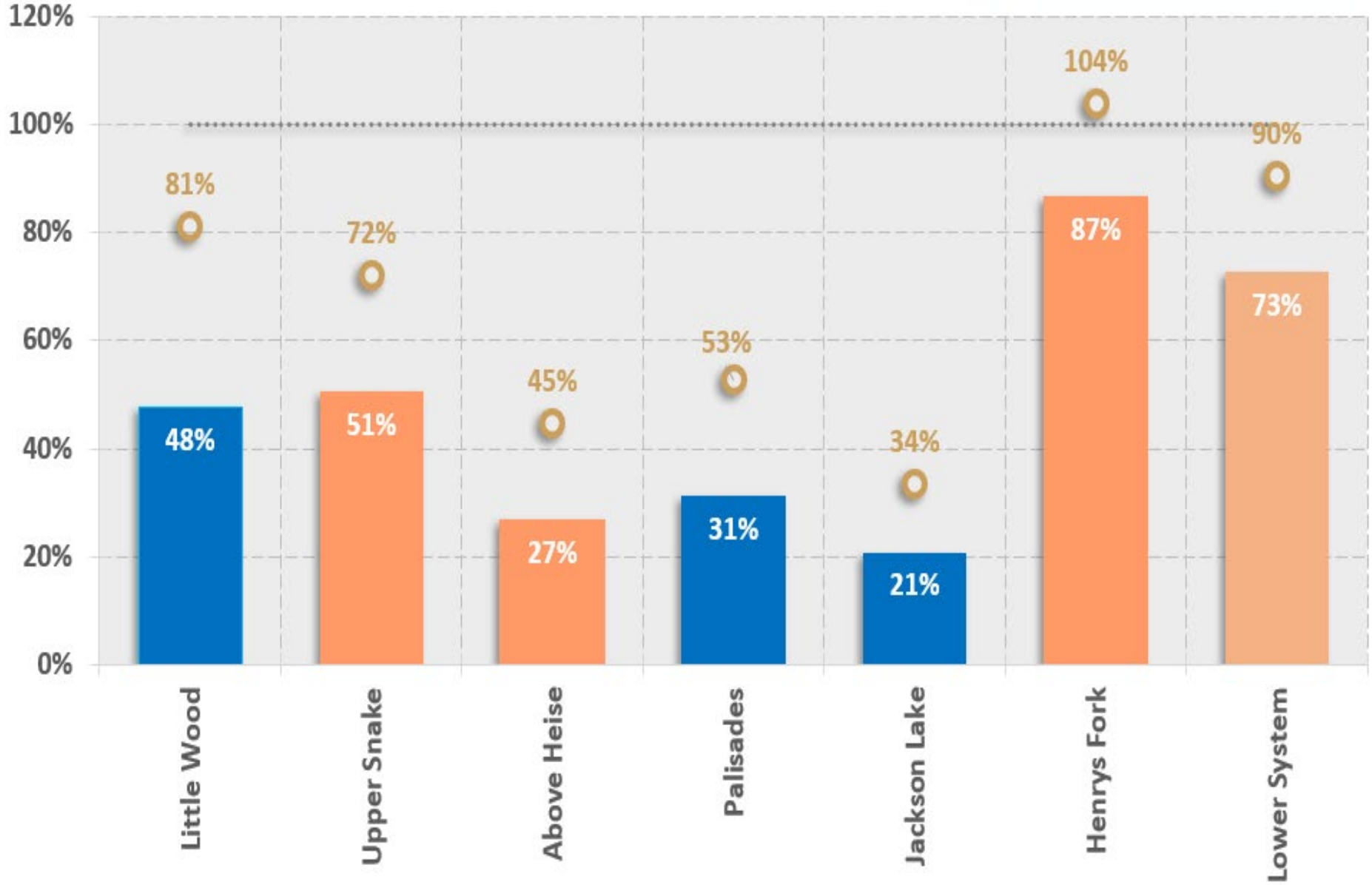
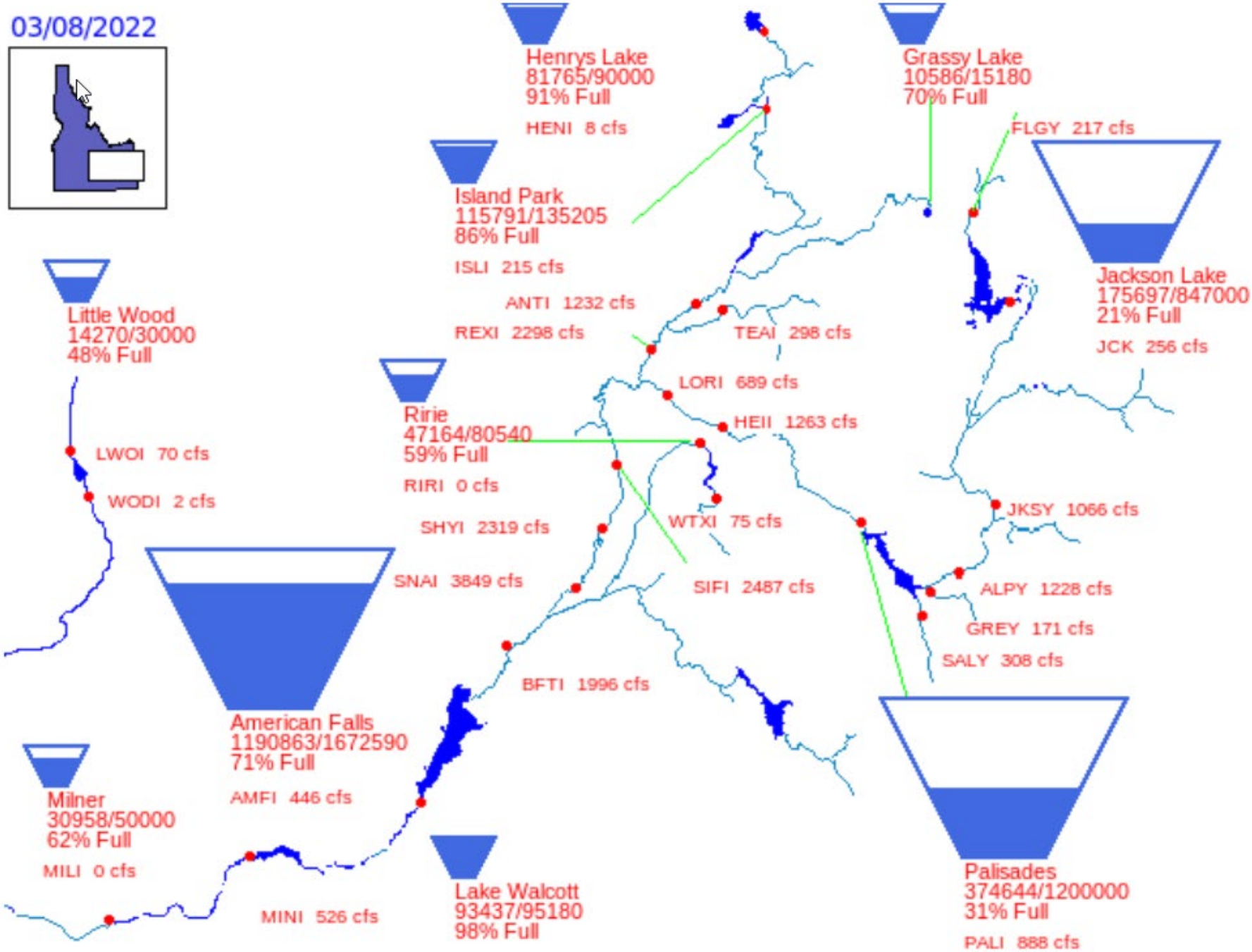
BUREAU OF RECLAMATION

Upper Snake Field Office River and Reservoir Operations

3/10/2022

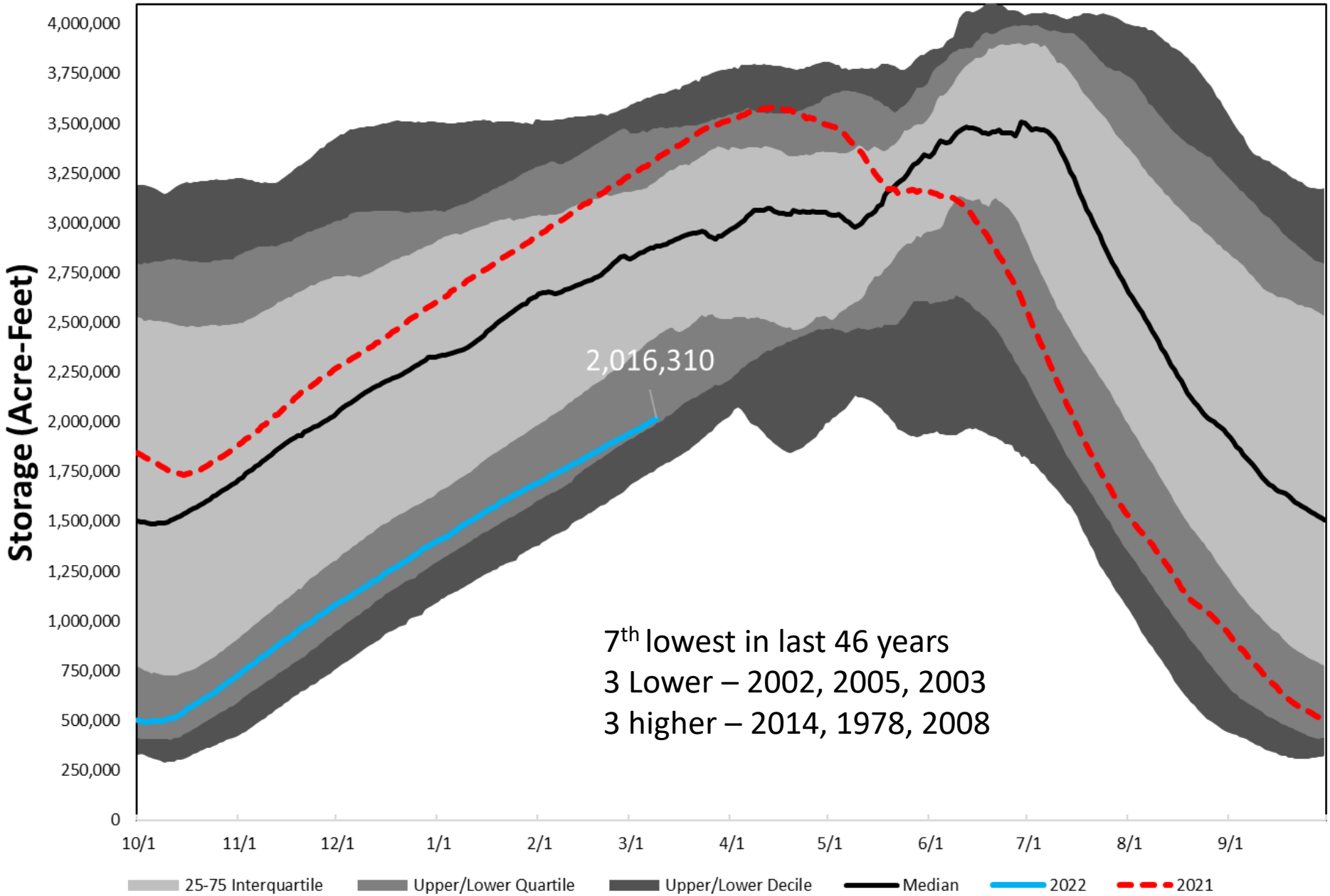
Snake above King Hill Storage (Mar 8)



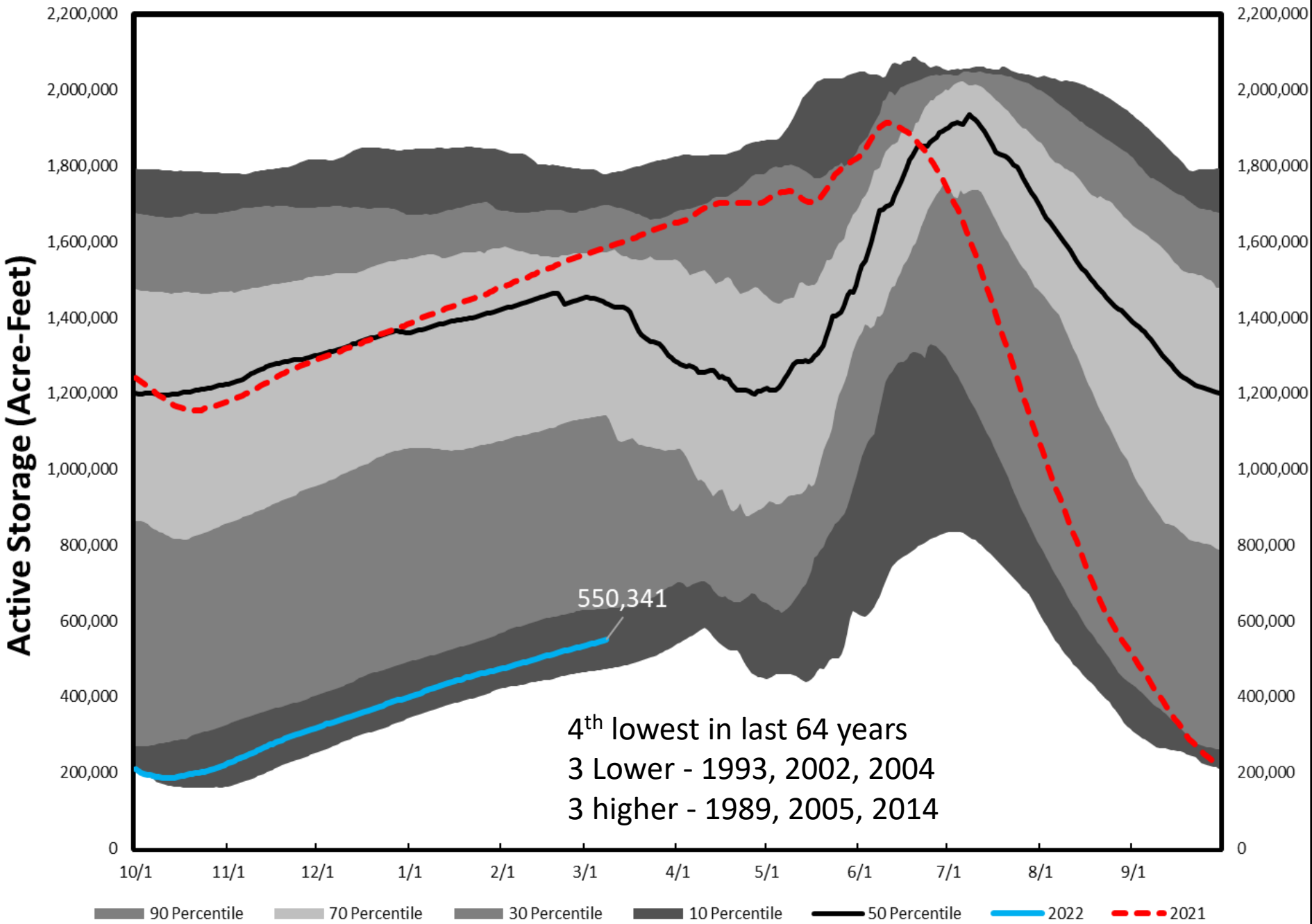

03/08/2022
Henrys Lake
81765/90000
91% Full
HENI 8 cfs
Grassy Lake
10586/15180
70% Full
FLGY 217 cfs
Island Park
115791/135205
86% Full
ISLI 215 cfs
ANTI 1232 cfs
REXI 2298 cfs
TEAI 298 cfs
Jackson Lake
175697/847000
21% Full
JCK 256 cfs
Little Wood
14270/30000
48% Full
LWOI 70 cfs
WODI 2 cfs
Ririe
47164/80540
59% Full
RIRI 0 cfs
LORI 689 cfs
HEII 1263 cfs
SHYI 2319 cfs
WTXI 75 cfs
SNAI 3849 cfs
SIFI 2487 cfs
JKSY 1066 cfs
ALPY 1228 cfs
GREY 171 cfs
SALY 308 cfs
BFTI 1996 cfs
American Falls
1190863/1672590
71% Full
AMFI 446 cfs
Milner
30958/50000
62% Full
MILI 0 cfs
MINI 526 cfs
Lake Walcott
93437/95180
98% Full
Palisades
374644/1200000
31% Full
PALI 888 cfs

Upper Snake Reservoir System Total Storage (Acre-Feet)

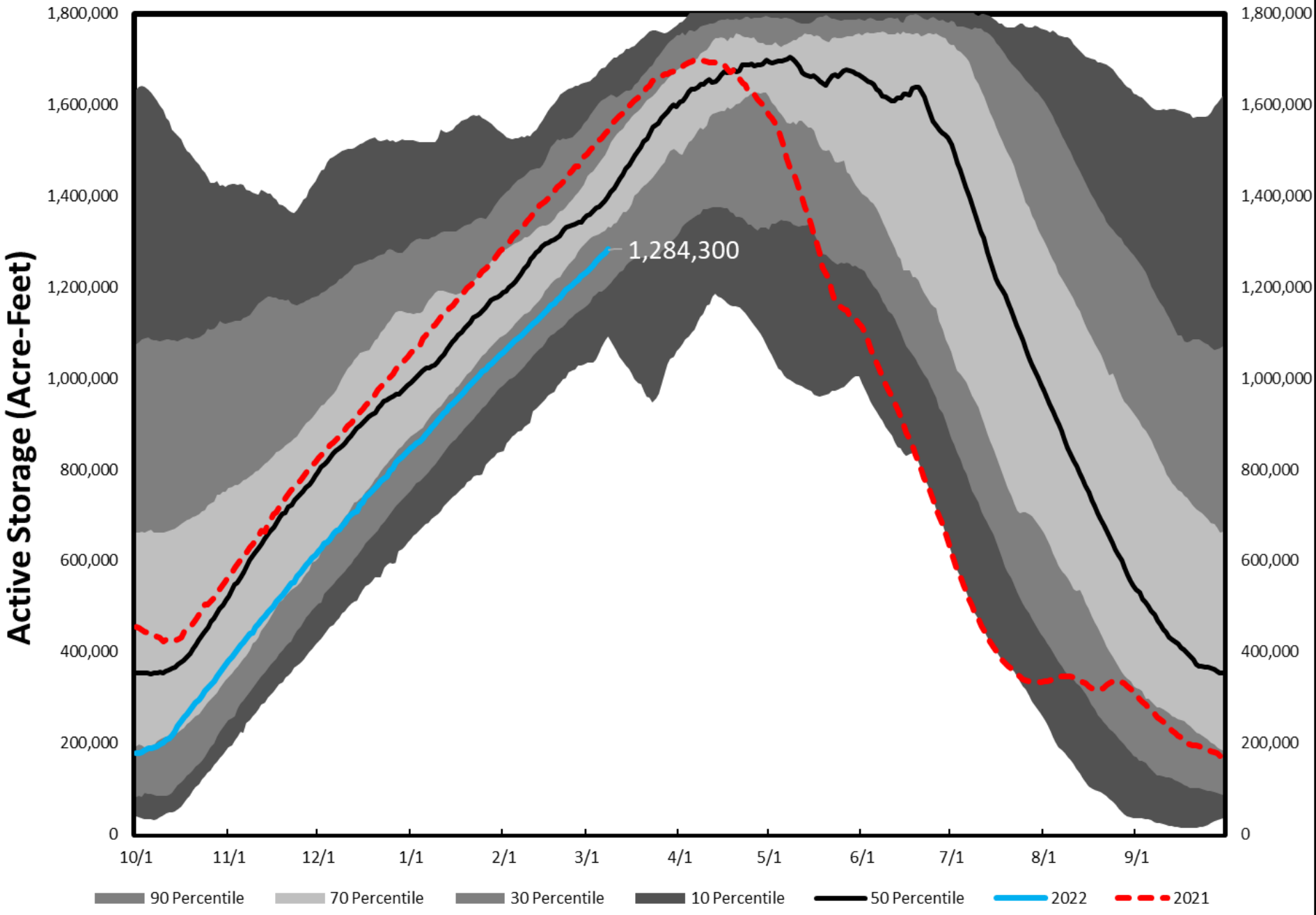
Analysis Period 1977-2021



Jackson and Palisades Storage (1958-2021)

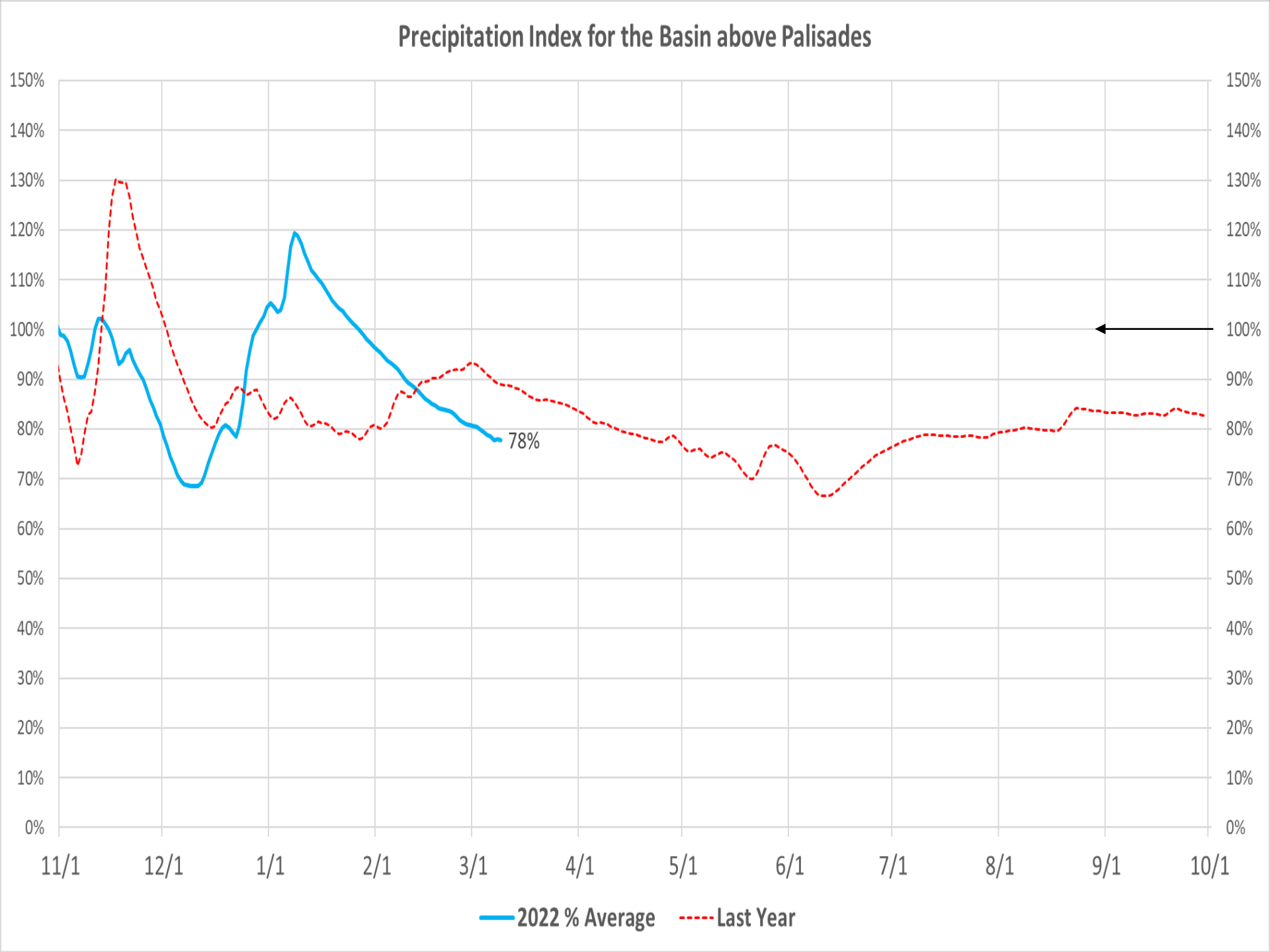


American Falls and Lake Walcott Storage (1958-2021)



Approximate Values

Parameter	Nov 1 - Mar 8 Volume	% Normal
Jackson Lake Inflow	109,435	81%
Reach Gain above Palisades	460,967	84%
Unregulated flow at Palisades	570,402	83%
Unregulated flow at Island Park	91,809	75%
Net Unregulated Gains above American Falls	664,301	81%


Precipitation Index for the Basin above Palisades
150%
140%
130%
120%
110%
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
78%
11/1
12/1
1/1
2/1
3/1
4/1
5/1
6/1
7/1
8/1
9/1
10/1
2022 % Average
Last Year

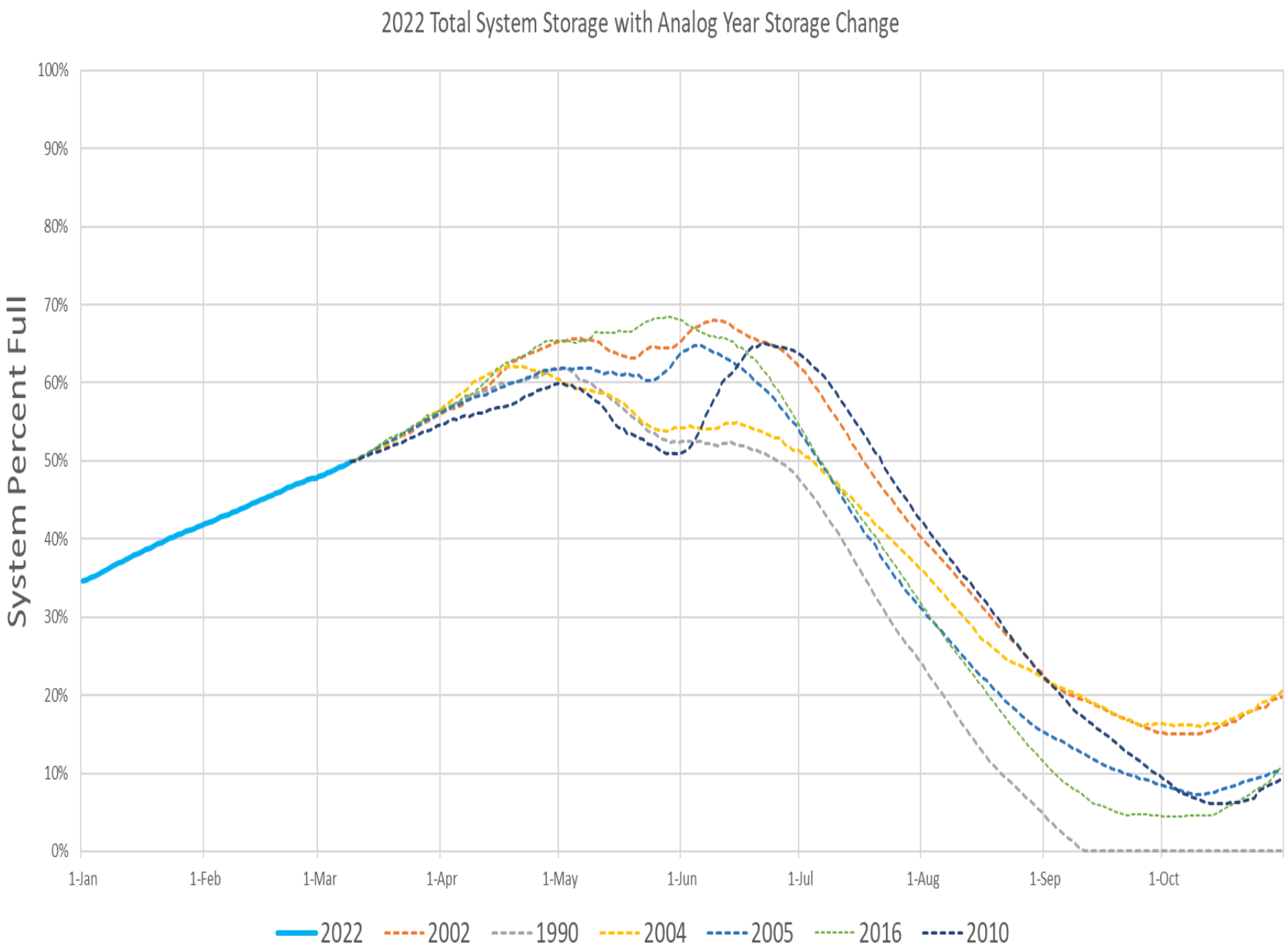
CURRENT MONTHLY FORECAST SUMMARY
MAR 1, 2022

FORECAST POINT	FORECAST PERIOD	1991-2020 AVERAGE (KAF)	FORECAST (KAF)	PERCENT NORMAL
*** HEISE	MAR-JUL	3517	2650	75%
JACKSON LAKE	MAR-JUL	804	603	75%
ISLAND PARK	MAR-JUL	230	162	71%
TETON	MAR-JUL	379	275	73%
*** RIRIE	MAR-JUN	60	38	63%
*** LITTLE WOOD	MAR-JUL	82	74	91%

* Coordinated with USACE

Water Year	March 1 Precip Composite	March - July Runoff	Runoff % Normal
2016	17.7	2,799,458	80%
2010	12.5	2,759,293	78%
2003	17.5	2,677,295	76%
2022	***16.4***	***2,650,000***	***75%***
2004	19.1	2,562,492	73%
1990	18.3	2,551,233	72%
2002	16.9	2,506,853	71%
1988	16.7	2,471,337	70%
2013	16.4	2,450,666	70%
1987	14.5	2,348,007	67%
2021	19.0	2,316,855	66%

Analog years to 2022 forecast above Heise


2022 Total System Storage with Analog Year Storage Change
System Percent Full
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
1-Oct
2022
2002
1990
2004
2005
2016
2010

Overview

- Storage is below average in the Upper Snake
- Irrigation deliveries by end of March or early April
- Comparable years appear to be 2002-2005

4 In Soil temperature (1996-2022)

As of 3/9 Rank	Year	Rexburg	Aberdeen	Twin Falls	Average
1	2014	40.07	42.72	43.75	42.18
2	2016	37.13	42.28	45.38	41.60
3	2015	38.56	42.63	41.95	41.05
4	2021	31.77	44.39	41.86	39.34
5	2020	31.92	41.49	43.65	39.02
6	2005	31.59	39.98	44.68	38.75
7	1996	32.76	40.66	40.85	38.09
8	2000	36.78	36.16	40.77	37.90
9	2007	31.84	36.37	45.25	37.82
10	2017	37.2	35.55	40.13	37.63
11	2008	32.94	33.36	44.47	36.92
12	2019	32.84	37.89	38.22	36.32
13	2003	31.63	36.27	39.96	35.95
14	2010	32.42	35.13	39.82	35.79
15	2004	32.29	32.15	41.31	35.25
16	2006	31.87	32.4	41.4	35.22
17	2018	31.5	37.32	36.75	35.19
18	1998	31.94	33.62	38.39	34.65
19	2001	32.89	30.39	40.09	34.46
20	1997	32.49	32.77	37.91	34.39
21	2013	32.3	32.55	36.71	33.85
22	2011	32.22	32.56	36.67	33.82
23	**2022**	**31.78**	**33.93**	**34.77**	**33.49**
24	1999	31.44	31.23	37.77	33.48
25	2009	31.86	32.84	35.64	33.45
26	2002	31.67	30.35	32.59	31.54
27	2012	17.11	32.73	38.3	29.38

Contact Information

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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/