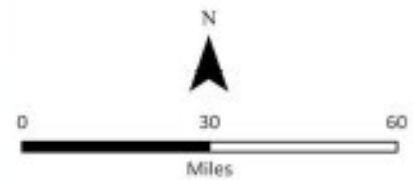




BUREAU OF
RECLAMATION

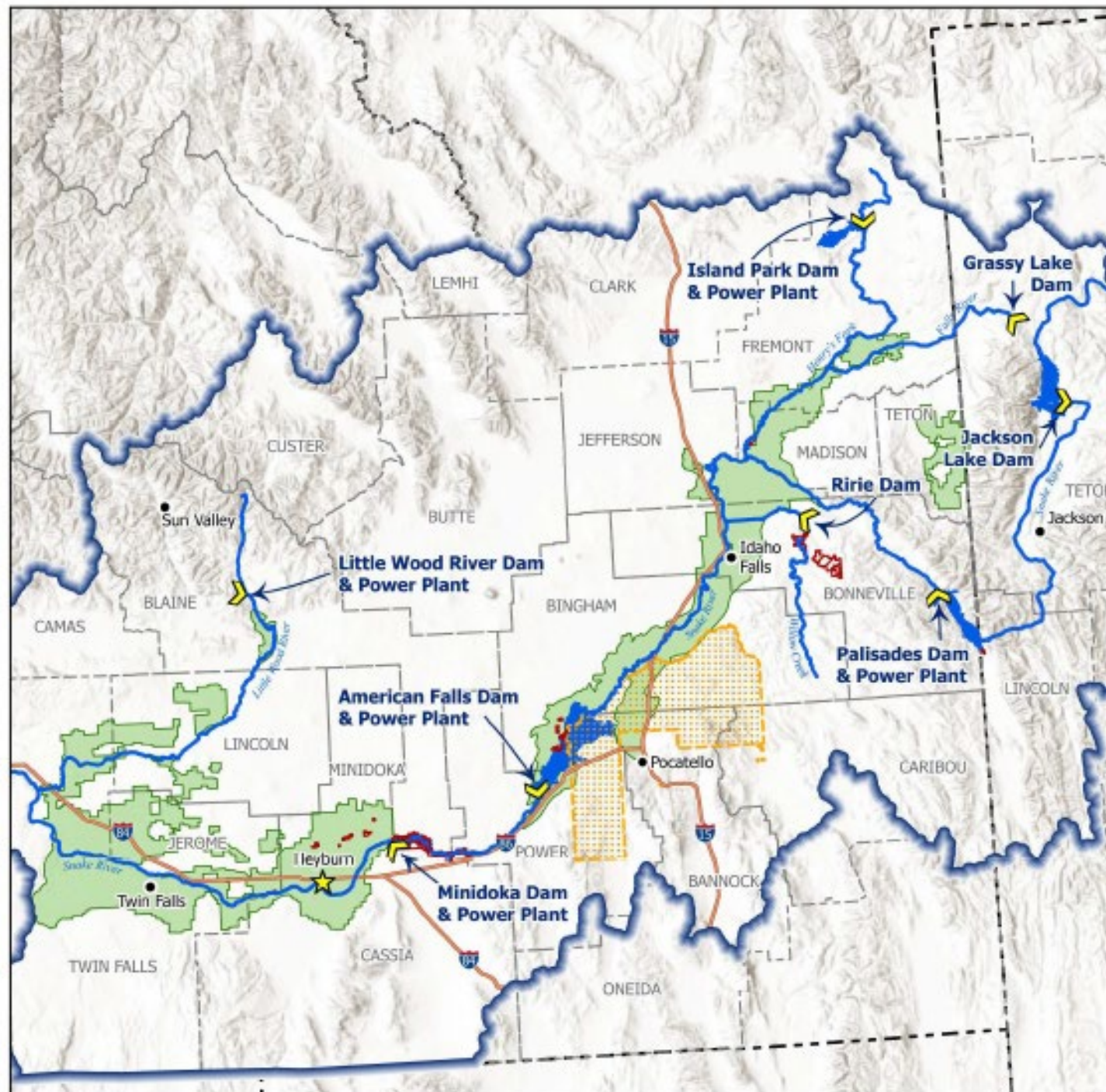
UPPER SNAKE FIELD OFFICE Areas of Responsibility

- ★ Upper Snake Field Office
- ↗ Reclamation Dam
- ▨ IDFG/USFWS Wildlife Management Areas
- Reclamation Reservoirs
- Areas Benefited by Project
- Fort Hall Reservation
- USFO Operational Boundary
- County Boundary
- - - State Boundary



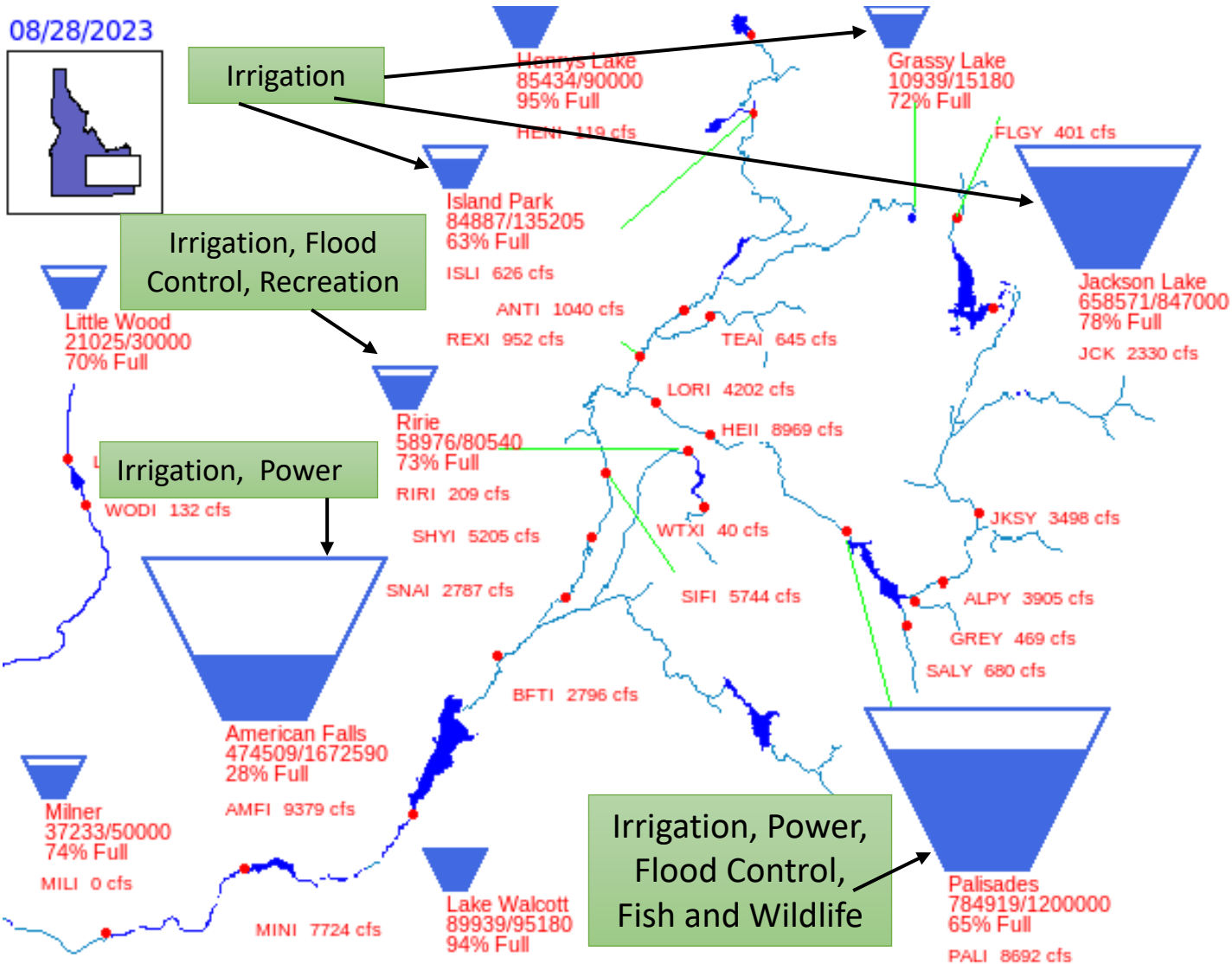
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USBR - USFO GIS 6/6/2022



Minidoka & Palisades Project Authorities

08/28/2023



Minidoka Dam	Irrigation and Power
Jackson Lake Dam	Irrigation
American Falls Dam	Irrigation and Power
Island Park Dam	Irrigation
Grassy Lake Dam	Irrigation

Palisades Project	Irrigation, Power, Flood Control, Fish and Wildlife
Ririe Project	Irrigation, Flood Control, Recreation
Michaud Flats Project	Irrigation
Little Wood Project	Irrigation and Flood Control
Teton Basin Project	Irrigation, Power, Flood Control, Fish and Wildlife, Recreation



MINIDOKA PROJECT

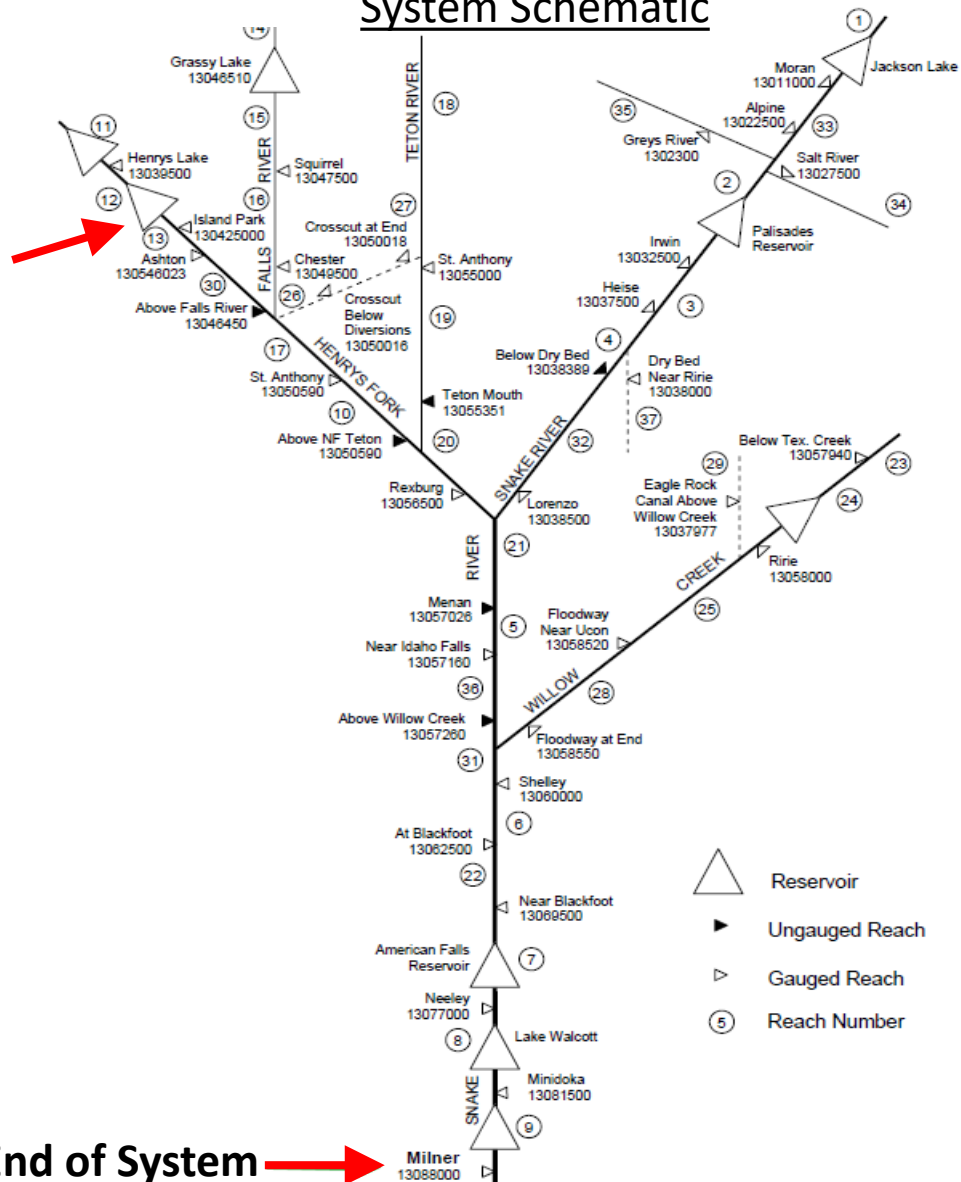
Yearly Benefits of the Minidoka / Palisades Project

Irrigated Crops	\$1.2 Billion
Power Generated	~\$41 Million in 2021
Formal Flood Prevention	\$35 Million in 2021 ~\$2.6 Billion since life of Project
Recreation	\$62 Million and over 650,000 visits

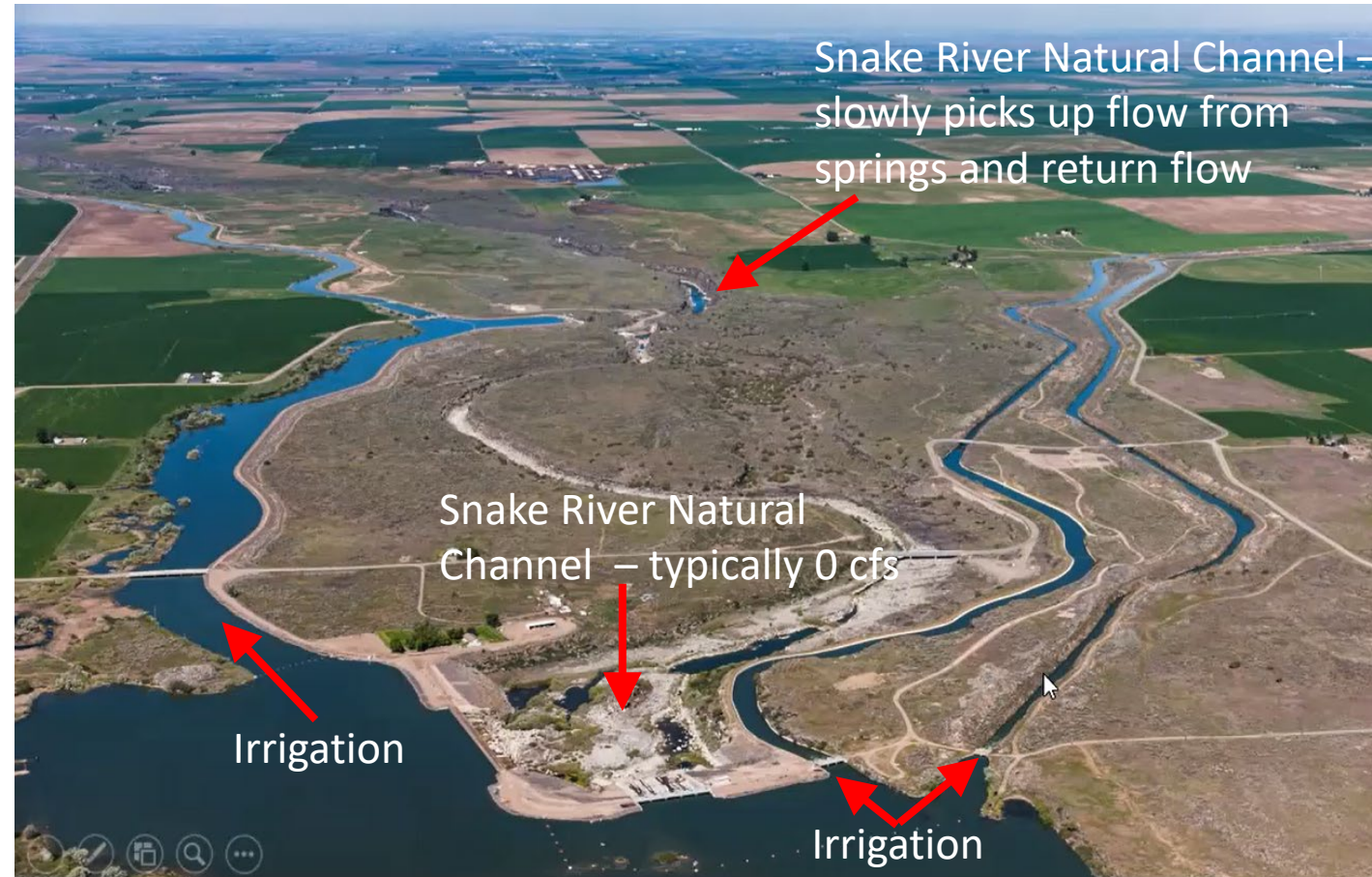


Milner Two River Principle

System Schematic



Milner Dam – located in Southern Idaho



End of System →

System is Fully Developed and Adjudicated

Contract Obligations: Operate the System in a manner that will achieve the greatest practicable conservation of water above Milner



How does it Function?

Accrue excess when available to supplement natural flow when it would otherwise be insufficient

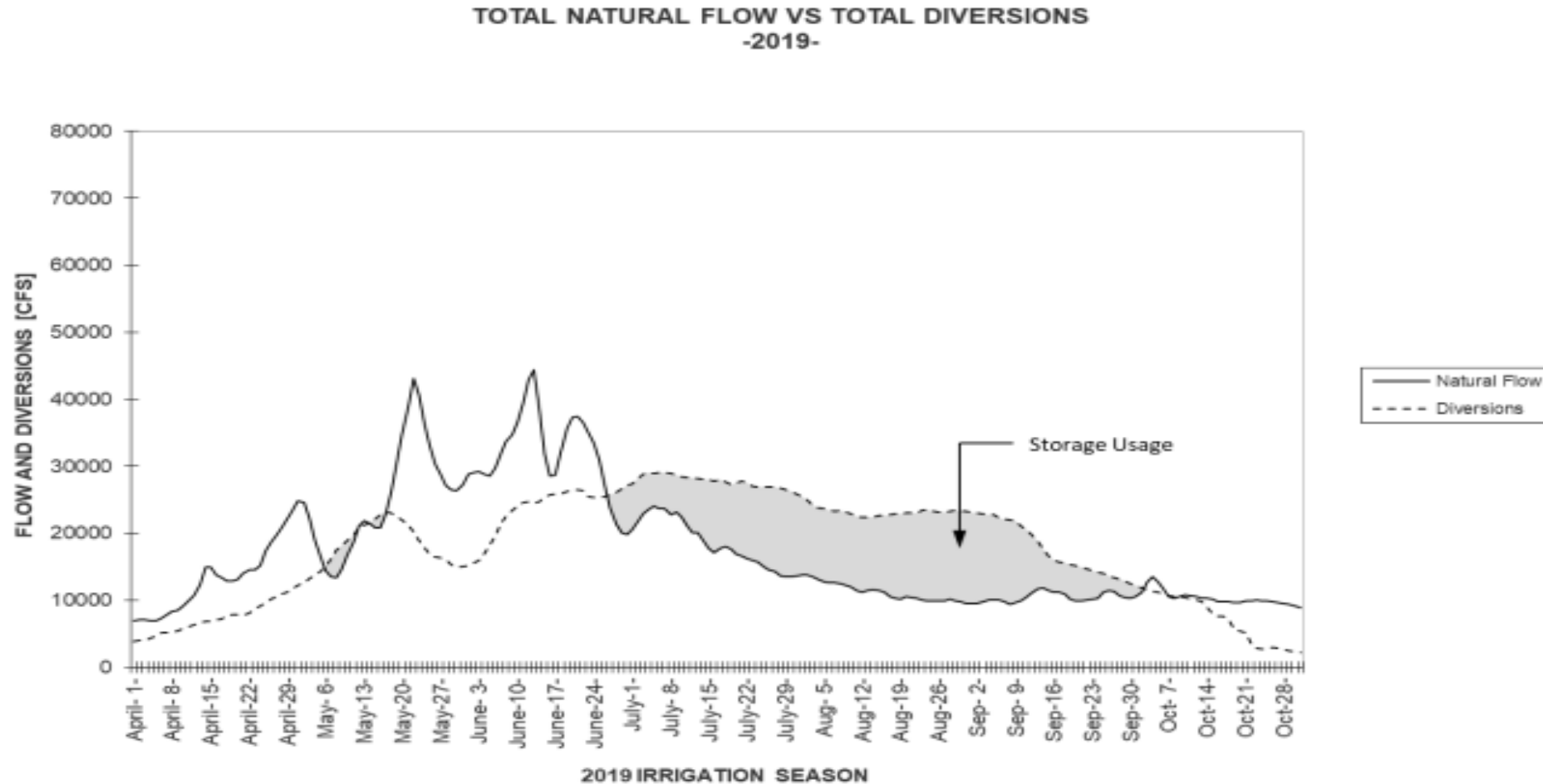
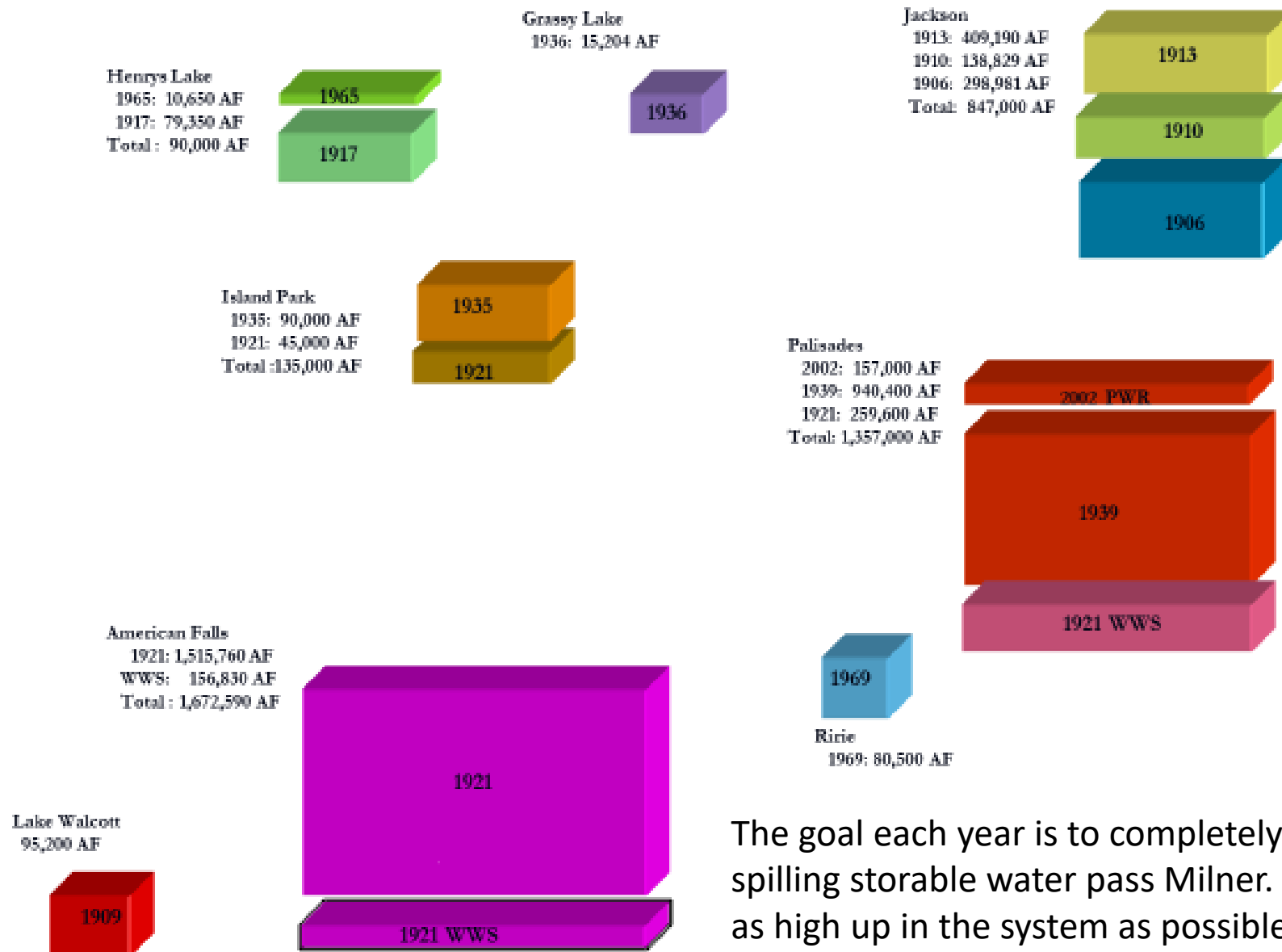


Figure 3. Natural Flow and Total Diversions



Reservoir Storage Rights Accrue When in Priority



The goal each year is to completely fill the reservoir system without spilling storable water pass Milner. This is achieved by storing water as high up in the system as possible.

Upper Snake Storage Capacity: ~4.3 MAF



Water Year 2023 Forecast Review

Station name HEII Begin and end year 1991-2020
Parameter code QU Begin and end date Apr01 - Sep30
Option Volume Acre-Feet

BY YEAR			RANKED	
YEAR	SUMMATION	MISS	YEAR	SUMMATION
1991	3356262.69		1997	7007392.97
1992	2000721.85		2011	6347231.08
1993	4116146.23		2017	6138735.60
1994	2318522.73		1996	5583255.01
1995	4447199.10		1999	4948834.19
1996	5583255.01		2018	4795591.52
1997	7007392.97		2009	4613093.28
1998	4498018.69		2014	4593703.85
1999	4948834.19		1998	4498018.69
2000	3058660.51		1995	4447199.10
2001	1967719.34		2008	4287896.45
2002	2774609.44		1993	4116146.23
2003	2930714.30		2006	4079000.84
2004	2833148.03		2020	3962228.31
2005	3195035.10		2019	3929508.59
2006	4079000.84		2012	3385134.91
2007	2320322.83		1991	3356262.69
2008	4287896.45		2015	3208139.77
2009	4613093.28		2005	3195035.10
2010	3107716.82		2010	3107716.82
2011	6347231.08		2000	3058660.51
2012	3385134.91		2016	3011933.63
2013	2721147.46		2003	2930714.30
2014	4593703.85		2004	2833148.03
2015	3208139.77		2002	2774609.44
2016	3011933.63		2013	2721147.46
2017	6138735.60		2007	2320322.83
2018	4795591.52		1994	2318522.73
2019	3929508.59		1992	2000721.85
2020	3962228.31		2001	1967719.34

Average of 30 years: 3851254

WY2023: 3946081.14 (102.46% of Avg)

April 1, 2023 Forecast: 112%, 4,309 KAF, (MOE: -363 KAF)

Station name ISLI Begin and end year 1991-2020
Parameter code QU Begin and end date Apr01 - Sep30
Option Volume Acre-Feet

BY YEAR			RANKED	
YEAR	SUMMATION	MISS	YEAR	SUMMATION
1991	202158.20		1997	456732.92
1992	220930.47		1995	427305.37
1993	333557.49		1999	401504.85
1994	227261.51		1998	386421.87
1995	427305.37		2011	350536.29
1996	347357.50		1996	347357.50
1997	456732.92		1993	333557.49
1998	386421.87		2006	332347.75
1999	401504.85		2019	293487.79
2000	268438.86		2000	268438.86
2001	187880.33		2018	263220.19
2002	191844.15		2012	260716.68
2003	190898.08		2005	250950.45
2004	202168.31		2017	250832.91
2005	250950.45		2009	250502.56
2006	332347.75		2008	250044.26
2007	202017.21		2020	246433.49
2008	250044.26		1994	227261.51
2009	250502.56		1992	220930.47
2010	196403.16		2014	210911.93
2011	350536.29		2004	202168.31
2012	260716.68		1991	202158.20
2013	187771.32		2007	202017.21
2014	210911.93		2010	196403.16
2015	165157.40		2002	191844.15
2016	190927.00		2016	190927.00
2017	250832.91		2003	190898.08
2018	263220.19		2001	187880.33
2019	293487.79		2013	187771.32
2020	246433.49		2015	165157.40

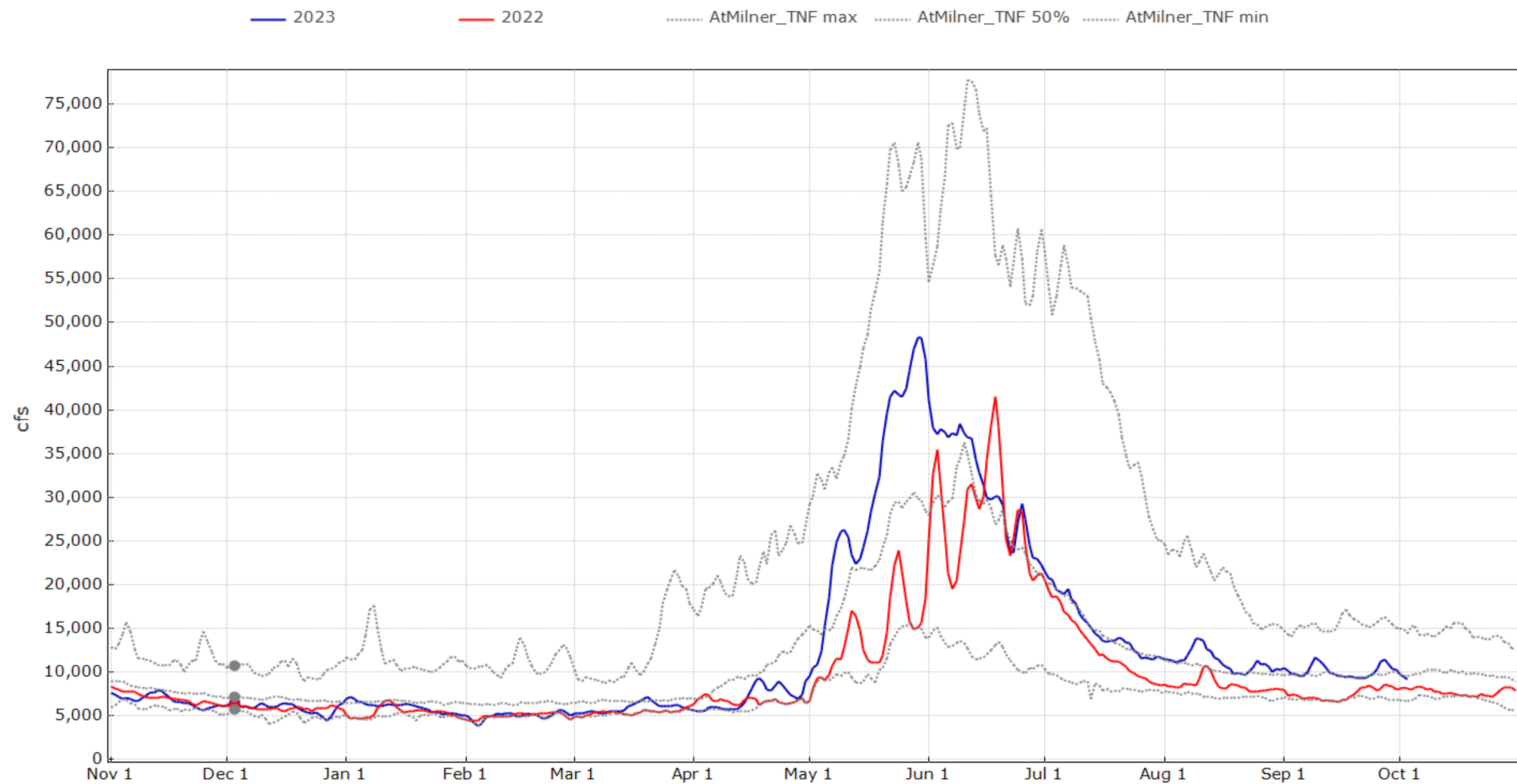
Average of 30 years: 264891

WY2023: 259914.80 (98.12% of Avg)

April 1, 2023 Forecast: 114%, 302 KAF, (MOE: -42 KAF)



Estimated Total Natural Flow above Milner (1988-2022)



Estimated Daily Consumptive Use above Milner (1988-2022)

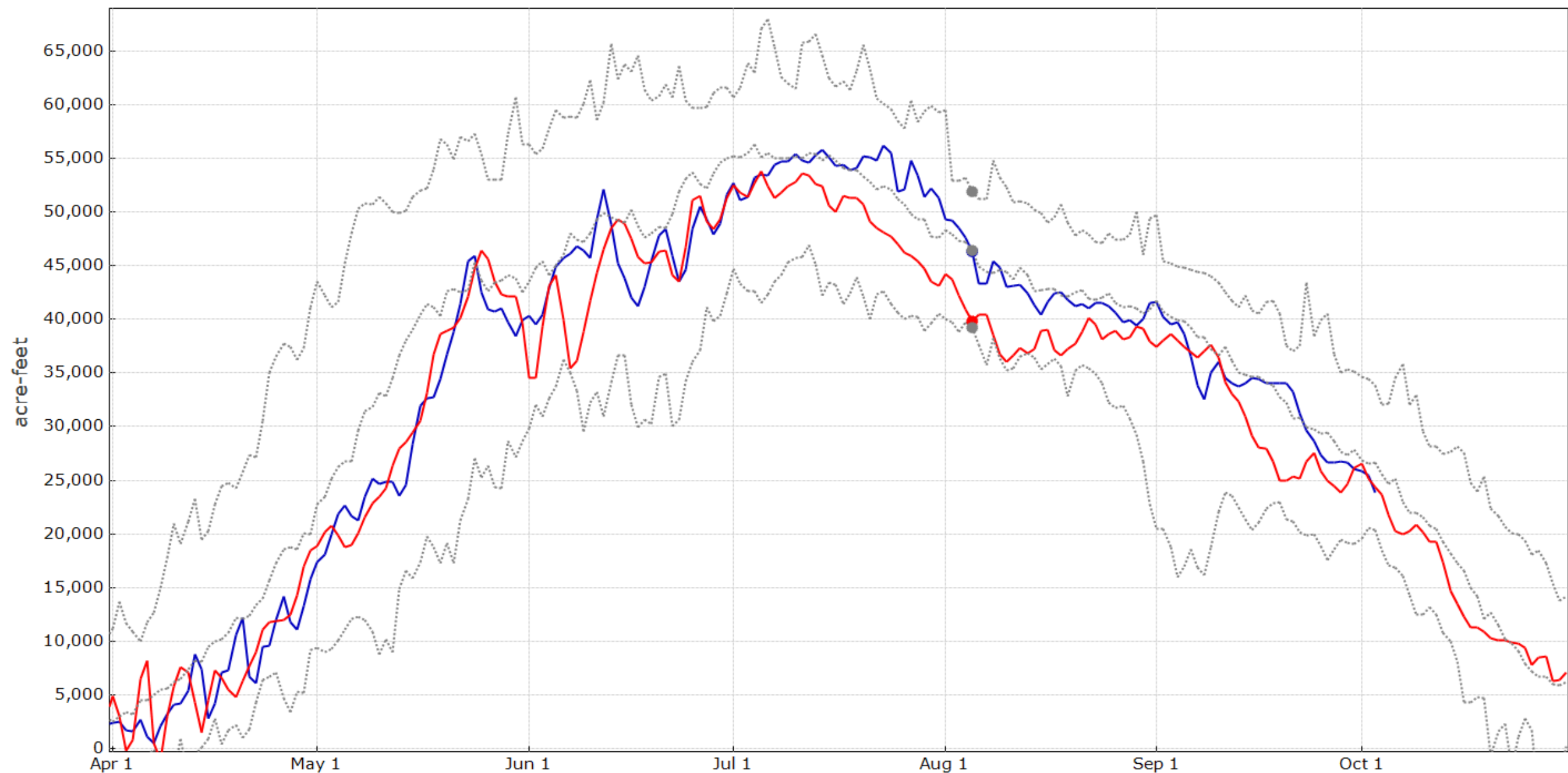
2023

2022

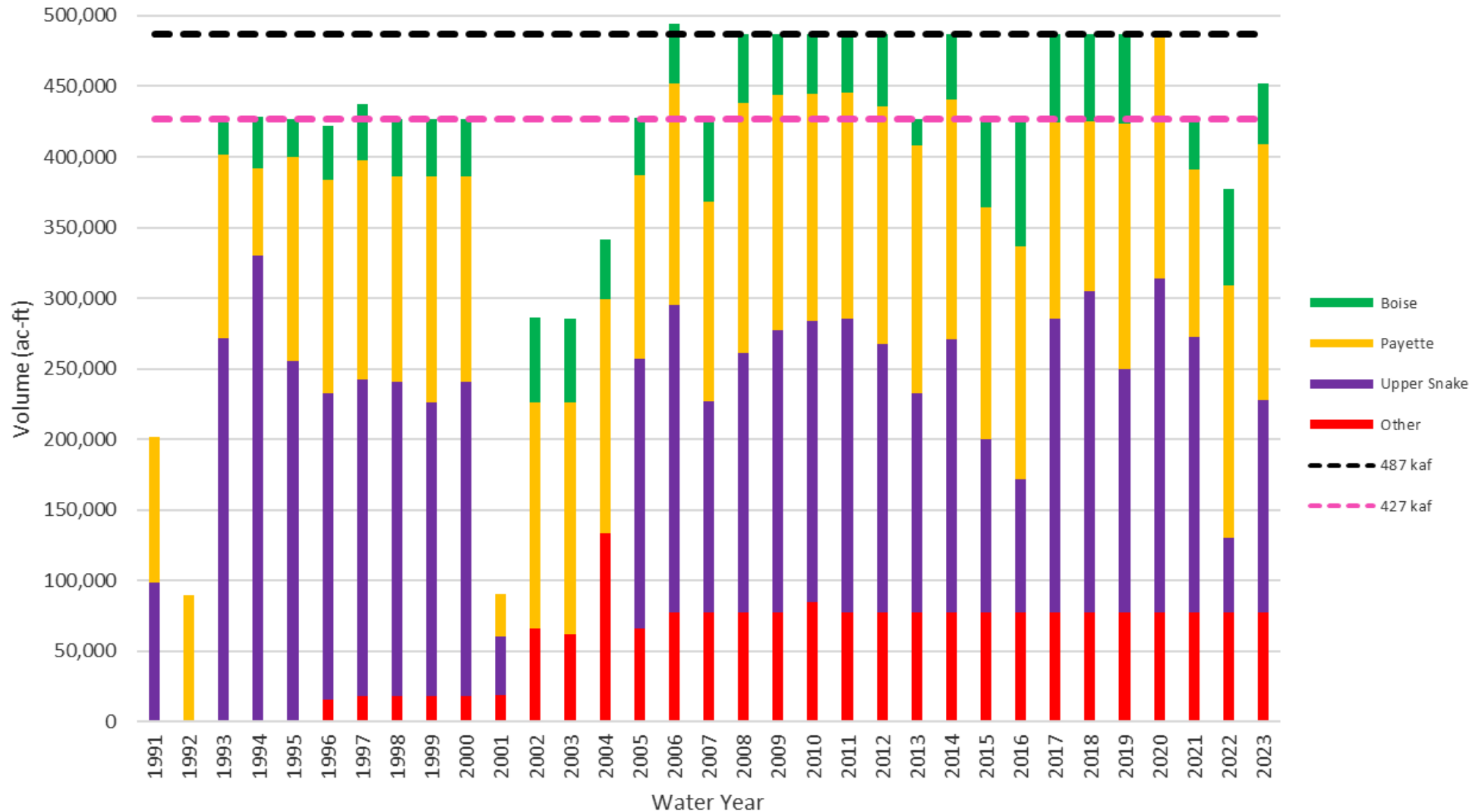
abvMilnerDepletion_Max

abvMilnerDepletion_50%

abvMilnerDepletion_Min



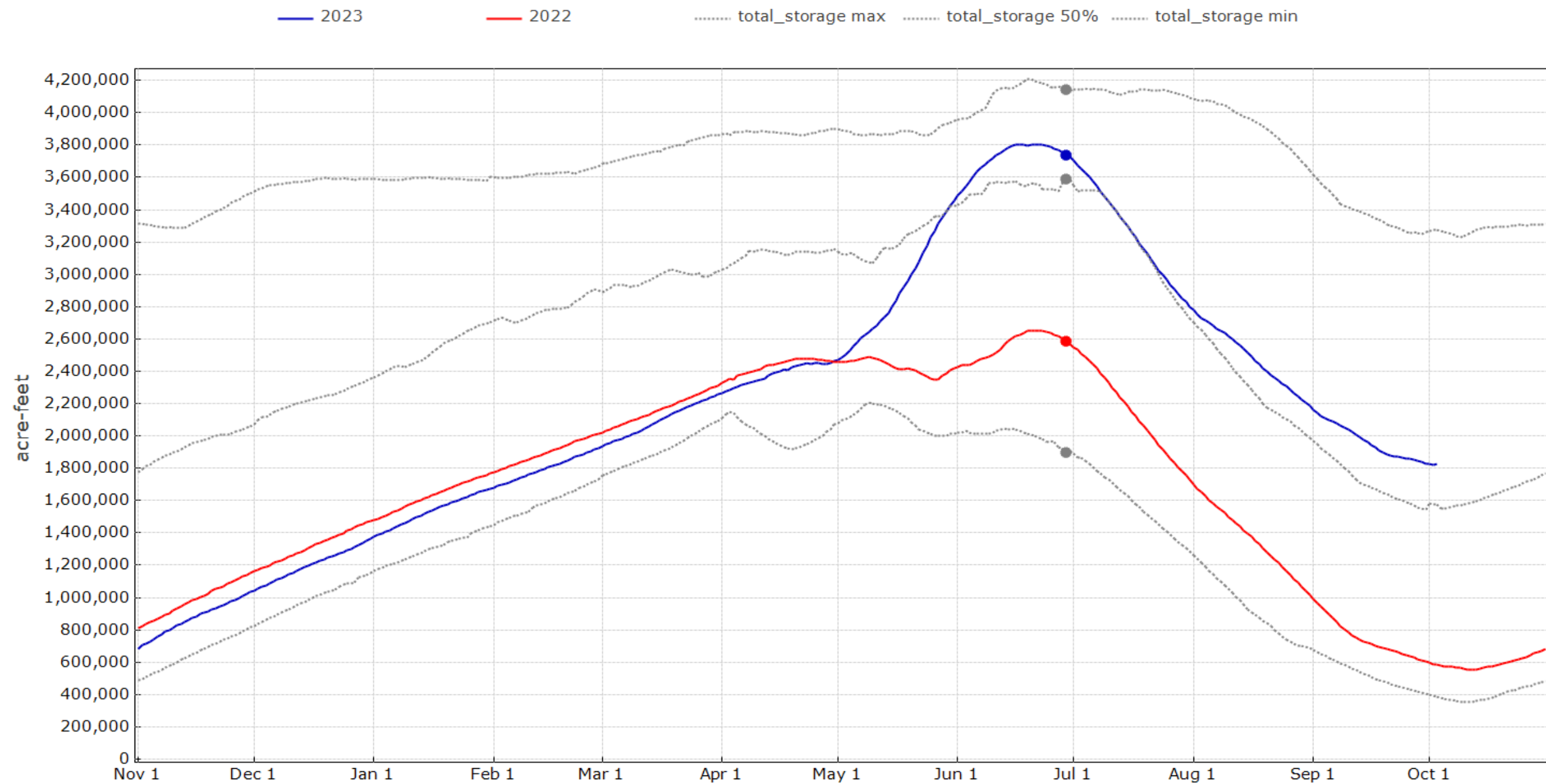
Upper Snake above Brownlee Flow Augmentation Volumes 1991-2023



2023: 150,000 AF rented from Upper Snake Water Users



Total Upper Snake Storage (1978-2022)



Current Conditions and Outlook

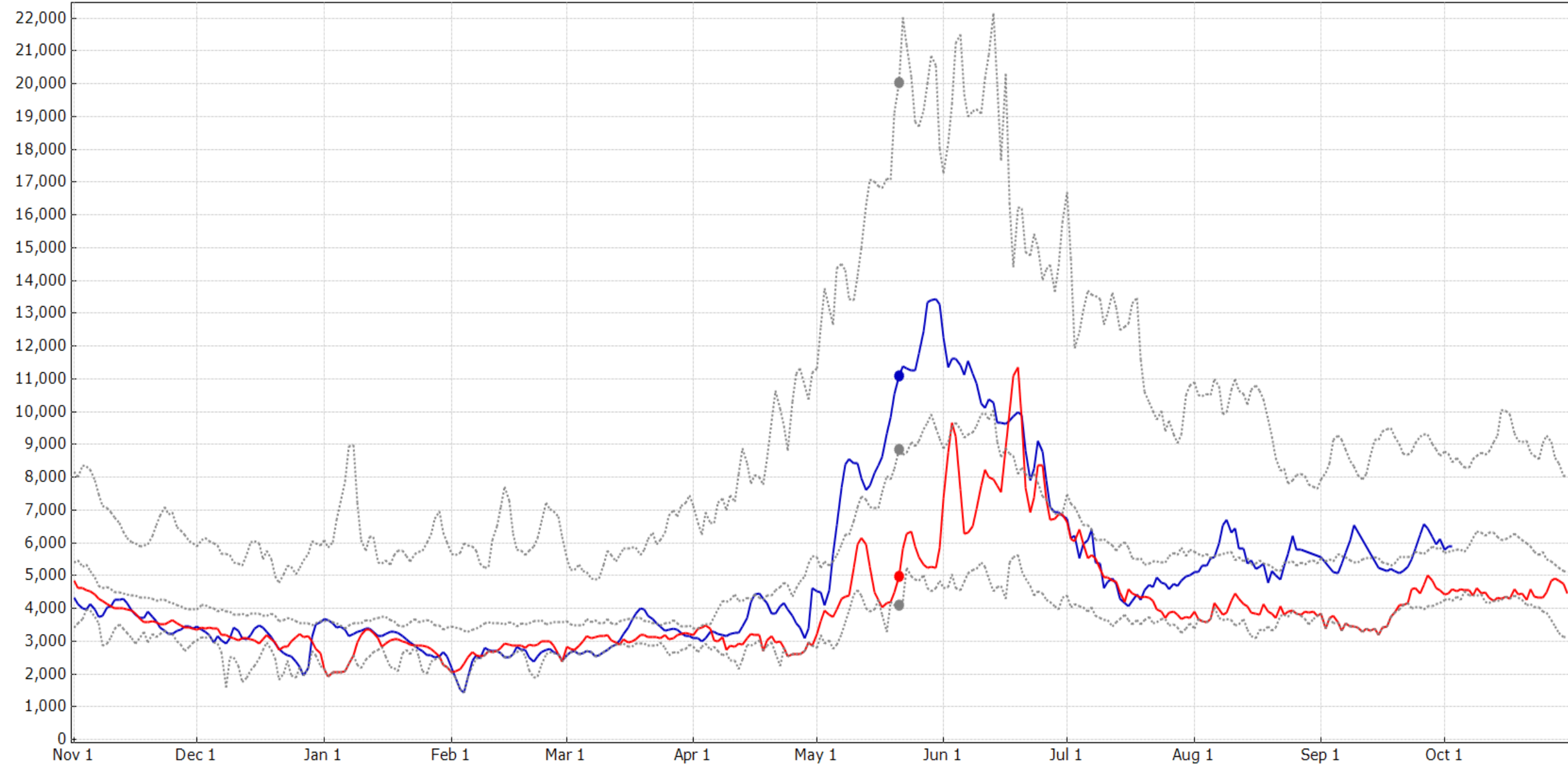
Snake above King Hill Storage (Oct 9)

BASIN	CURRENT STORAGE (Acre-Feet)	Storage Capacity (Acre-Feet)	%Full	%Median	365-Delta (Acre-Feet)
Little Wood	13,153	30,000	44%	254%	7,992
Upper Snake Reservoir System	1,826,024	4,135,695	44%	111%	1,261,676
<i>Above Heise (Jck & Pal)</i>	1,223,718	2,047,000	60%	112%	980,308
Jackson Lake (Jck)	554,363	847,000	65%	118%	413,149
Palisades (Pal)	669,355	1,200,000	56%	107%	567,159
<i>Henrys Fork Reservoirs (Hen, Isl, Grs)</i>	182,415	240,385	76%	110%	39,593
Island Park (Isl)	91,294	135,205	68%	127%	29,705
Ririe Reservoir (Rir)	45,544	80,540	57%	93%	3,739
<i>Lower System (American Falls and Lake Walcott)</i>	374,347	1,767,770	21%	112%	238,036



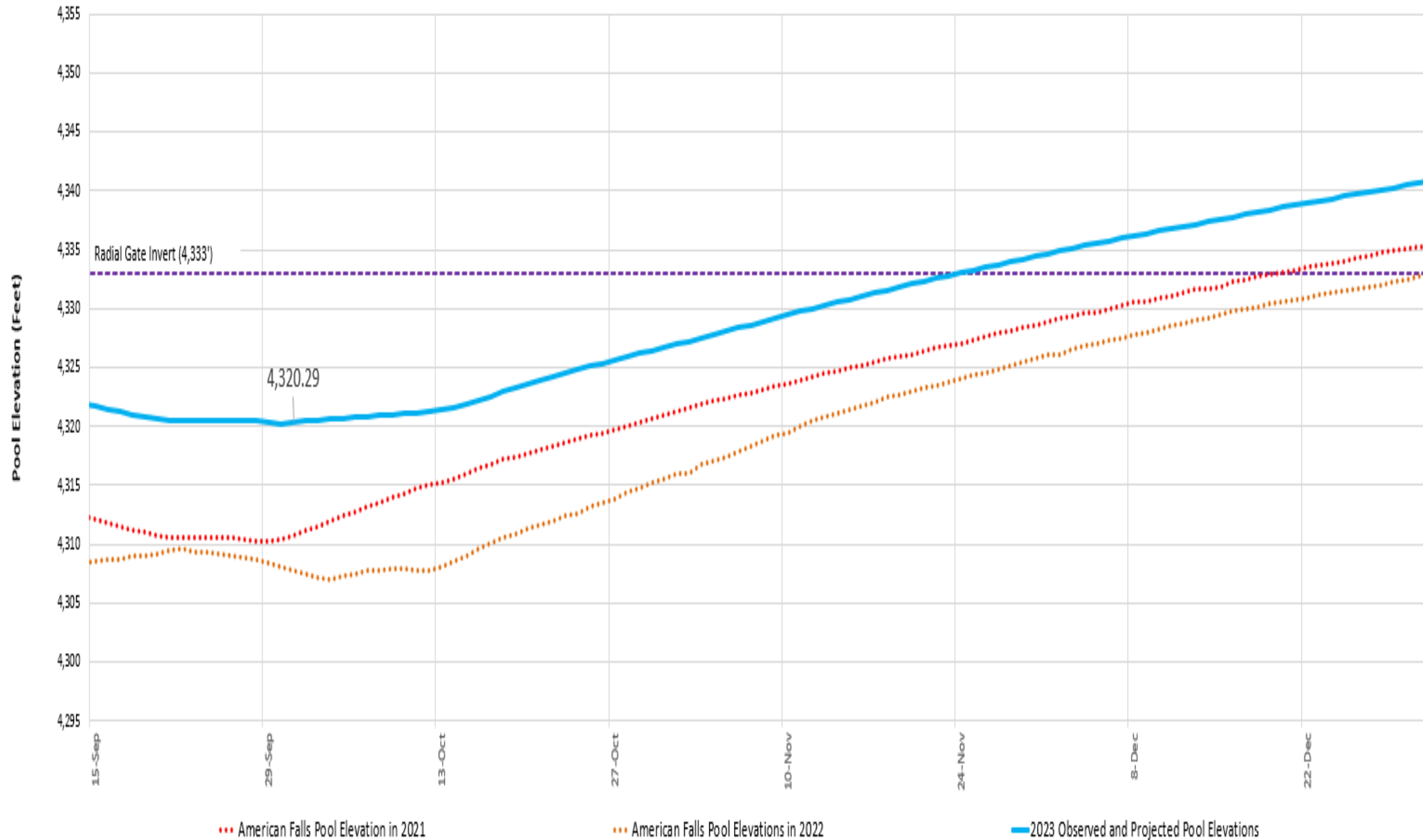
Unregulated Natural Flow Gains above American Falls (1988-2022)

— 2023 — 2022 ... Max ... 50% ... Min



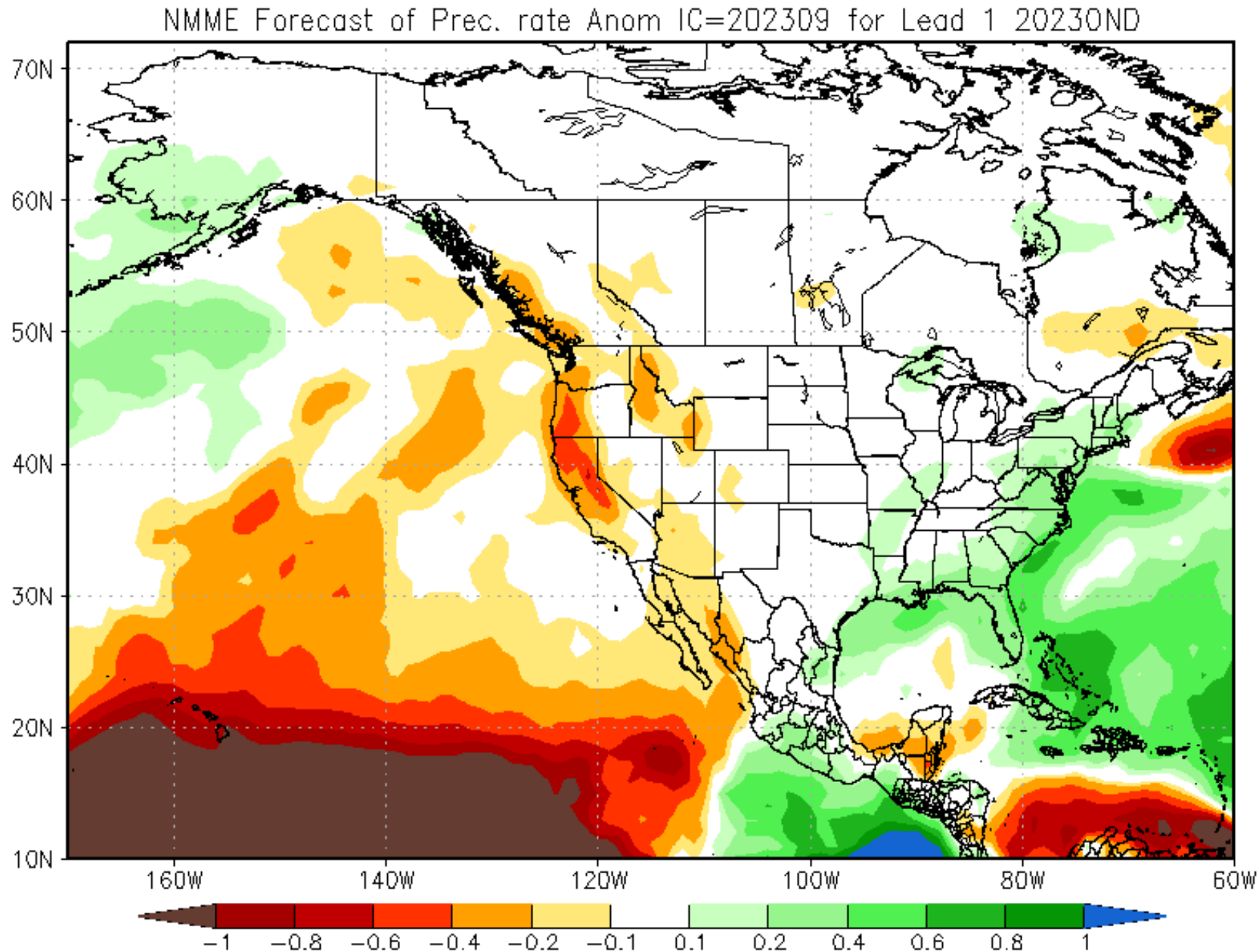
Provisional

American Falls Pool Elevations - Top of Full Pool at 4,354.50'

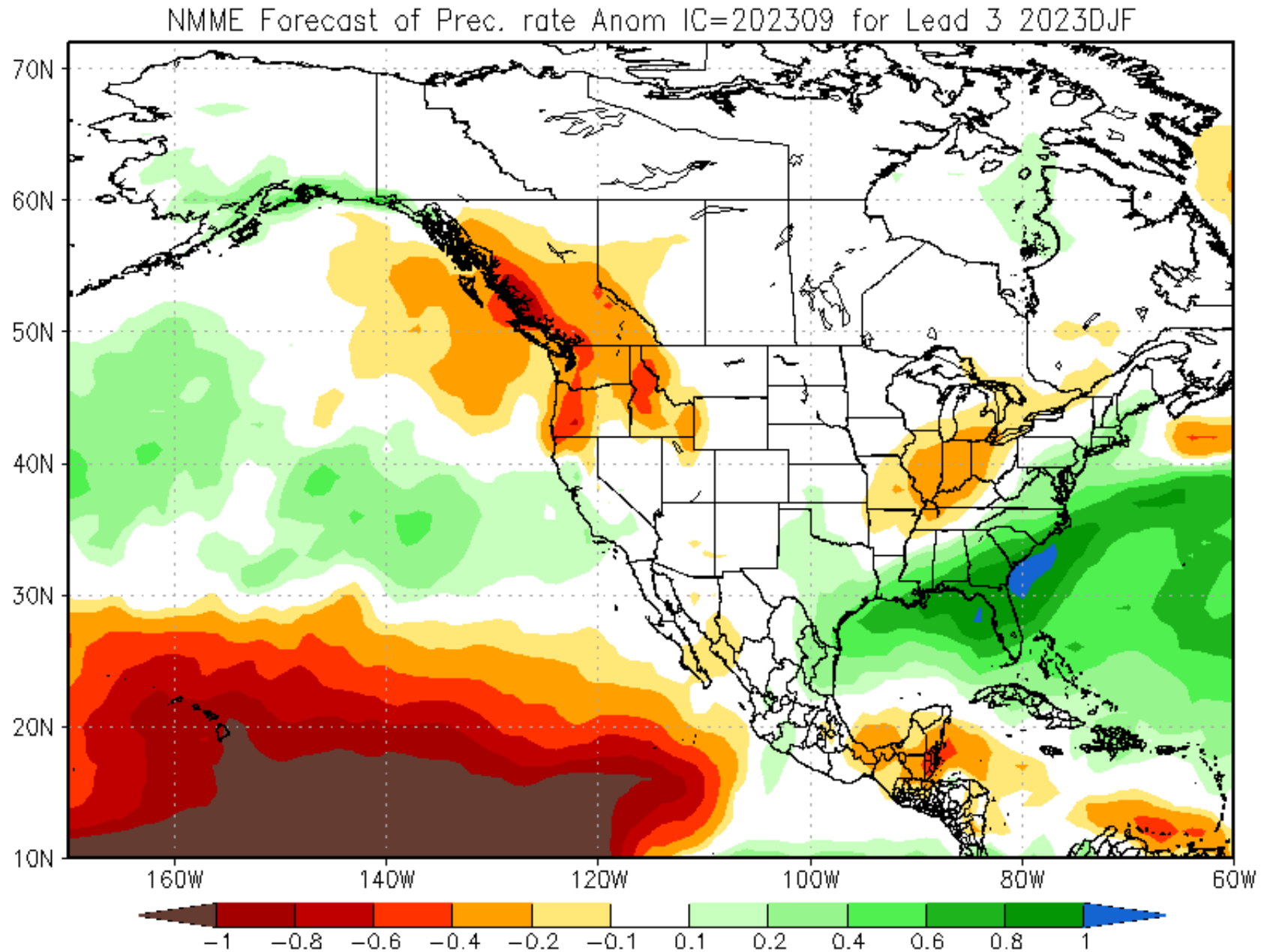


Above median and likely to carryover 240-260 KAF more than last year – came within 105 KAF of spilling in June 2023

October – December Outlook



December – February Outlook



For More Information

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Michael Coffey- Public Affairs Officer

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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/>

