



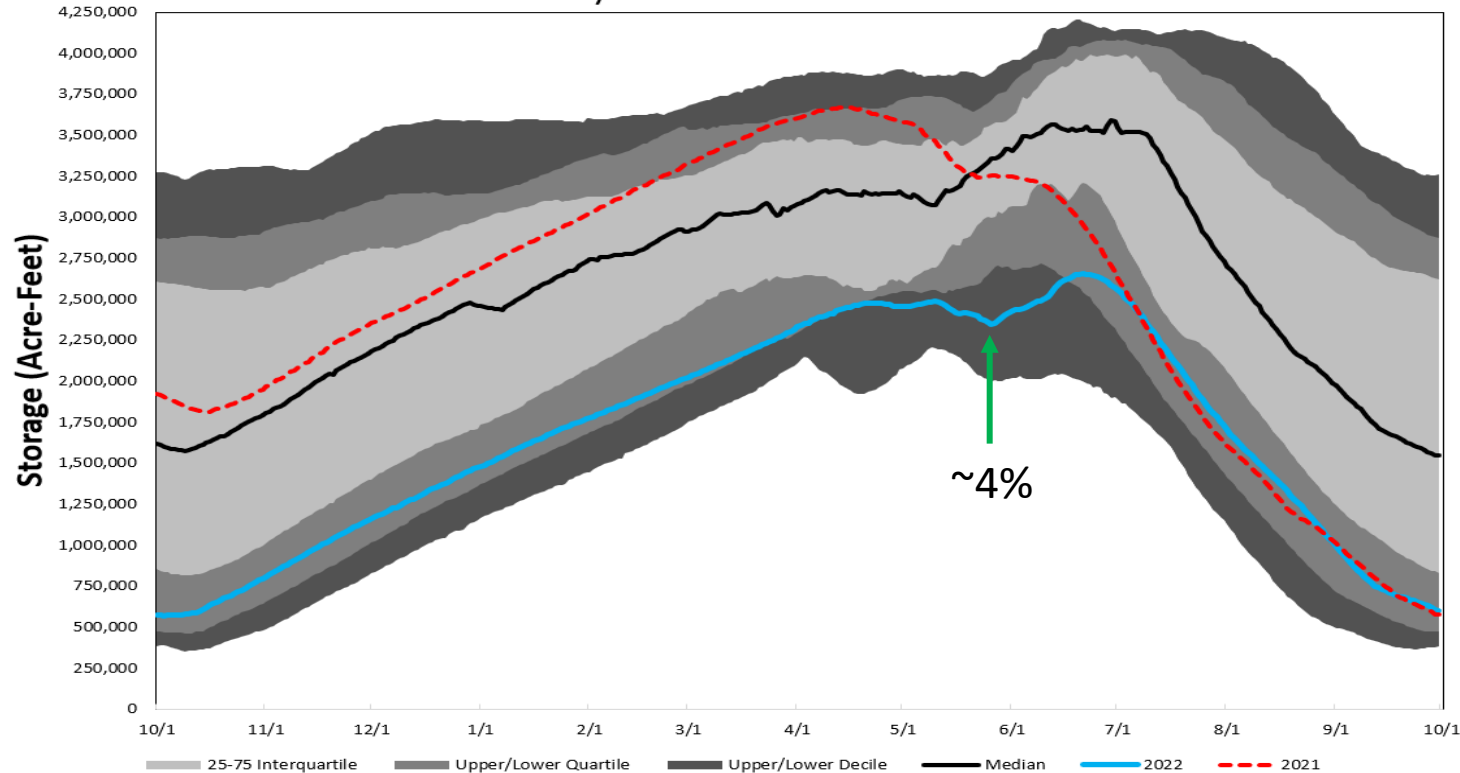
— BUREAU OF —  
RECLAMATION

# **Snake River above Milner Dam Water Supply and Reservoir Operations Update**

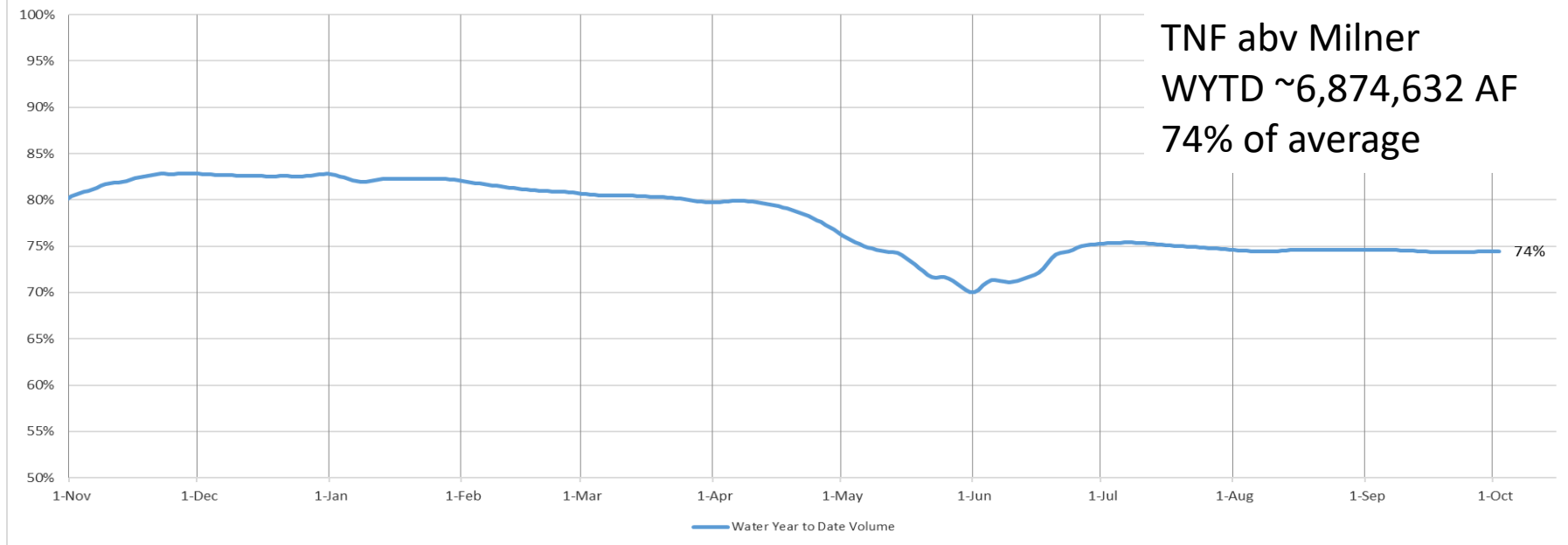
| BASIN                        | FULL (Acre-Feet) | AVG (Acre-Feet) | CURRENT (Acre-Feet) | %FULL | %AVG | Year-DELTA (Acre-Feet) |
|------------------------------|------------------|-----------------|---------------------|-------|------|------------------------|
| Upper Snake System           | 4,135,695        | 1,551,089       | 558,844             | 14%   | 36%  | -18,714                |
| Above Heise                  | 2,047,000        | 953,024         | 240,144             | 12%   | 25%  | 52,595                 |
| Palisades Reservoir          | 1,200,000        | 474,800         | 98,930              | 8%    | 21%  | 40,509                 |
| Jackson Lake                 | 847,000          | 478,224         | 141,214             | 17%   | 30%  | 12,086                 |
| Henrys Fork Reservoirs       | 240,385          | 157,048         | 143,033             | 60%   | 91%  | -7,108                 |
| Island Park                  | 135,205          | 69,219          | 61,730              | 46%   | 89%  | -2,940                 |
| Ririe Reservoir              | 80,540           | 44,475          | 41,721              | 52%   | 94%  | -200                   |
| Lower System (Amf & Walcott) | 1,767,770        | 396,542         | 133,946             | 8%    | 34%  | -64,001                |

Upper Snake Reservoir System Total Storage (Acre-Feet)

Analysis Period 1977-2021



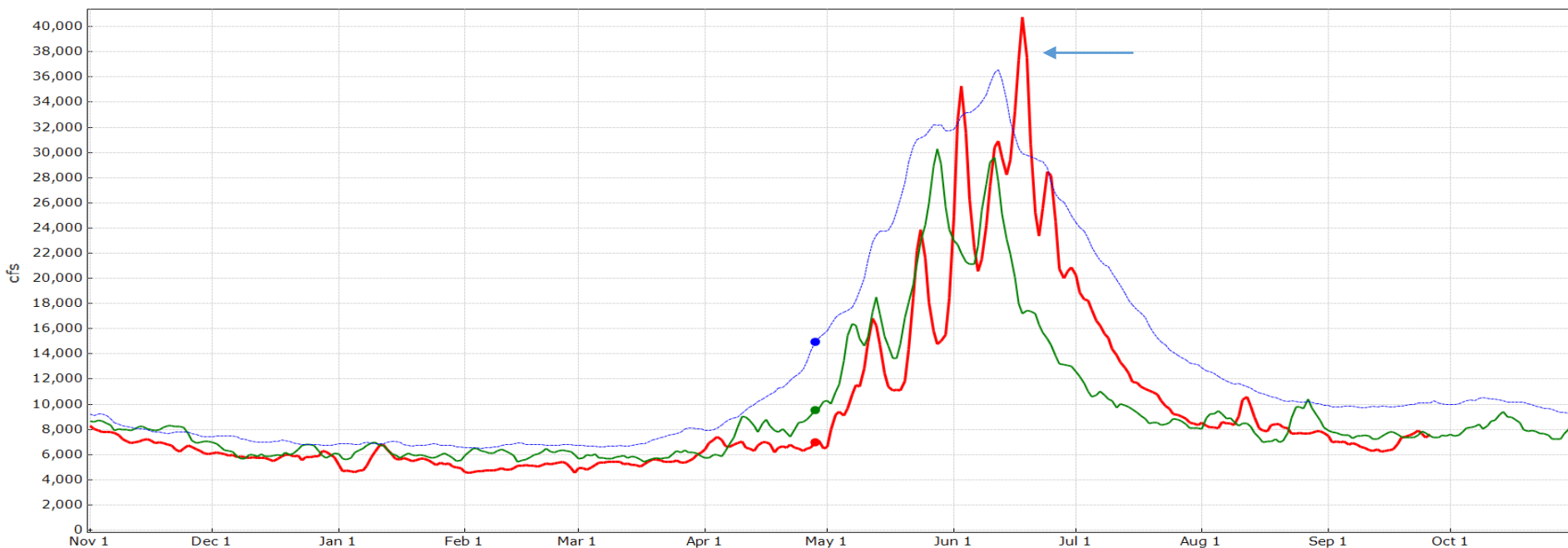
Natural Flow above Milner  
Water Year to Date Volume



2022

2021

30 Year Running Average

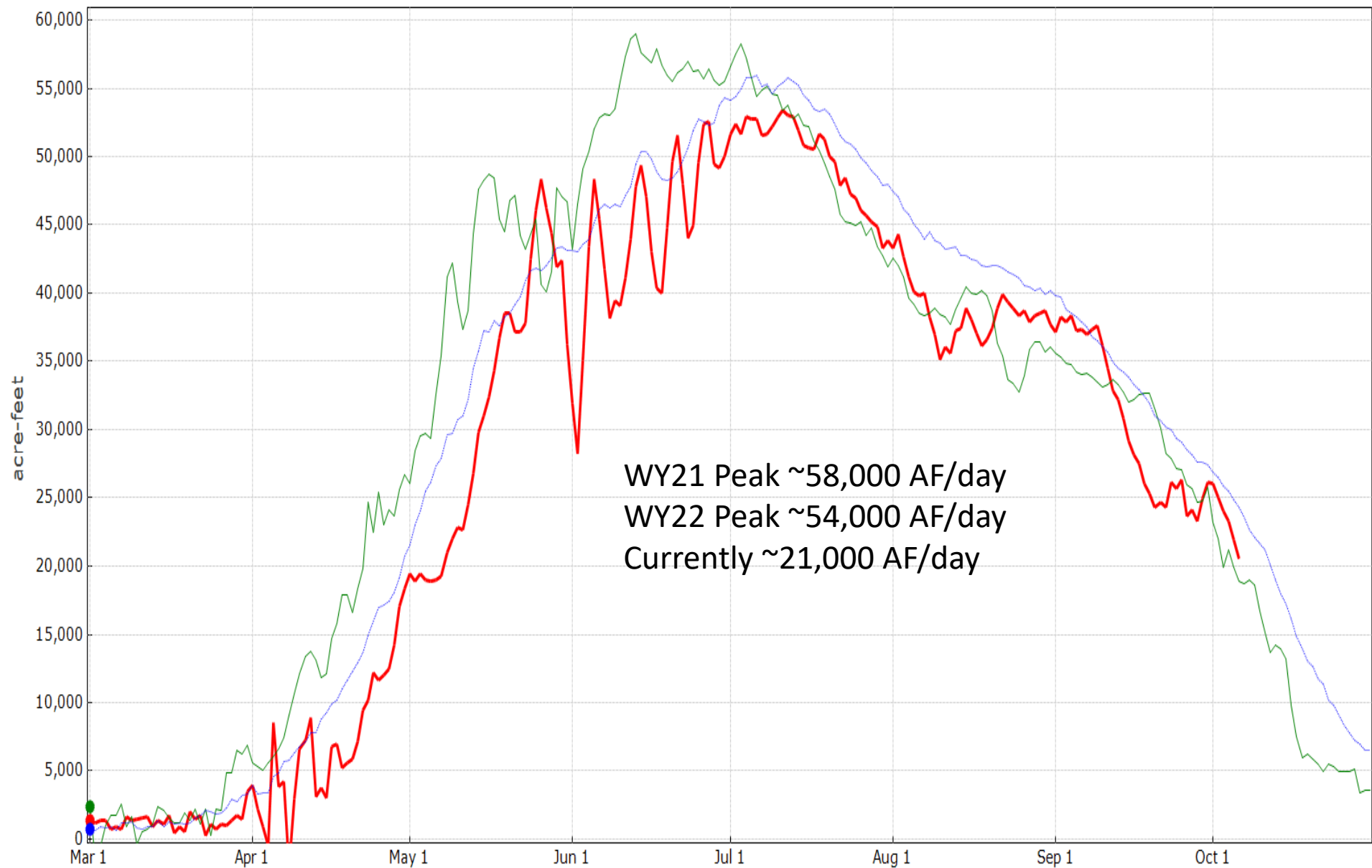


# Total System Depletion above Milner (Natural Flow and Storage)

2022

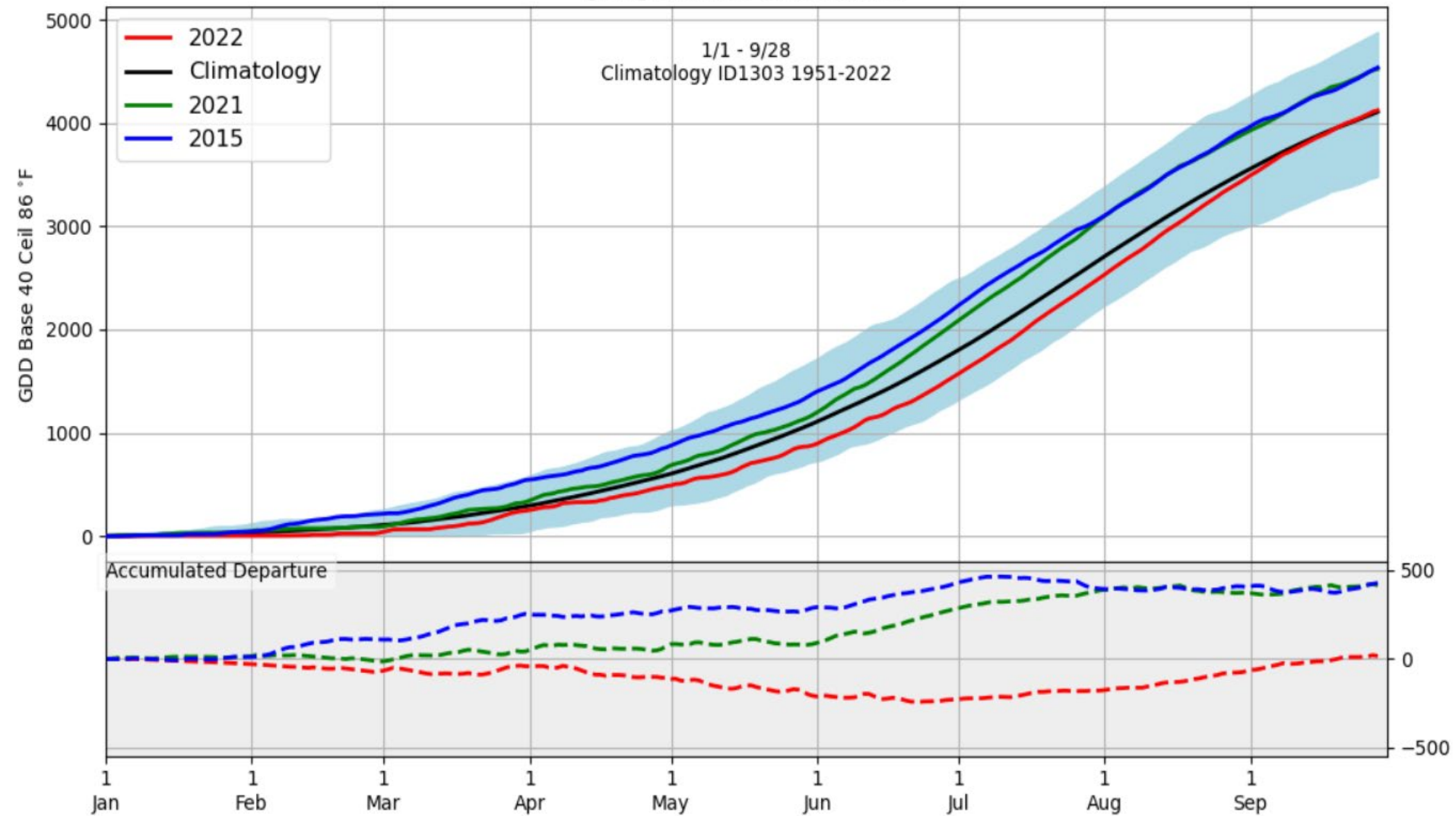
2021

30 Year Running Average



| Rank | Year                                                                                  | Estimated Consumptive Use above Milner<br>(April 1 - Sep 26) | % Average | % Median | Anomaly from Average (acre-feet) | Anomaly from Median (acre-feet) | Estimated Milner TNF<br>(April 1 - Sep 26) | Sep 26 (Total System Storage) |
|------|---------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------|----------|----------------------------------|---------------------------------|--------------------------------------------|-------------------------------|
| 35   |  2022 | 6,066,358                                                    | 89%       | 89%      | -713,342                         | -732,041                        | 4,554,589                                  | 565,379                       |
| 34   | 1993                                                                                  | 6,165,288                                                    | 91%       | 91%      | -614,412                         | -633,111                        | 7,174,249                                  | 2,458,878                     |
| 33   | 2005                                                                                  | 6,178,979                                                    | 91%       | 91%      | -600,722                         | -619,421                        | 5,315,160                                  | 1,074,637                     |
| 32   | 2002                                                                                  | 6,182,667                                                    | 91%       | 91%      | -597,034                         | -615,732                        | 4,692,158                                  | 492,302                       |
| 31   | 2001                                                                                  | 6,293,494                                                    | 93%       | 93%      | -486,206                         | -504,905                        | 3,711,741                                  | 403,585                       |
| 30   | 2011                                                                                  | 6,318,236                                                    | 93%       | 93%      | -461,464                         | -480,163                        | 9,552,330                                  | 2,813,596                     |
| 29   | 2004                                                                                  | 6,318,488                                                    | 93%       | 93%      | -461,212                         | -479,911                        | 4,804,464                                  | 406,294                       |
| 28   | 1995                                                                                  | 6,425,827                                                    | 95%       | 95%      | -353,873                         | -372,572                        | 7,580,628                                  | 2,560,094                     |
| 27   | 1992                                                                                  | 6,453,458                                                    | 95%       | 95%      | -326,242                         | -344,941                        | 3,787,638                                  | 466,826                       |
| 26   | 2003                                                                                  | 6,471,033                                                    | 95%       | 95%      | -308,667                         | -327,366                        | 4,692,815                                  | 364,848                       |
| 25   | 2010                                                                                  | 6,567,400                                                    | 97%       | 97%      | -212,301                         | -231,000                        | 5,222,308                                  | 1,817,232                     |
| 24   | 2009                                                                                  | 6,609,785                                                    | 97%       | 97%      | -169,916                         | -188,615                        | 7,105,408                                  | 2,206,323                     |
| 23   | 1998                                                                                  | 6,632,590                                                    | 98%       | 98%      | -147,110                         | -165,809                        | 8,149,989                                  | 2,670,292                     |
| 22   | 2013                                                                                  | 6,689,103                                                    | 99%       | 98%      | -90,597                          | -109,296                        | 4,437,992                                  | 423,112                       |
| 21   | 1991                                                                                  | 6,689,318                                                    | 99%       | 98%      | -90,383                          | -109,081                        | 5,733,424                                  | 1,493,050                     |
| 20   | 1999                                                                                  | 6,693,725                                                    | 99%       | 98%      | -85,976                          | -104,674                        | 8,608,506                                  | 2,570,561                     |
| 19   | 1997                                                                                  | 6,771,060                                                    | 100%      | 100%     | -8,640                           | -27,339                         | 11,156,713                                 | 3,024,563                     |
| 18   | 2016                                                                                  | 6,792,201                                                    | 100%      | 100%     | 12,500                           | -6,199                          | 4,883,242                                  | 899,359                       |
| 17   | 2017                                                                                  | 6,804,598                                                    | 100%      | 100%     | 24,897                           | 6,199                           | 9,079,231                                  | 2,808,679                     |
| 16   | 2006                                                                                  | 6,811,392                                                    | 100%      | 100%     | 31,691                           | 12,992                          | 6,945,805                                  | 1,687,002                     |
| 15   | 2008                                                                                  | 6,855,525                                                    | 101%      | 101%     | 75,824                           | 57,126                          | 6,557,965                                  | 1,577,692                     |
| 14   | 2007                                                                                  | 6,880,340                                                    | 101%      | 101%     | 100,639                          | 81,941                          | 4,113,068                                  | 448,053                       |
| 13   | 2019                                                                                  | 6,898,108                                                    | 102%      | 101%     | 118,407                          | 99,709                          | 6,580,683                                  | 1,944,841                     |
| 12   | 2021                                                                                  | 6,949,402                                                    | 103%      | 102%     | 169,701                          | 151,002                         | 4,274,612                                  | 527,323                       |
| 11   | 2014                                                                                  | 6,952,920                                                    | 103%      | 102%     | 173,220                          | 154,521                         | 6,686,111                                  | 1,651,883                     |
| 10   | 2018                                                                                  | 6,993,676                                                    | 103%      | 103%     | 213,975                          | 195,277                         | 7,442,267                                  | 1,894,116                     |
| 9    | 2015                                                                                  | 7,016,619                                                    | 103%      | 103%     | 236,919                          | 218,220                         | 5,071,217                                  | 1,241,762                     |
| 8    | 1988                                                                                  | 7,045,454                                                    | 104%      | 104%     | 265,753                          | 247,055                         | 4,913,329                                  | 376,946                       |
| 7    | 1994                                                                                  | 7,064,021                                                    | 104%      | 104%     | 284,321                          | 265,622                         | 4,353,530                                  | 551,879                       |
| 6    | 1996                                                                                  | 7,158,574                                                    | 106%      | 105%     | 378,874                          | 360,175                         | 8,677,757                                  | 2,565,293                     |
| 5    | 2020                                                                                  | 7,251,044                                                    | 107%      | 107%     | 471,343                          | 452,644                         | 6,304,864                                  | 1,878,132                     |
| 4    | 1989                                                                                  | 7,345,167                                                    | 108%      | 108%     | 565,466                          | 546,767                         | 6,796,509                                  | 1,448,474                     |
| 3    | 2000                                                                                  | 7,355,174                                                    | 108%      | 108%     | 575,474                          | 556,775                         | 5,707,036                                  | 1,265,554                     |
| 2    | 2012                                                                                  | 7,369,543                                                    | 109%      | 108%     | 589,843                          | 571,144                         | 5,670,985                                  | 1,085,591                     |
| 1    | 1990                                                                                  | 7,505,610                                                    | 111%      | 110%     | 725,909                          | 707,210                         | 5,163,282                                  | 806,791                       |

Accumulated GDD(base=40,ceil=86)  
[BYI] BURLEY MUNICIPAL





# Event Review - October Snow Storm 2021

Weather Forecast Office  
Pocatello, ID  
Tuesday, October 11

Rigby, ID



East Chubbuck, ID



Idaho Falls, ID

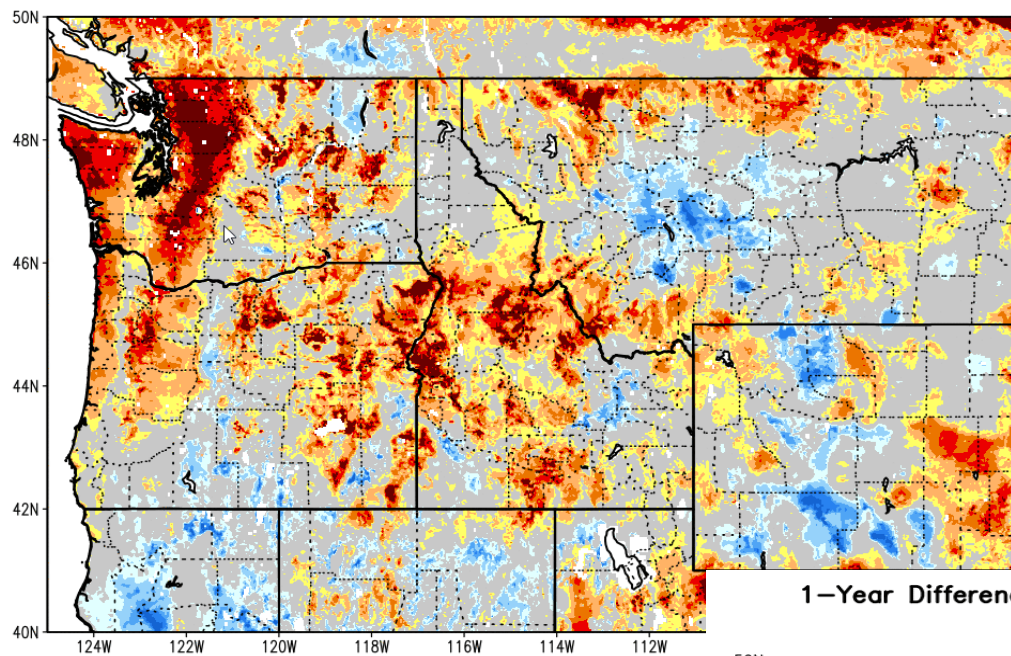


Soda Springs, ID

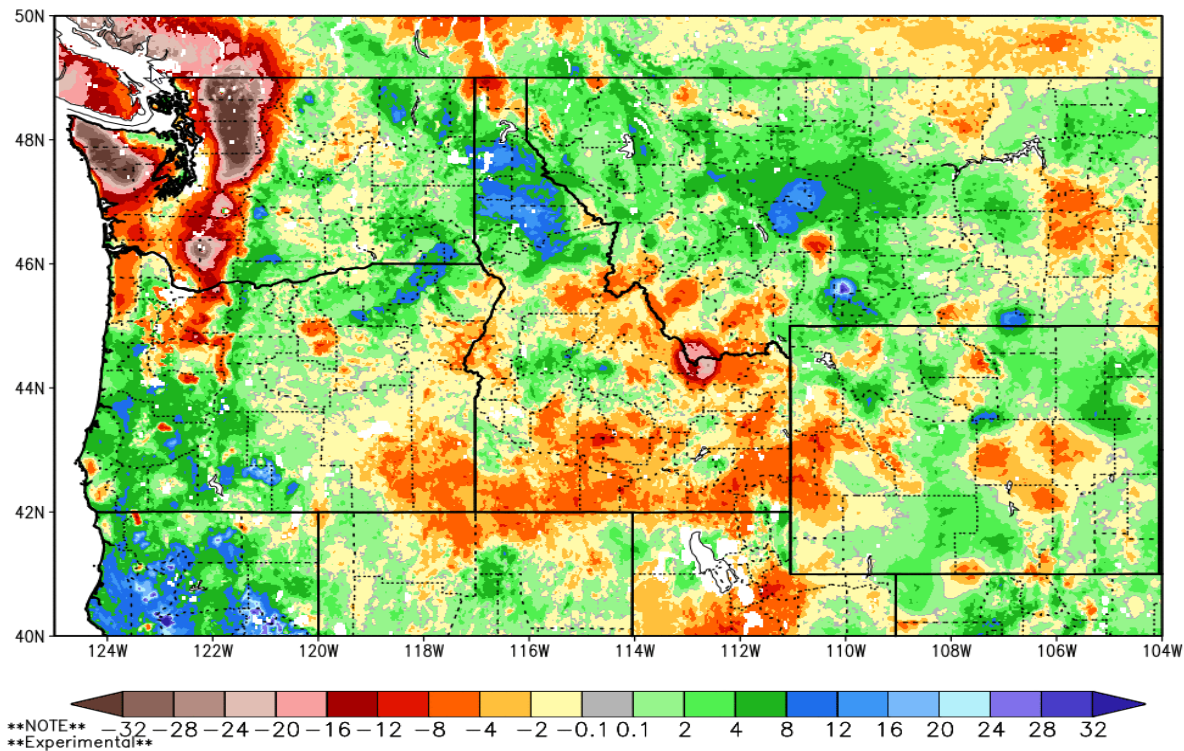


Bancroft, ID





1-Year Difference in Column Relative Soil Moisture (%) valid 12z 11 Oct 2022

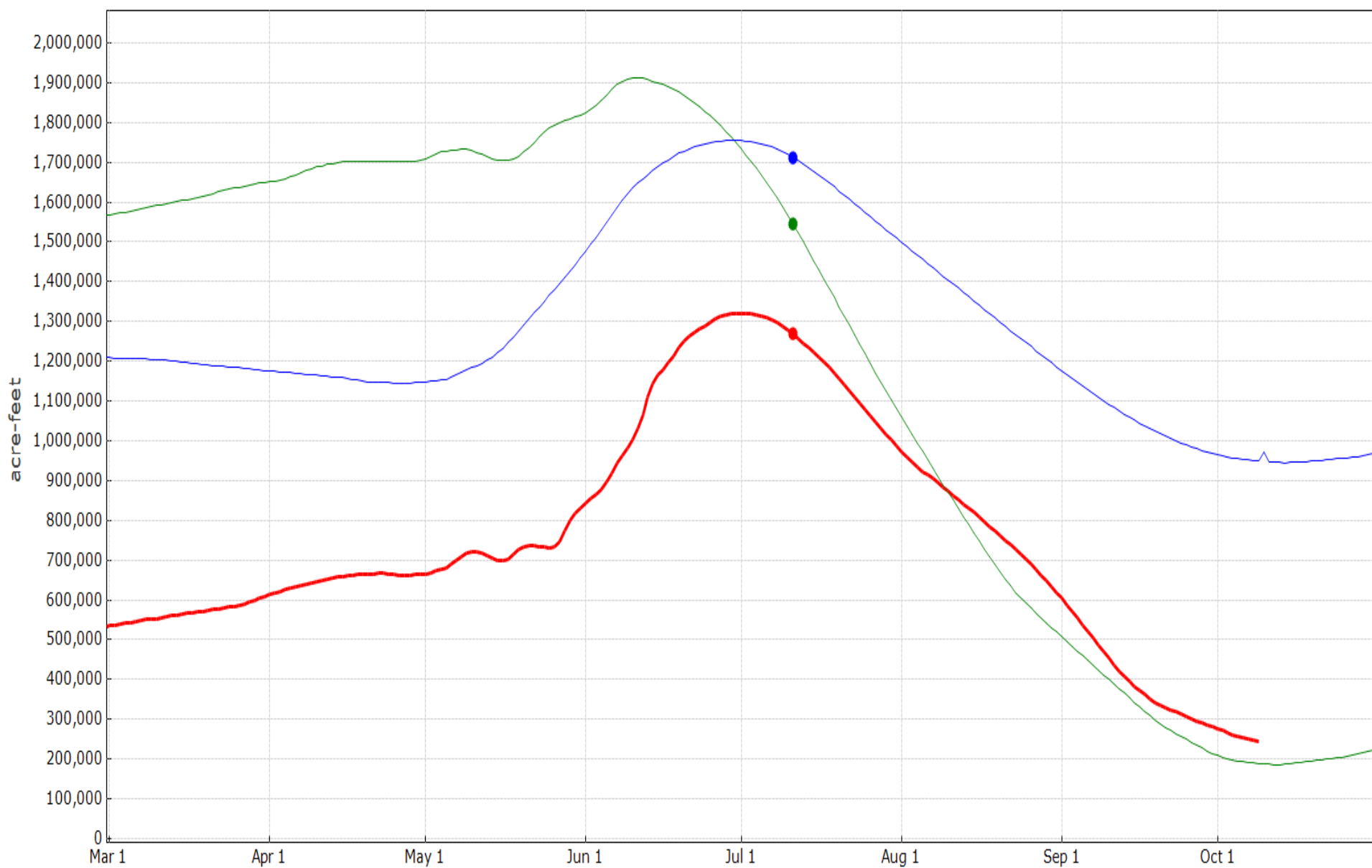


# Storage above Heise (JCK & PAL)

2022

2021

30 Year Running Average

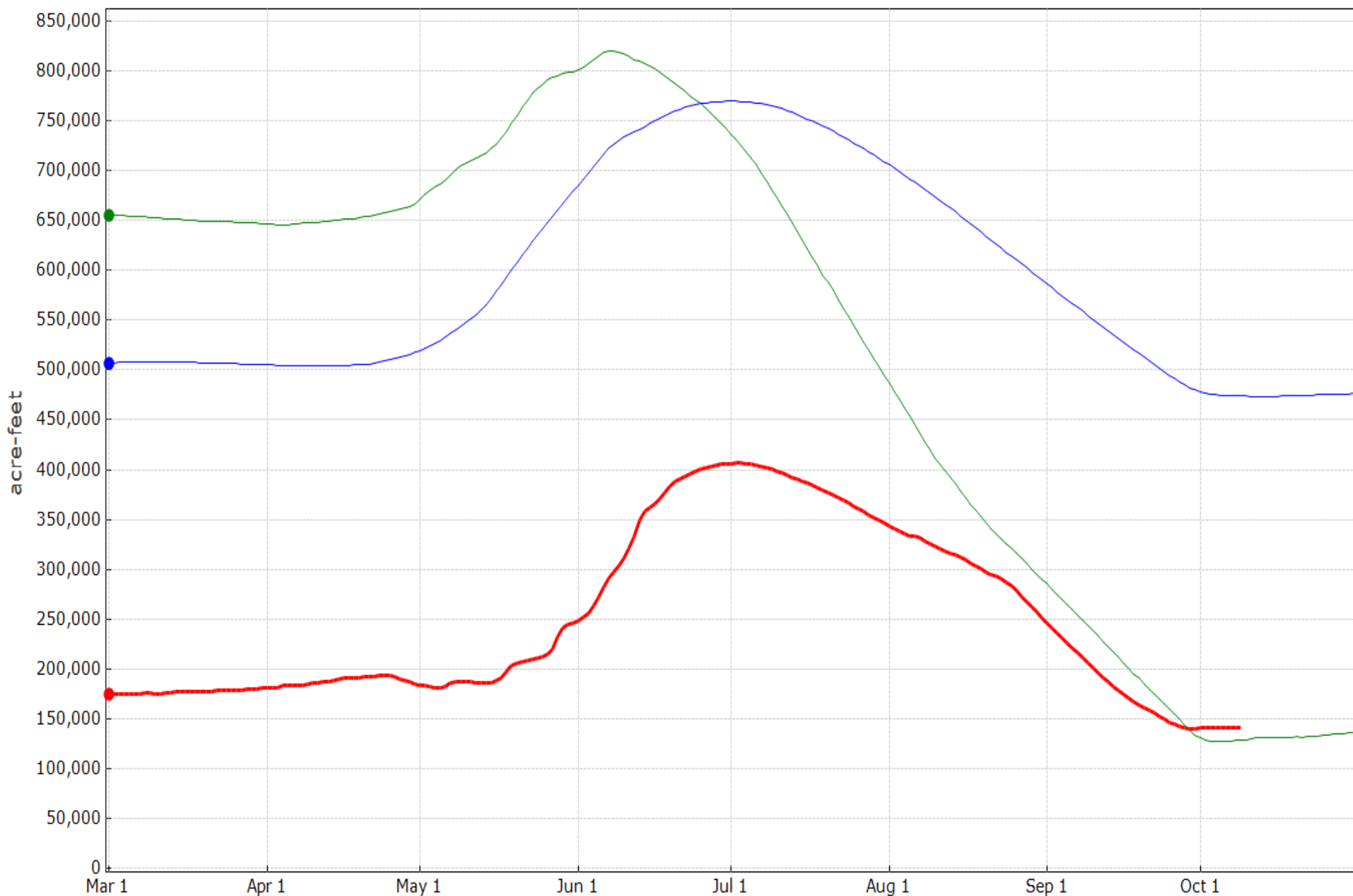


# Jackson Lake Storage

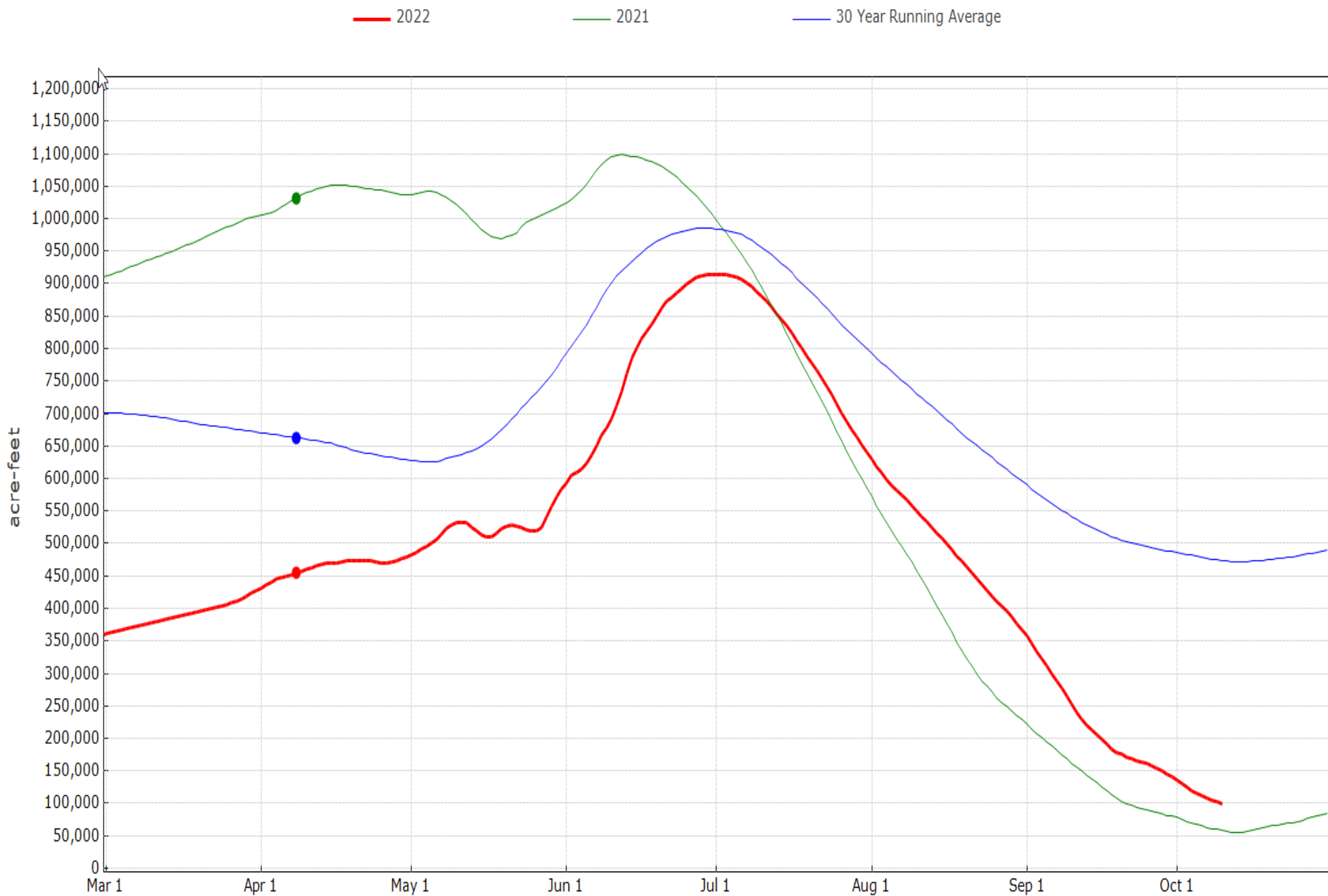
2022

2021

30 Year Running Average



# Palisades Storage

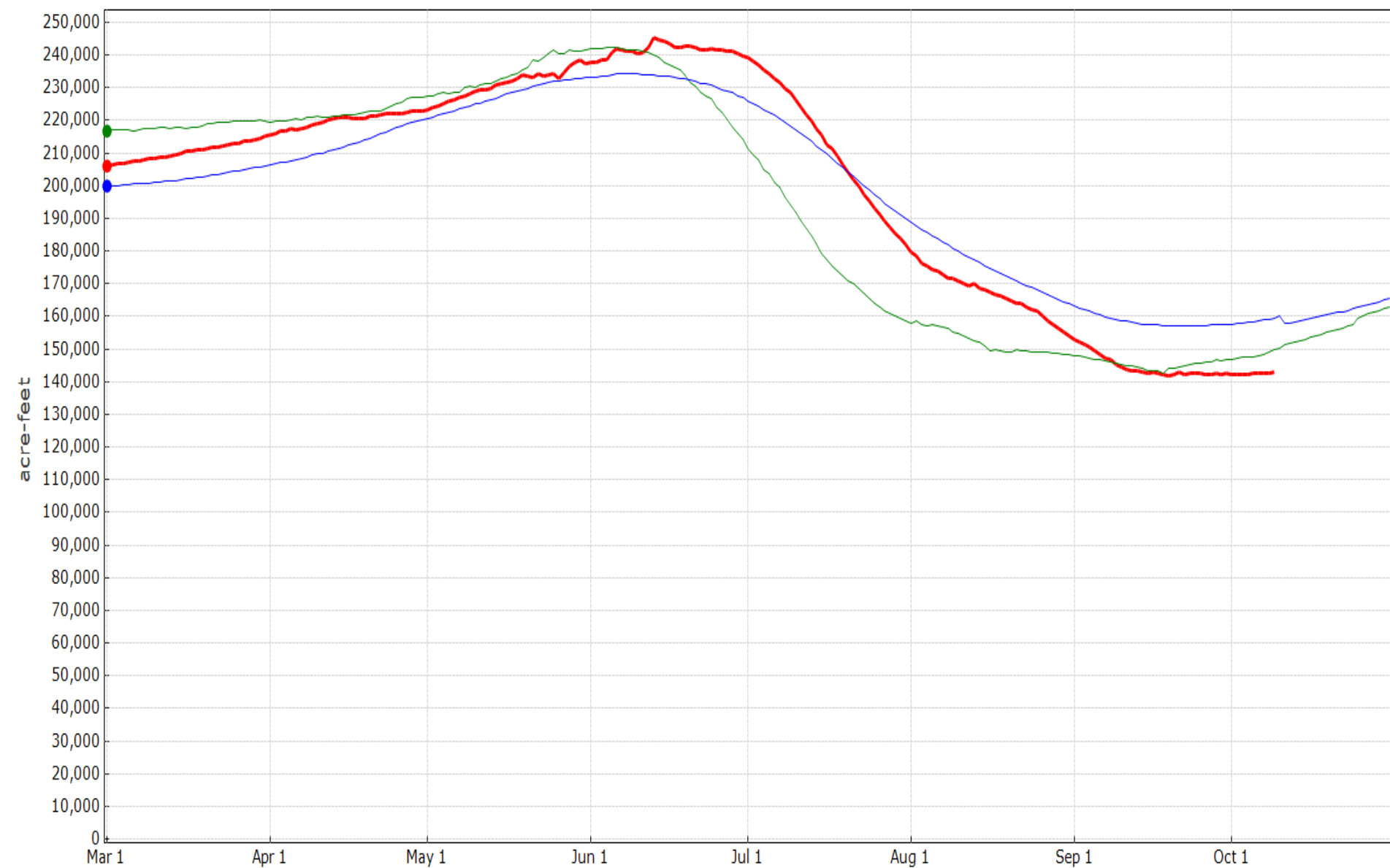


# Henry's Fork (Henry's Lake, Island Park, Grassy Lake)

2022

2021

30 Year Running Average



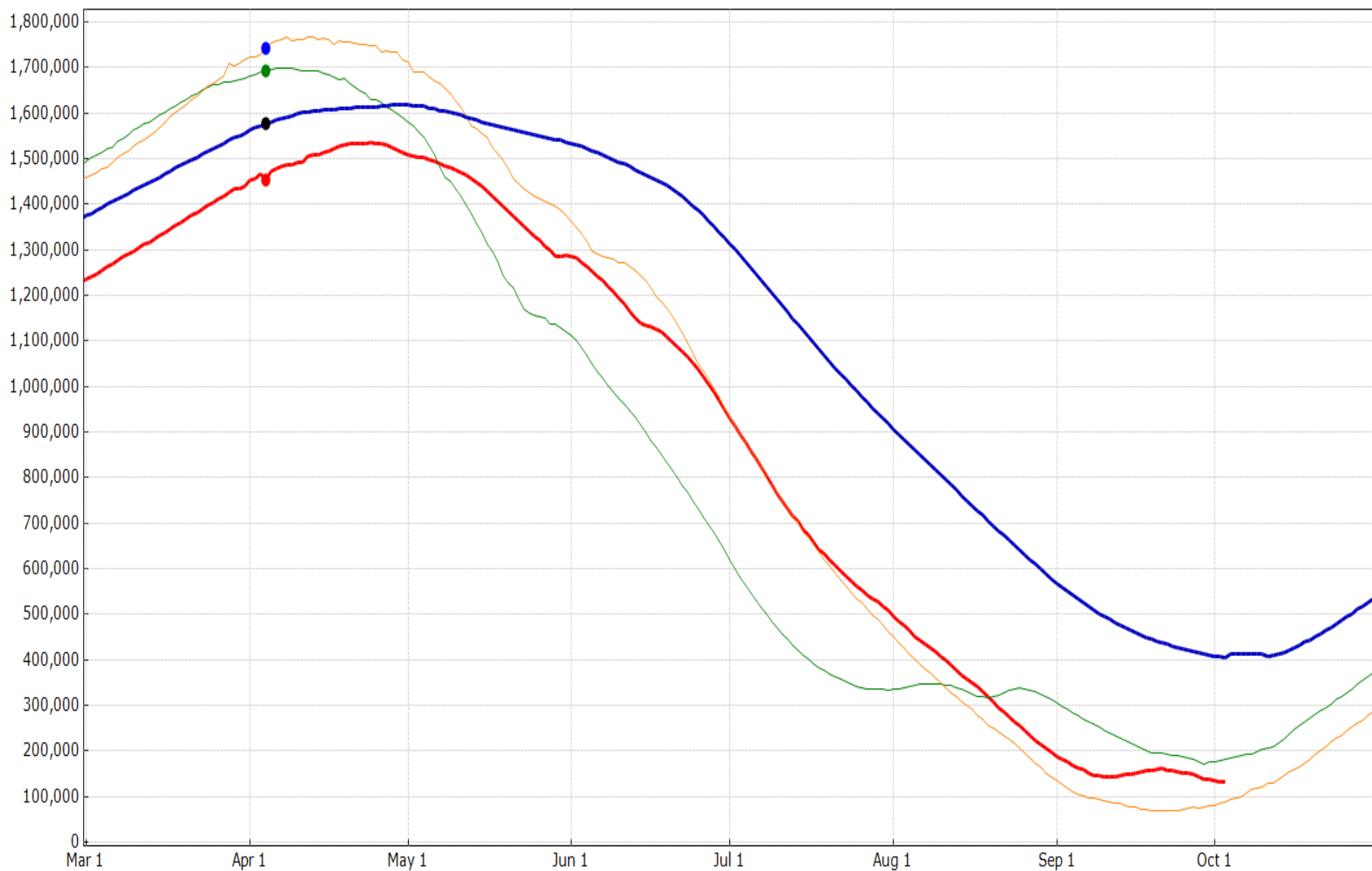
# Lower System (American Falls and Lake Walcott)

2022

2021

2007

30 Year Running Average



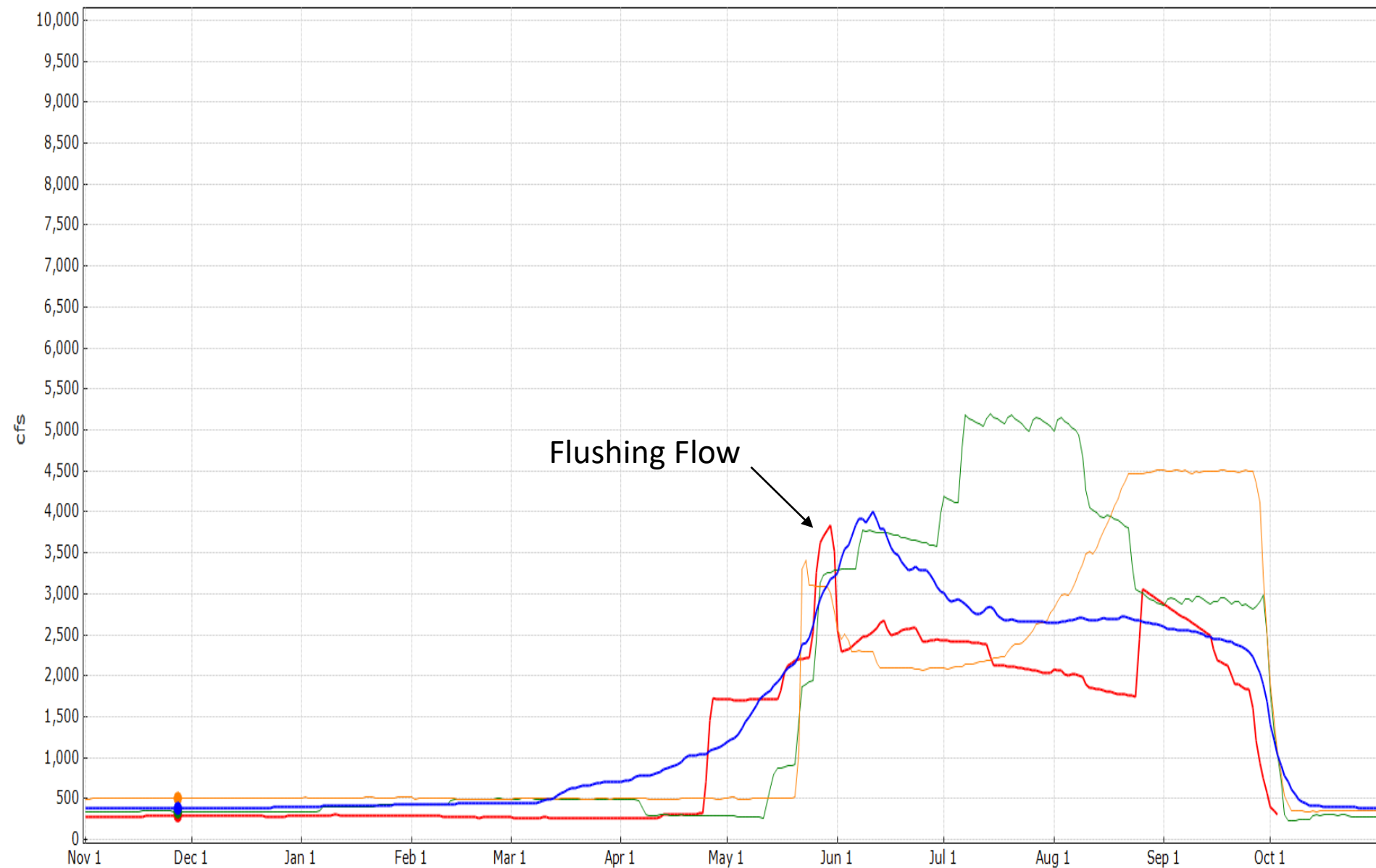
# Jackson Lake Releases

2022

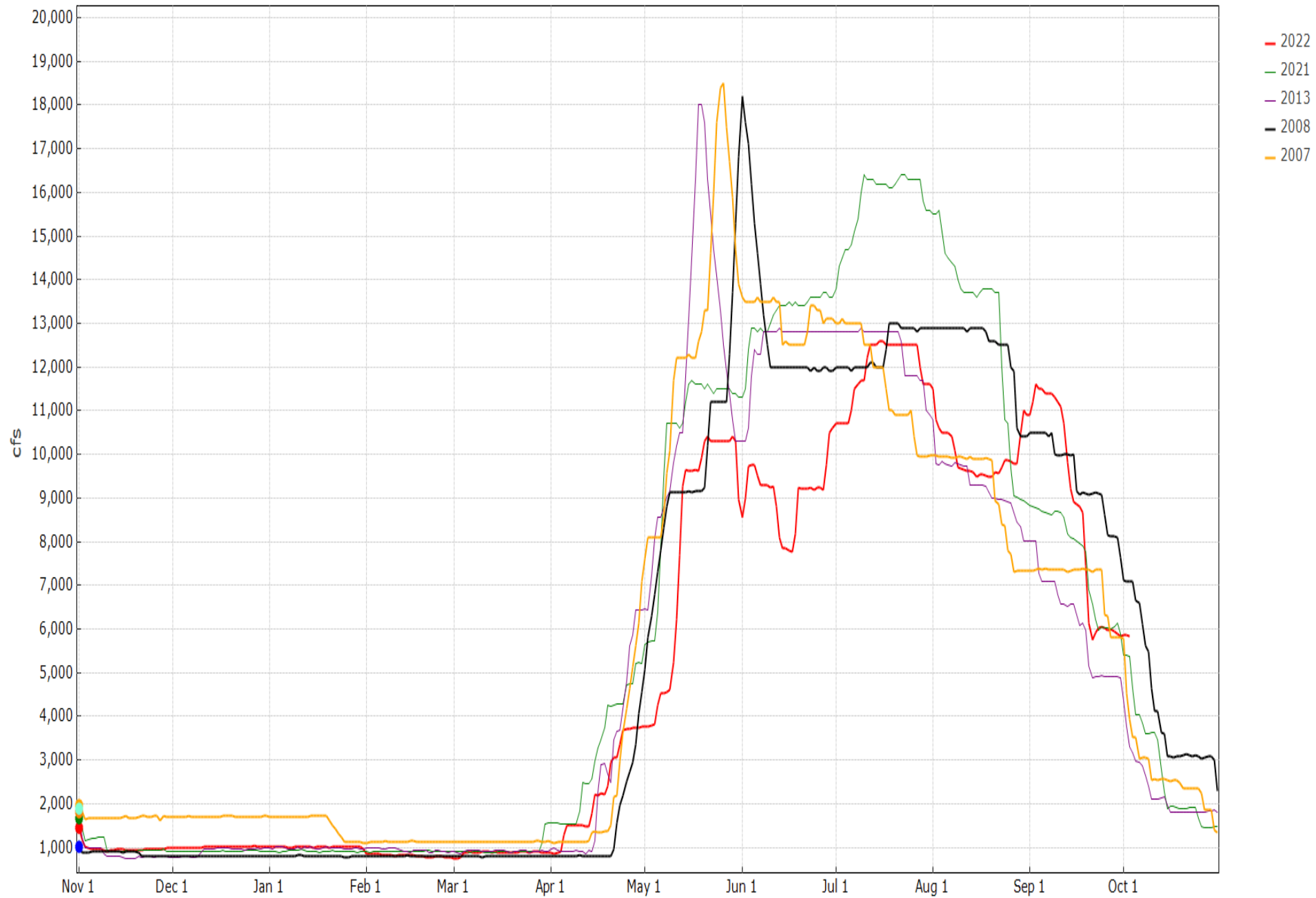
2021

2007

30 Year Running Average

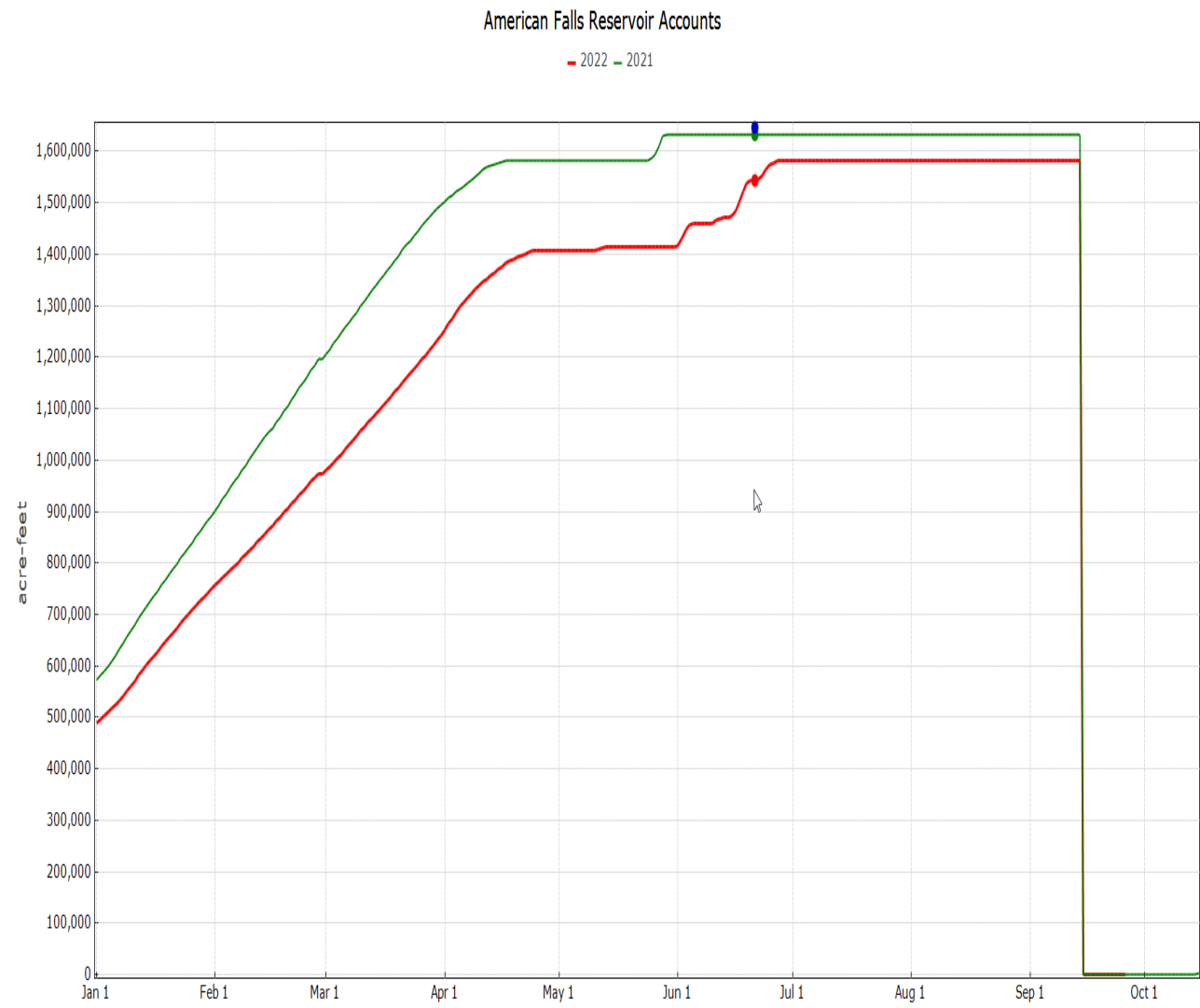


# Palisades Releases



Procedural depletion of American Falls Accounts

Water users with contracts in more than one reservoir (AMF, JCK, Pal) deplete their storage first from American Falls which essentially depletes the accounts every year



## Systemwide Considerations

Early September



Late September



draft rates and real-time management



## Outlook

Jackson Lake is at storage season flows

Palisades is drafting and releasing 4500 cfs but will likely be at storage flows by November 1

Henry's Fork will likely be at initial storage season flows in the next 7-10 days

Lower system is expected to be at storage season releases by end of week.



# For More Information

## Snake River Area Office

- Lanie Paquin - Area Manager  
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[mpaquin@usbr.gov](mailto:mpaquin@usbr.gov)

## Upper Snake Field Office

- Mike Hilliard – Upper Snake Field Office Manager  
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[mhilliard@usbr.gov](mailto:mhilliard@usbr.gov)
- Tyler Cox – USFO Natural Resource Manager (x15)  
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- Ryan Bliss – USFO O&M Program Manager (x20)  
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- John Owsley – USFO O&M Civil Engineer Lead (x18)  
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- Brian Stevens – SRAO Water Operations Group Manager (x24)  
[bstevens@usbr.gov](mailto:bstevens@usbr.gov)
- Jeremy Dalling - USFO Water Management Lead (x25)  
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- Darrin Fredrickson - USFO Power Scheduling (x17)  
[dfredrickson@usbr.gov](mailto:dfredrickson@usbr.gov)

## Snake River Operations Web Sites

- Upper Snake water information site - <http://www.usbr.gov/pn/hydromet/uppersnake/index.html>
- USBR HydroMet - <http://www.usbr.gov/pn/hydromet/>
- Northwest River Forecast Center - <http://www.nwrfc.noaa.gov/rfc/>
- NRCS SNOTEL Data - <http://www.id.nrcs.usda.gov/snow/>

