



2023 Water Year Upper Flathead Basin Drought Summary



ENERGY KEEPERS, INC.

A CORPORATION OF THE CONFEDERATED SALISH & KOOTENAI TRIBES

Brian Lipscomb – CEO of Energy Keepers Inc.

- Tribal Member
- St. Ignatius Native
- MSU Graduate in Civil Engineering
- 30 Years Working In Hydroelectric Arena





Confederated Salish & Kootenai Tribes
of the Flathead Reservation





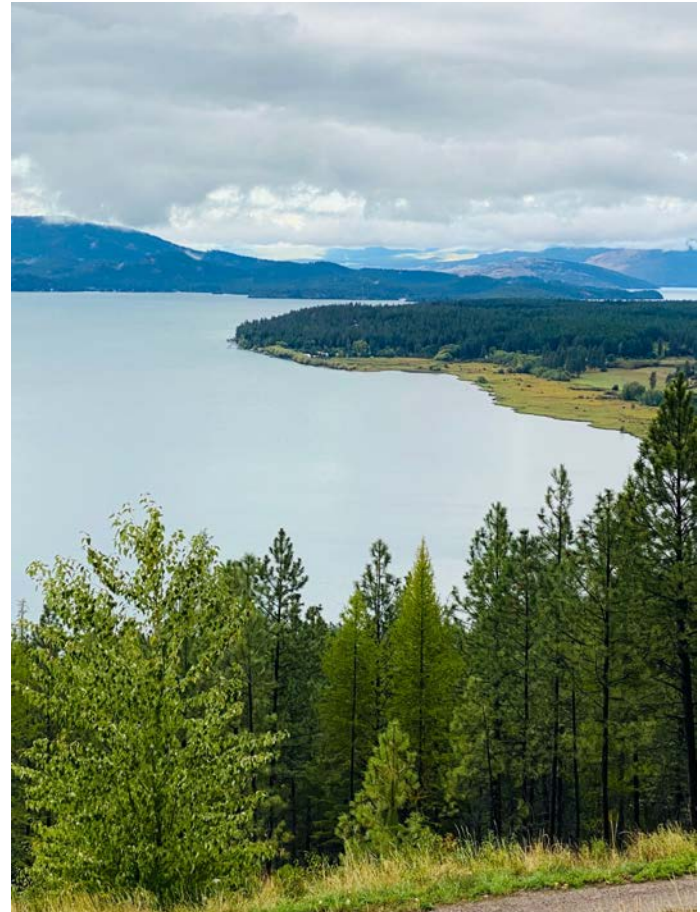
The Seli's Ksanka Qlispe' Dam located on CSKT land 6 miles downstream of Flathead Lake the largest natural freshwater lake in the west. It is a 200-foot high, 381-foot-long concrete arch dam combined with a 1.2-million-acre foot storage reservoir in the top ten feet of Flathead Lake. Its powerhouse has a maximum generation capacity of 208 megawatts and an annual average production of 1.1 million megawatt hours of electricity. It is managed as part of the Columbia River basin flood control system.







SKQ Controls Top 10' of Flathead Lake – 1.2 MAF



Typical EKI Operation:

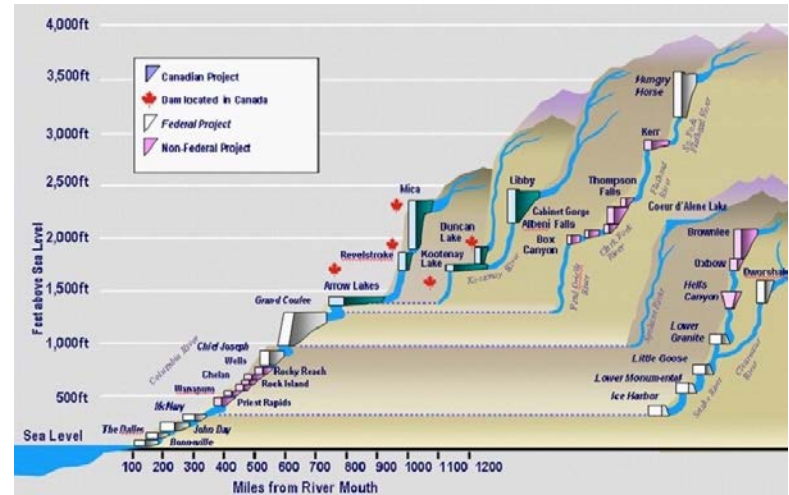
- Strive for 2883' Min Pool – April 15
- 2890' – Memorial Weekend
- Full Pool 2893' – June 15
- Top Foot 2893' – 2892' - Labor Day
- Minus 2' by Oct 31 – 2891'
- No less than 2888' Dec 31

SKQ Controls Lower Flathead River

74 River Miles to Confluence with Clark Fork River



Kerr is a part of the Columbia Hydroelectric Resource Base





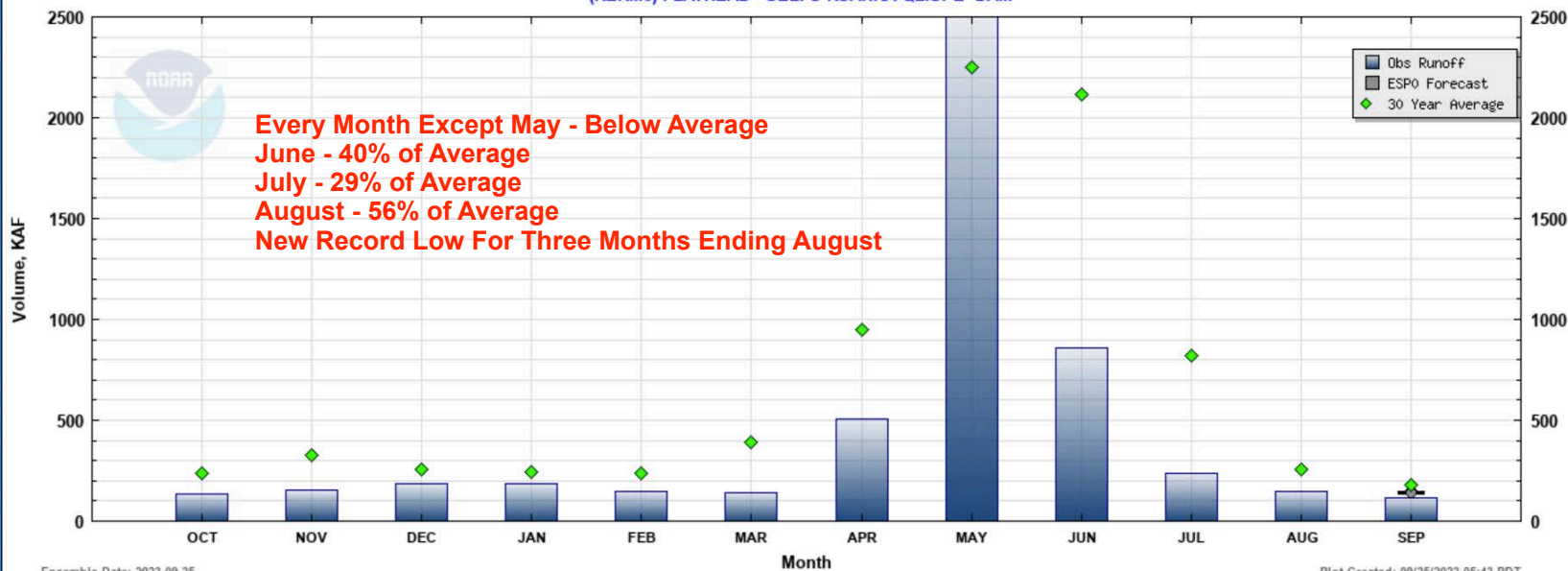
Northwest River Forecast Center ESP Monthly Water Supply Volumes

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Water Supply Volume Monthly Forecasts (ESP0) for Water Year 2023

(KERM8) FLATHEAD - SELI'S KSANKA QLISPE' DAM



FLATHEAD - SELI'S KSANKA QLISPE' DAM Forecasts For Water Year 2023

Official Water Supply

ESP with 10 days QPF

Ensemble: 2023-09-25 Issued: 2023-09-25

Forecast Period	Forecasts Are in KAF				Obs Runoff (2023-09-25)	30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %		
OCT					137	240
NOV					153	329
DEC					184	258
JAN					187	245
FEB					149	238
MAR					139	391
APR					504	947
MAY					2498	2253
JUN					856	2117
JUL					240	819
AUG					145	259
SEP	142	142	78	142	118*	181

Move the mouse over the desired "Forecast Table" to update graph.
* Partial Monthly Total

[CSV Download](#)
[ESP10](#)
[Forecast Ensemble](#)

FLATHEAD - SELI'S KSANKA QLISPE' DAM Forecasts For Water Year 2023

Experimental Water Supply

HEFS with 15 days EQPF

Ensemble: 2023-09-25 Issued: 2023-09-25

Forecast Period	Forecasts Are in KAF				Obs Runoff (2023-09-25)	30 Year Average (1991-2020)
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[CSV Download](#)
[HEFS](#)
[Forecast Ensemble](#)

FLATHEAD - SELI'S KSANKA QLISPE' DAM Forecasts For Water Year 2023

Reference

ESP with 0 days QPF

Ensemble: 2023-09-25 Issued: 2023-09-25

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[CSV Download](#)
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7 days 30 days 1 year

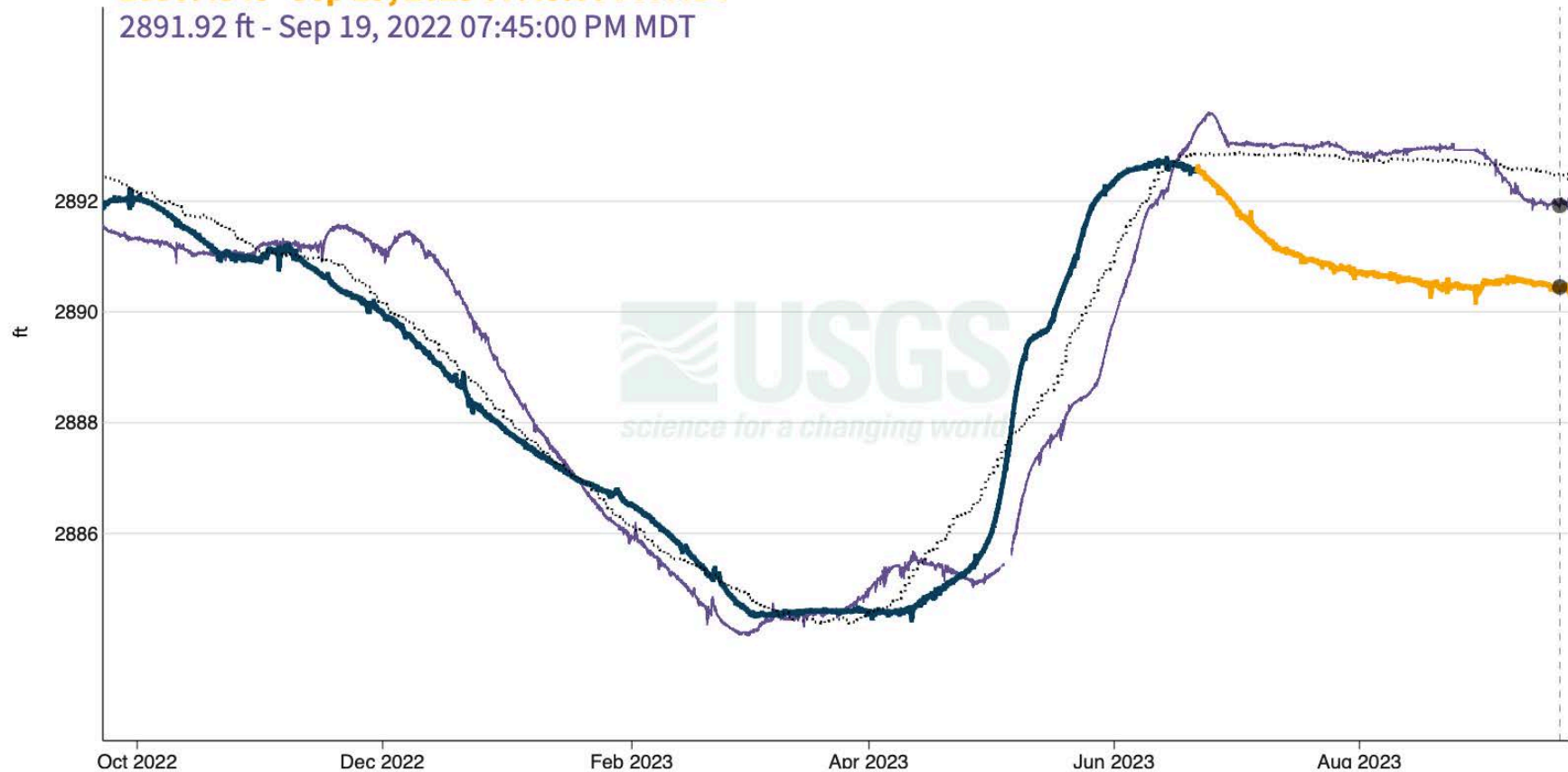
Flathead Lake at Polson MT - 12371550

September 22, 2022 - September 22, 2023

Elevation of reservoir water surface above datum, ft ⓘ

2890.45 ft - Sep 19, 2023 07:45:00 PM MDT

2891.92 ft - Sep 19, 2022 07:45:00 PM MDT

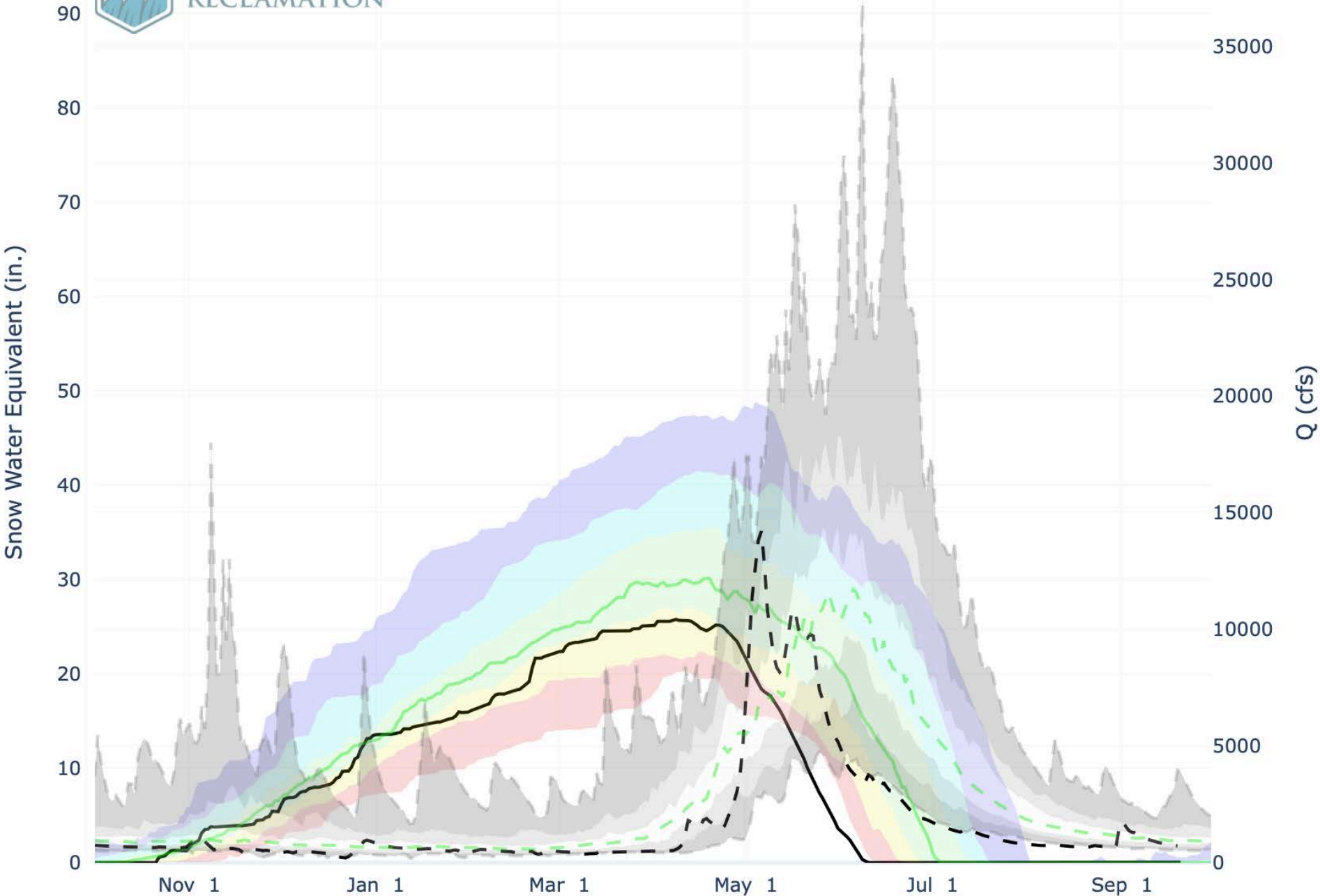


Snow to Flow Relationship for NF Flathead R nr Columbia Falls

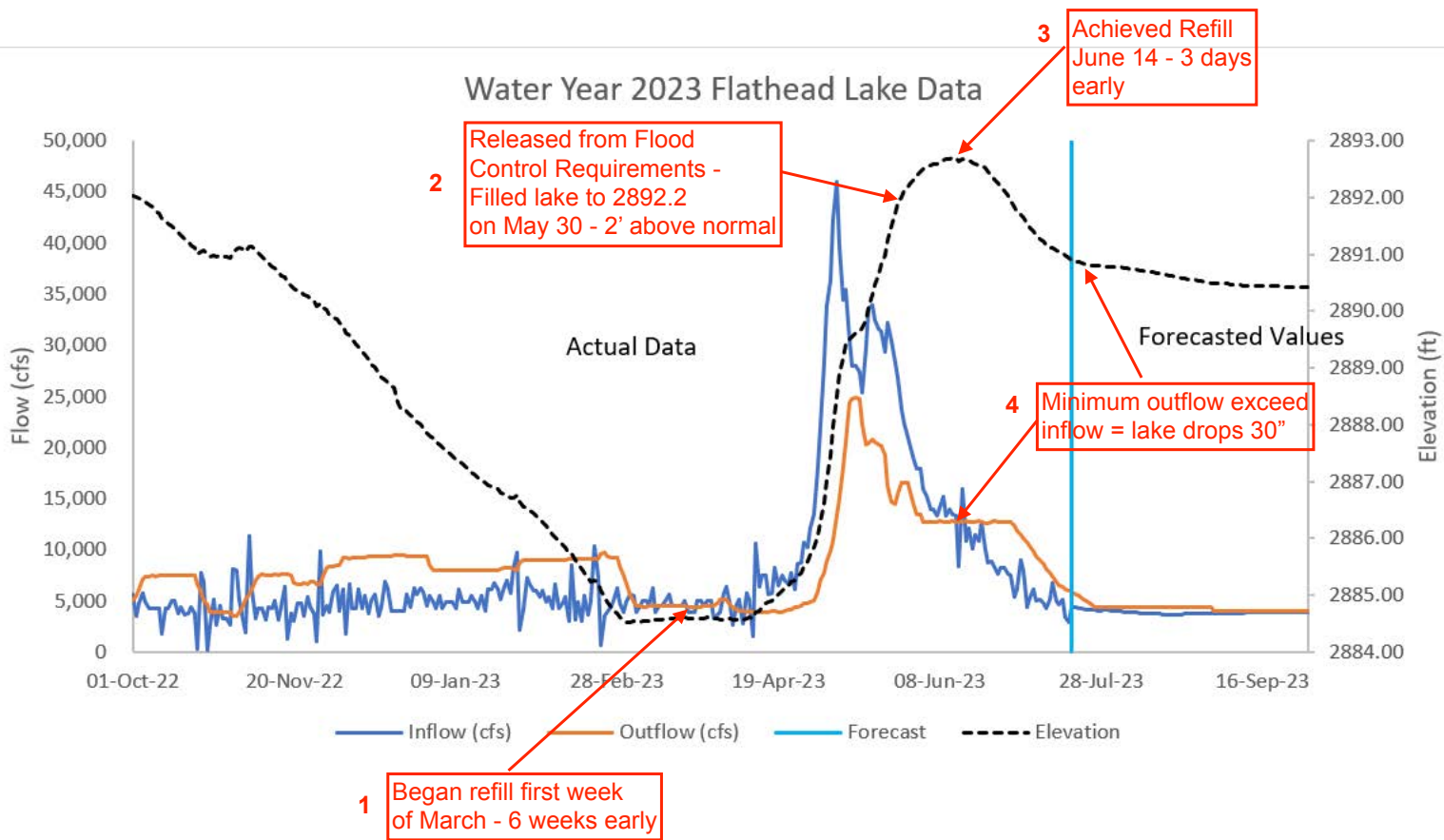


BUREAU OF RECLAMATION

Jan Apr July WY



Water Year 2023 Flathead Lake Data



Last 9 Years Warmest on Record

Global Temperature Anomaly (°C compared to the 1951-1980 average)

