

# Walker River Irrigation District

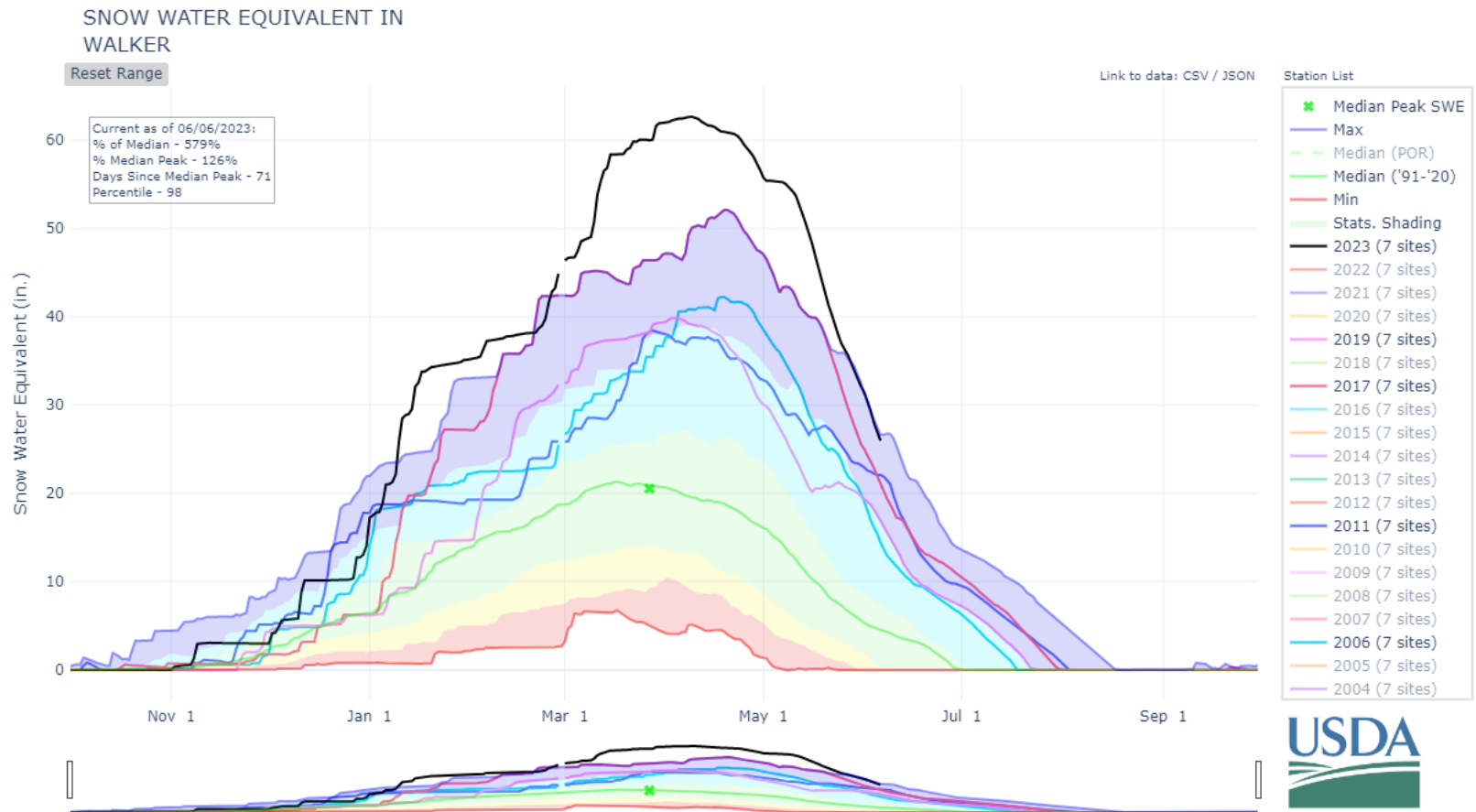
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WATER YEAR 2023 FLOOD OPERATIONS

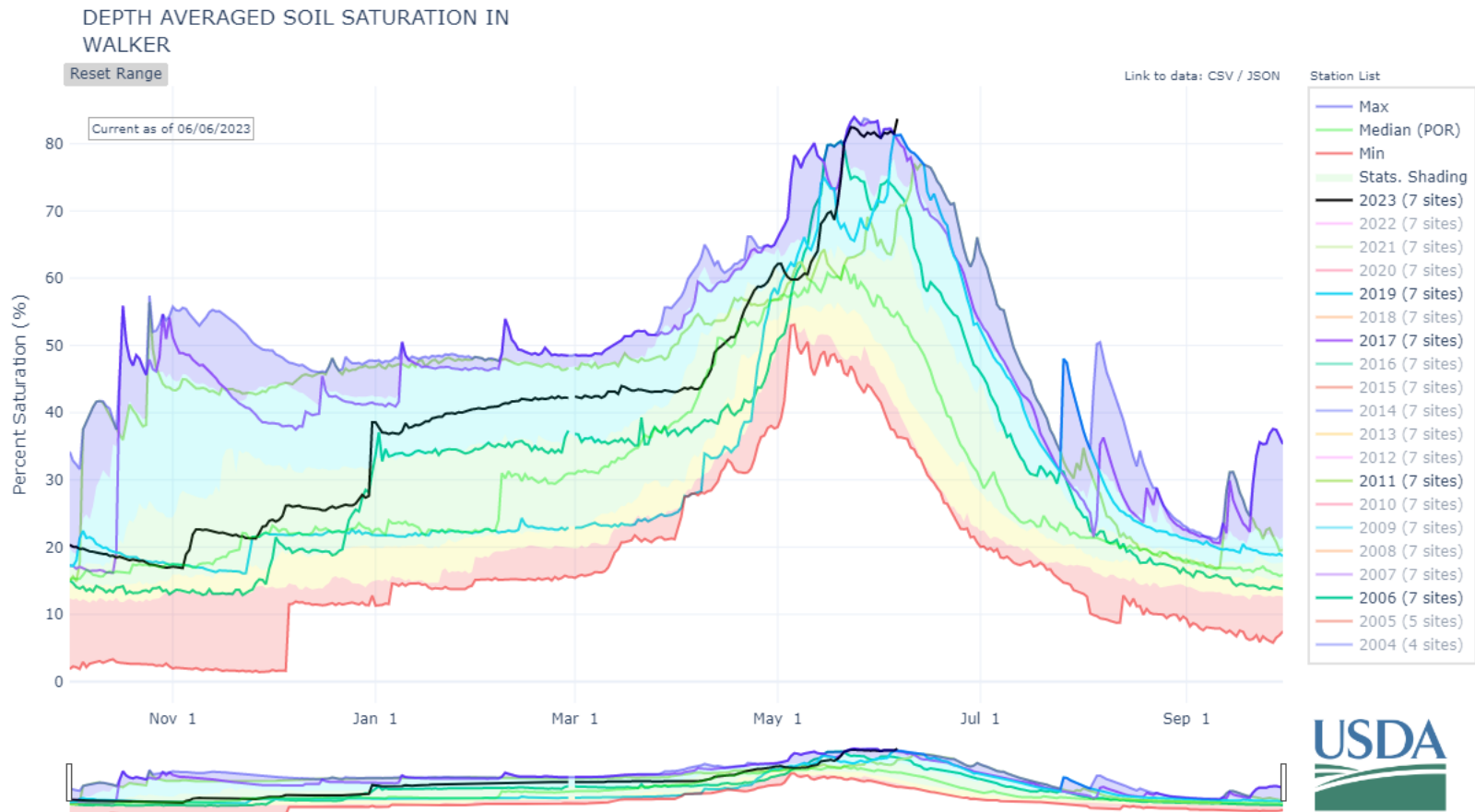


# Current Conditions and Forecasts

# Snow Water Equivalent (SWE)



# Basin Soil Moisture



# April – July Runoff Forecast

Exceedance	River Forecast Center	2017 Actual	Observed to Date
East Walker River near Bridgeport			
50% (Median)	281 TAF	208 TAF	123 TAF
25%	289 TAF		
10%	302 TAF		
West Walker River below Little Walker near Coleville			
50% (Median)	438 TAF	406 TAF	162 TAF
25%	454 TAF		
10%	461 TAF		

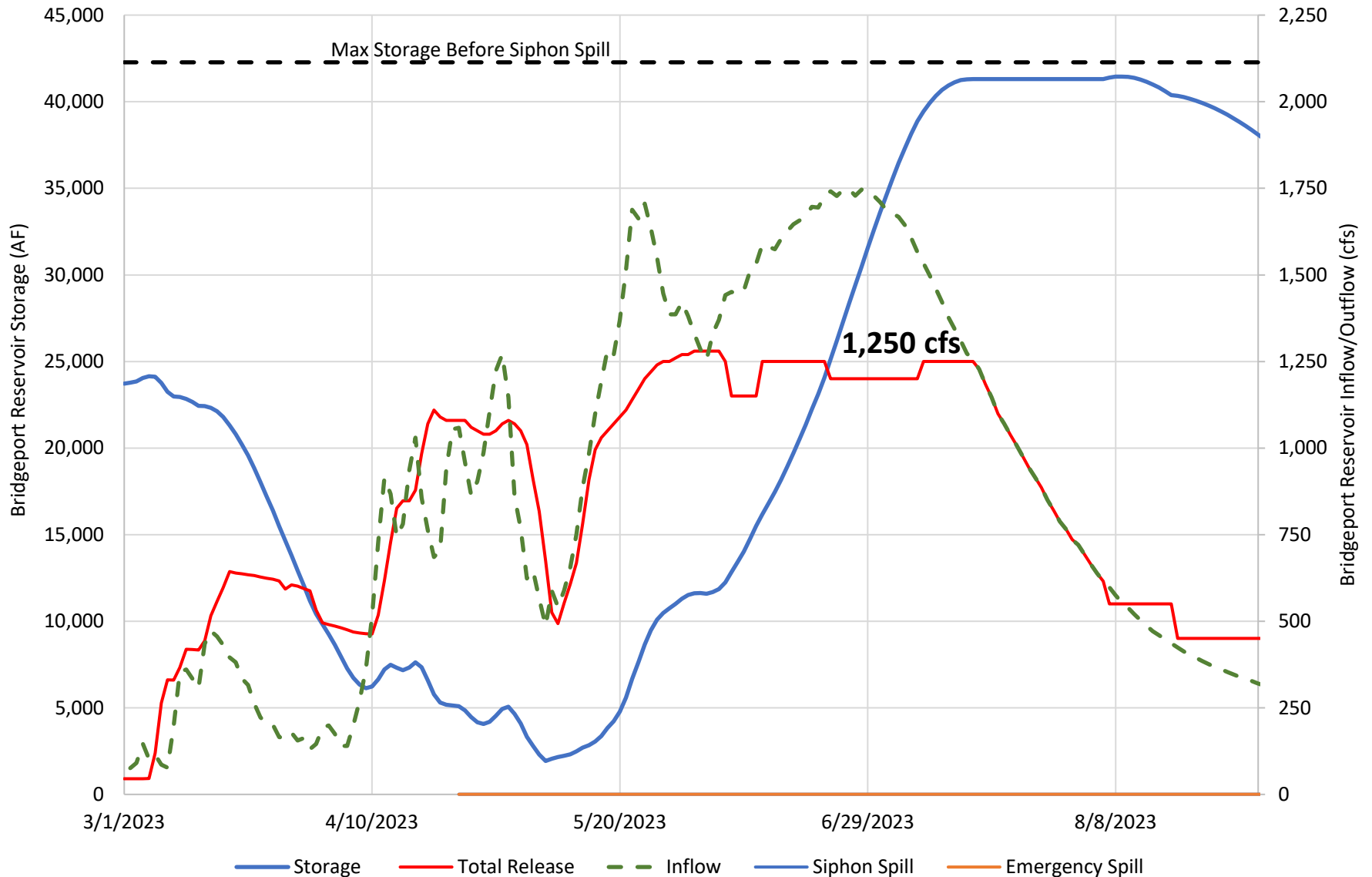
Based on 6/6/23 forecast from California Nevada River Forecast Center



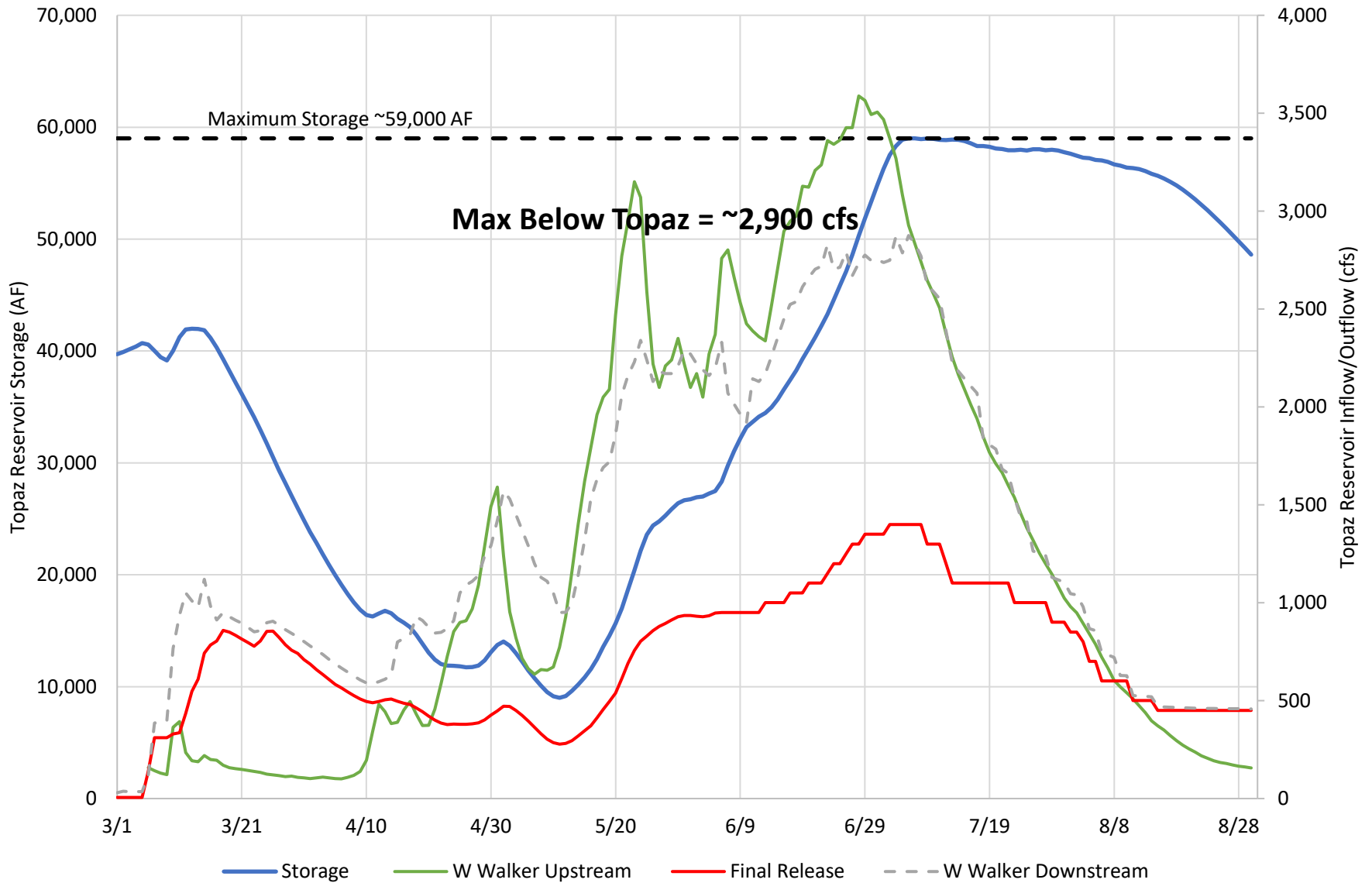


Potential Reservoir Operations – 50% Exceedance

# Bridgeport Reservoir 50% Exceedance Forecast



# Topaz Reservoir 50% Exceedance Forecast

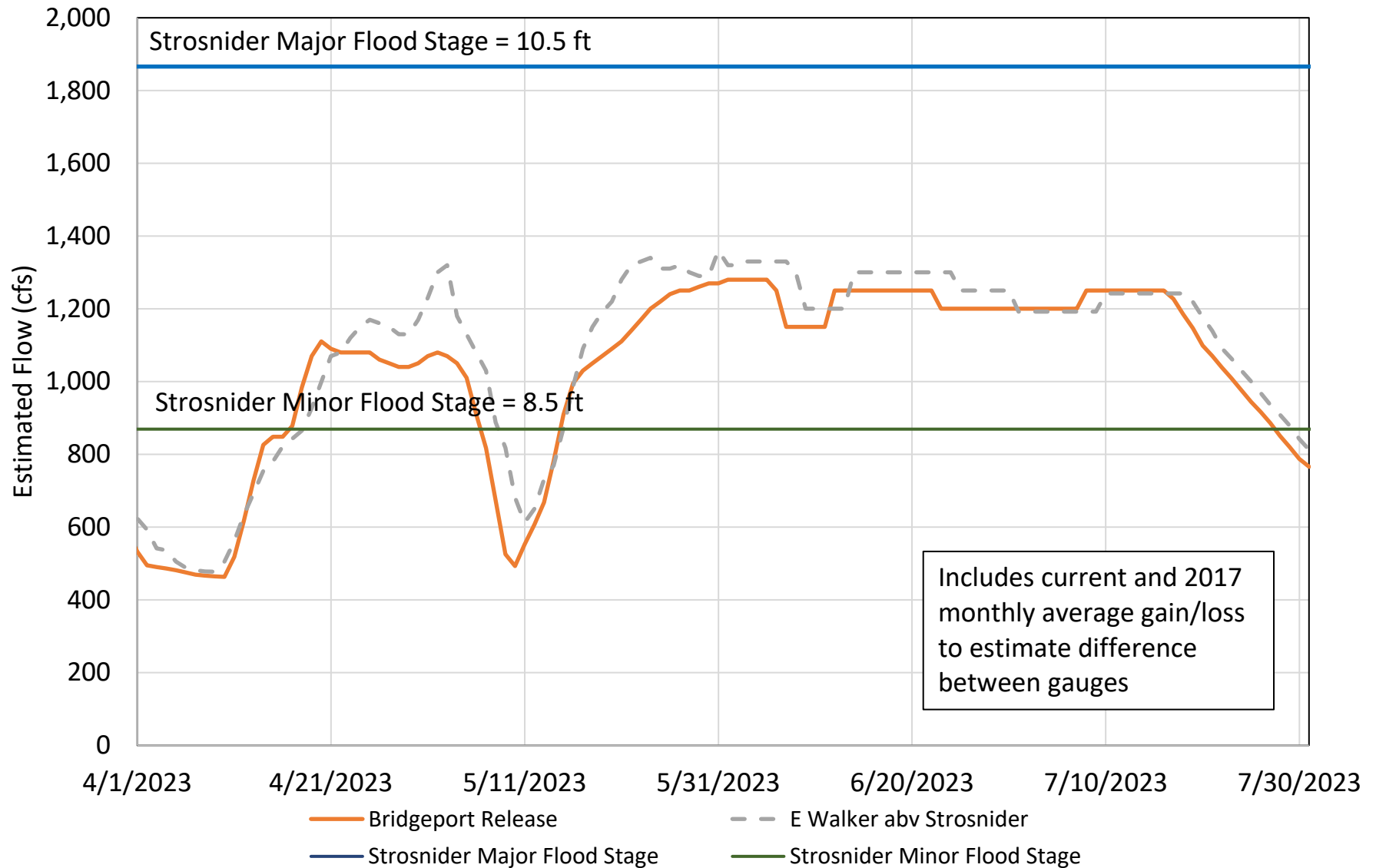




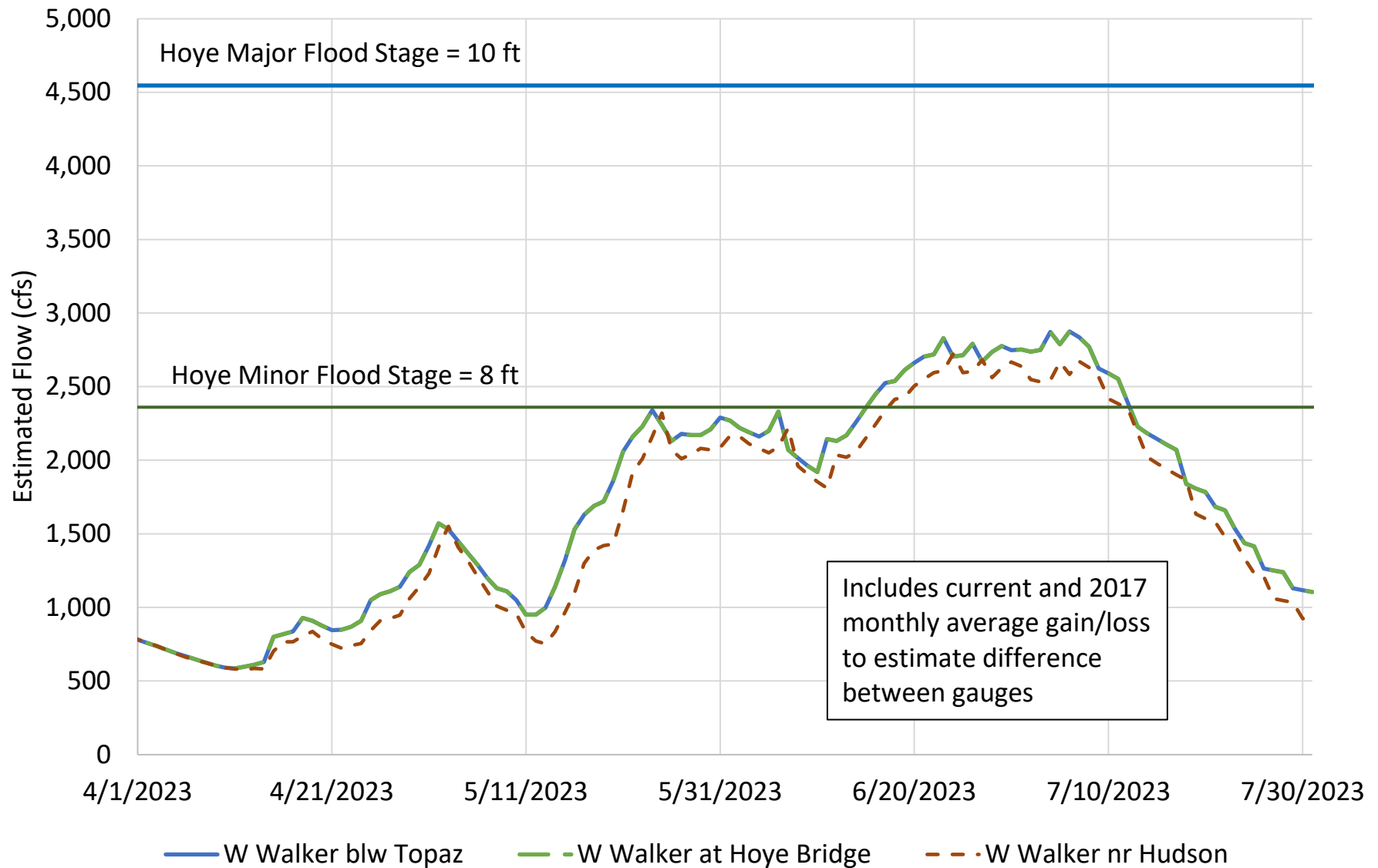


Estimated Downstream Flows – 50% Exceedance

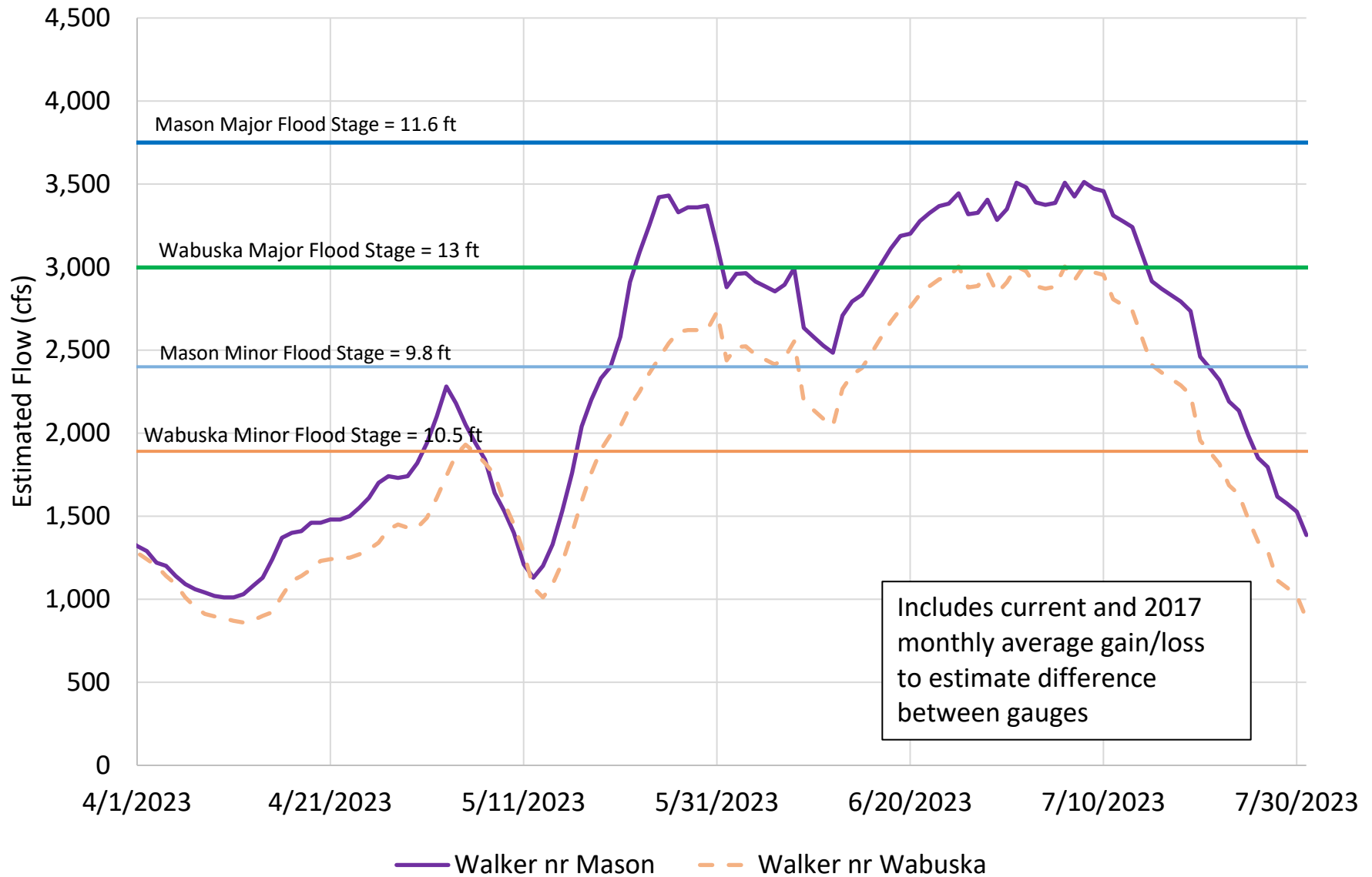
# East Walker River Flows 50% Exceedance Forecast



# West Walker River Flows 50% Exceedance Forecast



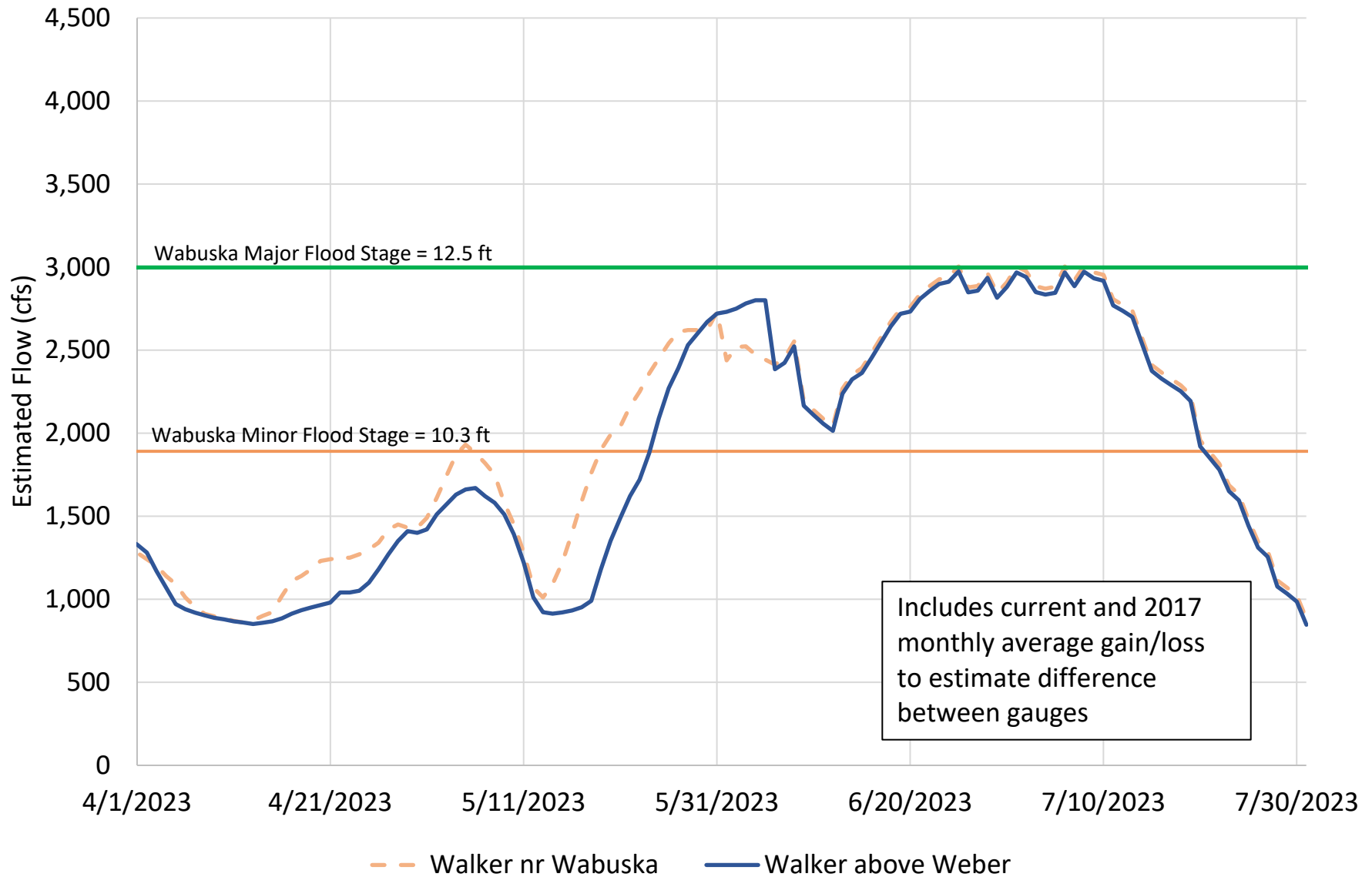
# Main Walker River Flows 50% Exceedance Forecast





# Main Walker River Flows (Wabuska to Weber)

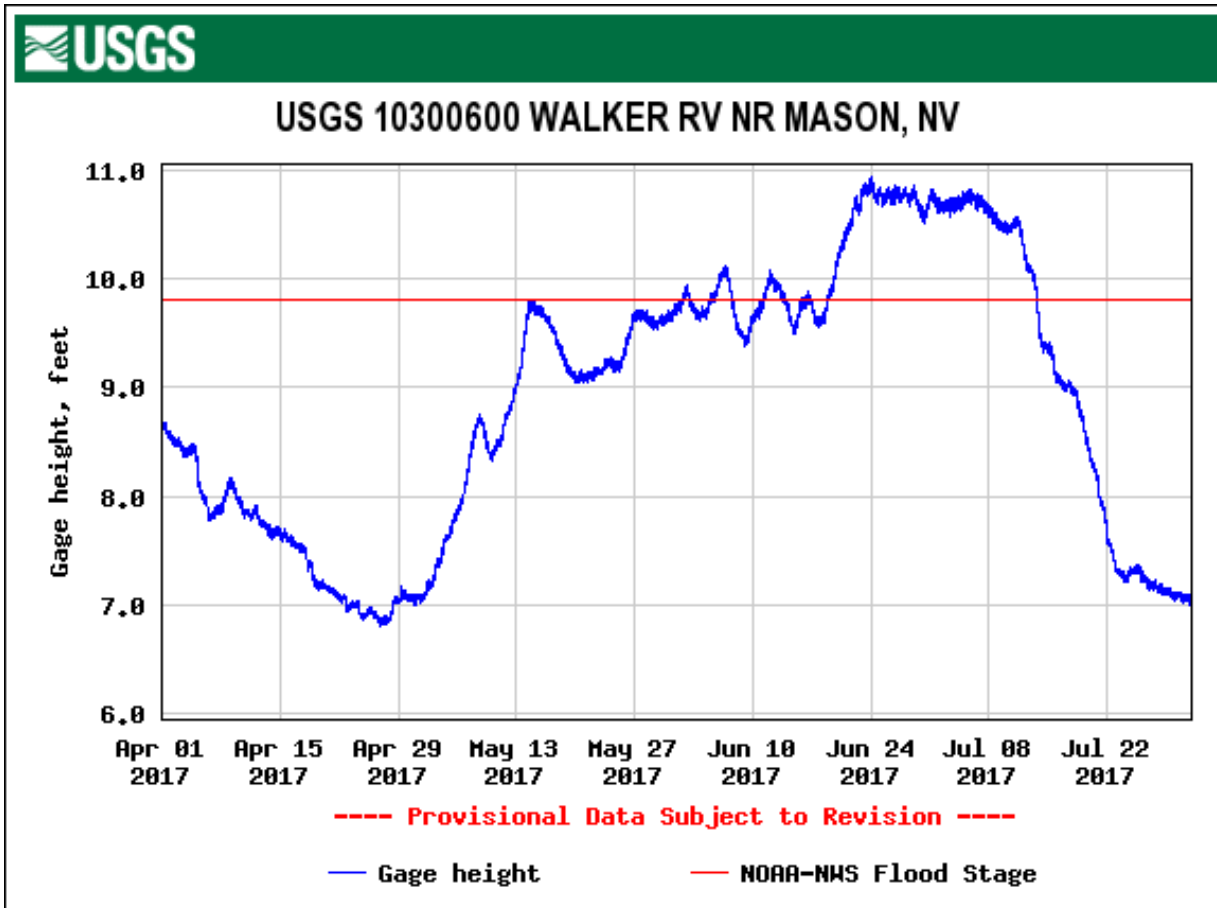
## 50% Exceedance Forecast



# Conclusions

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# Flows at Mason



April – July flows for East Walker at Bridgeport plus West Walker at Coleville total 614 TAF in 2017

- 2023 combined is 719 TAF @ 50% forecast

Gage height peaked at 10.94 feet, approximately 2,910 cfs

- Estimated max of ~3,500 cfs (~11.2 ft) during 2023 @ 50% forecast (late-June / early-July)



# Conclusion

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Effective reservoir management will help downstream conditions, but not prevent all flooding

The 50% Exceedance Forecasts conditions result in flows and operations greater than 2017

- Anticipate extended length of flood conditions as compared to 2017 (about 7 weeks of high flows)
- 2017 runoff pattern helped prevent worse conditions