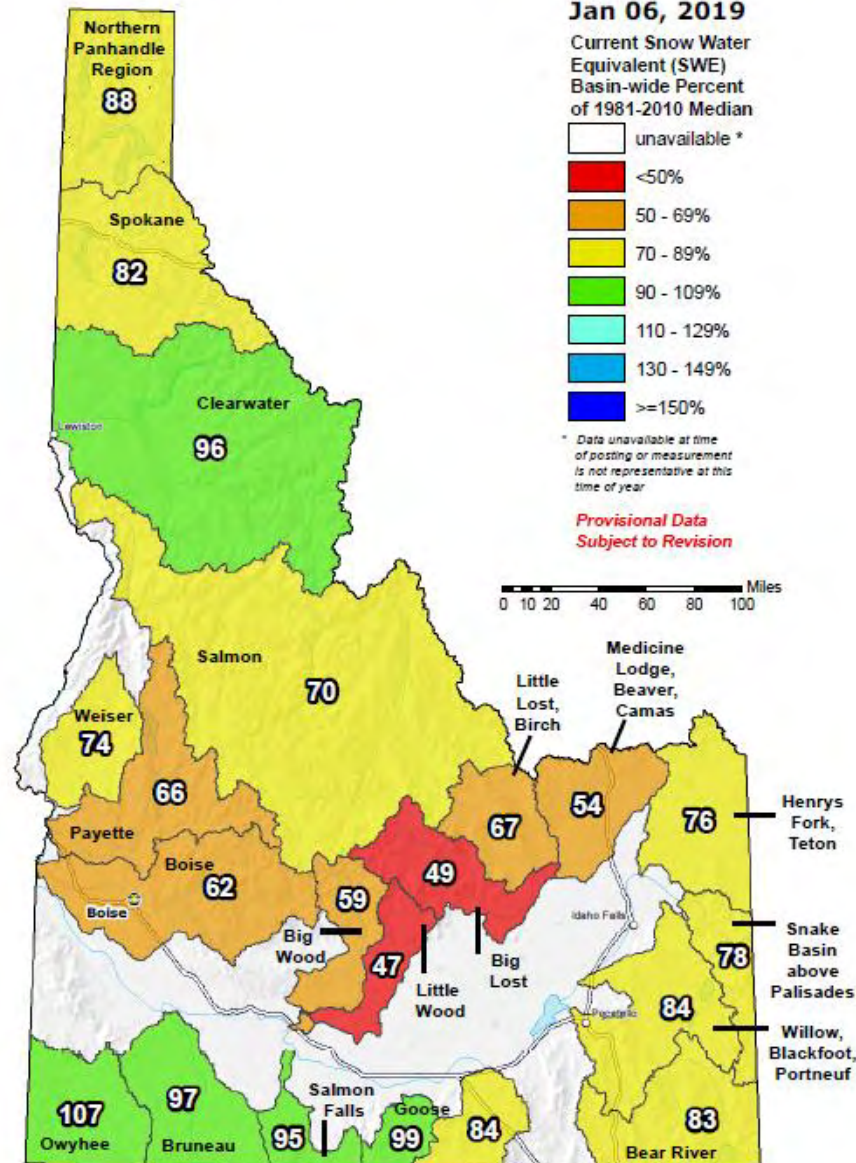
Idaho SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal



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

Idaho SNOTEL Current Snow Water Equivalent (SWE) % of Normal



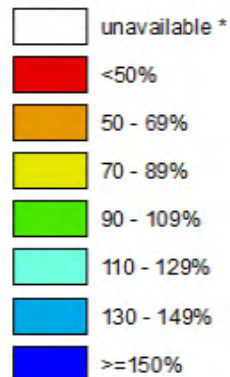
The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

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

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

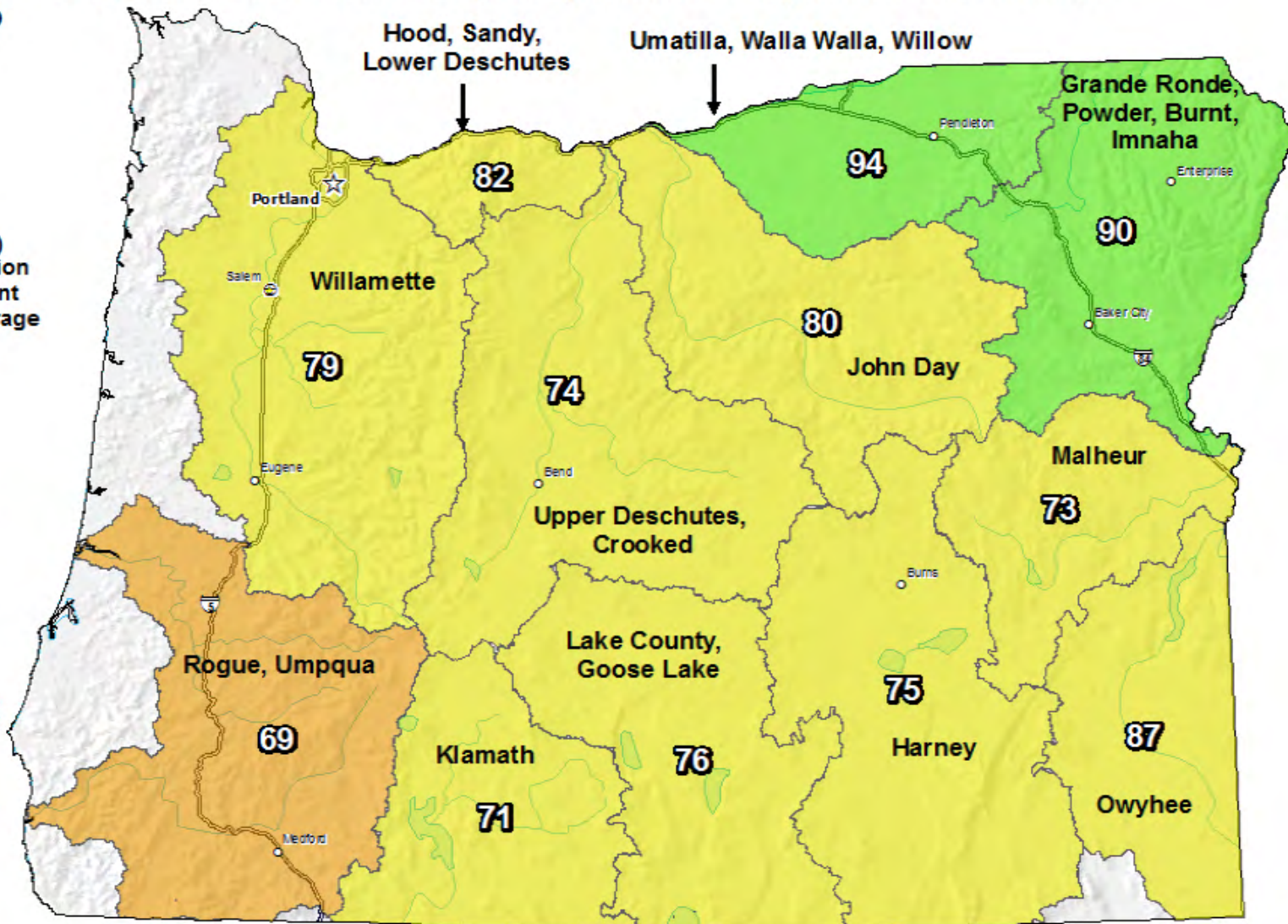
Jan 10, 2019

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).

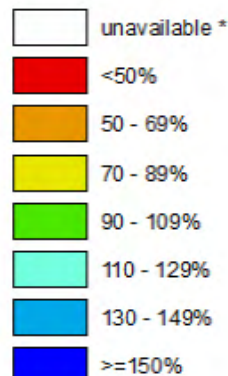


Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Oregon SNOTEL Current Snow Water Equivalent (SWE) % of Normal

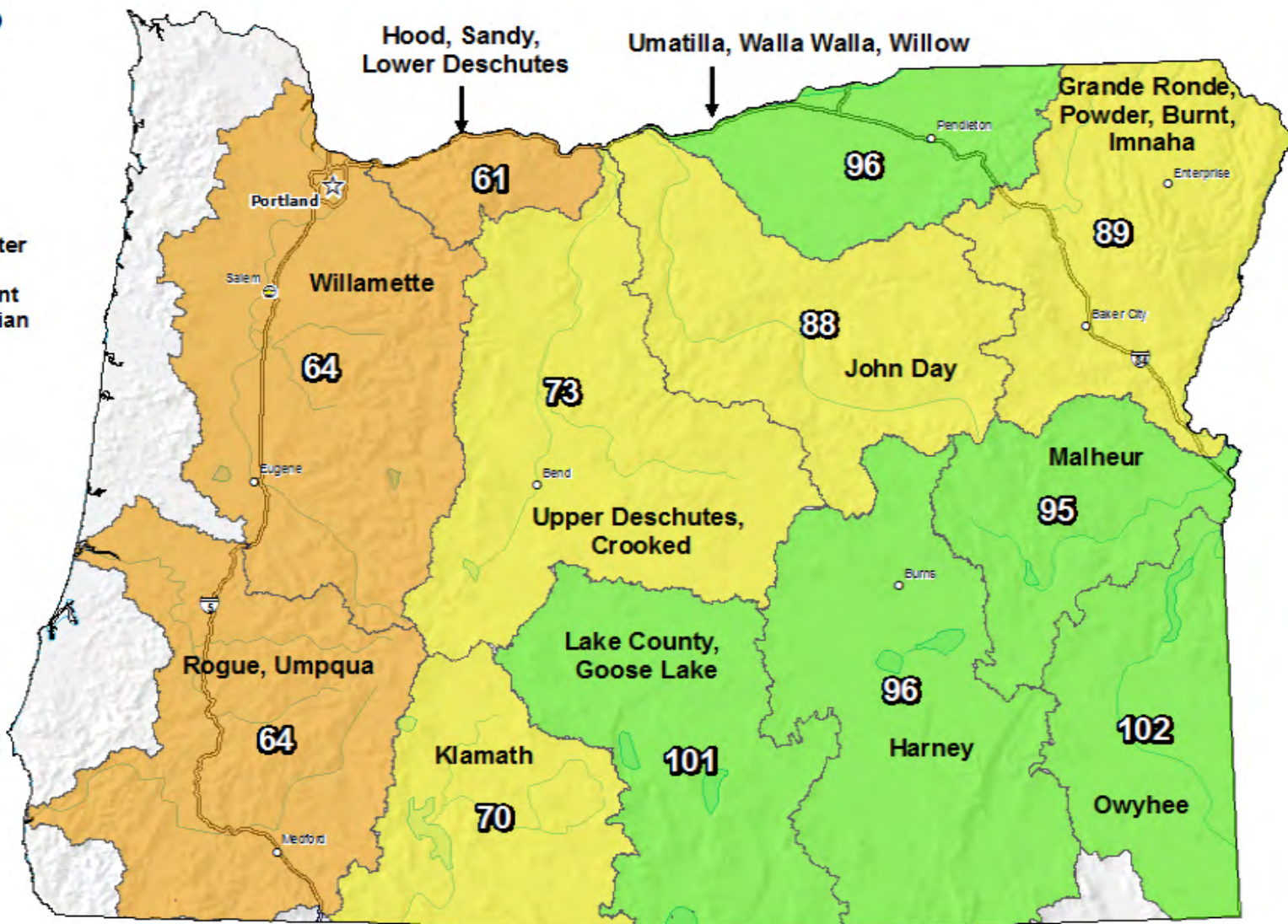
Jan 10, 2019

Current Snow Water Equivalent (SWE) Basin-wide Percent of 1981-2010 Median

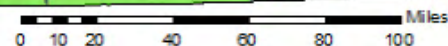


* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional Data
Subject to Revision



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).

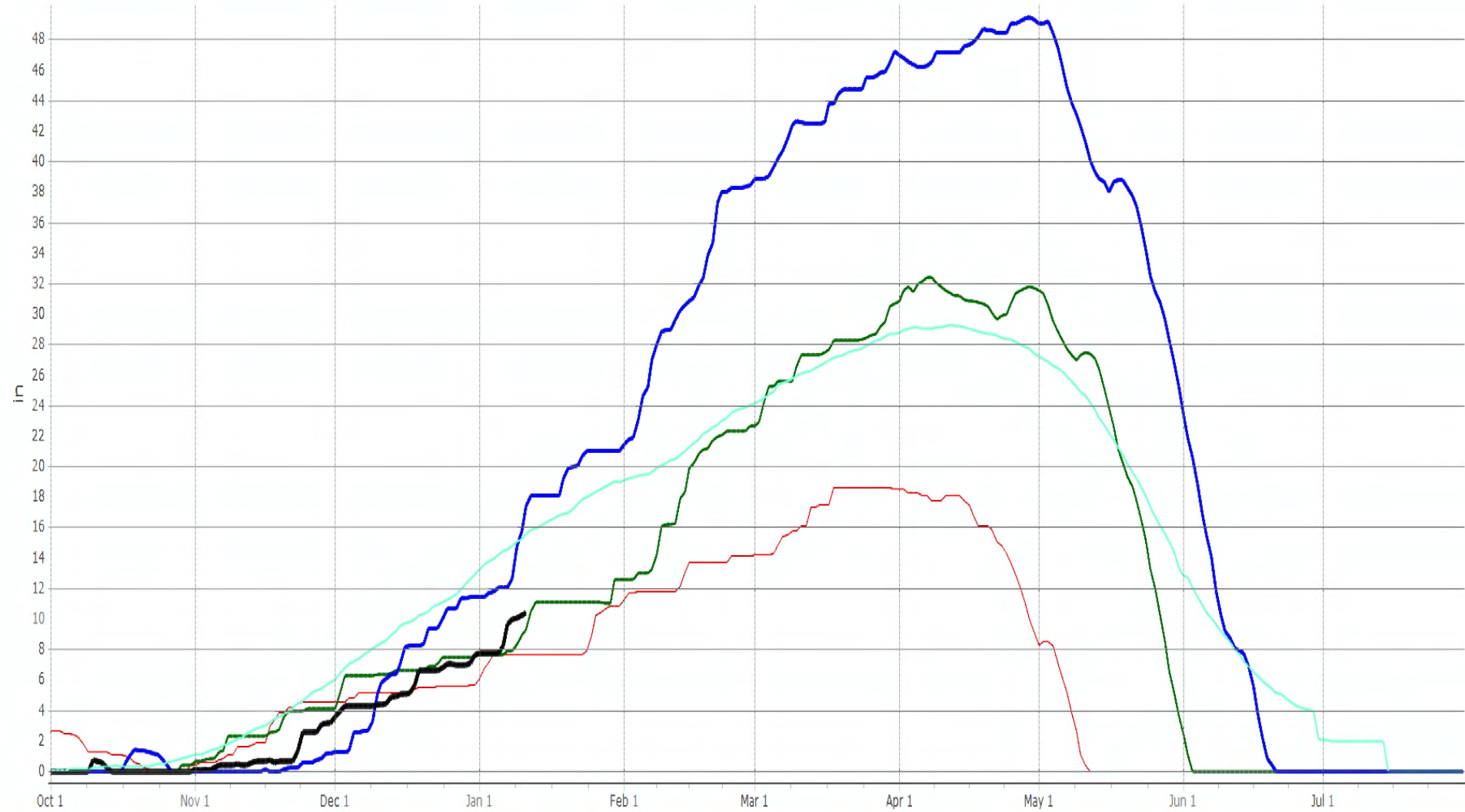


Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Boise/Payette Basin Snow

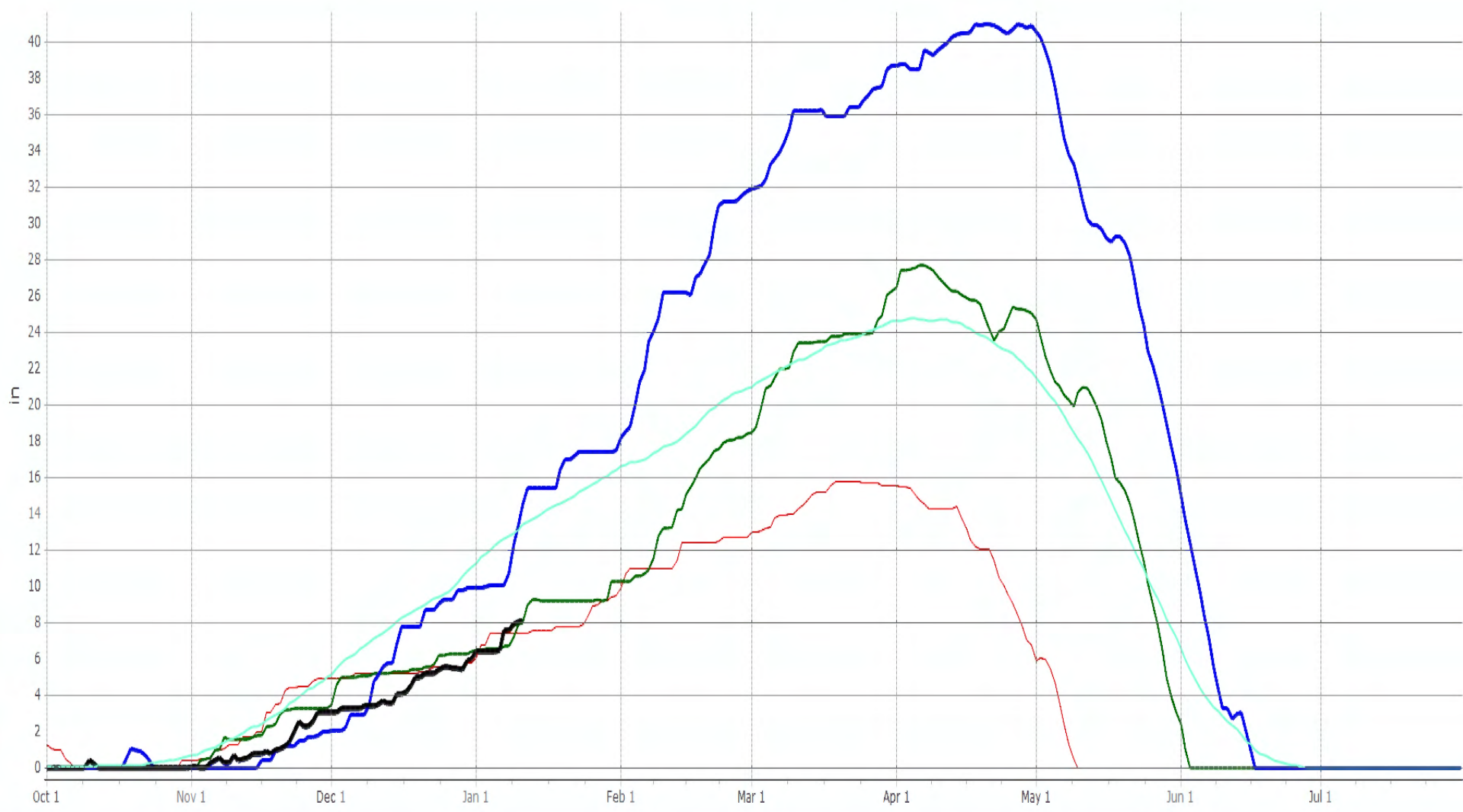
ATLANTA SUMMIT Elevation:7580.000

☑ 1987 ☑ 2014 ☑ 2017 ☑ 2019 ☑ avg



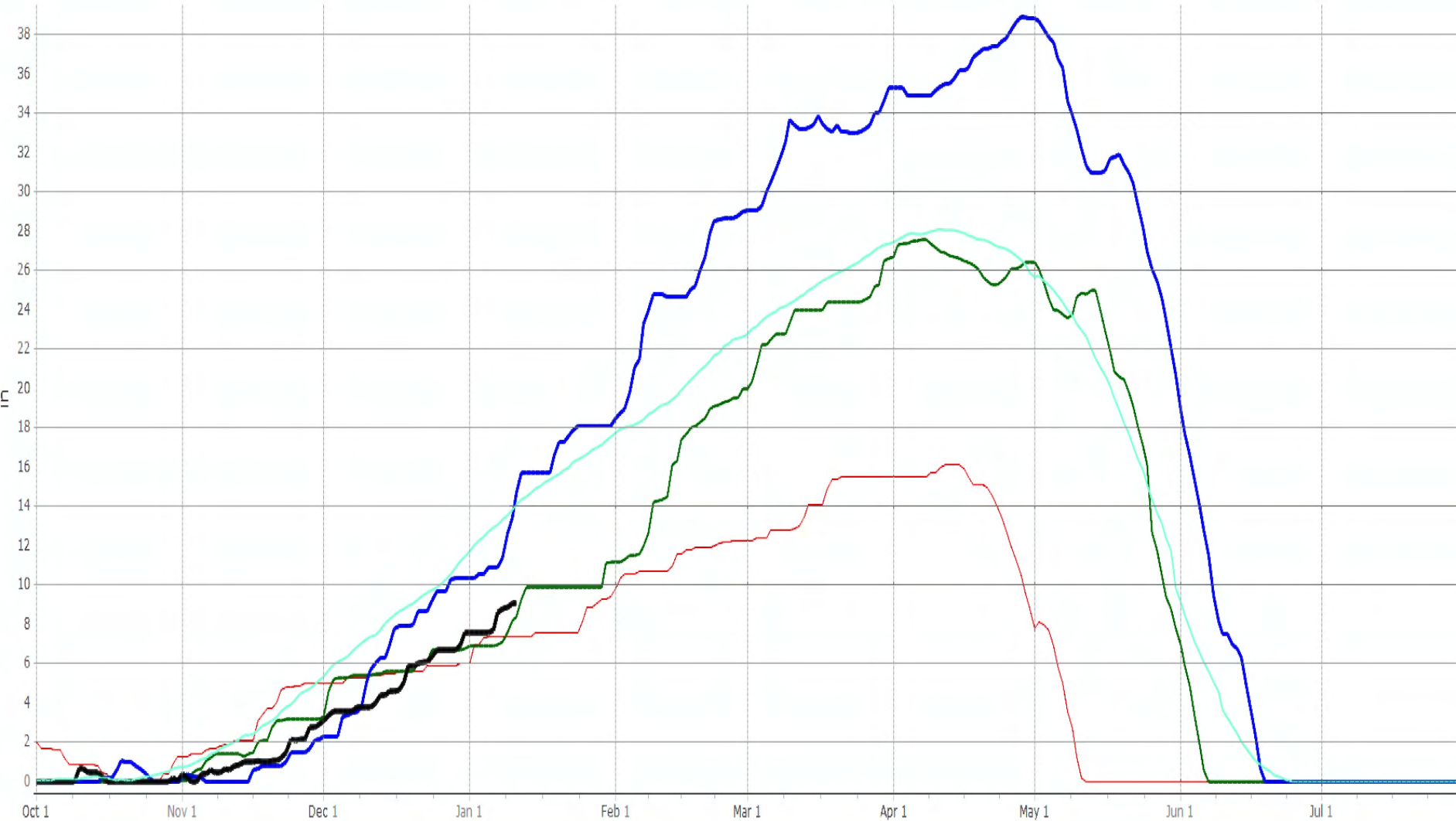
BANNER SUMMIT Elevation:7040.000

1987 2014 2017 2019 avg



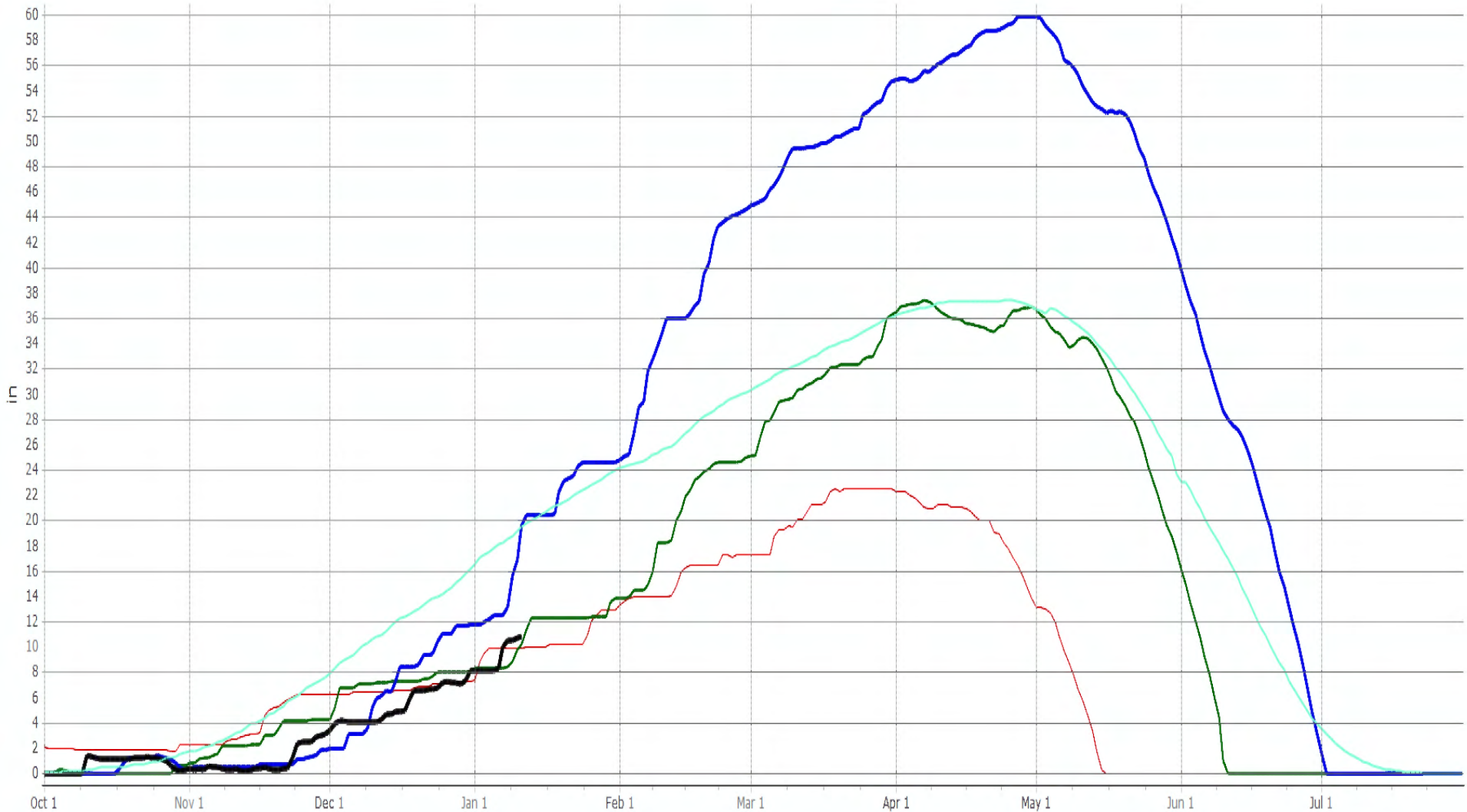
JACKSON PEAK Elevation:7070.000

1987 2014 2017 2019 avg



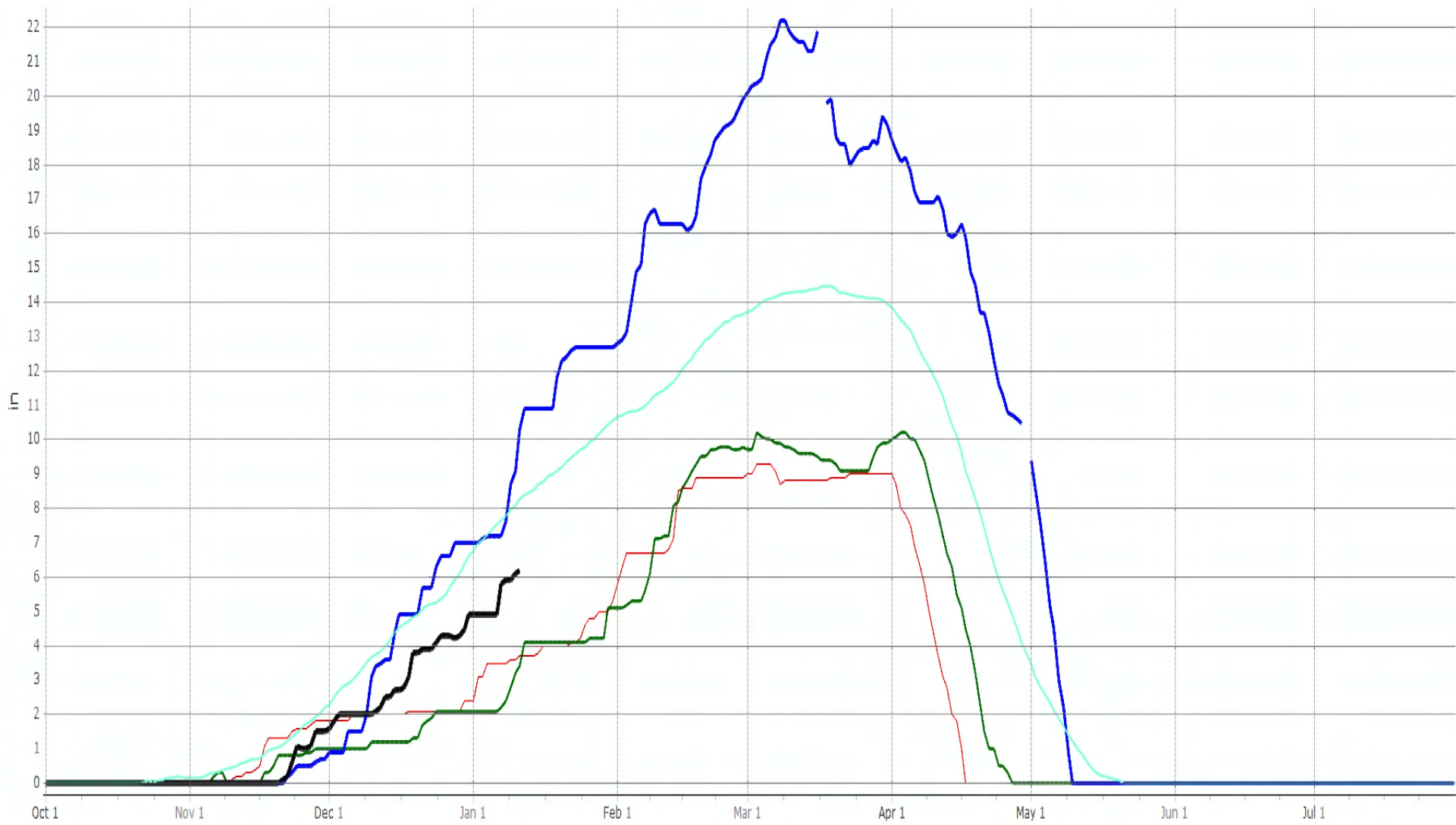
TRINITY MTN. Elevation:7770.000

☑ - 1987 ☑ - 2014 ☑ - 2017 ☑ - 2019 ☑ - avg



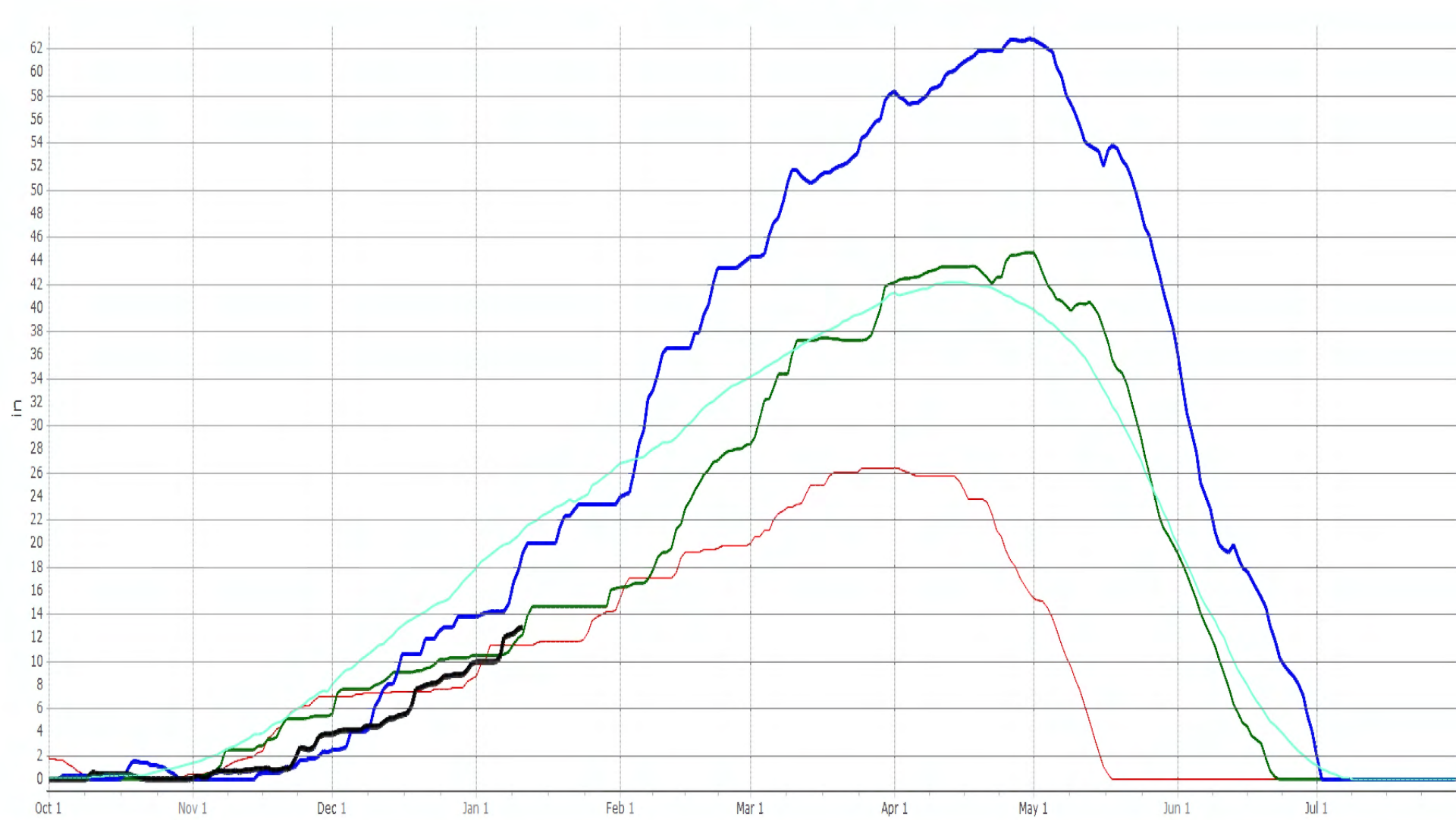
COZY COVE Elevation:5380.000

☑ - 1987 ☑ - 2014 ☑ - 2017 ☑ - 2019 ☑ - avg



DEADWOOD SUMMIT Elevation:6860.000

☑ - 1987 ☑ - 2014 ☑ - 2017 ☑ - 2019 ☑ - avg



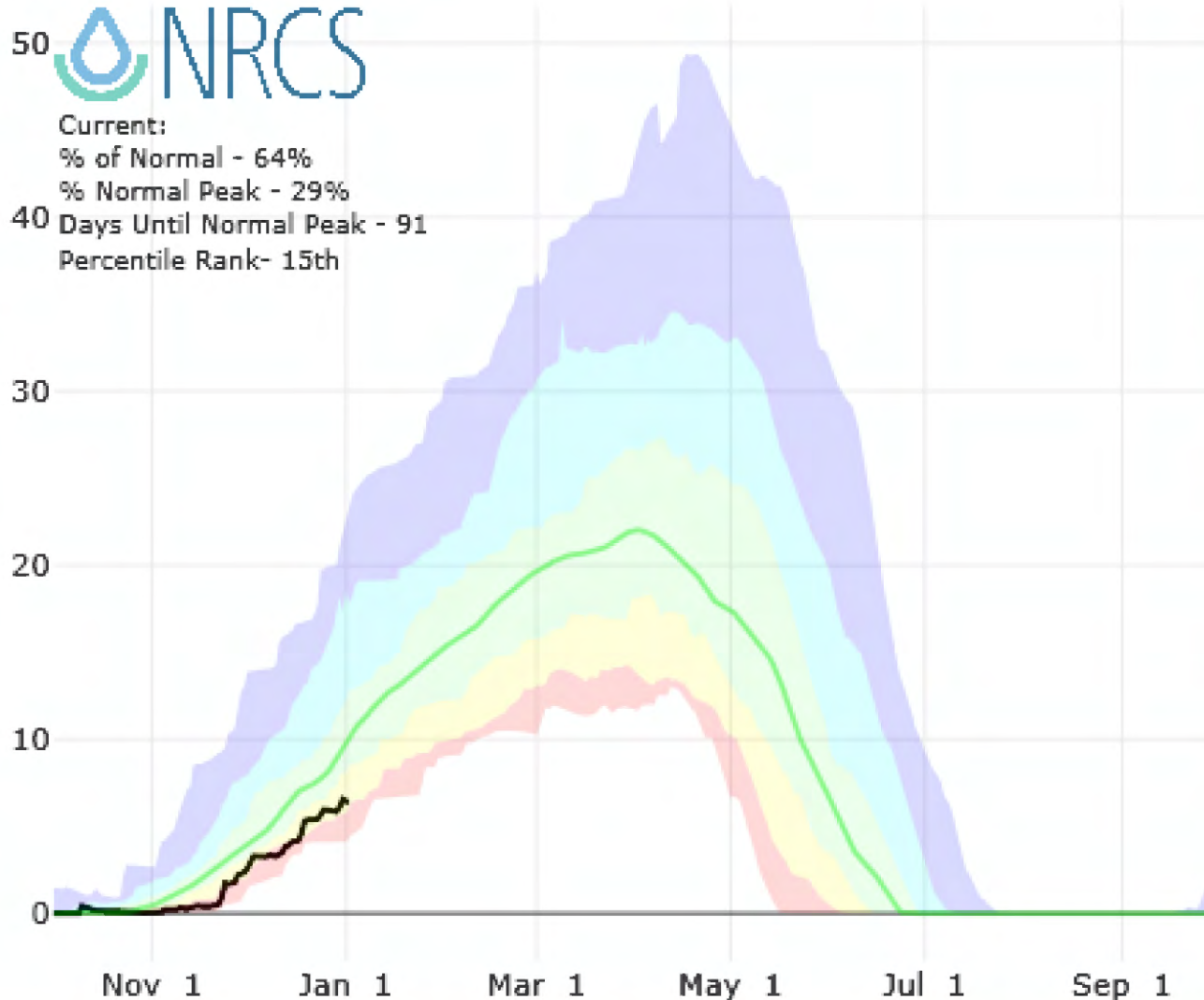
Snow Water Equivalent Projections in Boise Basin Total

Jan Apr July WY



Current:
 % of Normal - 64%
 % Normal Peak - 29%
 Days Until Normal Peak - 91
 Percentile Rank - 15th

Snow Water Equivalent (in.)



- Normal (POR)
- Normal ('81-'10)
- Stats. Shading
- Max Proj
- 90% Proj
- 70% Proj
- 50% Proj
- 30% Proj
- 10% Proj
- Min Proj
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- 2012
- 2011

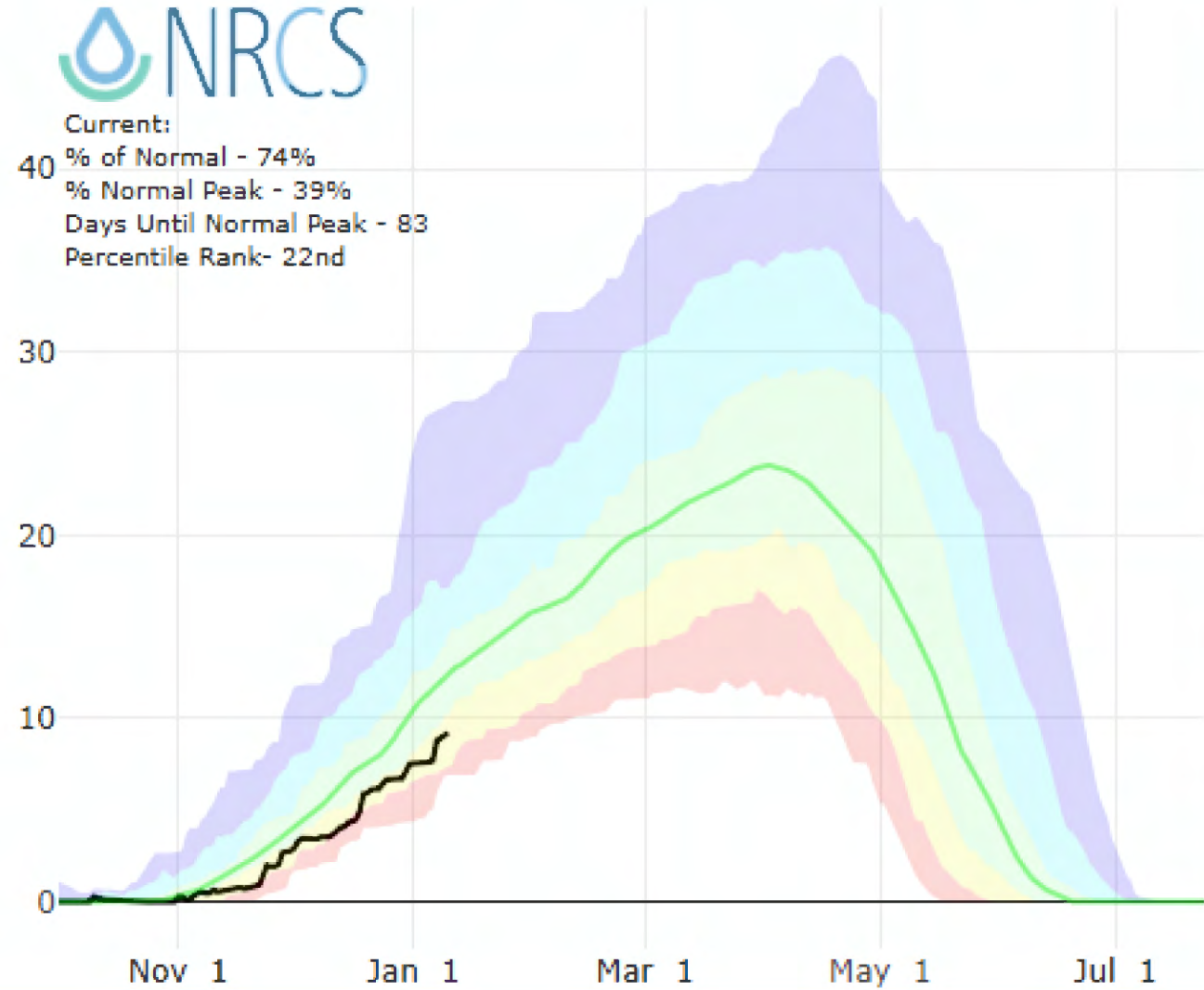
Snow Water Equivalent Projections in Payette Basin Total

Jan Apr July WY



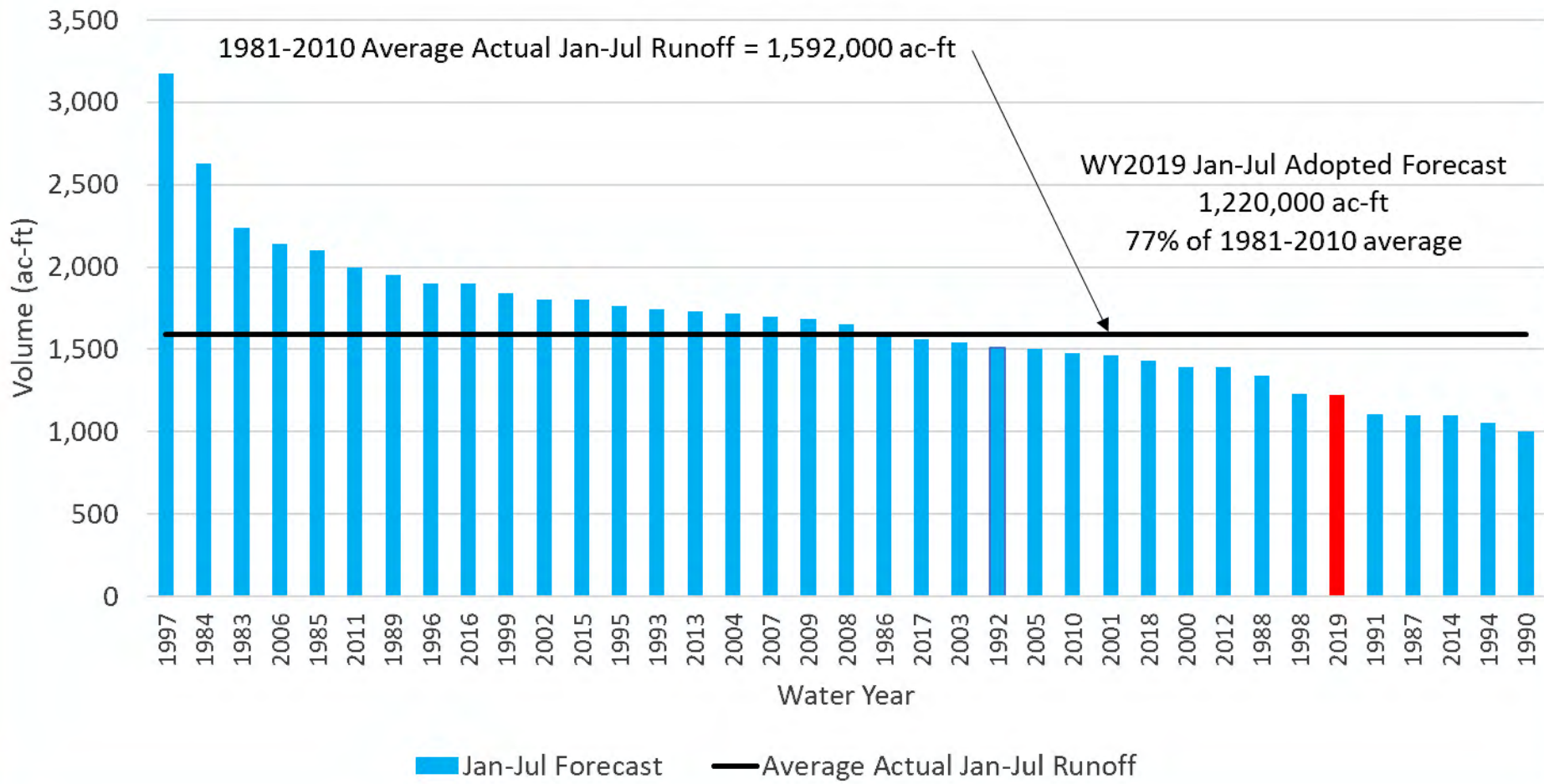
Current:
% of Normal - 74%
% Normal Peak - 39%
Days Until Normal Peak - 83
Percentile Rank - 22nd

Snow Water Equivalent (in.)

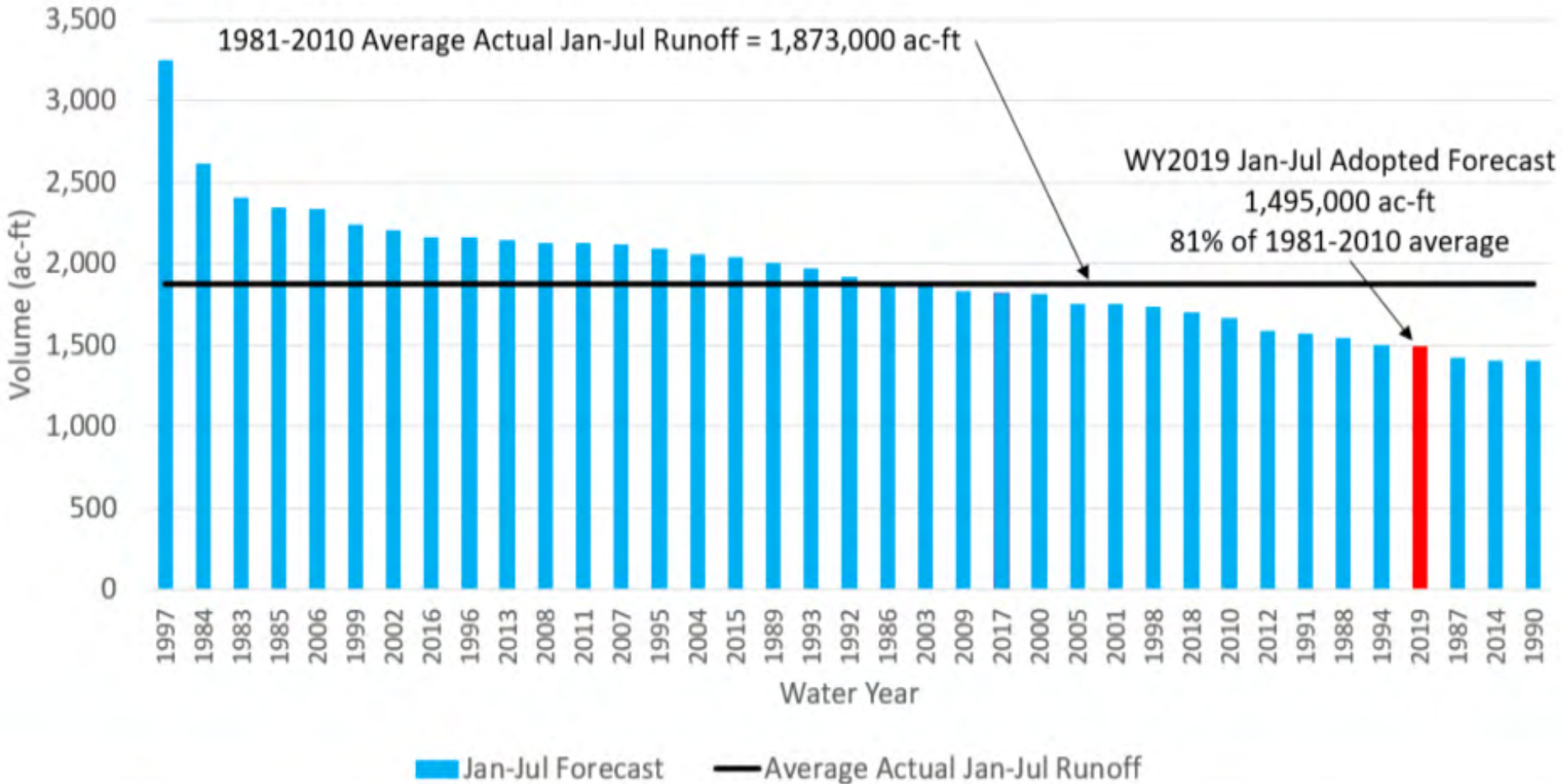


- Normal (POR)
- Normal ('81-'10)
- Stats. Shading
- Max Proj
- 90% Proj
- 70% Proj
- 50% Proj
- 30% Proj
- 10% Proj
- Min Proj
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- 2012
- 2011

Boise Reservoir System Jan-Jul Water Supply Forecast WY1983 to WY2019



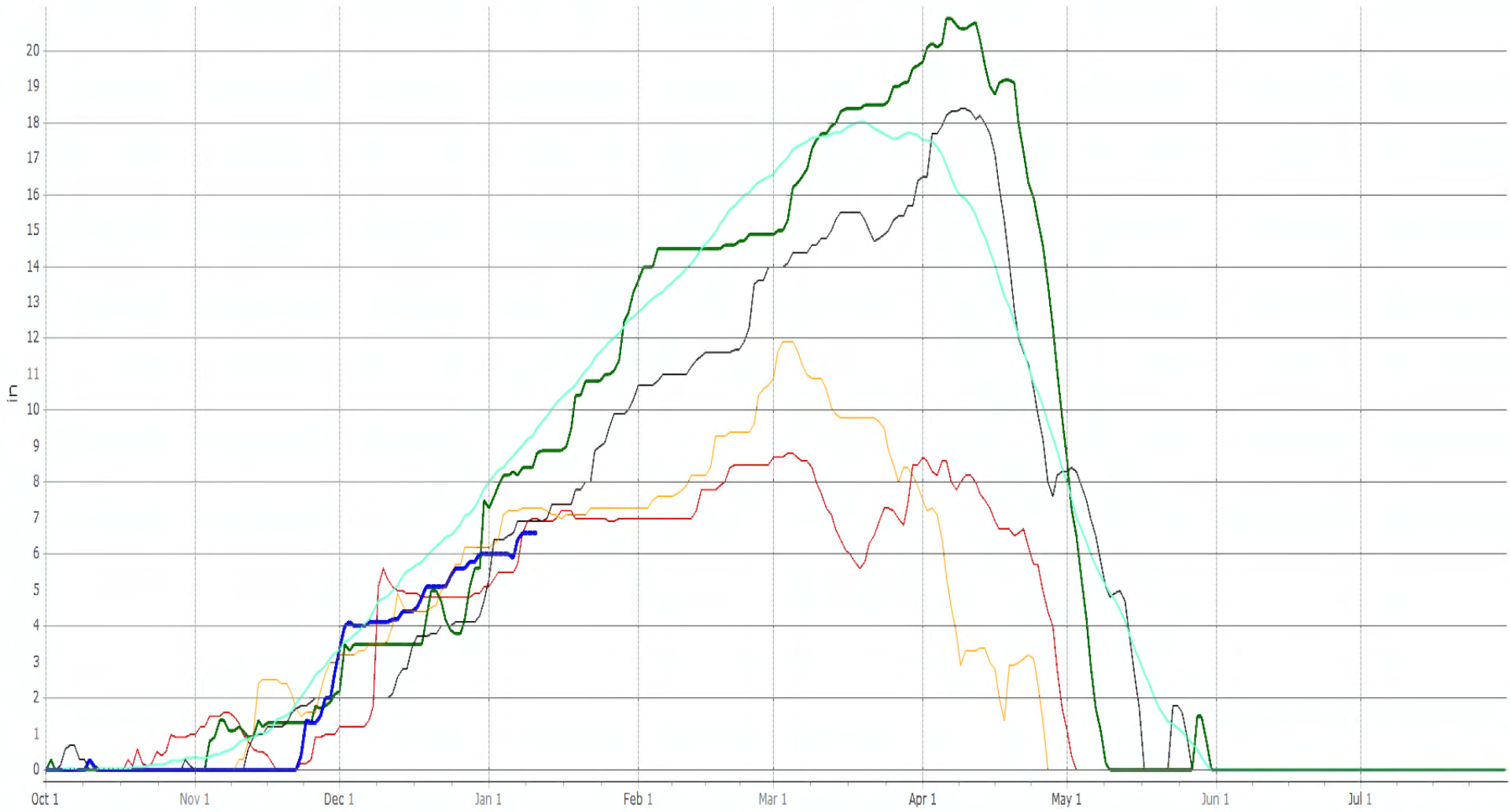
Horseshoe Bend
Jan-Jul Water Supply Forecast
WY1983 to WY2019



Owyhee Basin Snow

SOUTH MTN. Elevation:6500.000

☑ - 2005 ☑ - 2006 ☑ - 2019 ☑ - 2010 ☑ - 2007 ☑ - avg



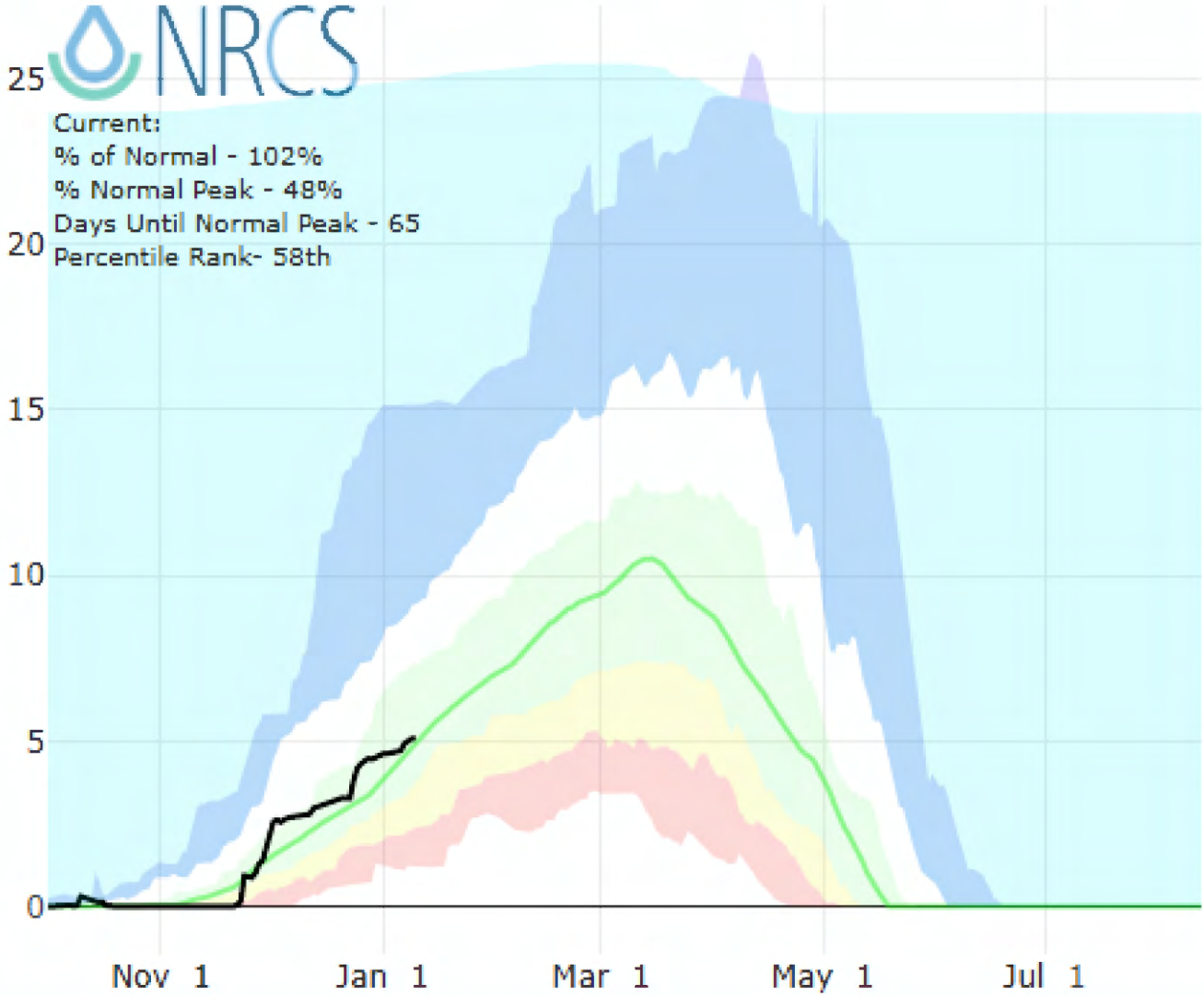
Snow Water Equivalent Projections in Owyhee Basin Total

Jan Apr July WY



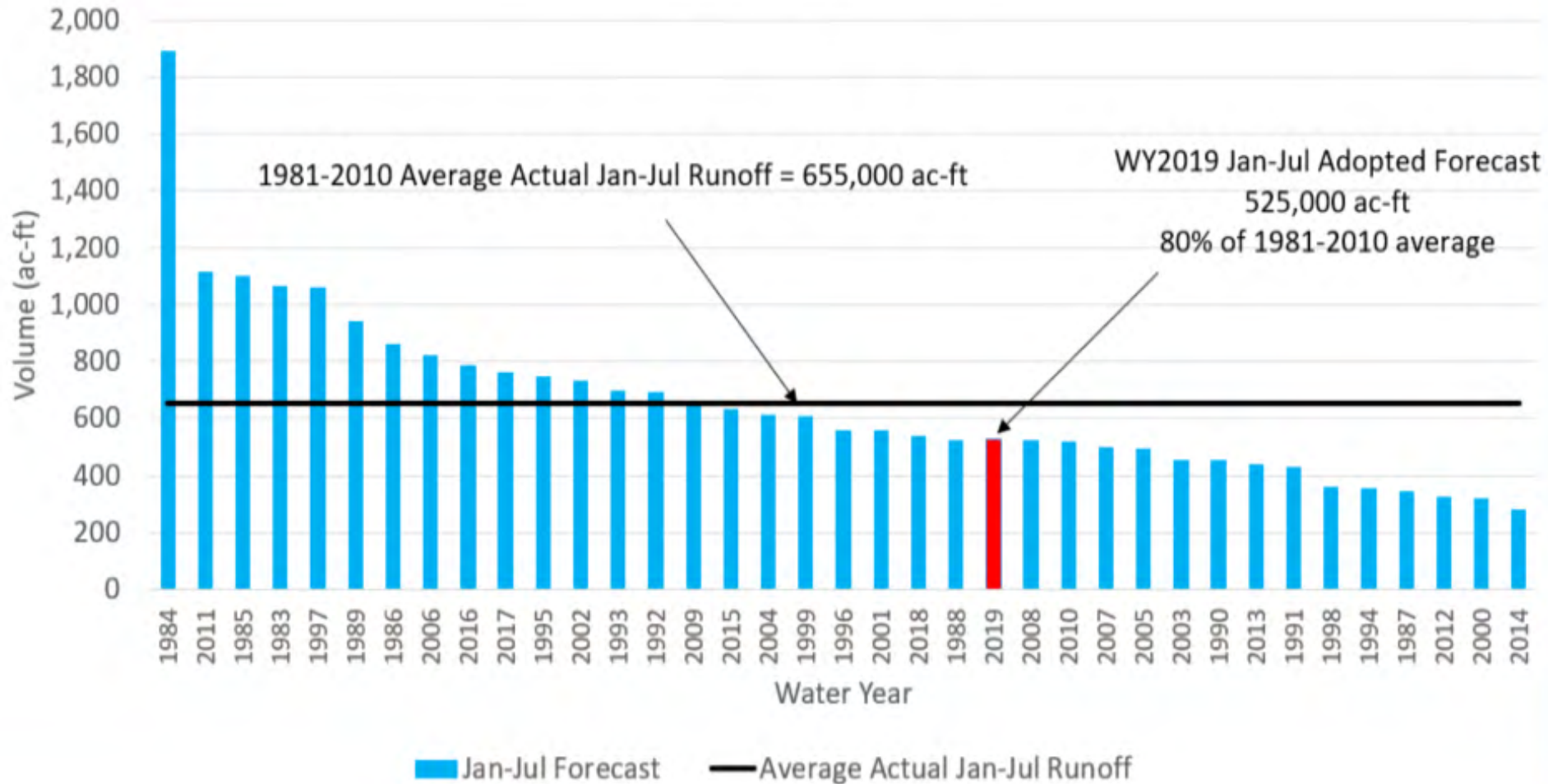
Current:
 % of Normal - 102%
 % Normal Peak - 48%
 Days Until Normal Peak - 65
 Percentile Rank - 58th

Snow Water Equivalent (in.)

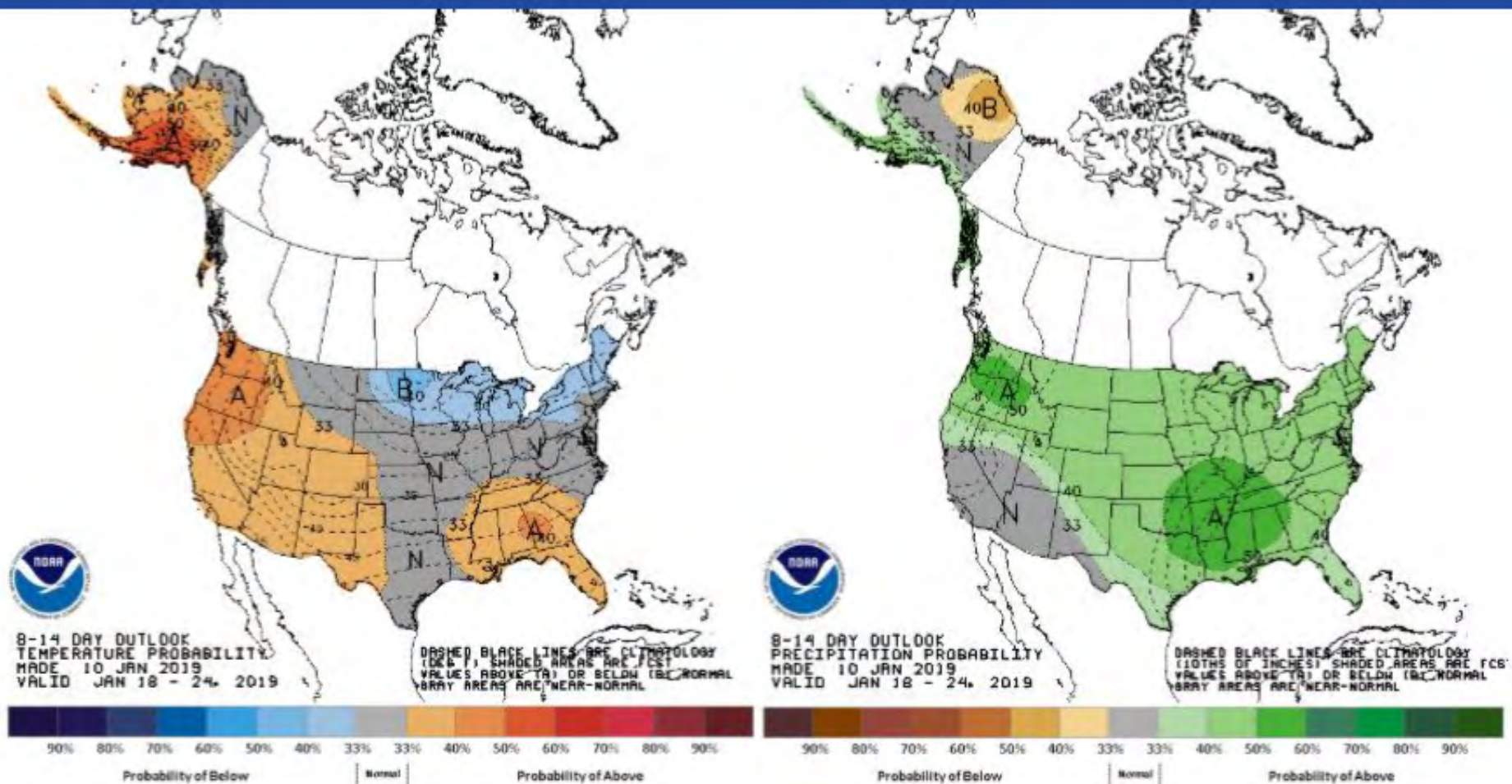


- Normal (POR)
- Normal ('81-'10)
- Stats. Shading
- Max Proj
- 90% Proj
- 70% Proj
- 50% Proj
- 30% Proj
- 10% Proj
- Min Proj
- 2019
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- 2012
- 2011

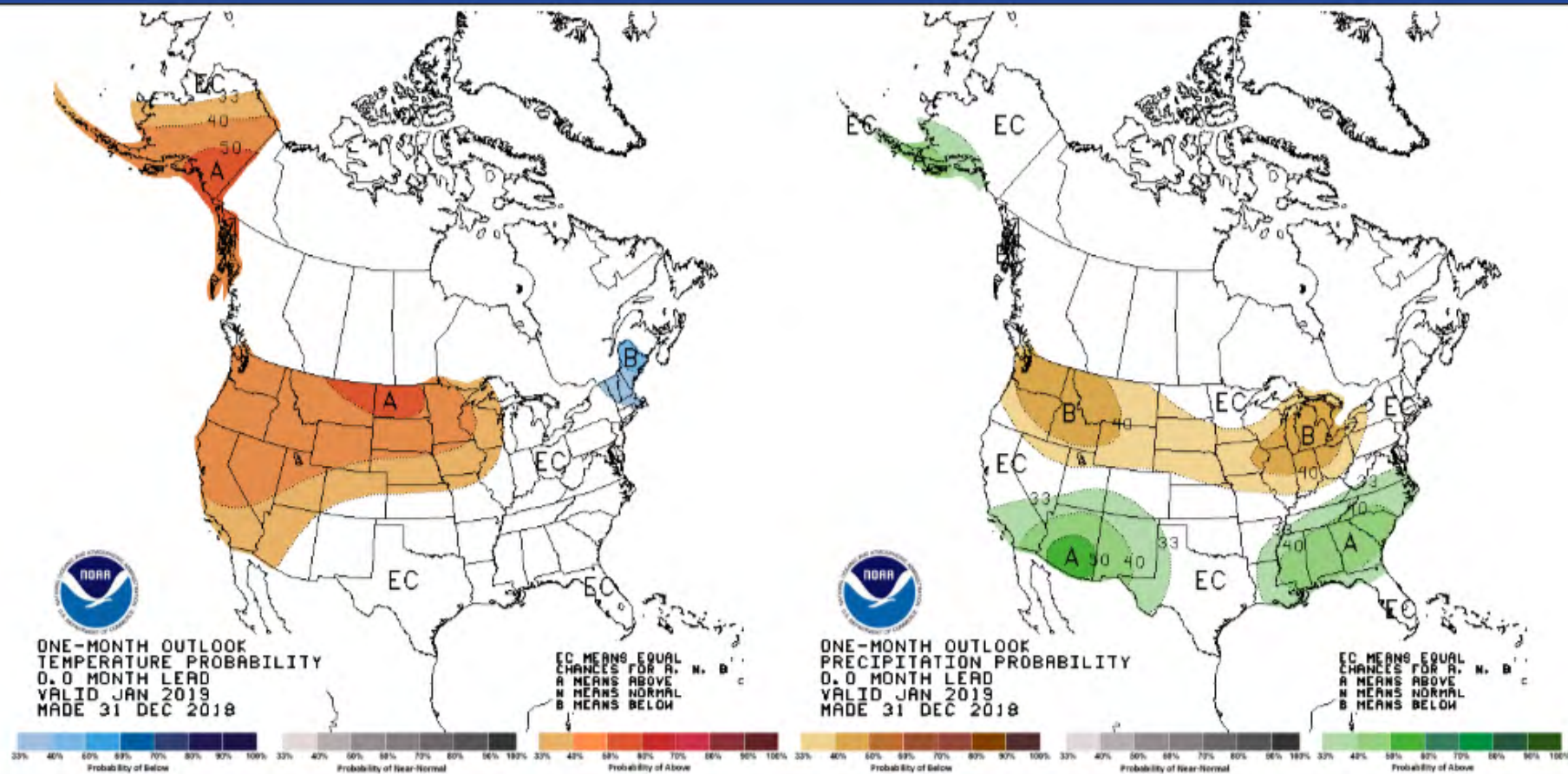
Owyhee Reservoir Inflow Jan-Jul Water Supply Forecast WY1983 to WY2019



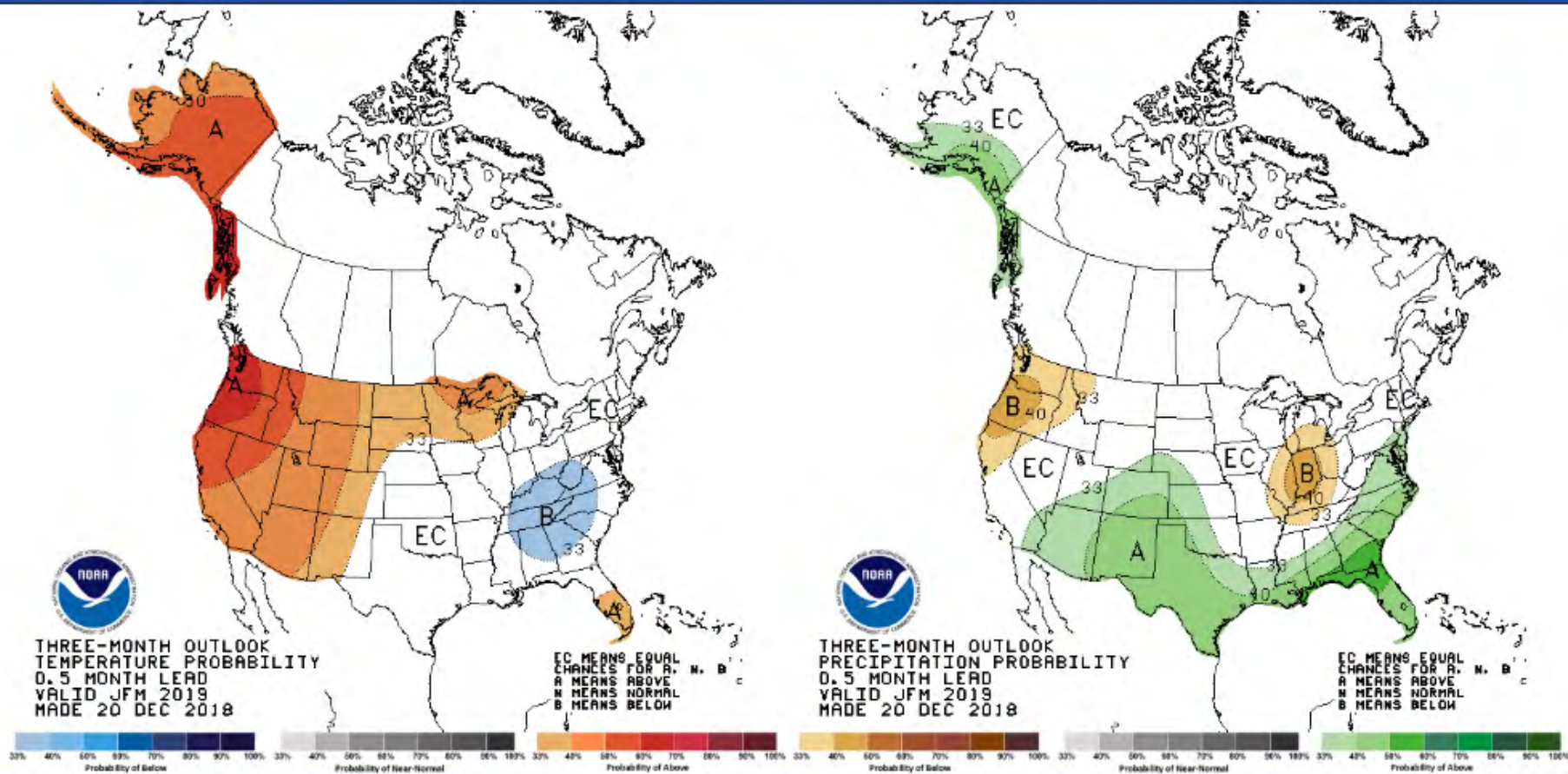
8-14 Day Outlook



January 2019 Forecast



January-March 2019 Forecast



April-June 2019 Forecast

