



— BUREAU OF —
RECLAMATION

Henry's Fork Watershed Council

April 12, 2022

Upper Snake Reservoir Operations

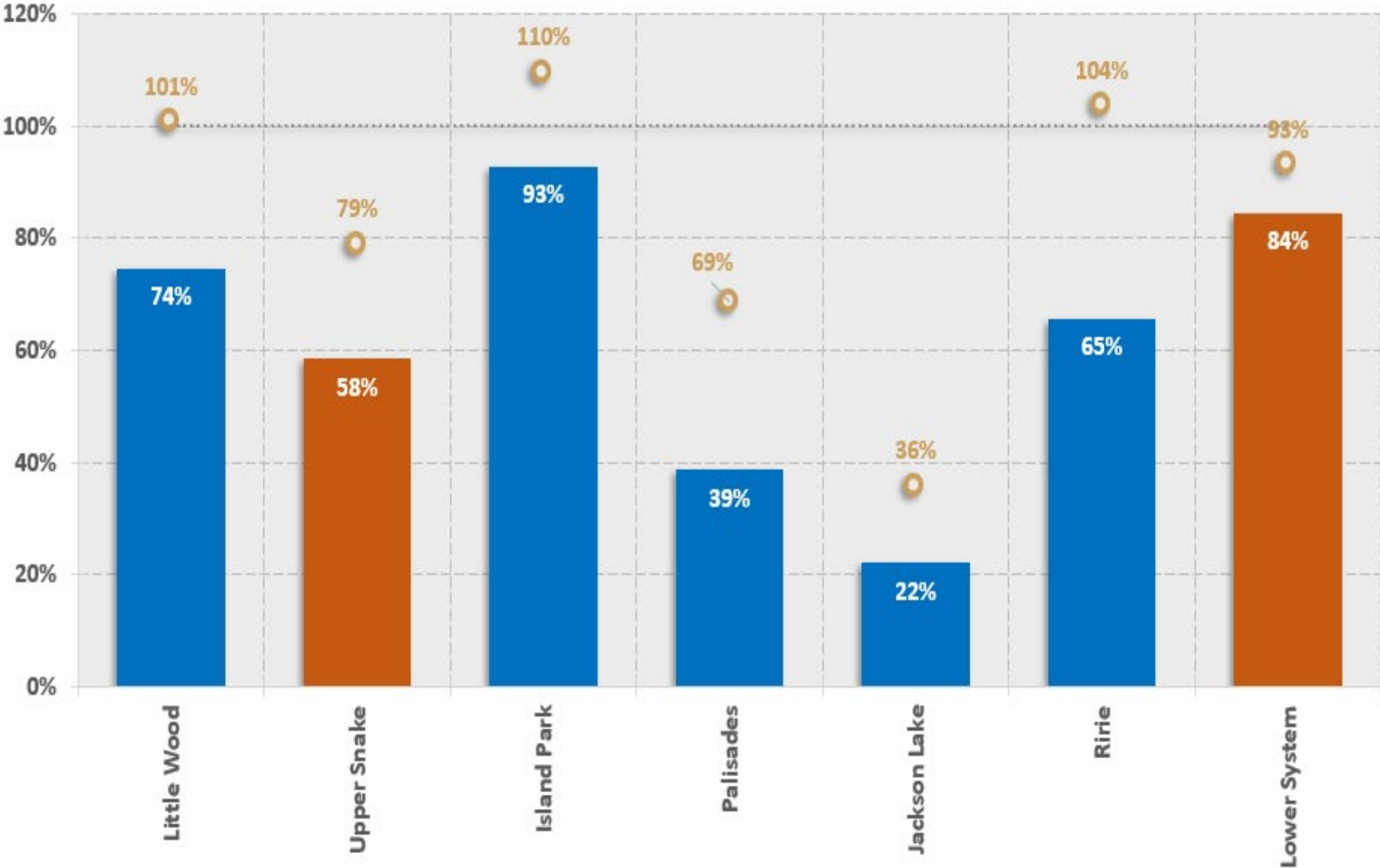
Snake above King Hill Storage (Apr 11)



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■ Percent Full (Active Storage)

● Percent of Base Period Normal (91-20)



CURRENT MONTHLY FORECAST SUMMARY
APR 1, 2022

FORECAST POINT	FORECAST PERIOD	1991-2020 AVERAGE (KAF)	FORECAST (KAF)	PERCENT NORMAL
*** HEISE	APR-JUL	3304	2150	65% (-10%)
JACKSON LAKE	APR-JUL	770	503	65% (-10%)
ISLAND PARK	APR-JUL	200	110	55% (-16%)
TETON	APR-JUL	347	215	62% (-11%)
*** RIRIE	APR-JUN	55	25	46% (-17%)
*** LITTLE WOOD	APR-JUL	72	37	51% (-40%)

* Coordinated with USACE



SNOW WATER EQUIVALENT IN UPPER SNAKE

Reset Range

[Link to data: CSV / JSON](#)

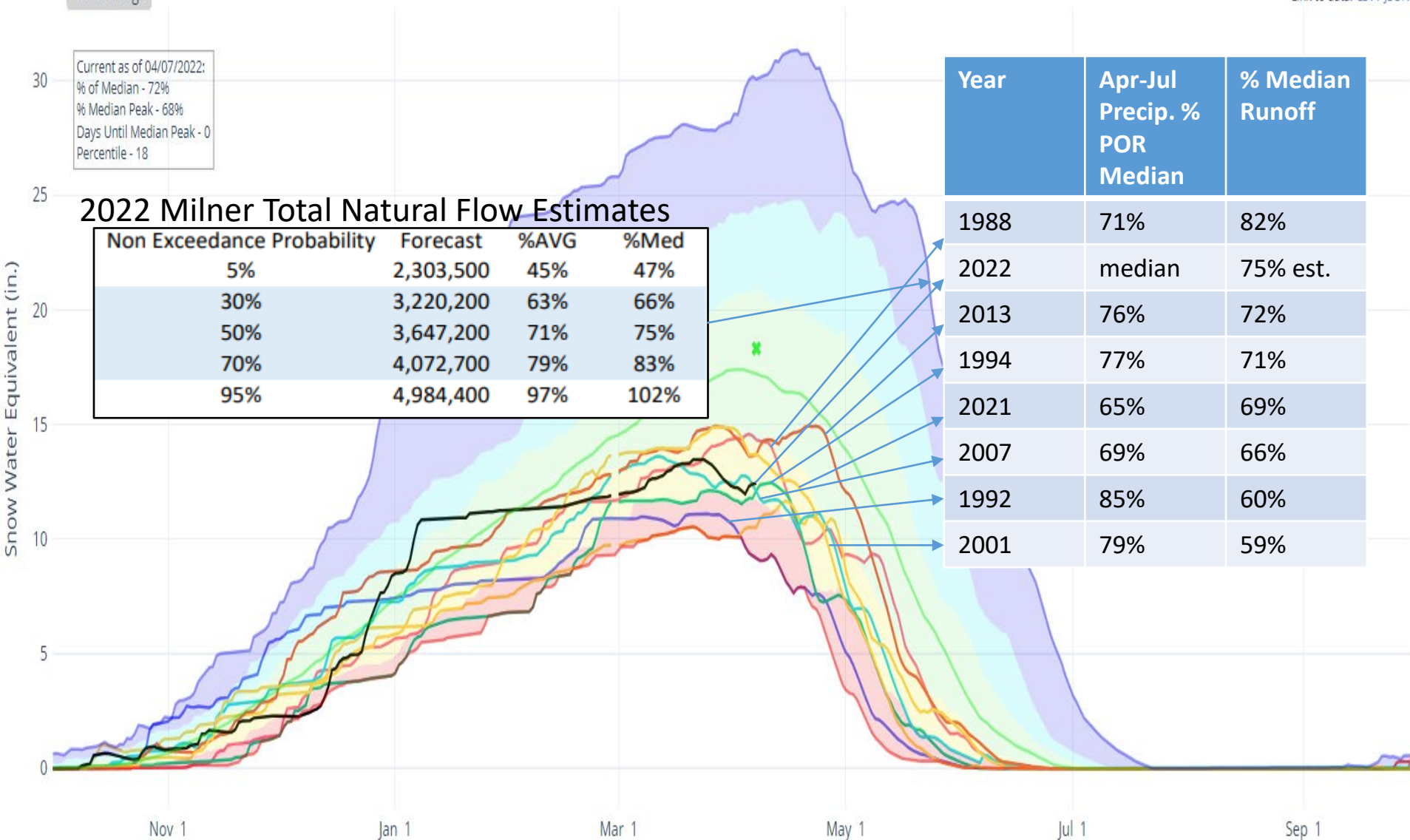
Current as of 04/07/2022:
 % of Median - 72%
 % Median Peak - 68%
 Days Until Median Peak - 0
 Percentile - 18

2022 Milner Total Natural Flow Estimates

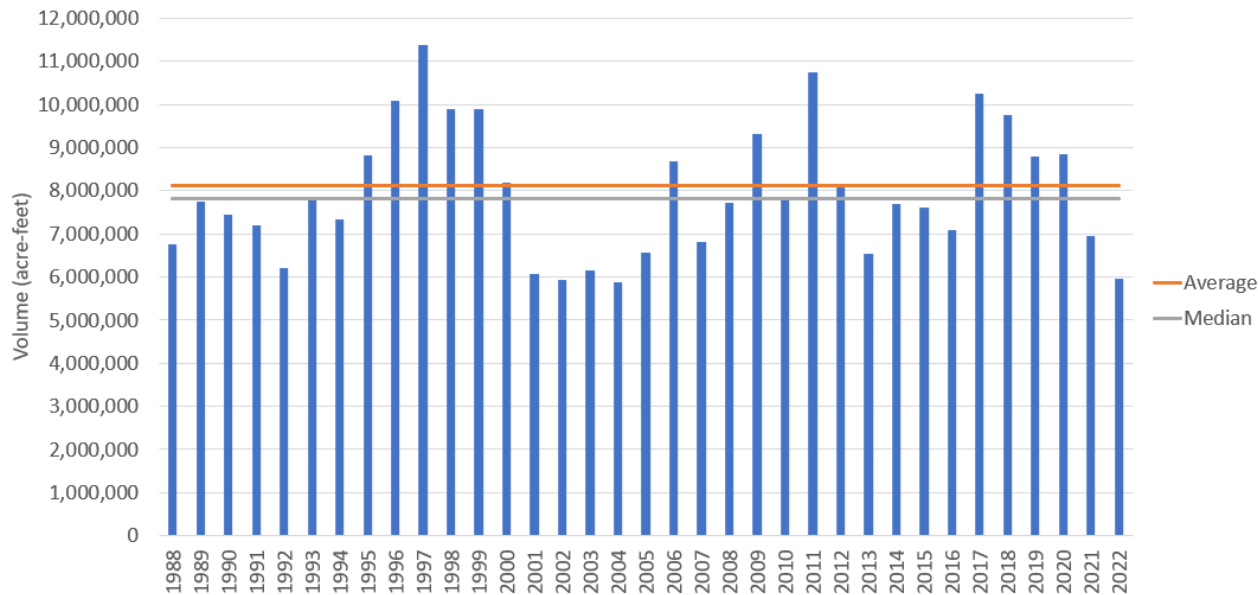
Non Exceedance Probability	Forecast	%AVG	%Med
5%	2,303,500	45%	47%
30%	3,220,200	63%	66%
50%	3,647,200	71%	75%
70%	4,072,700	79%	83%
95%	4,984,400	97%	102%

Year	Apr-Jul Precip. % POR Median	% Median Runoff
1988	71%	82%
2022	median	75% est.
2013	76%	72%
1994	77%	71%
2021	65%	69%
2007	69%	66%
1992	85%	60%
2001	79%	59%

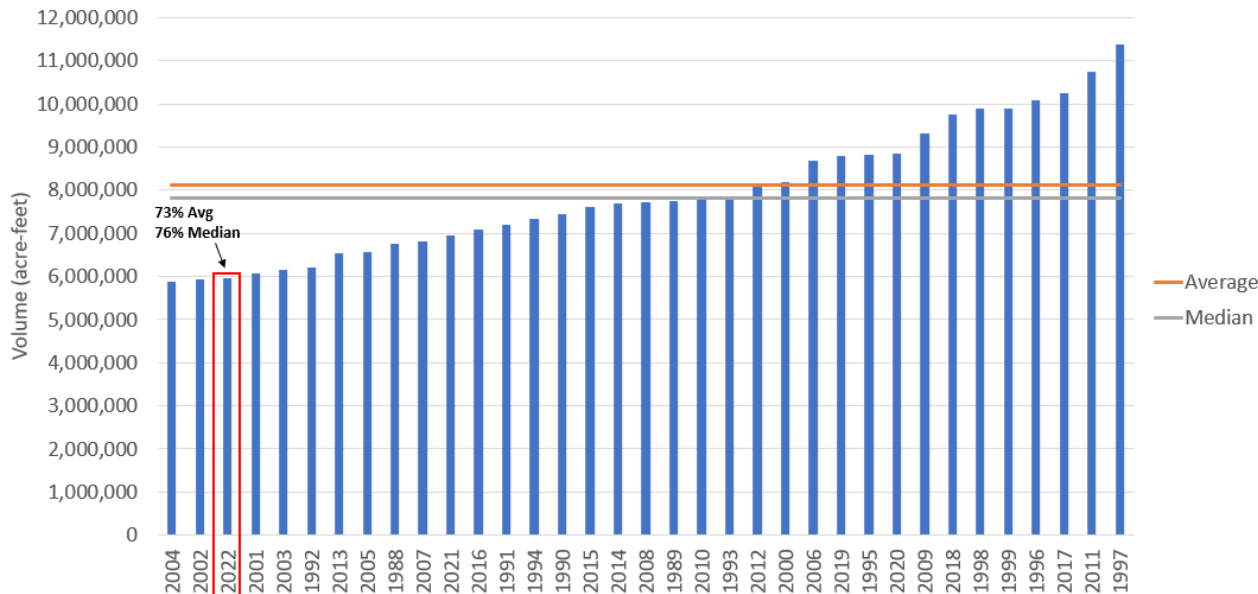
Snow Water Equivalent (in.)



April - July Water Supply Outlook
(Milner Total Natural Flow + 4/1 Stored Water)



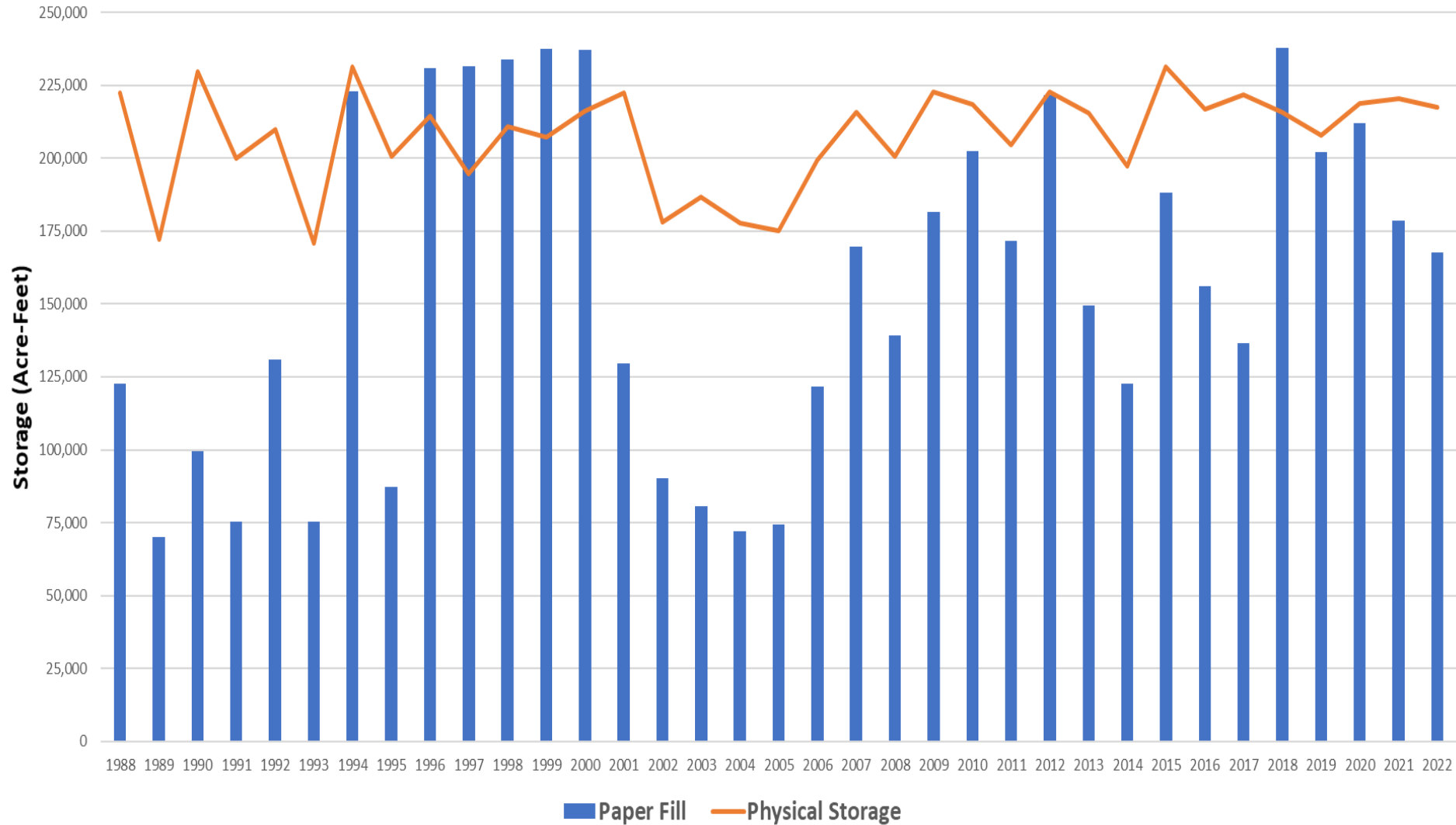
April - July Water Supply Outlook
(Natural Flow + 4/1 Stored Water)



2022 Water Supply
3rd Lowest since 1988
- higher than 2004 by
75 kaf
- 2004 had a 77%
median runoff



Henry's Lake, Island Park, and Grassy Lake As of April 5



Physical Storage is 105% of average

Paper storage is 104% of average

Deliverability of storage balance is not concerning if held physically upstream of
6 place of use



Upper Snake Flow Augmentation Outlook

Rainbow Chart/
Common Pool

2022 Carryover
847,241 AF
(includes 20 KAF
rented to
supplemental pool
in WY 2020)

April-Sept. Forecast
65%, 2504 KAF

TABLE 1: Water District 1 Flow Augmentation Rental Chart					
% of Average	0% - 75.8%	>75.8% - 89.6%	>89.6% - 109.2%	>109.2% - 130.9%	>130.9%
October 31st Midnight Carryover 1000s AF	April 1 to Sept 30 Heise Forecast (1000s AF)				
	0	2,920	3,450	4,208	5,042
	to	to	to	to	or
	2,919	3,449	4,207	5,041	greater
0 - 599	0	0	0	150000	185000
600 - 899	0	0	60000	150000	185000
900 - 1499	0	60000	60000	150000	185000
1500 - 2099	0	100000	150000	185000	185000
2100 - 2599	0	100000	150000	205000	205000
2600 - 2999	0	185000	185000	205000	205000
3000 - 3199	60000	185000	185000	205000	205000
> 3199	100000	185000	185000	205000	205000

Powerhead Space >> as of 2/11/22 55,941 AF available,
estimated with 2% evaporation is 54,400 AF



Highlights for this Year

- Windshield Snow Survey – Friday May 20th
- Jackson Public Information Meeting – Thursday May 19th
 - Teton County Library, 5 pm
 - Block of rooms at 49'er Inn being held until the end of Sat. 4/30
- Jackson Dam inspections again this fall, anticipating early October again
- More frequent USGS gage measurements at the Blackfoot gage Gage (in June-July-August)
- American Falls spillway work this spring-summer
- Weekly checking with facilities on reservoir levels in relation to Hydromet readings
- April 18 – WaterSMART Roadmap Workshop by Reclamation
 - 1-5 pm @ Residence Inn, 635 W Broadway St., Idaho Falls
 - Can contact Leah meeks (lemeeks@usbr.gov) or Keith Esplin (keithesplinh2o@gmail.com) with any questions ahead of time.



Operational Outlook

- Jackson - maintain 280 cfs, anticipating an increase in late April to a fairly consistent flow for the spring-summer-fall
- Palisades - 1500 cfs, potential for small increases over the next week
- Ririe – 0 cfs, anticipating increase up to ~200 cfs on 4/13-4/14, and then back down to 50 cfs or 0 cfs.
- Island Park - ~280 cfs today, very likely to fill in May
- American Falls: 2000 cfs, potential for small increases over the next week
- Minidoka – 1300 cfs, potential for small increases over the next week



For More Information

Snake River Area Office

- Lanie Paquin - Area Manager
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mpaquin@usbr.gov

Upper Snake Field Office

- Mike Hilliard – Field Office Manager
208-678-0461 (x34)
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- Tyler Cox – Resources Manager (x15)
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- Brian Stevens – Water Operations Group Manager (x24)
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- Jeremy Dalling - Reservoir Operations Lead (x25)
jdalling@usbr.gov
- Darrin Fredrickson - Staff Assistant (x17)
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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/>

