

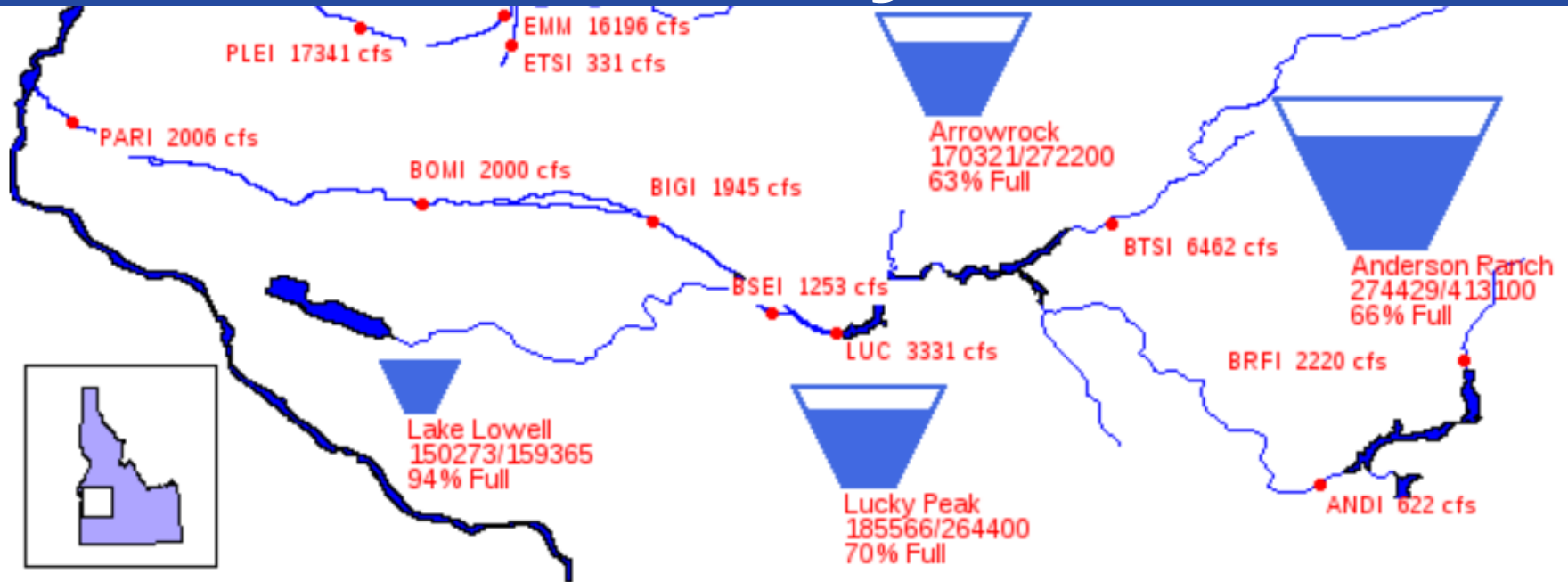
2019 Idaho Water Supply Committee Meeting

April 11, 2019

Ryan Hedrick

Middle Snake Field Office – Water Operations

Boise Reservoir System



PROVISIONAL DATA - Subject to change

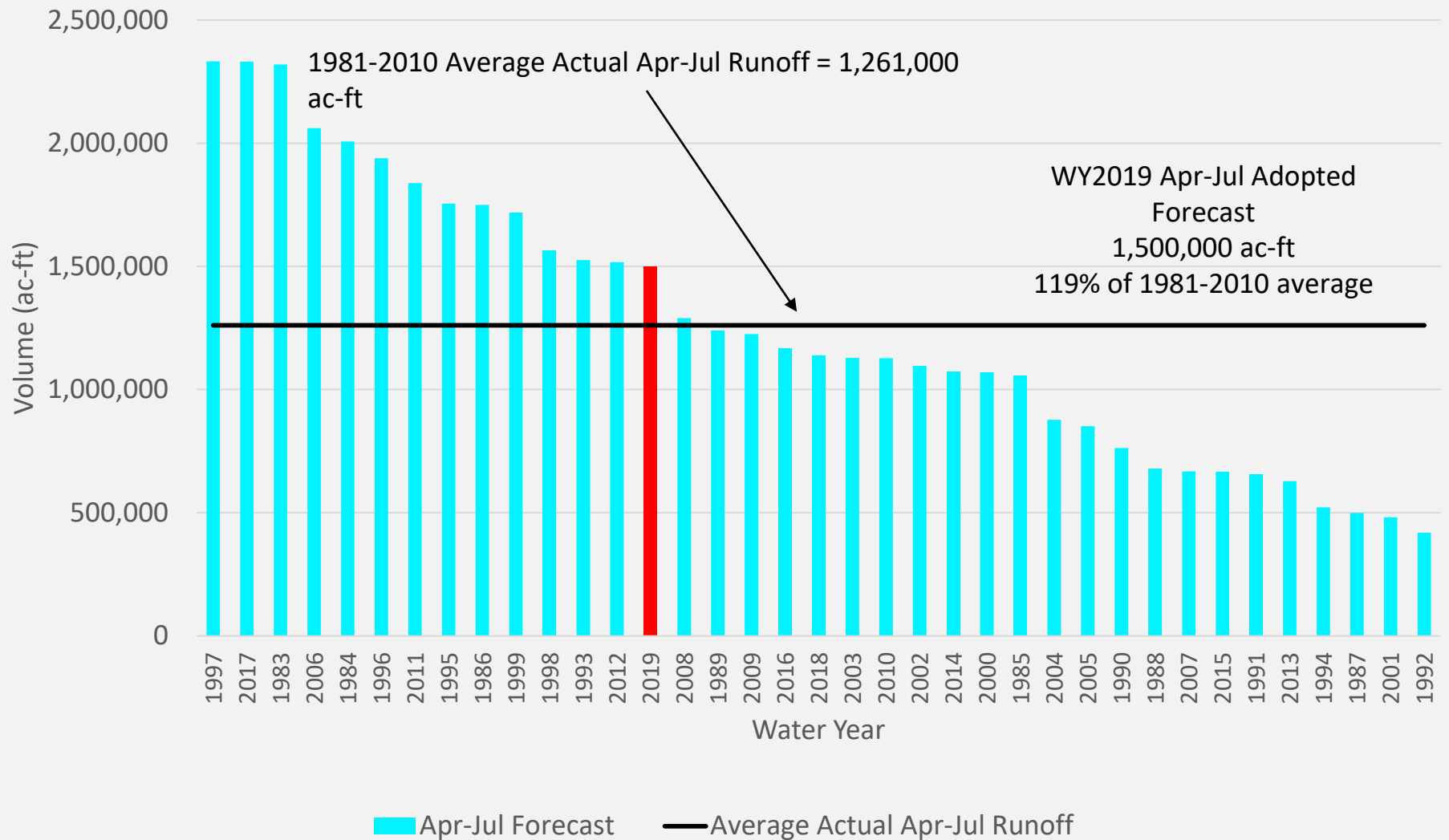
Boise River system (Anderson Ranch, Arrowrock, Lucky Peak) is at 66 % of capacity.

Total space available: 319384 AF

Total storage capacity: 949700 AF

Natural Flow: 13582 CFS

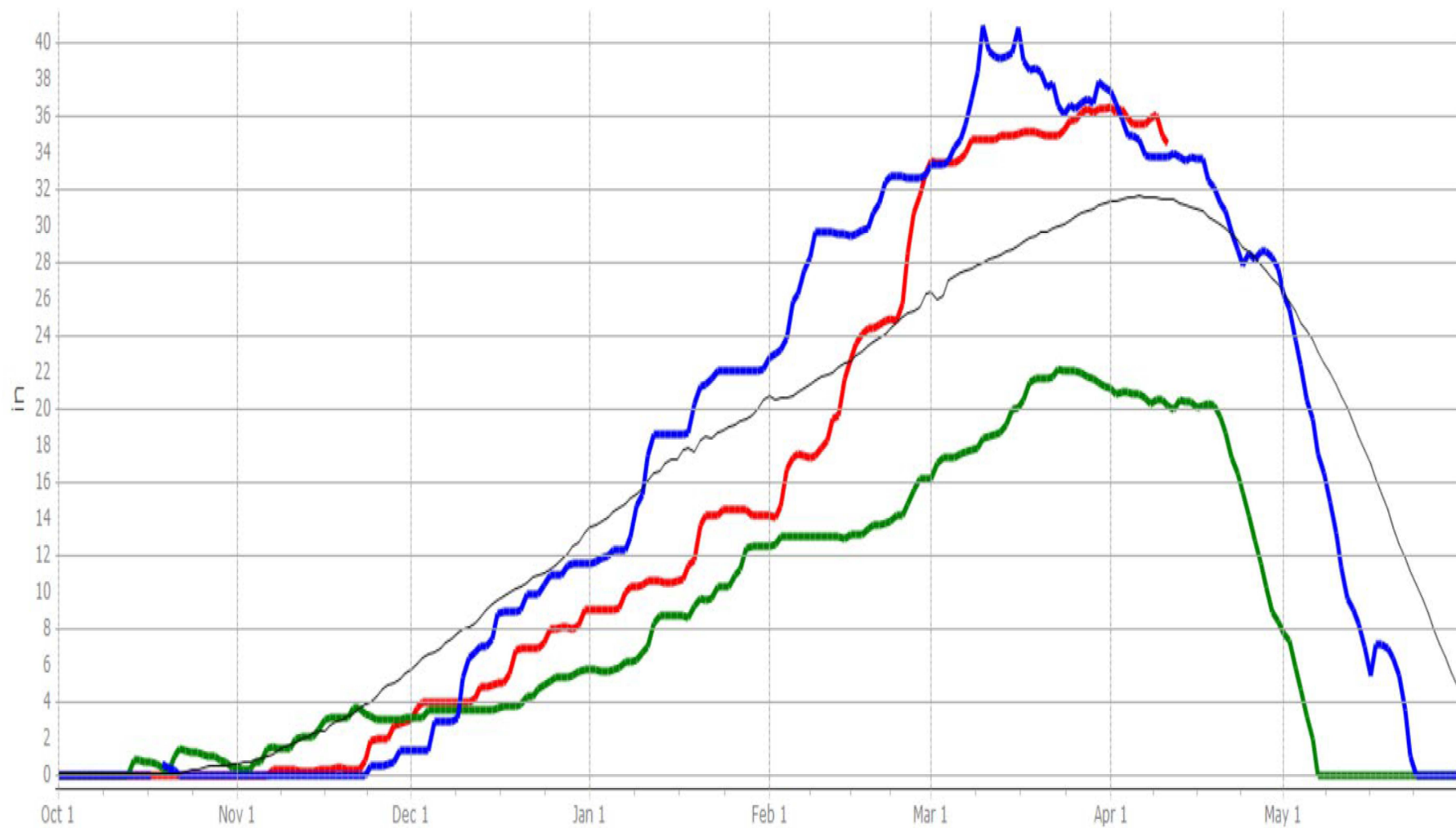
Boise Reservoir System
Apr-Jul Water Supply Forecast
WY1983 to WY2019



2018-12-10 4

MOORES CREEK SUMMIT Elevation:6100.000

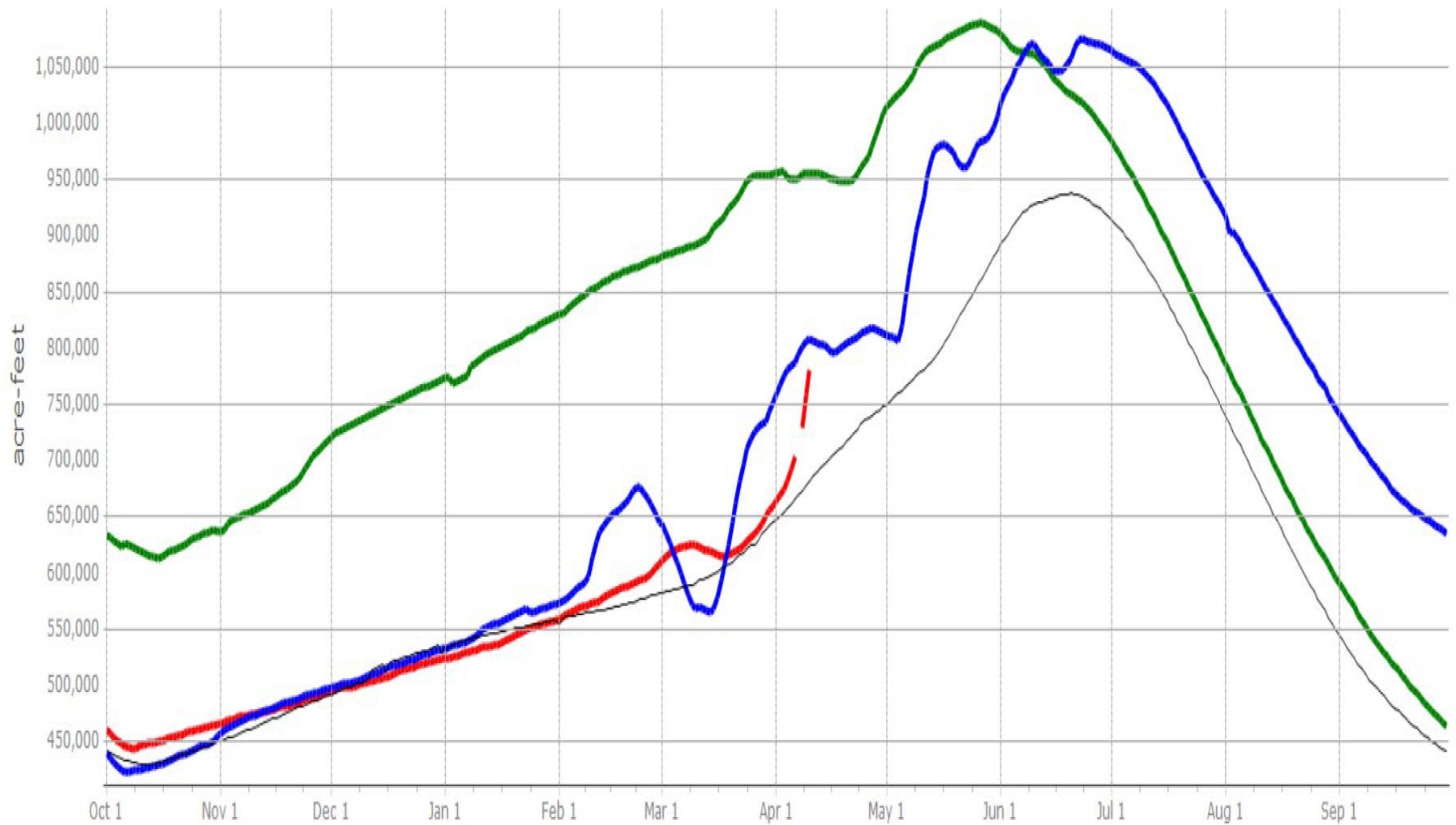
✓ 2019 ✓ 2018 ✓ 2017 ✓ avg



2017-01-17 557903.38

and +ark +luc +low Elevation:0.000000E+00

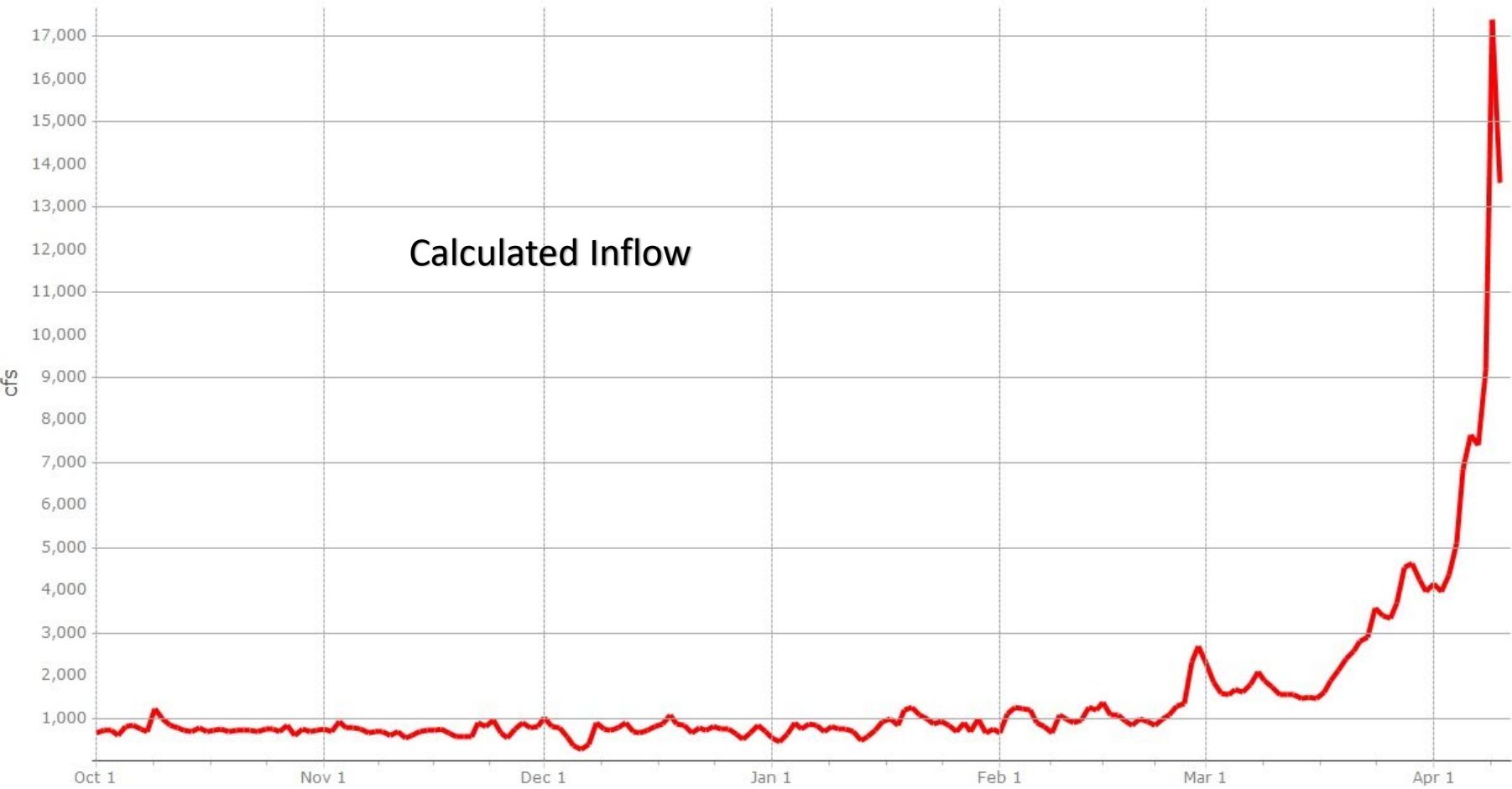
✓ 2019 ✓ 2018 ✓ 2017 ✓ - avg



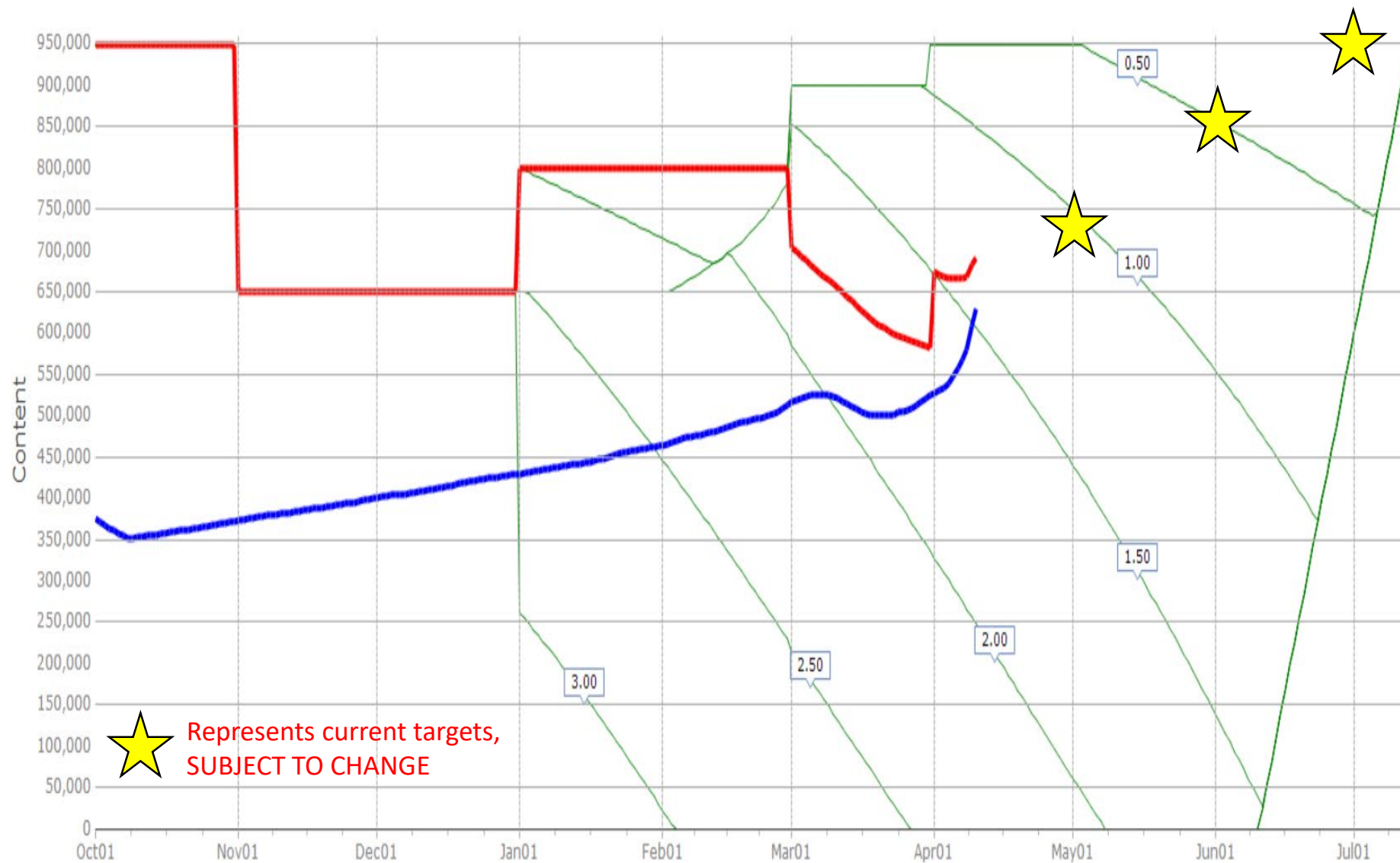
2019-04-08 9194.94

Lucky Peak Lake near Boise, ID Elevation:3060.000

Calculated Inflow



☒ 2019 Required
 ☒ 2019 Actual



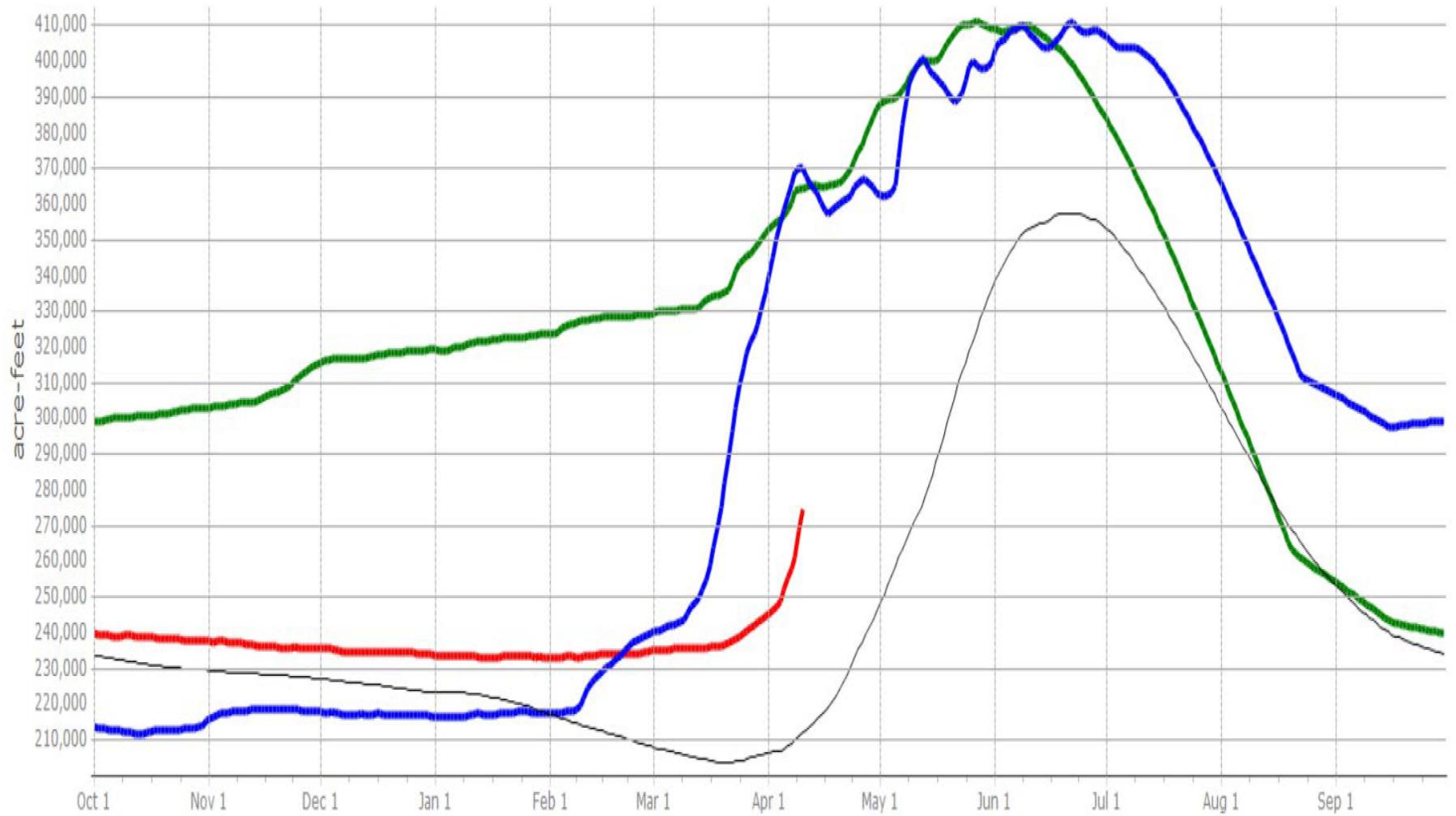
Anderson Operations

- Currently discharging 600 cfs
- Increases likely to occur as inflows rise to meet flood control rule curves
- Expecting increases in the next few weeks but could possibly change depending upon runoff and reservoir conditions downstream

2019-02-23 233812

Anderson Ranch Dam and Reservoir Elevation:3880.000

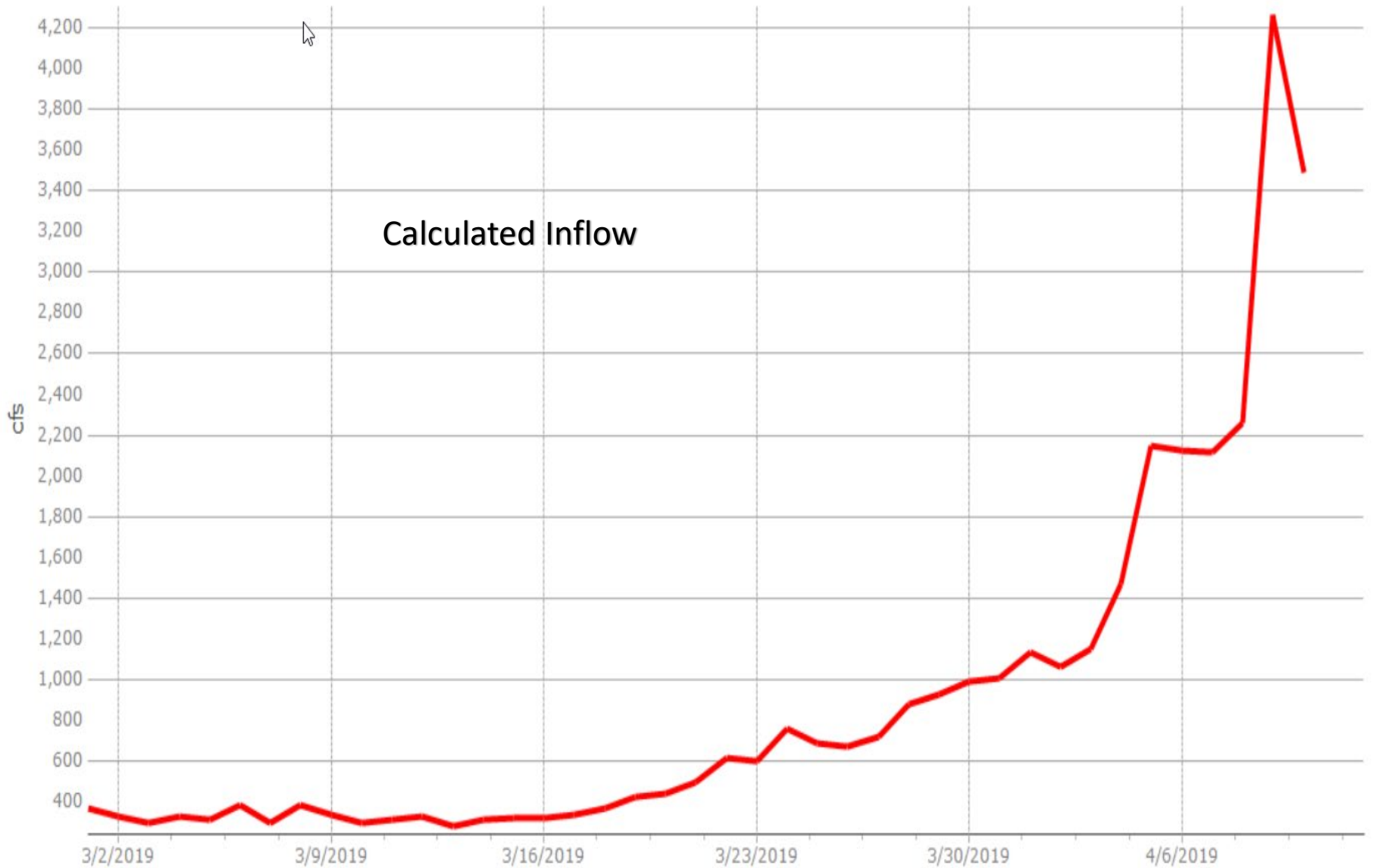
☑ 2019 ☑ 2018 ☑ 2017 ☑ - avg



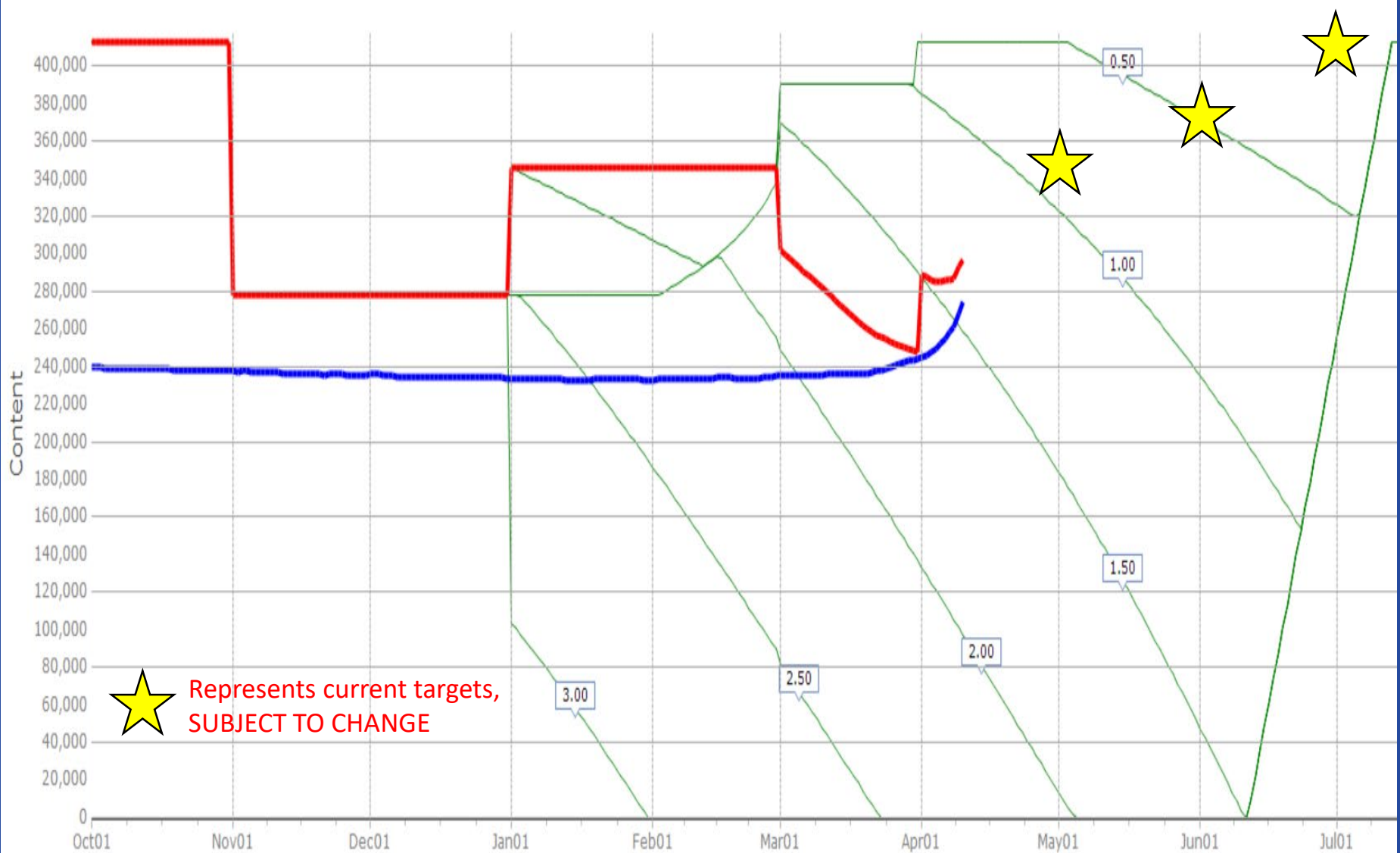
South Fork Boise River at Anderson Ranch Dam

PNRO - Boise

Calculated Inflow



☑ 2019 Required ☑ 2019 Actual



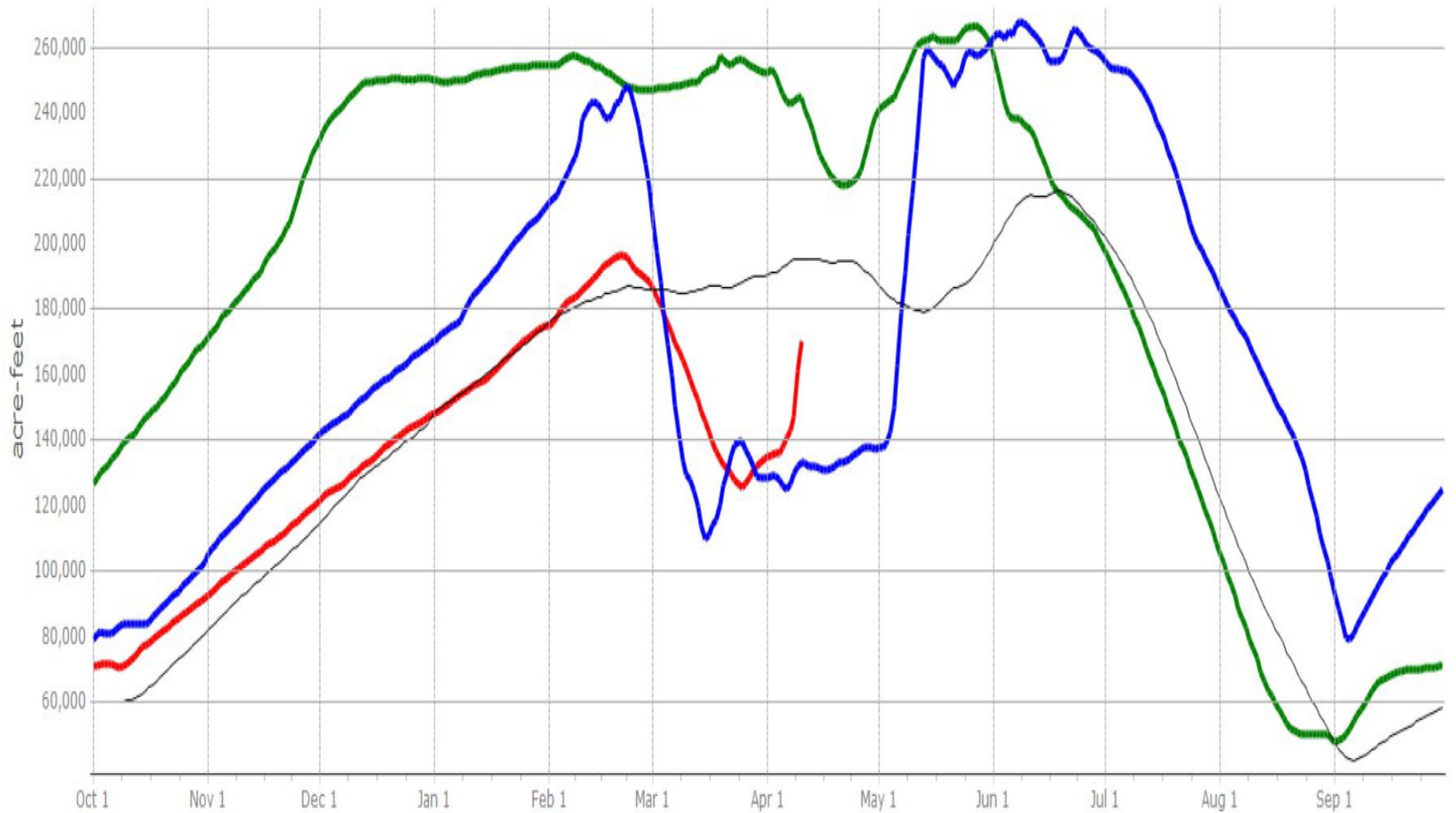
Arrowrock Operations

- Currently discharging 2,900 cfs
- Increases likely as Lucky Peak increases occur
- Operated as needed to slow the fill at Lucky Peak or to keep Lucky Peak from drafting.

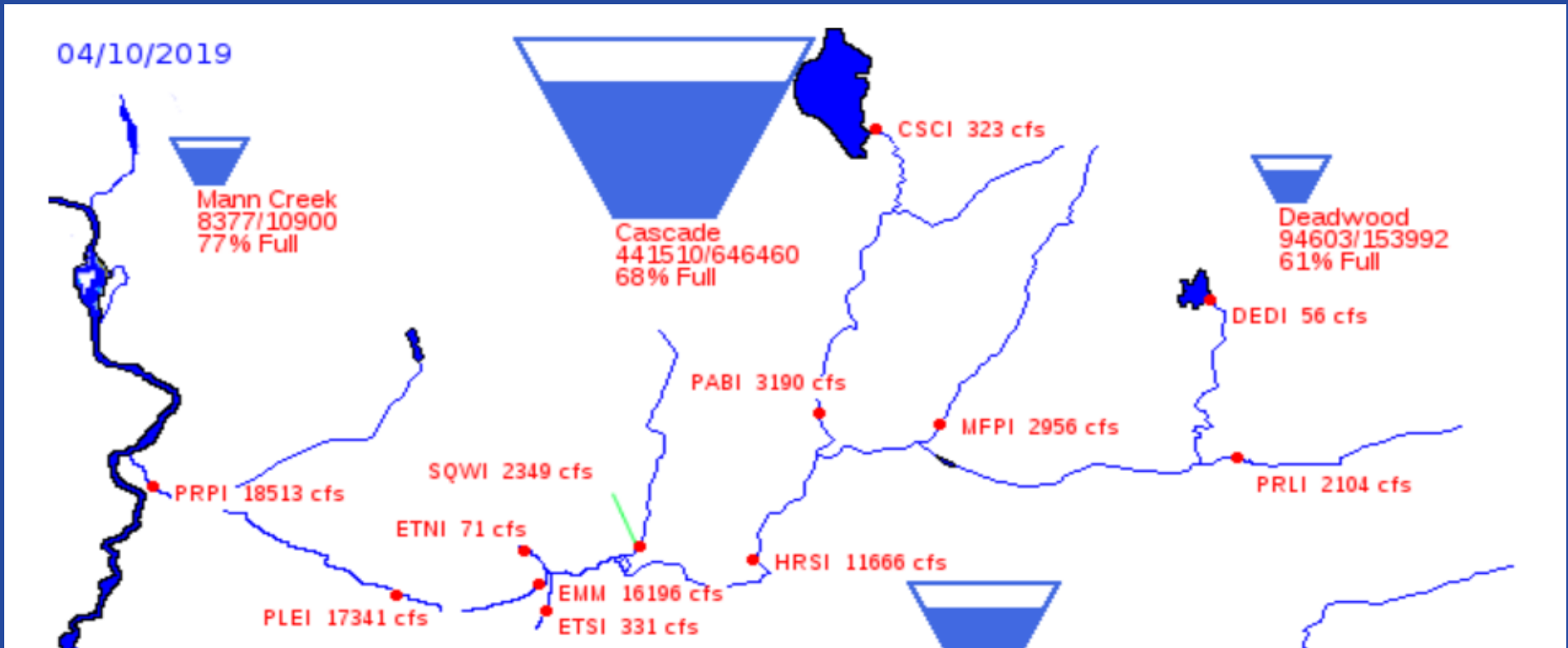
2017-04-18 131327

Arrowrock Dam and Reservoir Elevation:3216.000

✓ 2019 ✓ 2018 ✓ 2017 ✓ avg



Payette Reservoir System



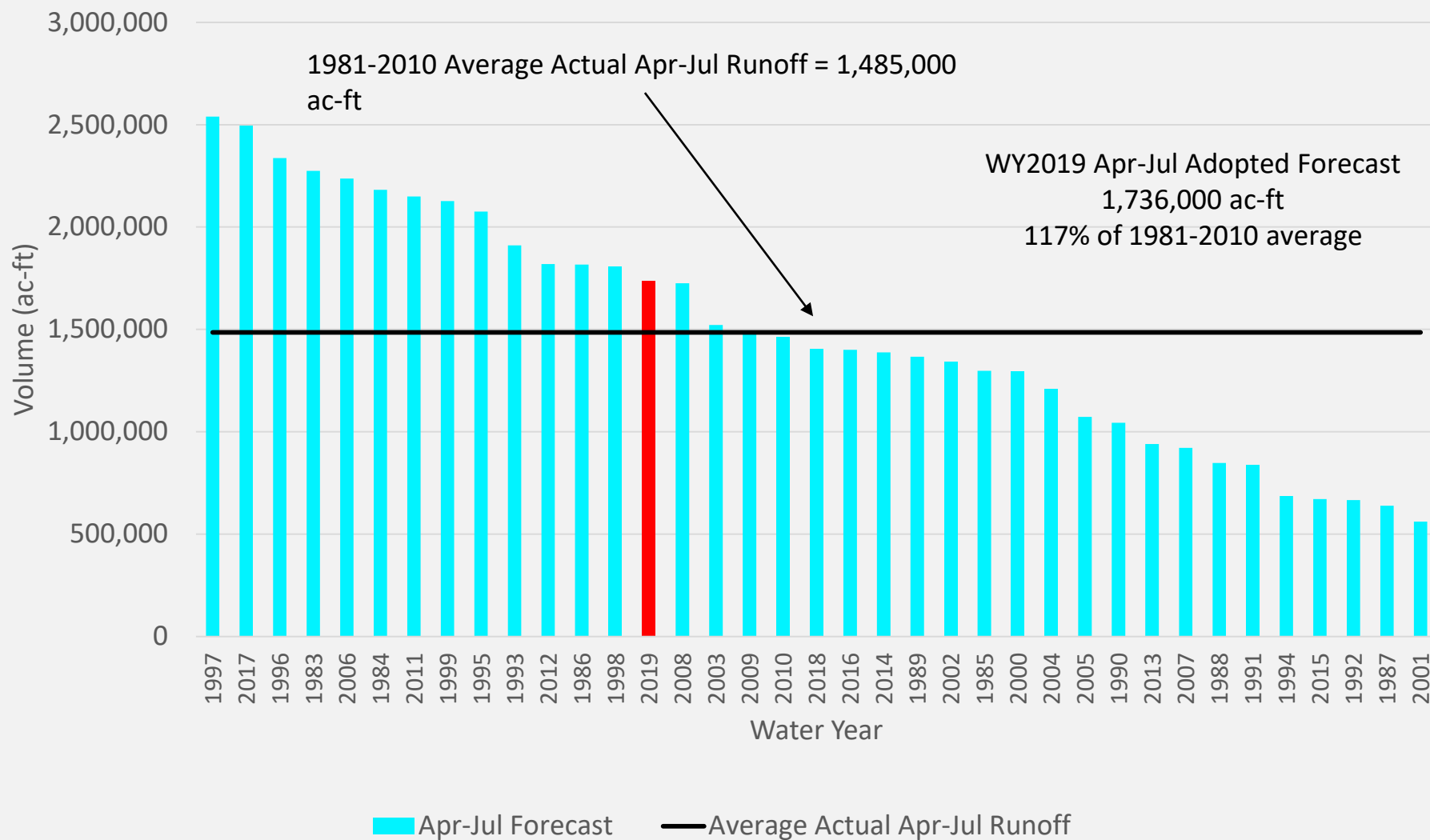
Payette River system (Cascade, Deadwood) is at 67 % of capacity.

Total space available: 264339 AF

Total storage capacity: 800452 AF

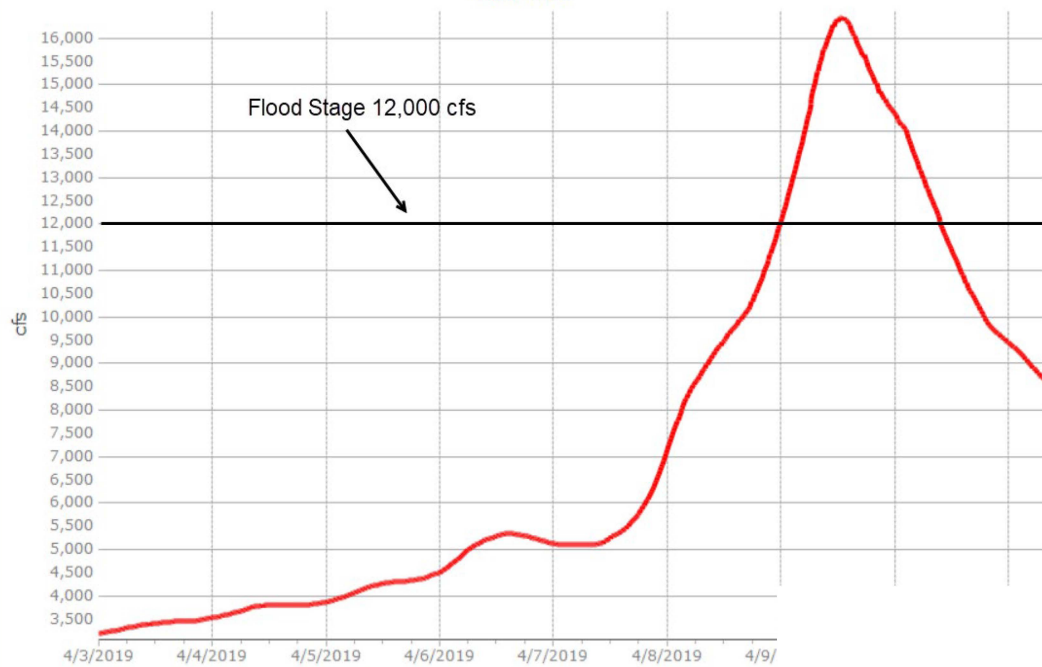
Natural Flow: 16514 CFS

Payette System @ Horseshoe Bend
Apr-Jul Water Supply Forecast
WY1983 to WY2019



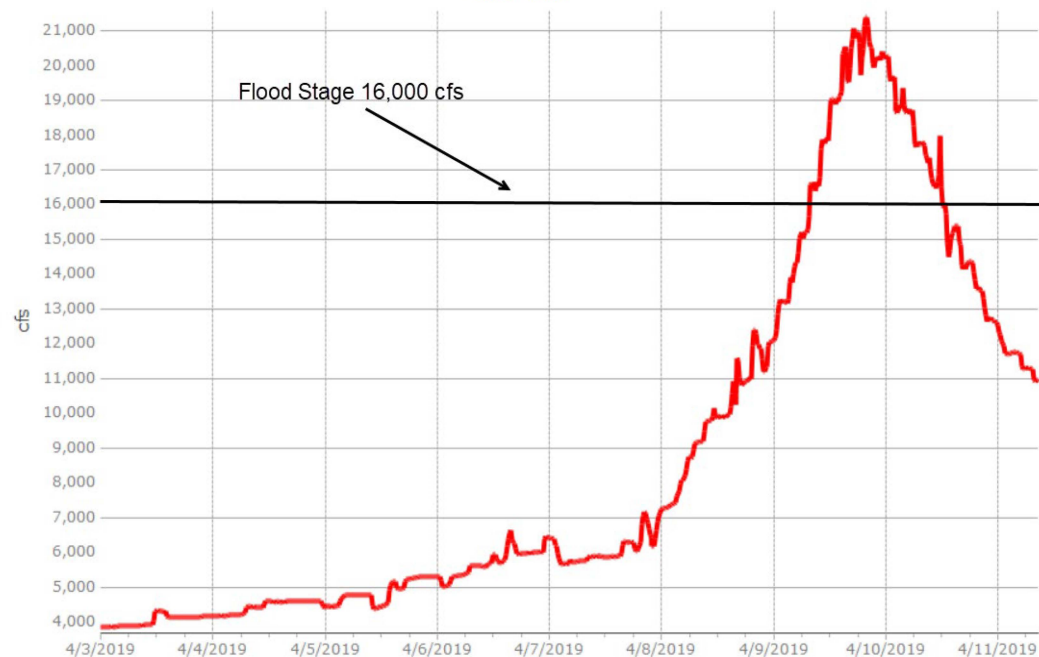
Payette River near Horseshoe Bend, ID

PNRO - Boise



Black Canyon Dam and Reservoir near Emmett, ID

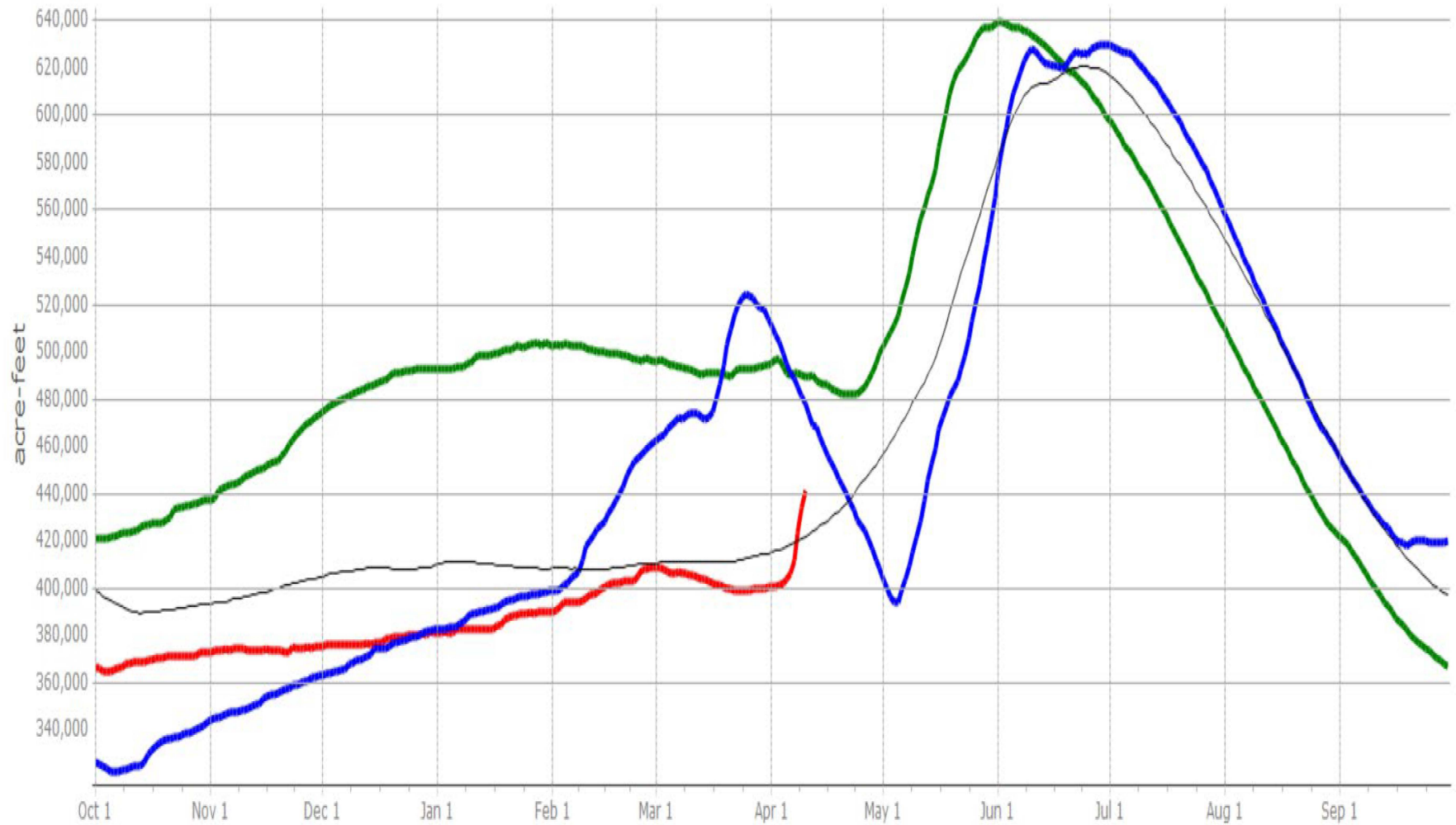
PNRO - Boise



2017-05-02 399965

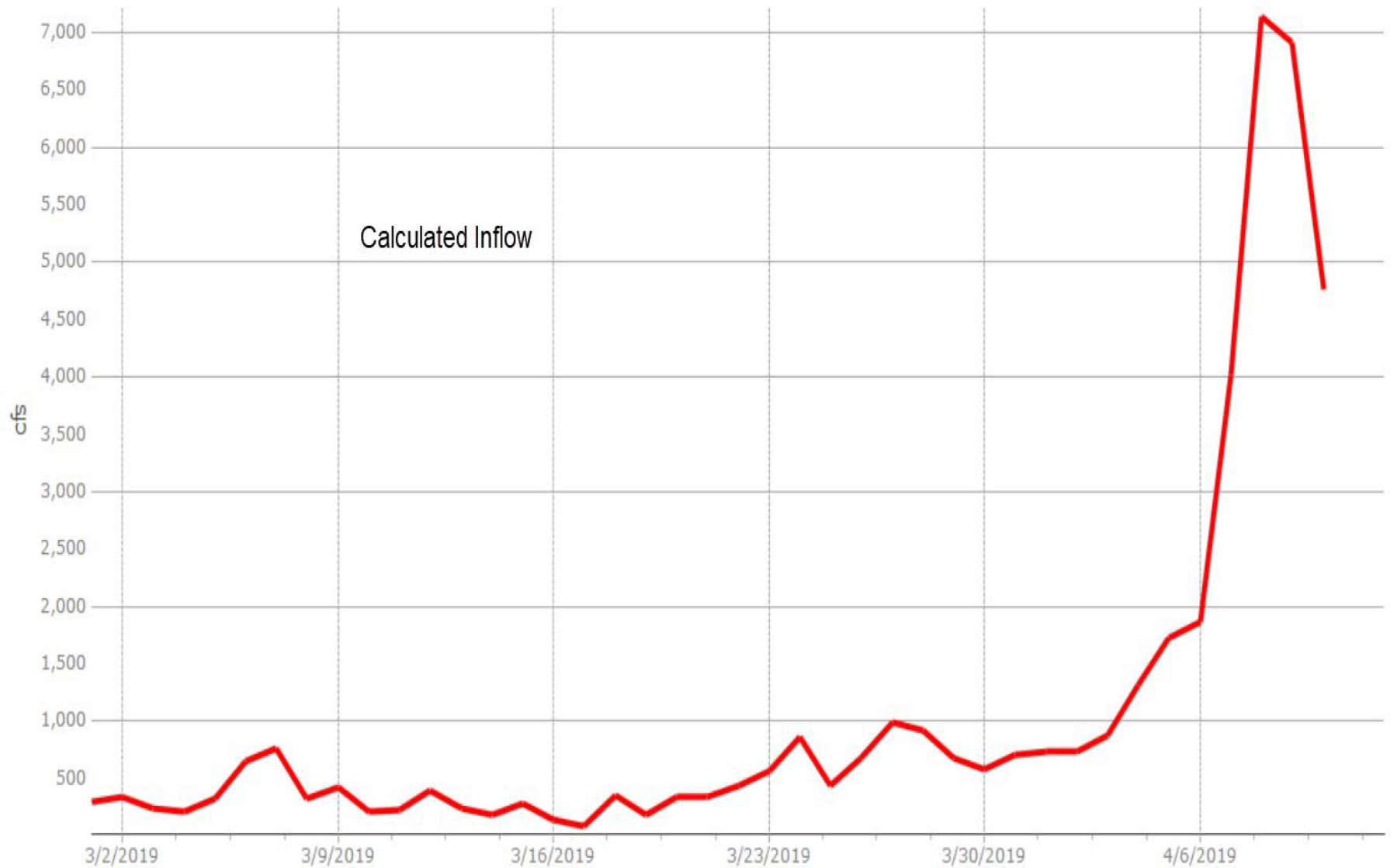
Cascade Dam and Lake Cascade at Cascade, Idaho Elevation:4828.000

✓ 2019 ✓ 2018 ✓ 2017 ✓ - avg



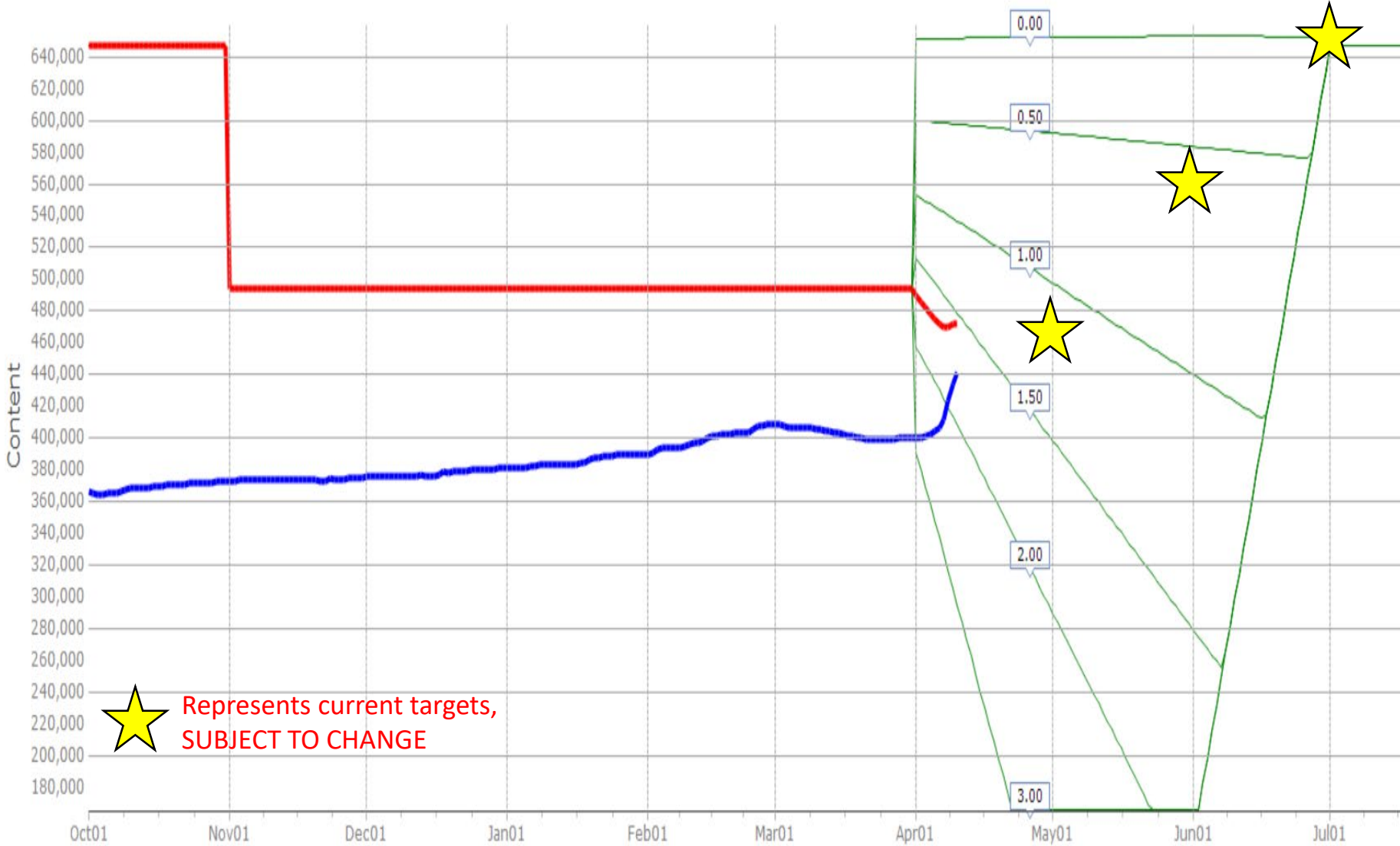
North Fork Payette River at Cascade, Idaho

PNRO - Boise



CSC - Cascade

☒  2019 Guide Curve
 ☒  2019 Actual



Cascade Operations

- Flows were at 600 cfs – Evening of April 8, flows reduced to minimum flows of 200 cfs as Emmett flows began to rise (Target flood flows: 16,000)
- Increased flows to 1,200 cfs yesterday, April 10th
- Increased flows today to 2,200 cfs, anticipate increase to 3,000 tomorrow to hold space in reservoir
- System inflows will determine the rate and timing of releases

North Fork Payette River at Cascade, Idaho

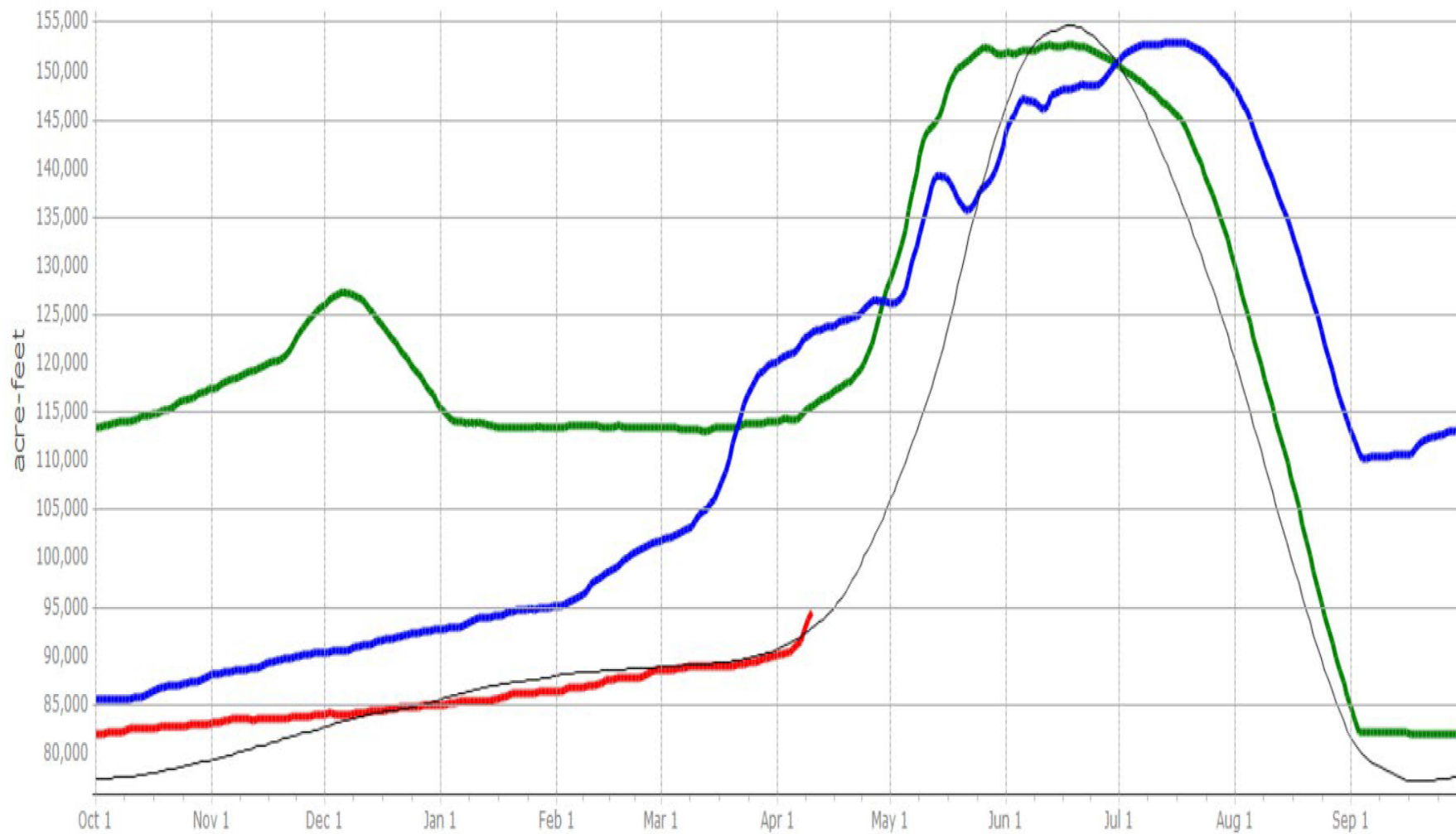
PNRO - Boise



2018-05-10 143047

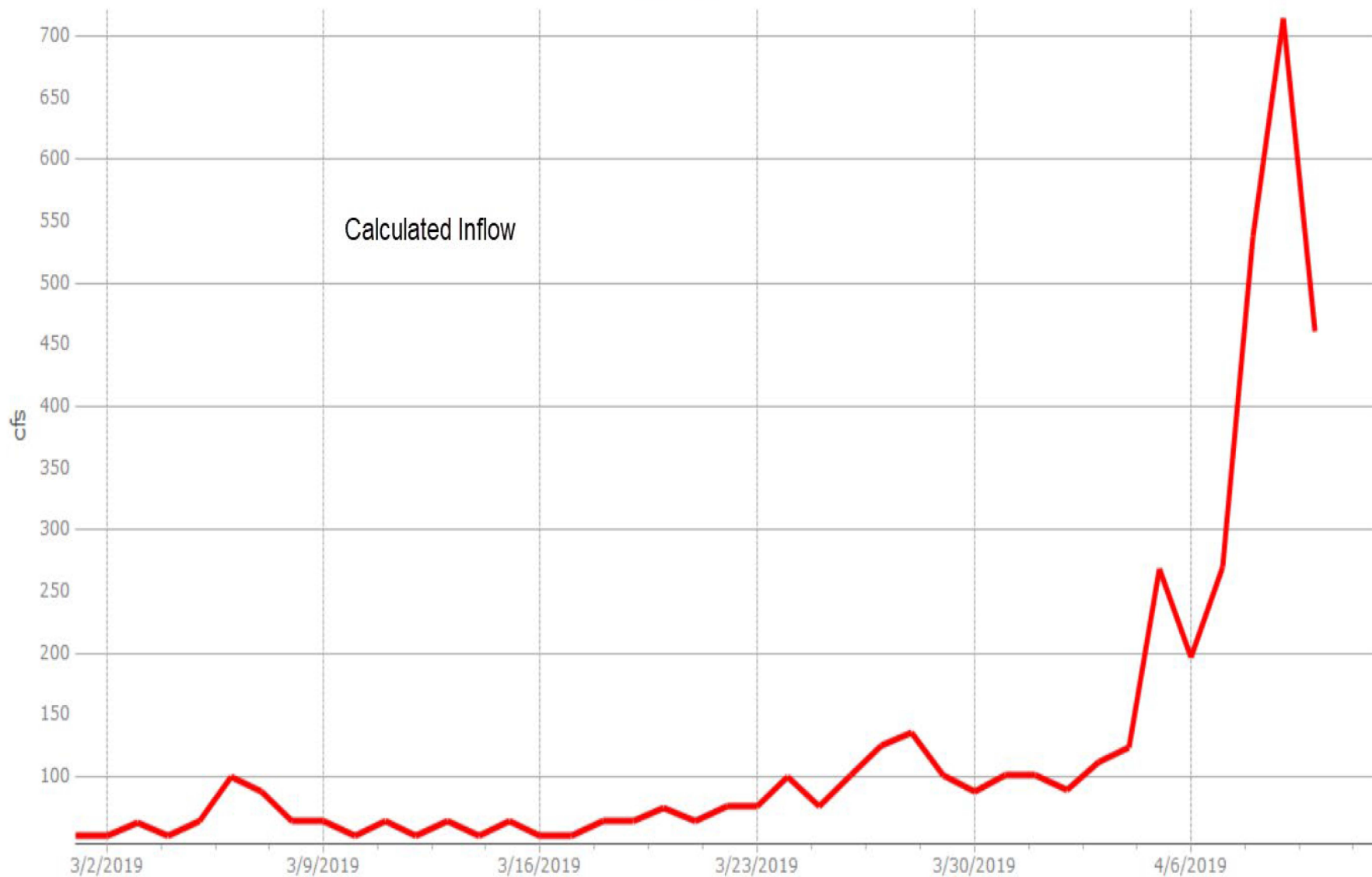
Deadwood Dam, Idaho Elevation:5334.000

☑ 2019 ☑ 2018 ☑ 2017 ☑ avg



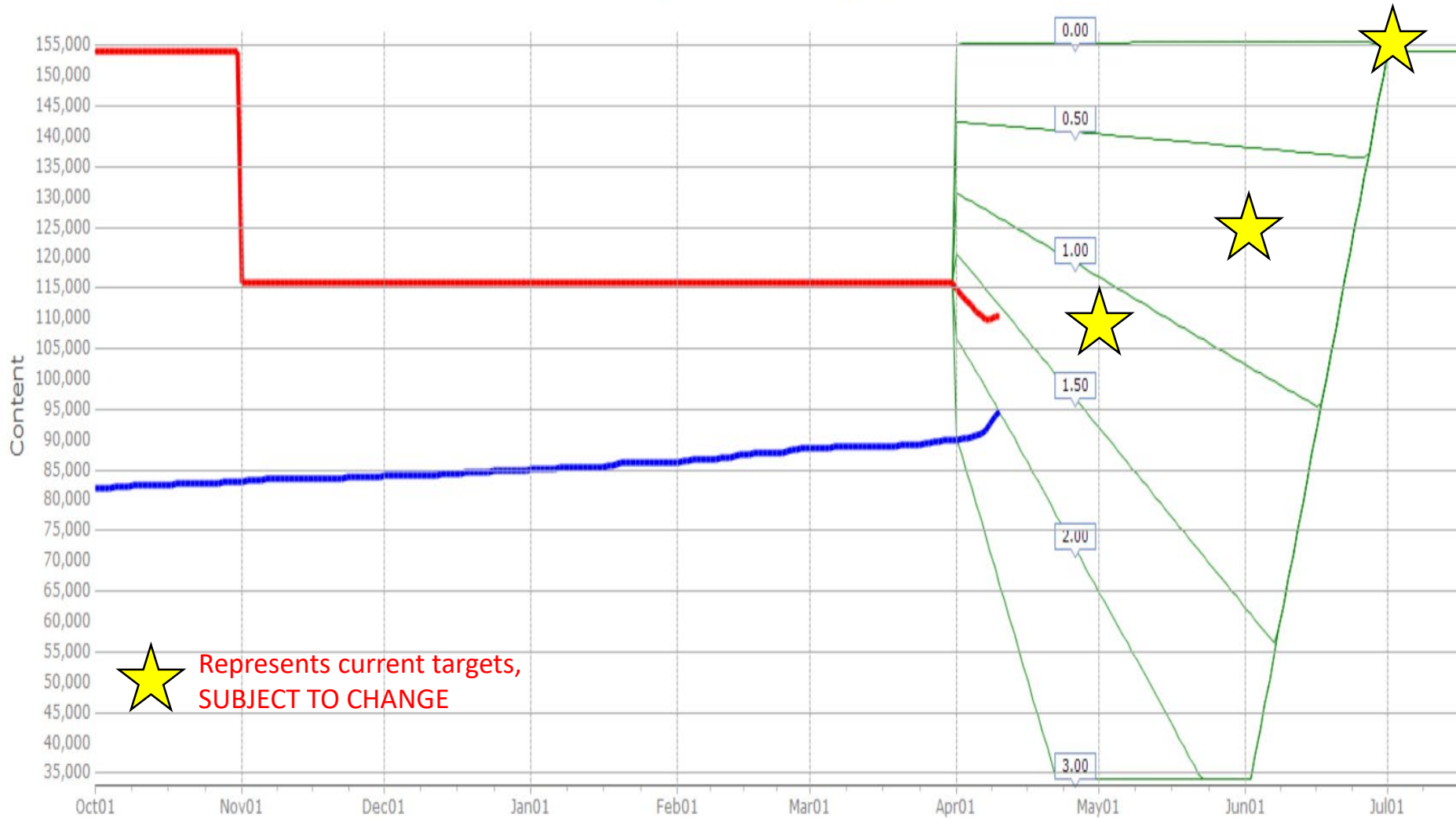
Deadwood River below Deadwood Dam

PNRO - Boise



DED - Deadwood

☑ 2019 Guide Curve ☑ 2019 Actual

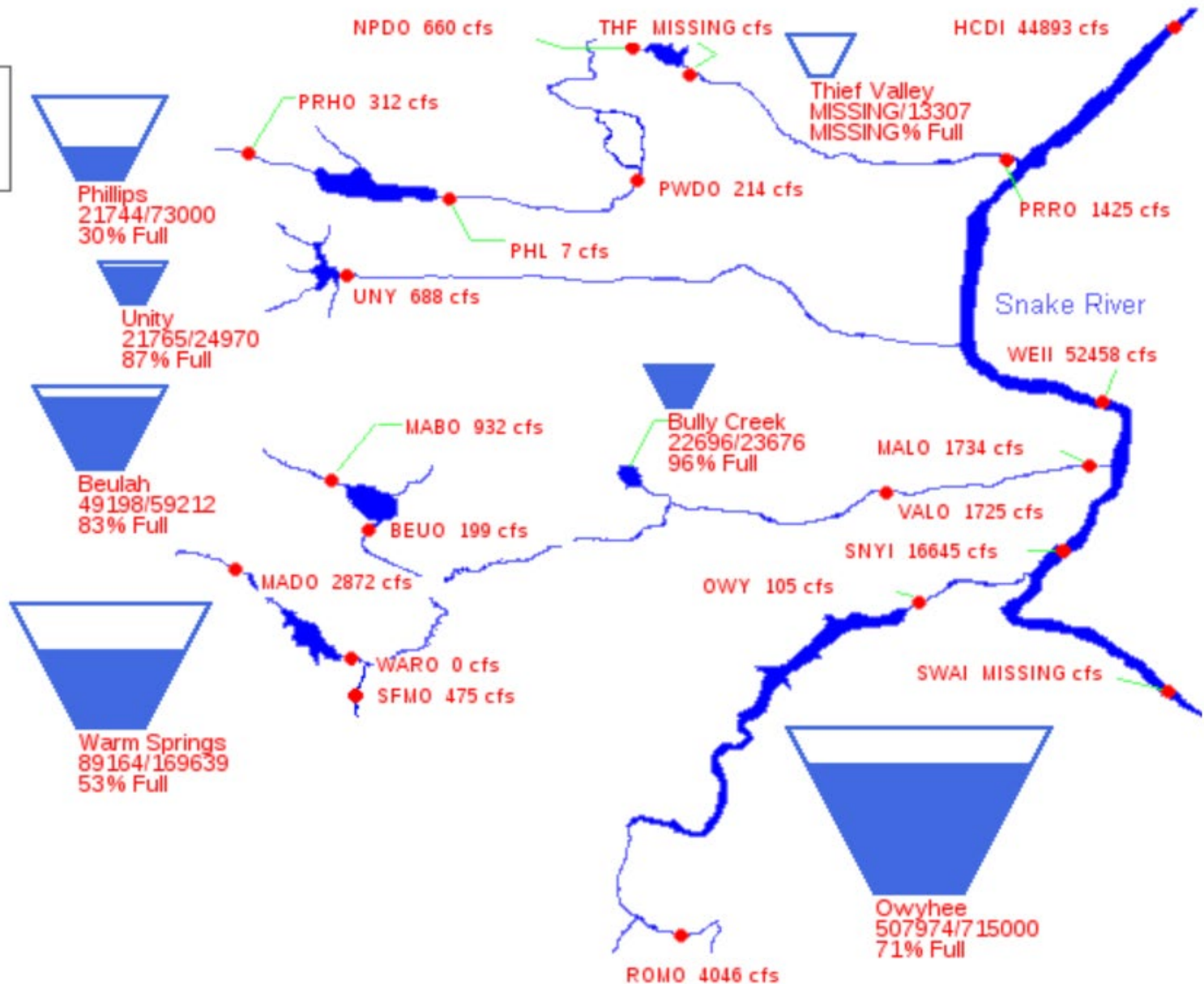
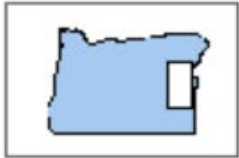


Deadwood Operations

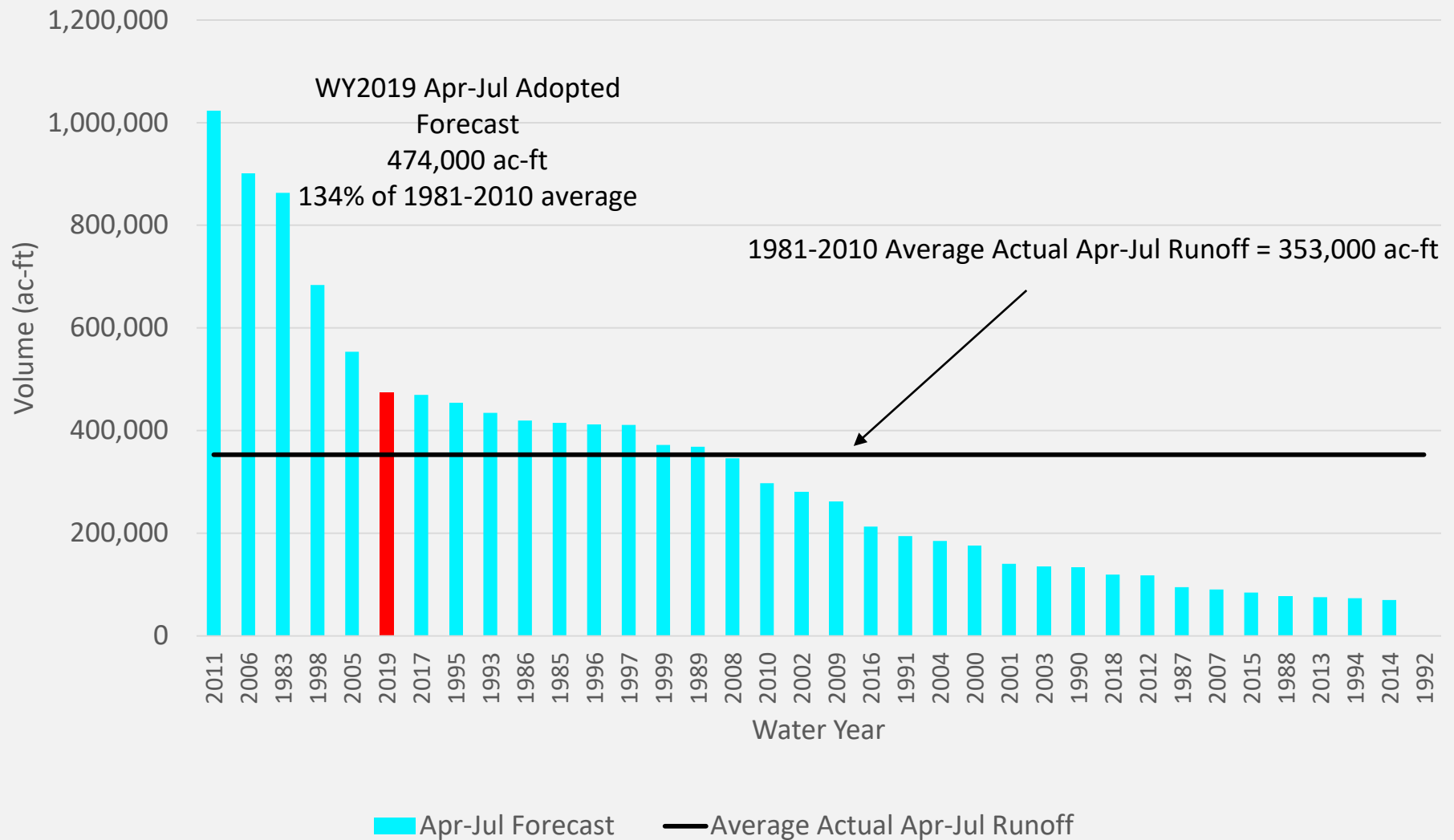
- Currently discharging 50 cfs
- Anticipate increasing outflows next week possibly depending on inflows at that time
- Targeting full in late June

Owyhee/Malheur Reservoir System

04/10/2019



Owyhee
Apr-Jul Water Supply Forecast
WY1983 to WY2019



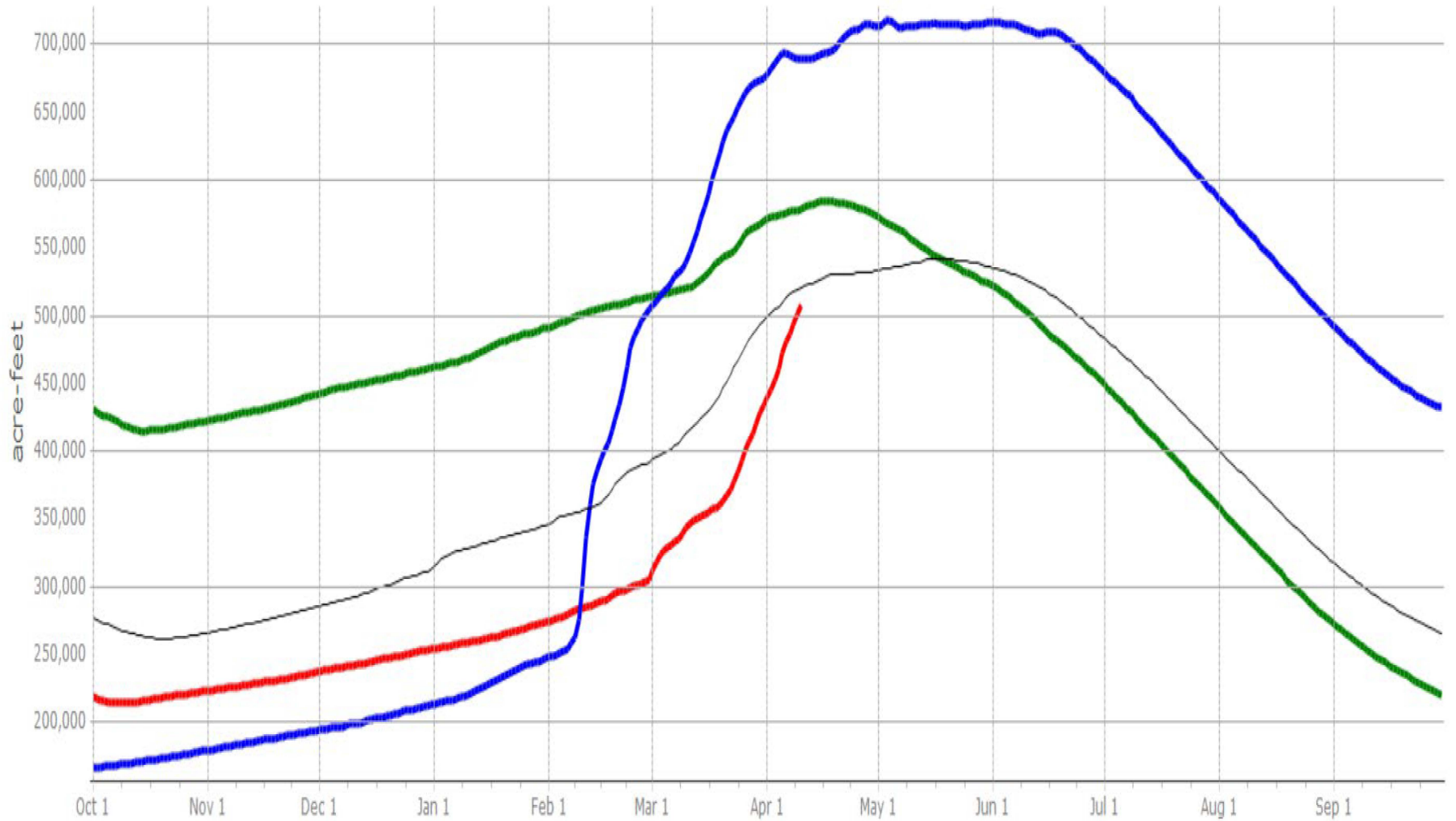
Owyhee Operations

- Currently discharging 105 cfs below the dam
- Currently discharging 75 cfs out the canal, will increase on Monday
- Discharge will increase as irrigation demand turns on
- Complete reservoir refill unlikely unless we get a very wet spring

avg-04-05 509732.789666667

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

☑ 2019 ☑ 2018 ☑ 2017 ☑ - avg



Lake Owyhee and Owyhee River near Nyssa, OR

PNRO - Boise

