

RECLAMATION

Managing Water in the West

Bighorn Lake/Yellowtail Dam Operations

November 17, 2016

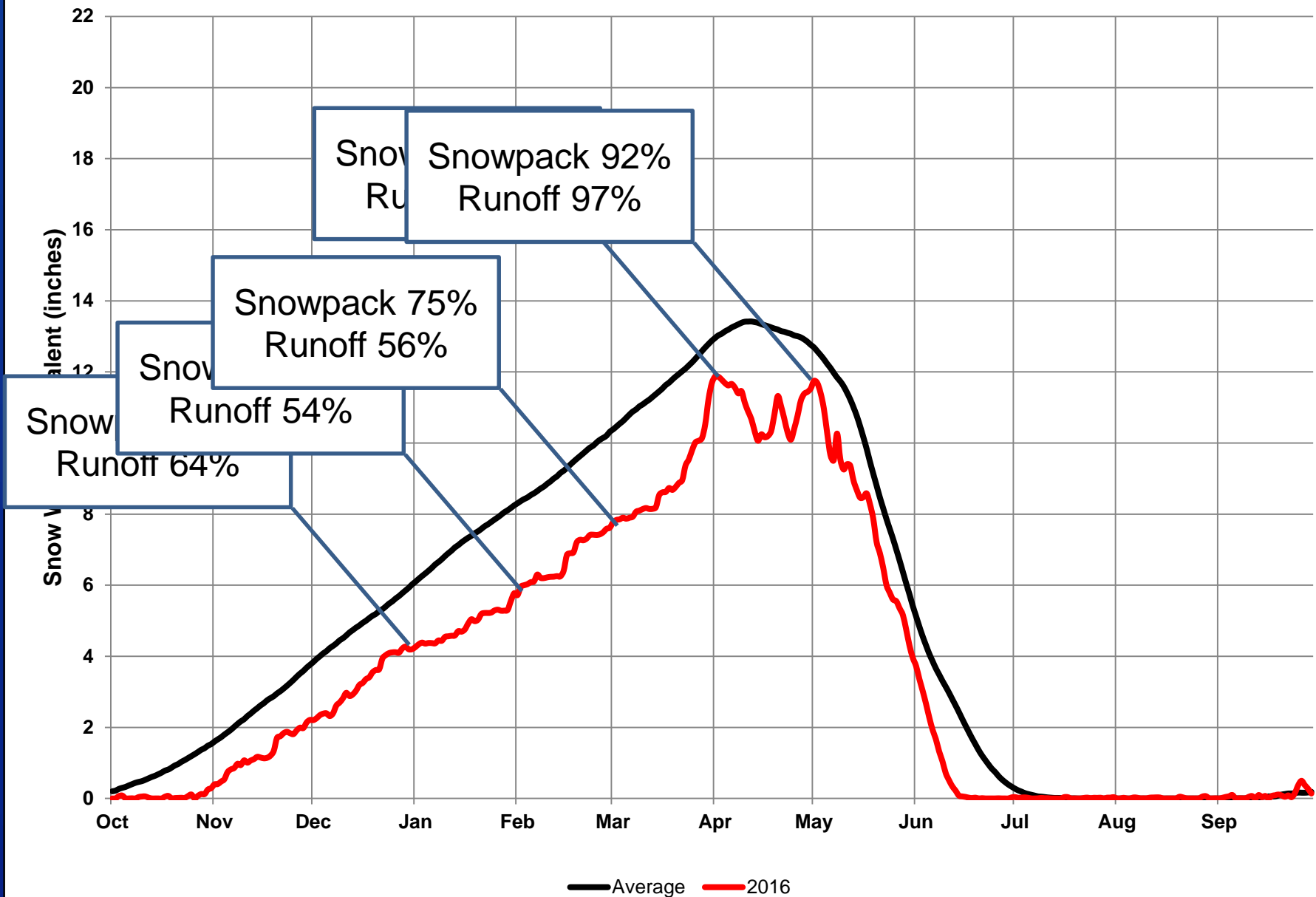


U.S. Department of the Interior
Bureau of Reclamation

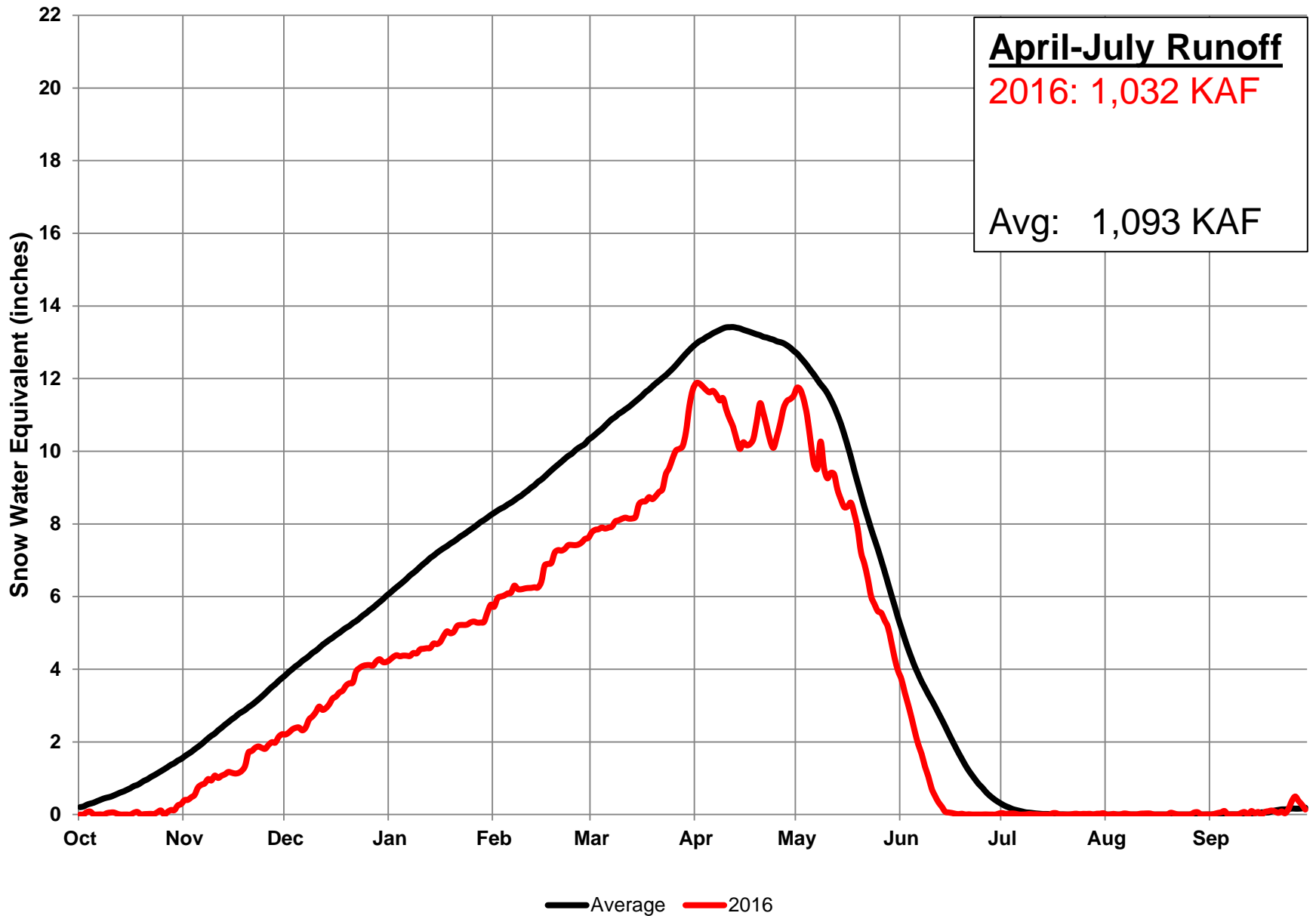
**Water Year 2016 Review
for
Yellowtail Dam/Bighorn
Lake**

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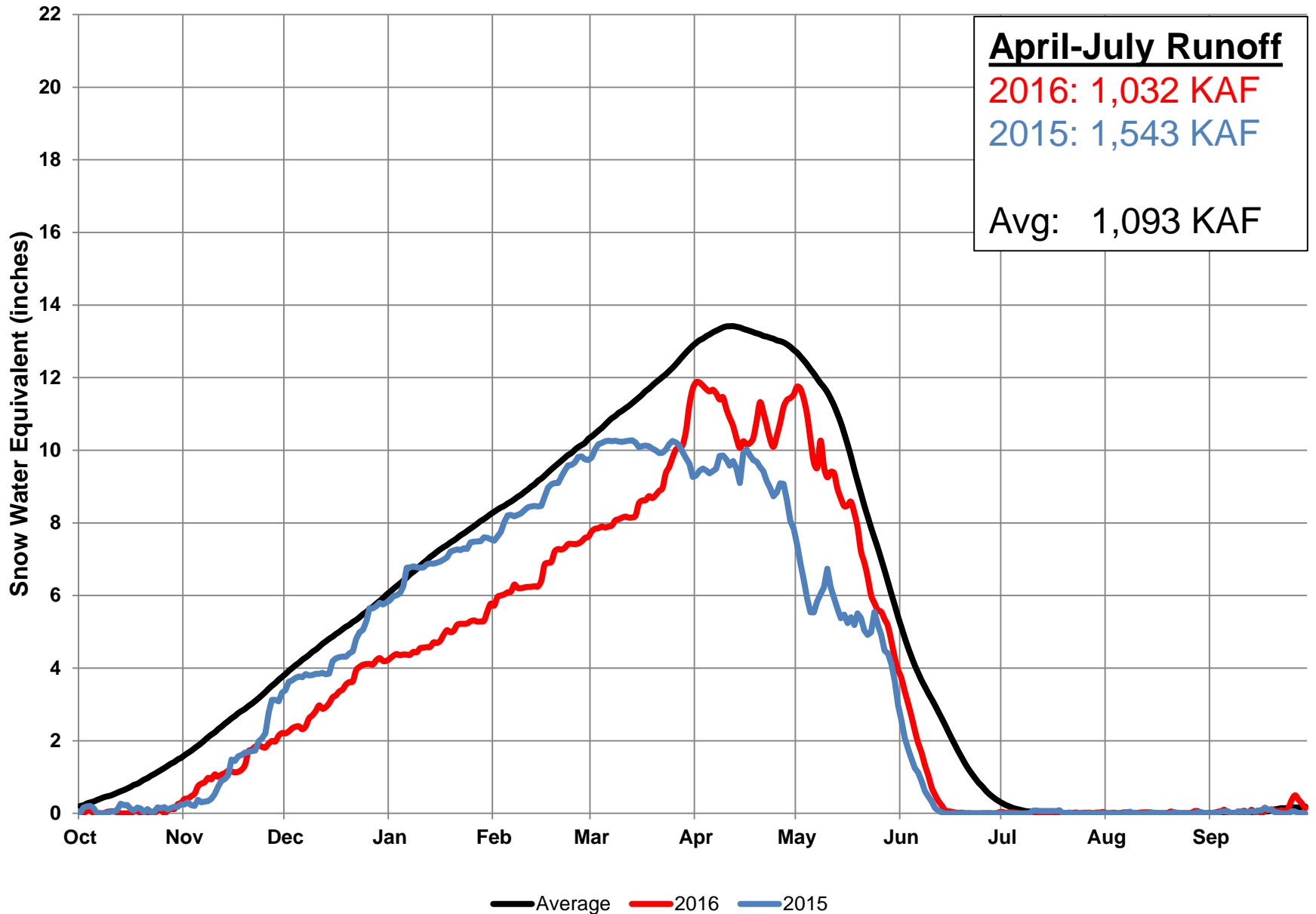
Mountain Snowpack



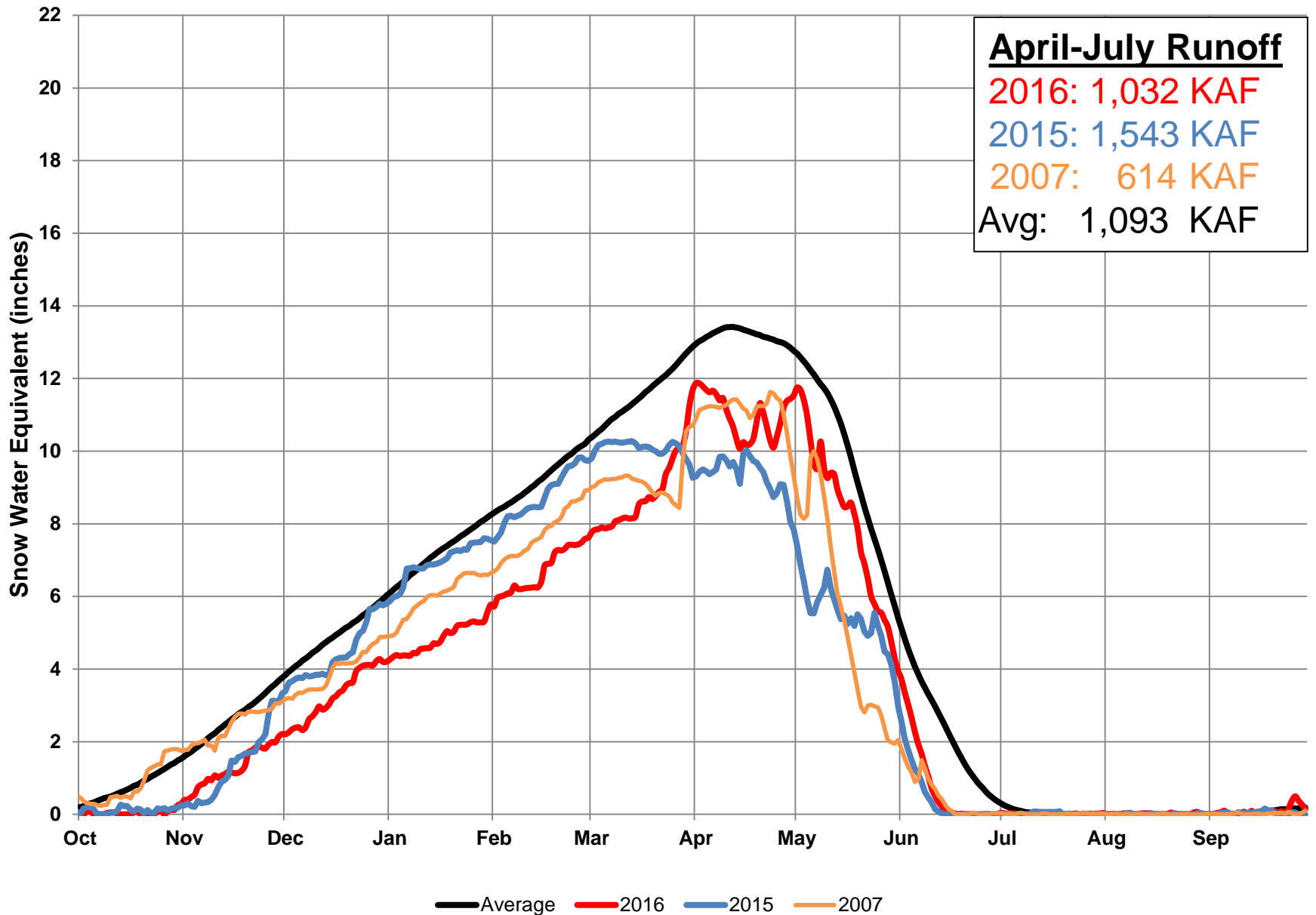
Mountain Snowpack



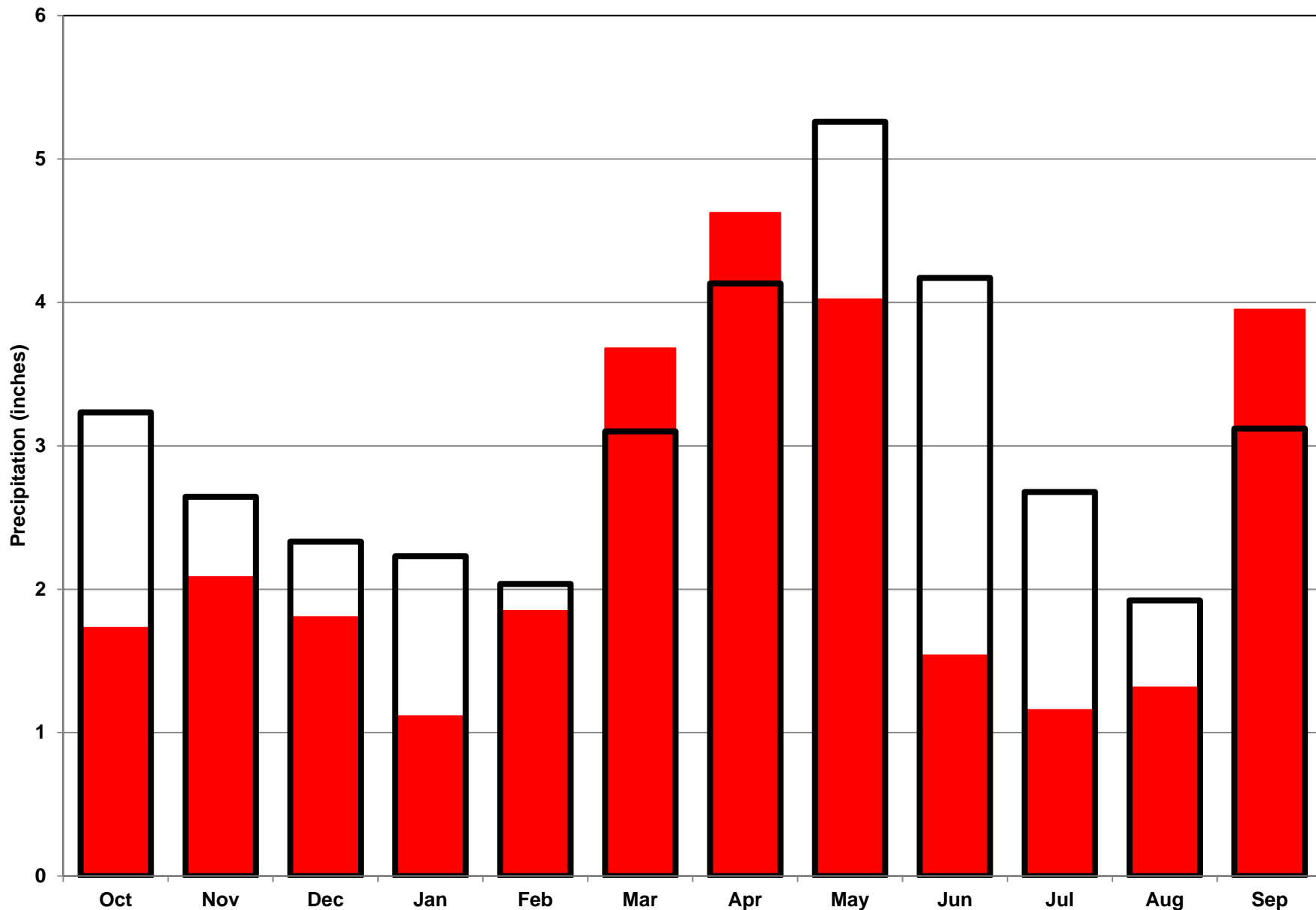
Mountain Snowpack



Mountain Snowpack

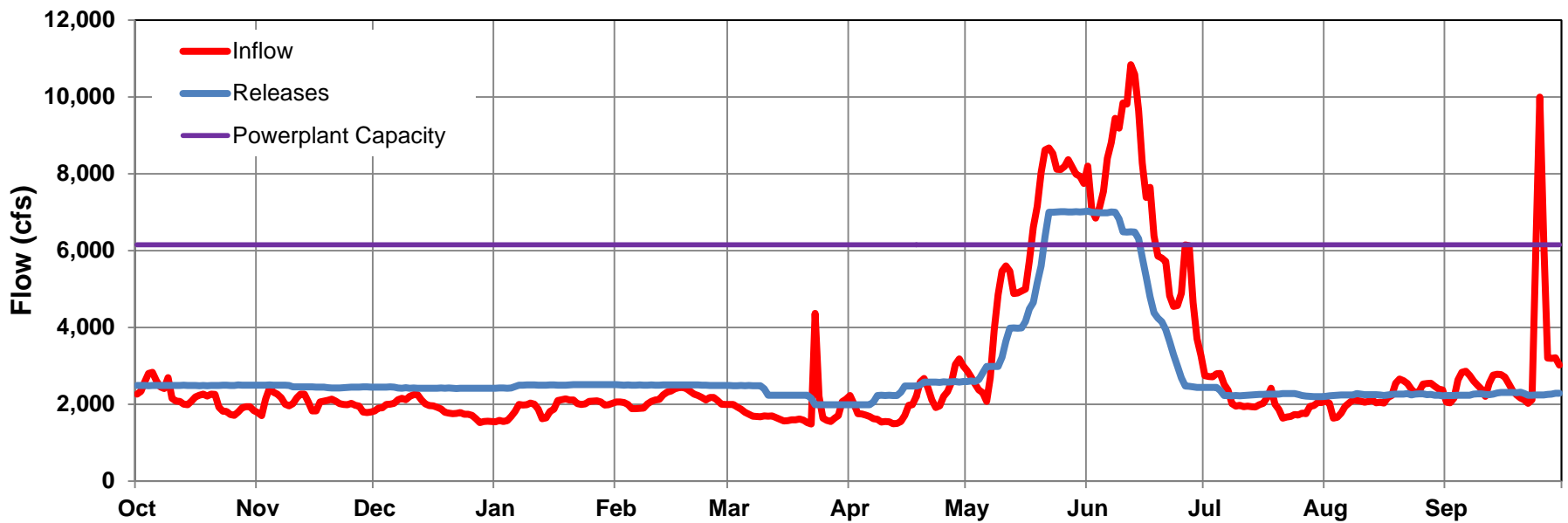
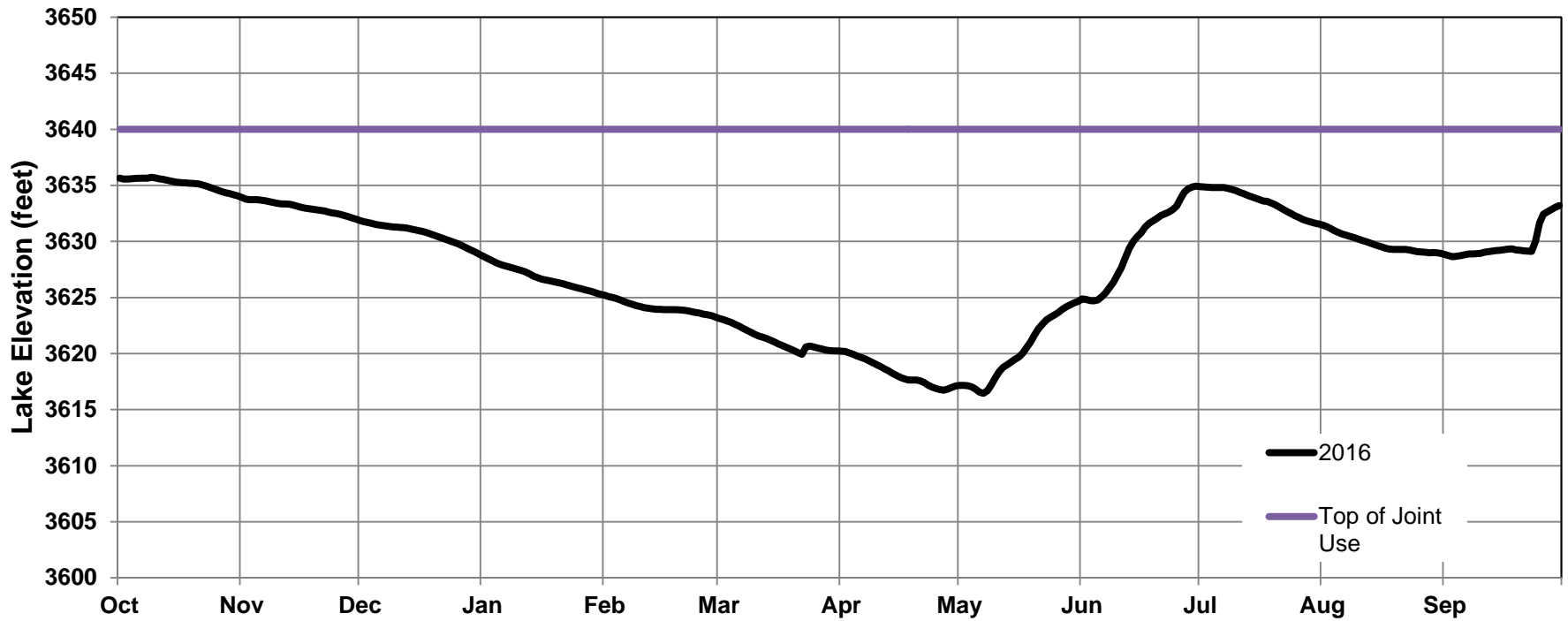


Bighorn River Basin Precipitation



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Bighorn Lake Operations 2016

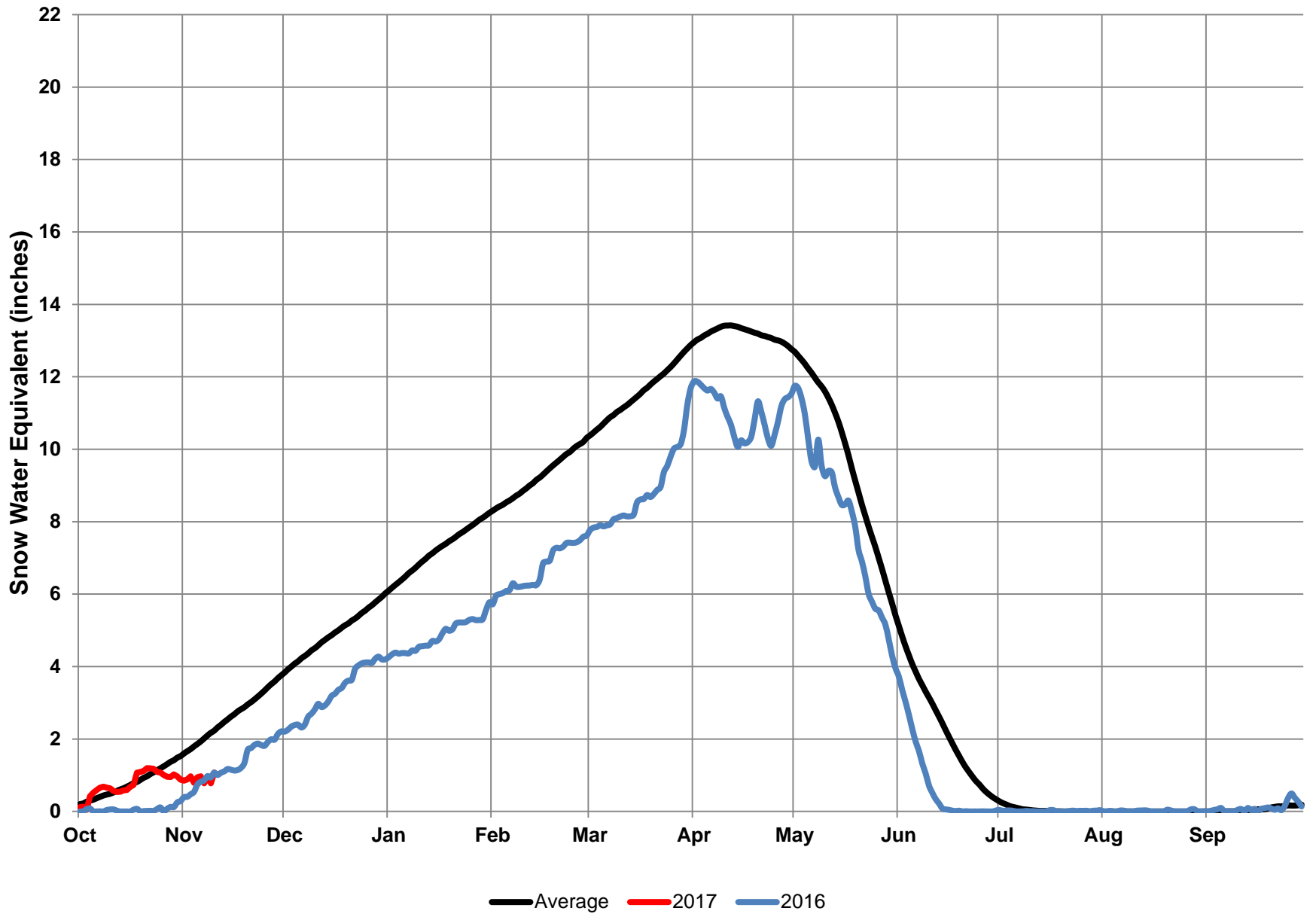


Water Year 2017

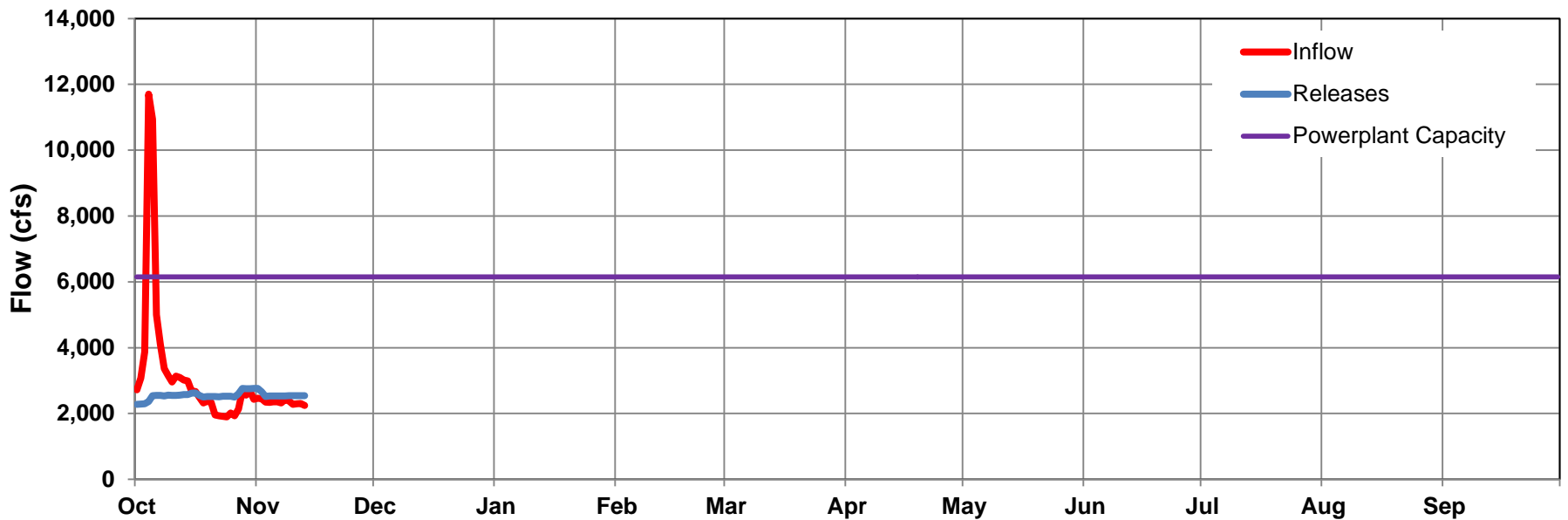
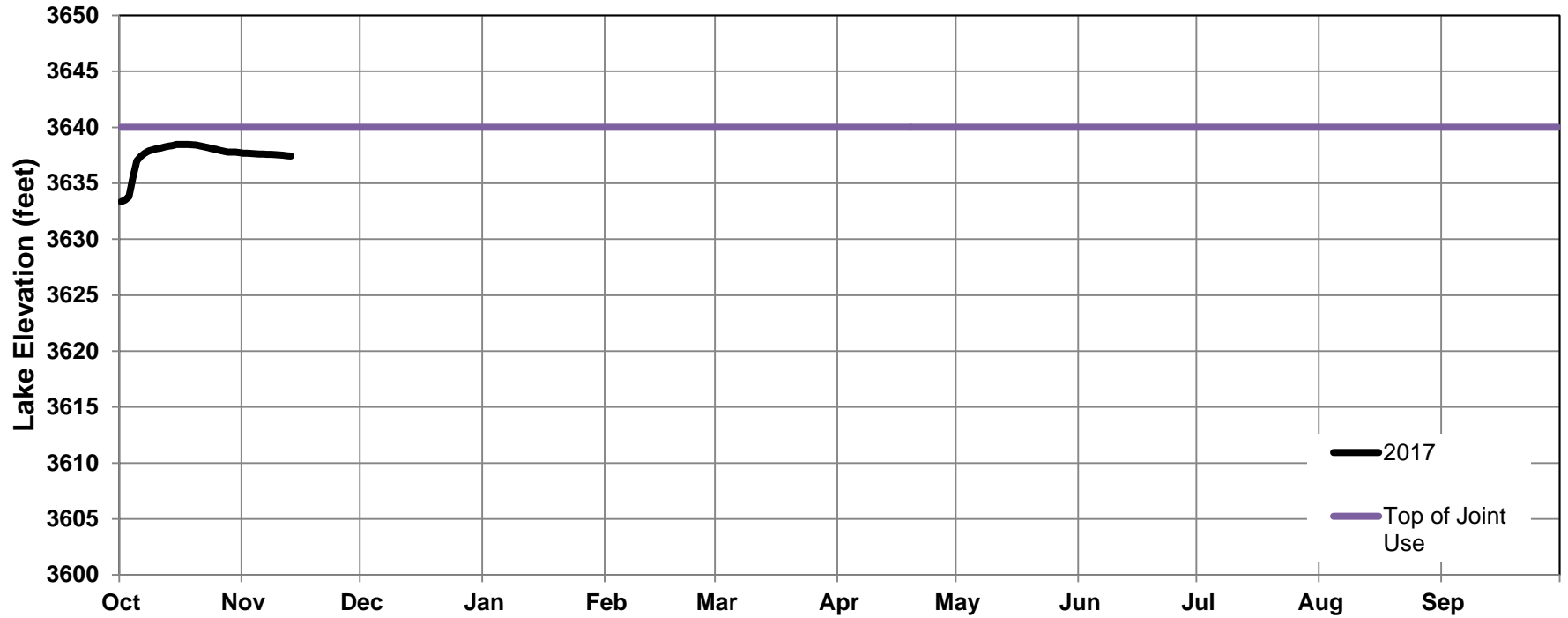
Fall and Winter Outlook

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Mountain Snowpack



Bighorn Lake Operations 2016



Conditions on November 1, 2016

| | |
|-----------|---|
| Elevation | 3637.7 - 2.3 feet below full pool 3.7 feet higher than last year |
| Storage | 992,930 acre-feet: 111% of average 97% full |
| Inflows | 2,430 cfs |
| Outflow | 2,750 cfs |

November through March Gains and Release

April-October Gain = 31,800 acre-feet

Calculated November-March Gain = 231,200 acre-feet

Upstream Reservoir Fall & Winter Releases =

Boysen = 850 cfs

Buffalo Bill = 205 cfs

End-of-October Storage = 992,930 acre-feet

Projected End-of-March Target Elevation = 3617 (807,900
acre-feet)

Calculated Fall & Winter Release for Yellowtail:

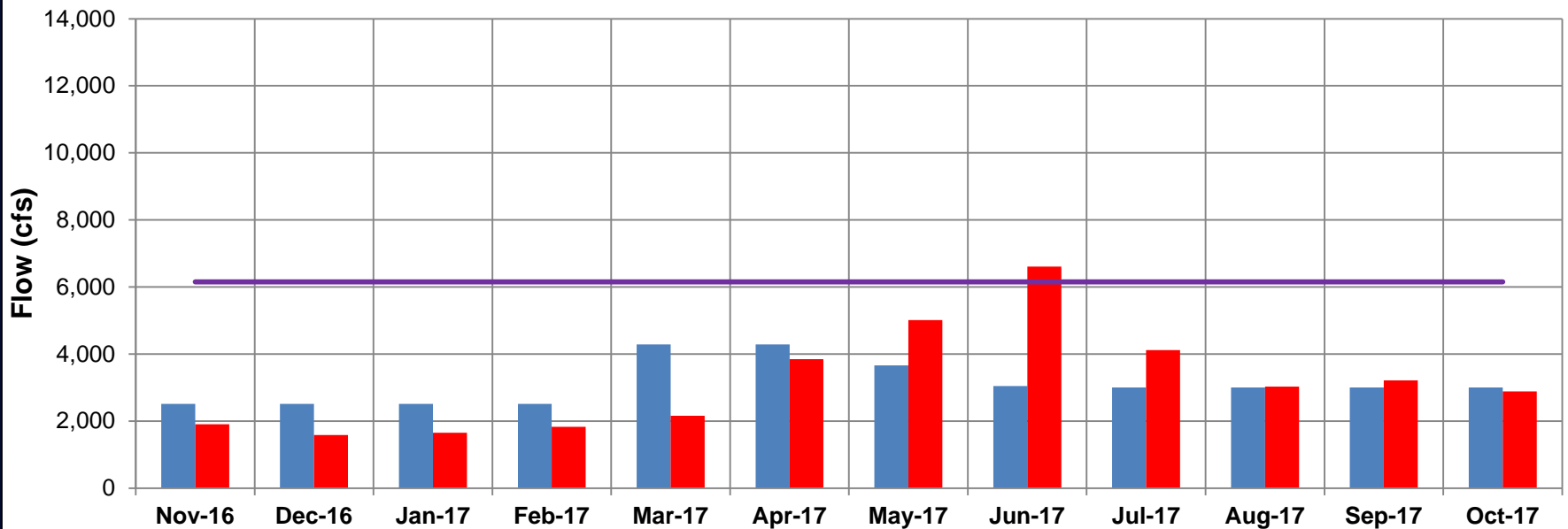
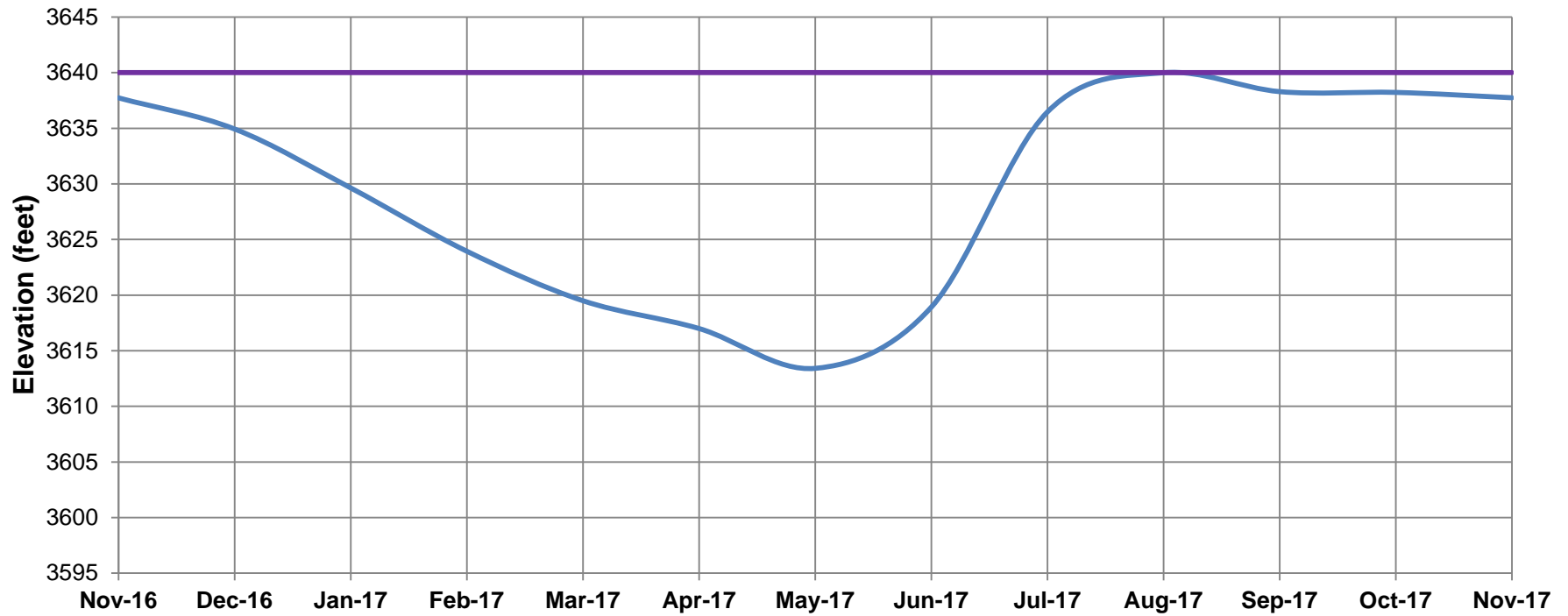
River = 2,510 cfs

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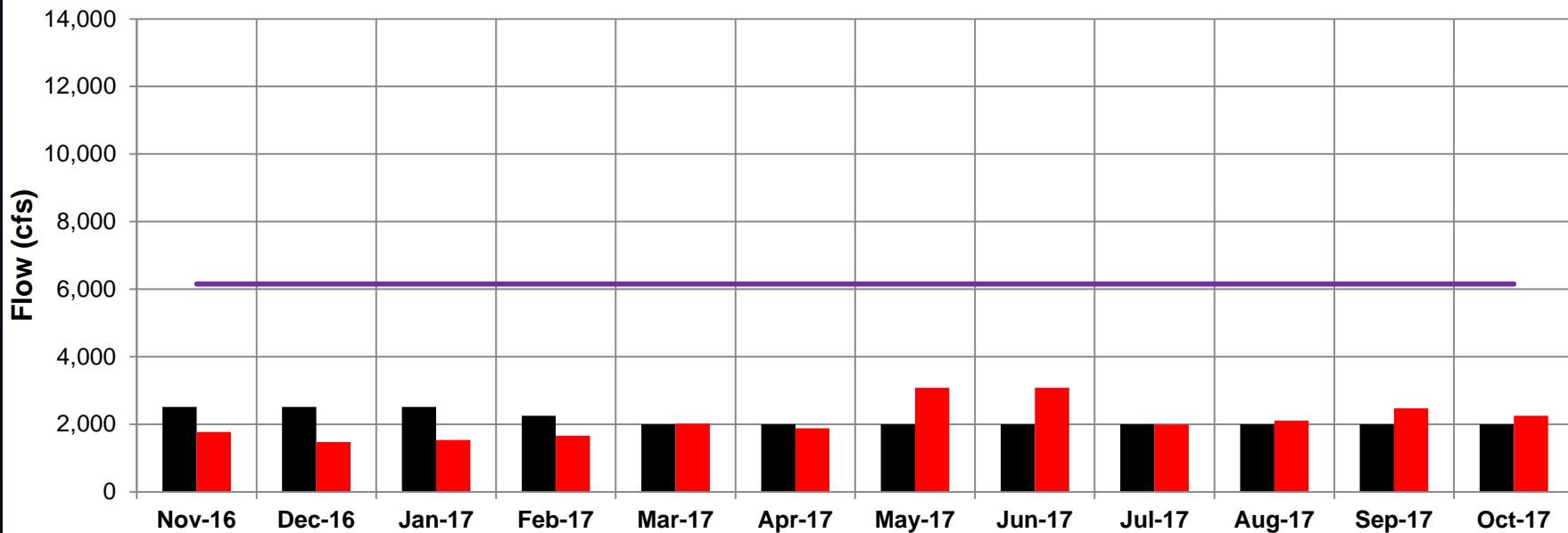
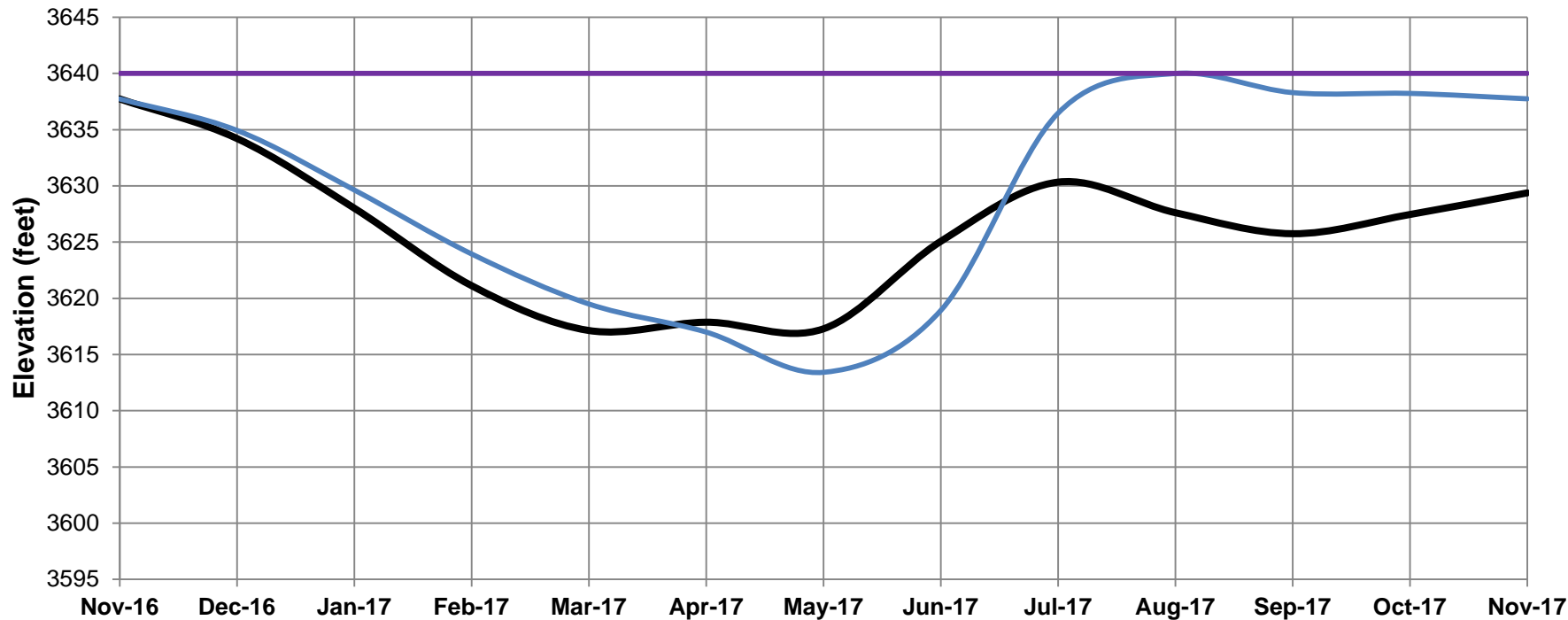
November Monthly Operating Plans

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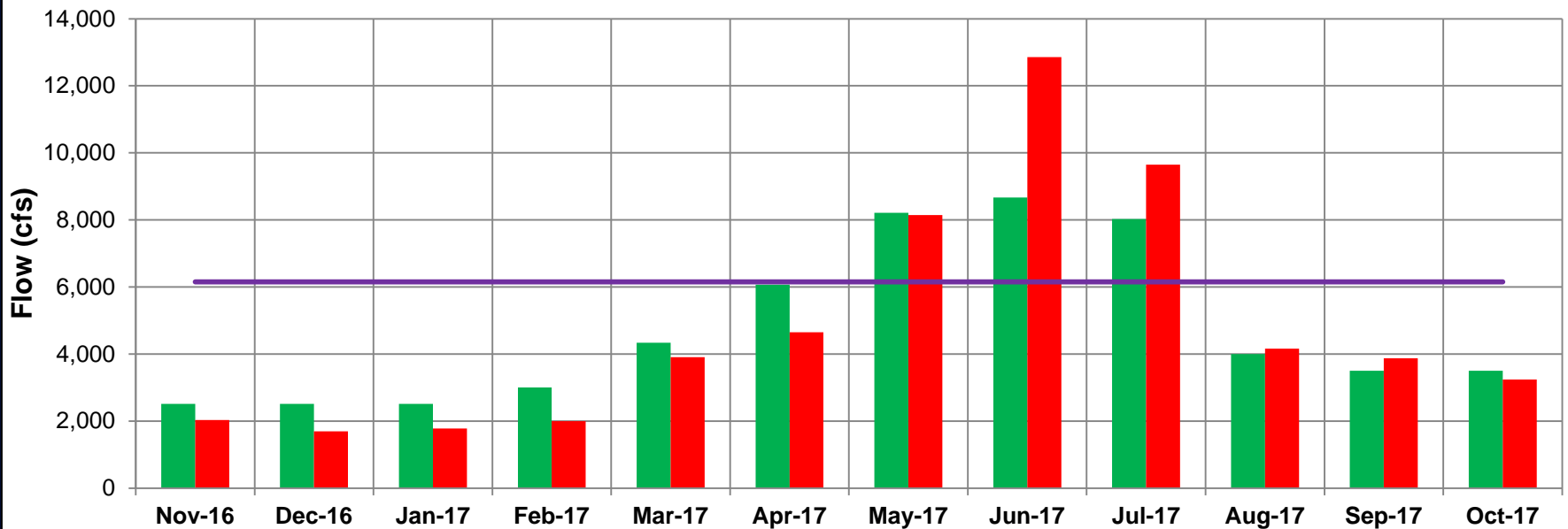
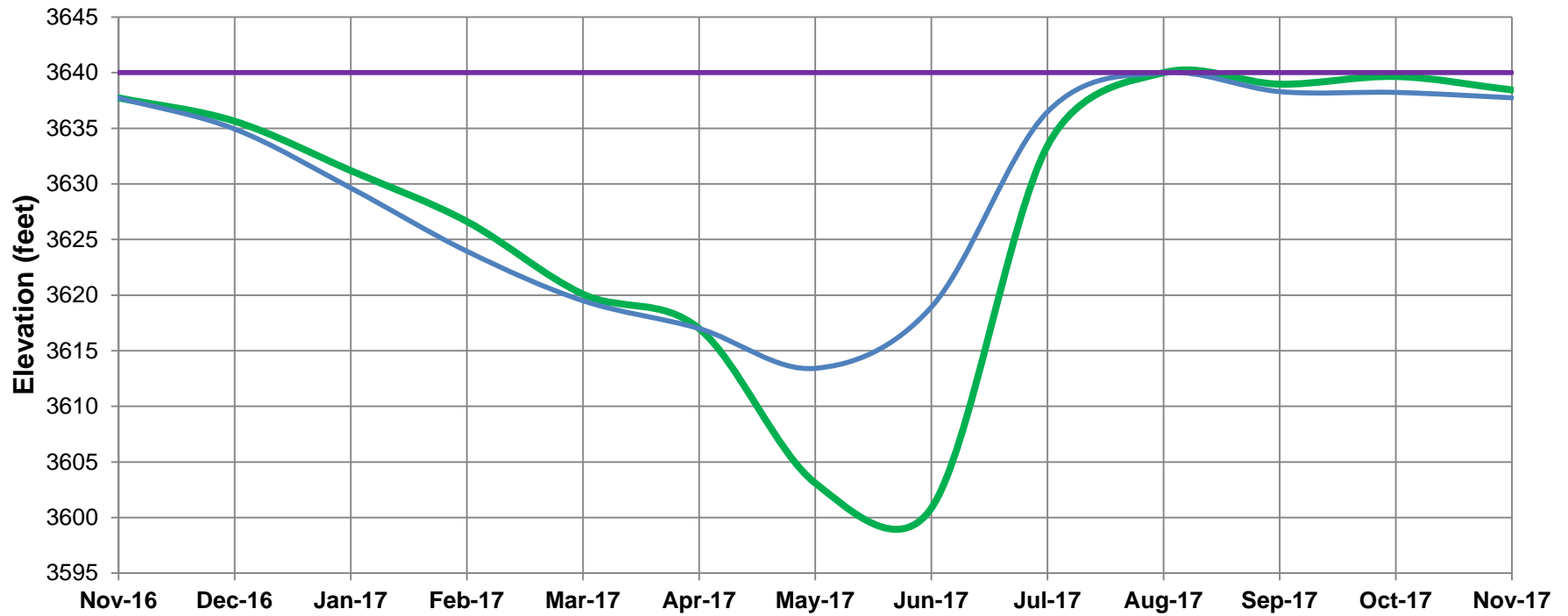
Most Probable Inflow Operations



Most and Minimum Probable Inflow Operations



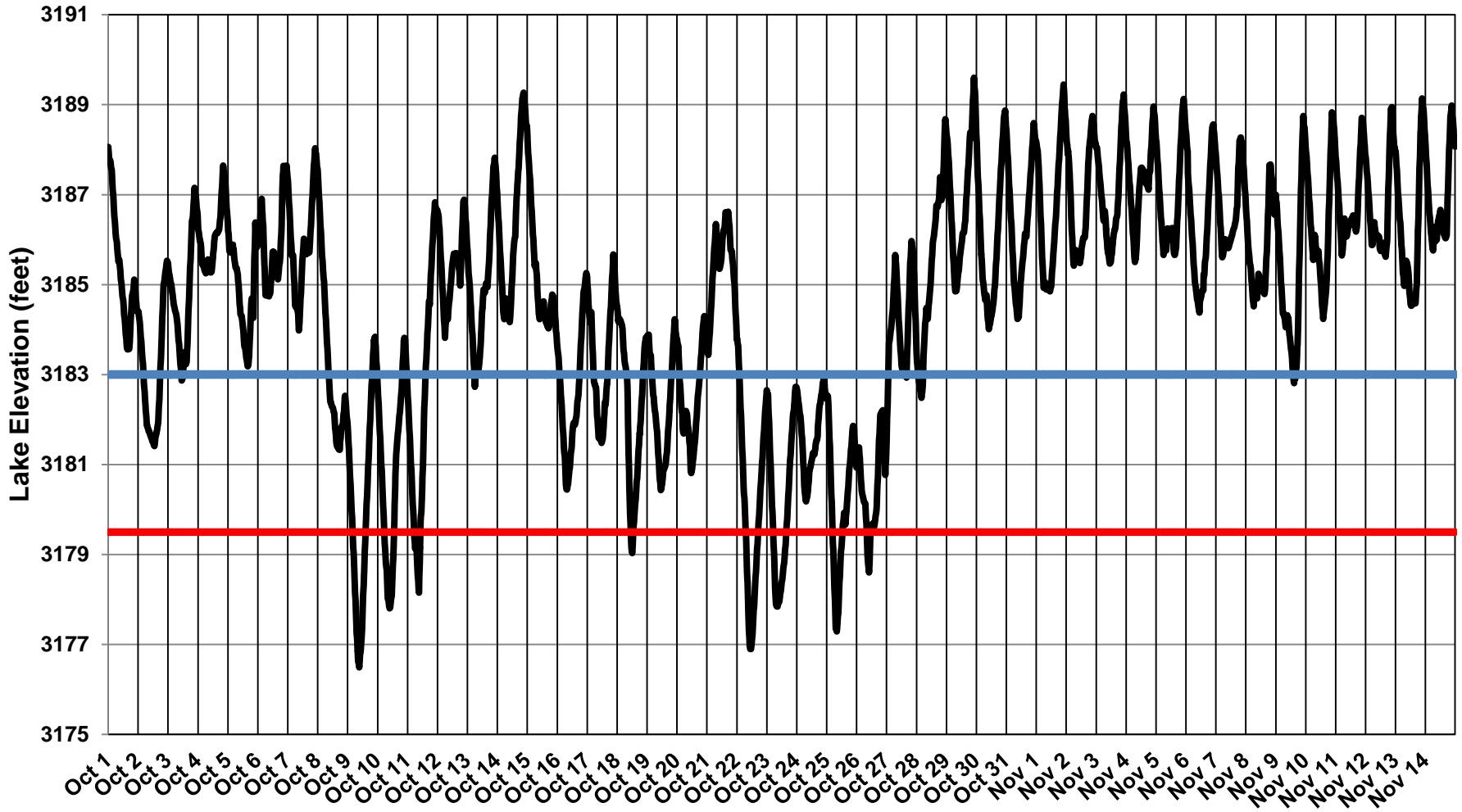
Most and Maximum Probable Inflow Operations



Yellowtail Afterbay Operations

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Yellowtail Afterbay Elevation



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Questions and Comments

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Reclamation's Internet Website

www.usbr.gov/gp/lakes_reservoirs/wareprts/main_menu.html

- Near real-time data available through the HYDROMET data system
- Summaries and plots of historical data
- Annual reservoir operating plan publication
- Monthly water supply reports
- Project data
- Snow plots
- Links to related internet sites

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