

Figure 1- Analytical tools used to evaluate changes in water supply and water quality

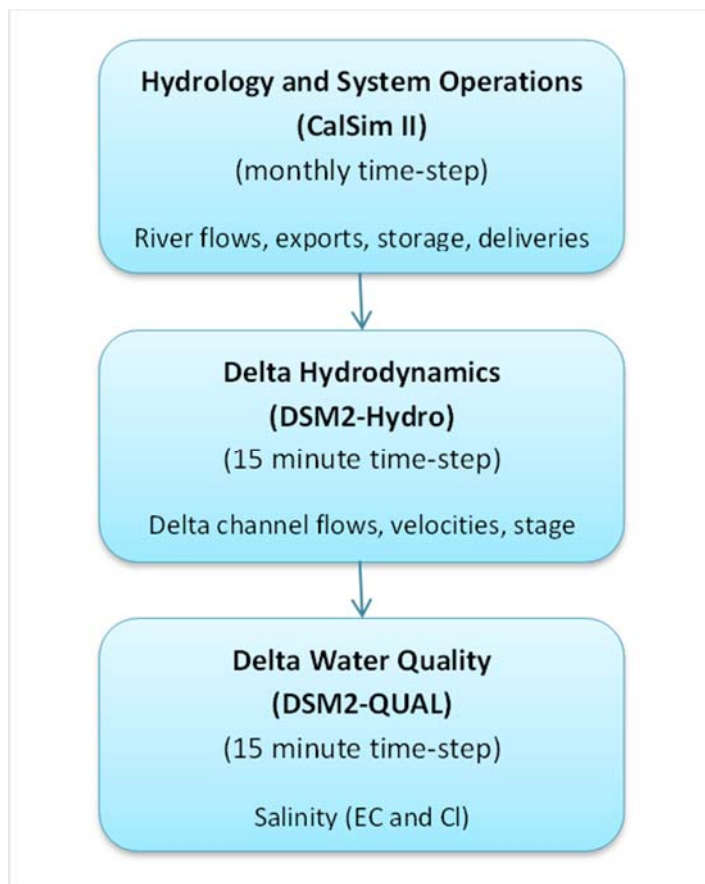


TABLE 1- Compliance Locations in ANN Based on Beneficial Use

Beneficial Use	Compliance Location
Municipal and Industrial Use	Contra Costa Canal
Municipal and Industrial Use	Banks/Jones Pumping Plants
Agriculture	Sacramento River at Emmaton
Agriculture	San Joaquin River at Jersey Point
Fish and Wildlife	Sacramento River at Collinsville

Table 2. CALSIM II Simulation Study, p. ES-2.

Performance Parameter	Dry-period average 1987-1992				Long-term average			
	Simulated	Historical	Difference		Simulated	Historical	Difference	
	taf/yr	taf/yr	taf/yr	%	taf/yr	taf/yr	taf/yr	%
SWP south-of-Delta Table A deliveries	1,930	2,030	-100	-4.9	1,810	1,790	20	1.1
CVP south-of-Delta deliveries	2,230	2,320	-90	-3.9	2,650	2,490	160	6.4
Sacramento Valley inflow to the Delta	9,700	9,670	30	0.3	19,830	19,920	-90	-0.5
Net Delta Outflow Index	5,270	5,090	180	3.5	19,070	19,690	-620	-3.1

TABLE 3- CALSIM 2015 v. 2010

Region	Update	Rational
American River	American River Flow Management Standard	Incorporation of existing regulatory standard. (2009 NMFS BiOp)
Contra Costa County	Los Vaqueros Expansion	Incorporation of existing physical feature. Capacity increased from 100 TAF to 160 TAF.
Sacramento Valley	Feather River rice decomposition demands and return flows	Update to better match existing diversion and use by non CVP-SWP water right holders on Feather River.
Sacramento Valley	Fremont Weir notch	Update to model future facility to reflect existing regulatory obligations
Sacramento Valley	American River and Sacramento River demand assumptions	Incorporation of existing upstream demand; full water rights and full contracts including Freeport Regional Water Project
Sacramento Valley	Folsom flood control improvements	Incorporation of existing physical feature
Delta	Hood minimum instream flow	Modification to improve performance of ANN when modeling proposed additional point of diversion
Delta	COA sharing	Fixed coding error to improve modeling of existing COA requirements.
Delta	Health and safety pumping limits	Incorporate recent drought year operations. 2014-2015 TUCP health and safety CVP-SWP diversion rate was a minimum of 1,500 cfs
San Joaquin River	Stanislaus River and New Melones operations consistent with FWS 2008 BiOp and 2009 NMFS BiOp	Incorporation of existing regulatory standard
San Joaquin River	Removed Vernalis Adaptive Management Program (VAMP)	Incorporation of existing regulatory standard. VAMP expired. Incorporated existing San Joaquin River WQCP obligations.
San Joaquin River	San Joaquin River Restoration Program Flows	San Joaquin River Restoration Program included qualitatively, however, releases as part of the program were not simulated because recapture/recirculation component has not been fully defined
South Delta	Update to south-of-Delta SWP demand	Incorporation of existing demand
General	Updated climate change inputs	Correction to Friant inflow adjustments; improvements to water year index adjustments for climate change
General	Software updates	Maintenance of model

Figure 2. Simulated CVP Deliveries to Settlement Contractors

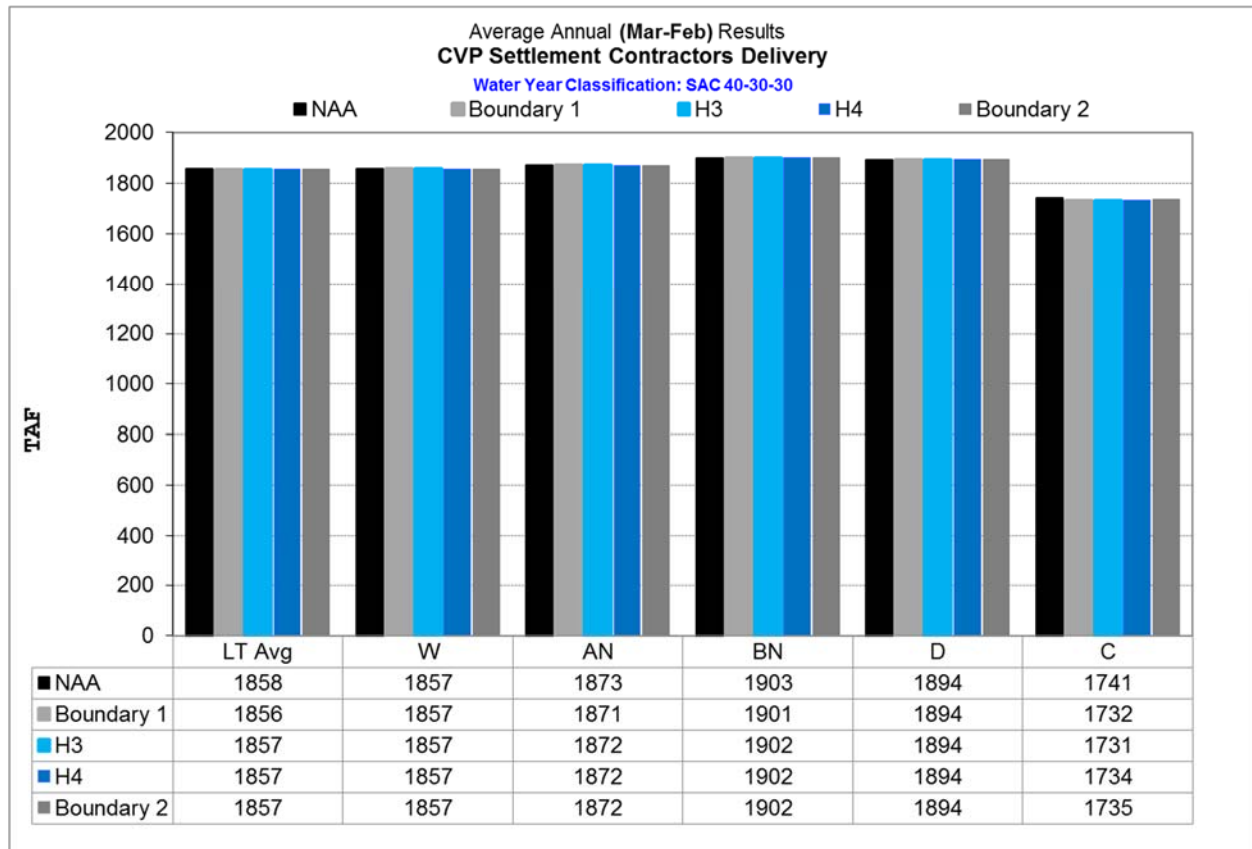


Figure 3. Simulated CVP Deliveries to North of Delta Refuges

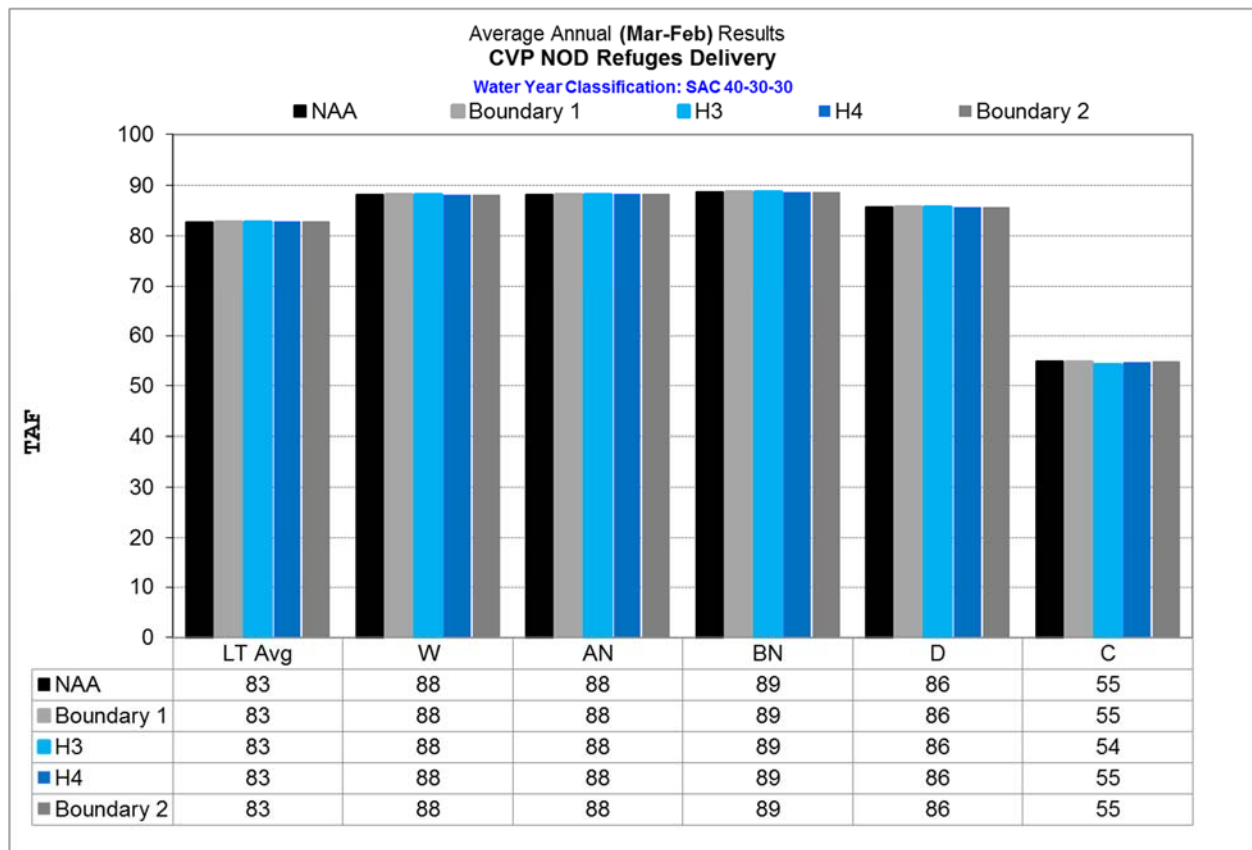


Figure 4. Simulated CVP Deliveries to Exchange Contractors

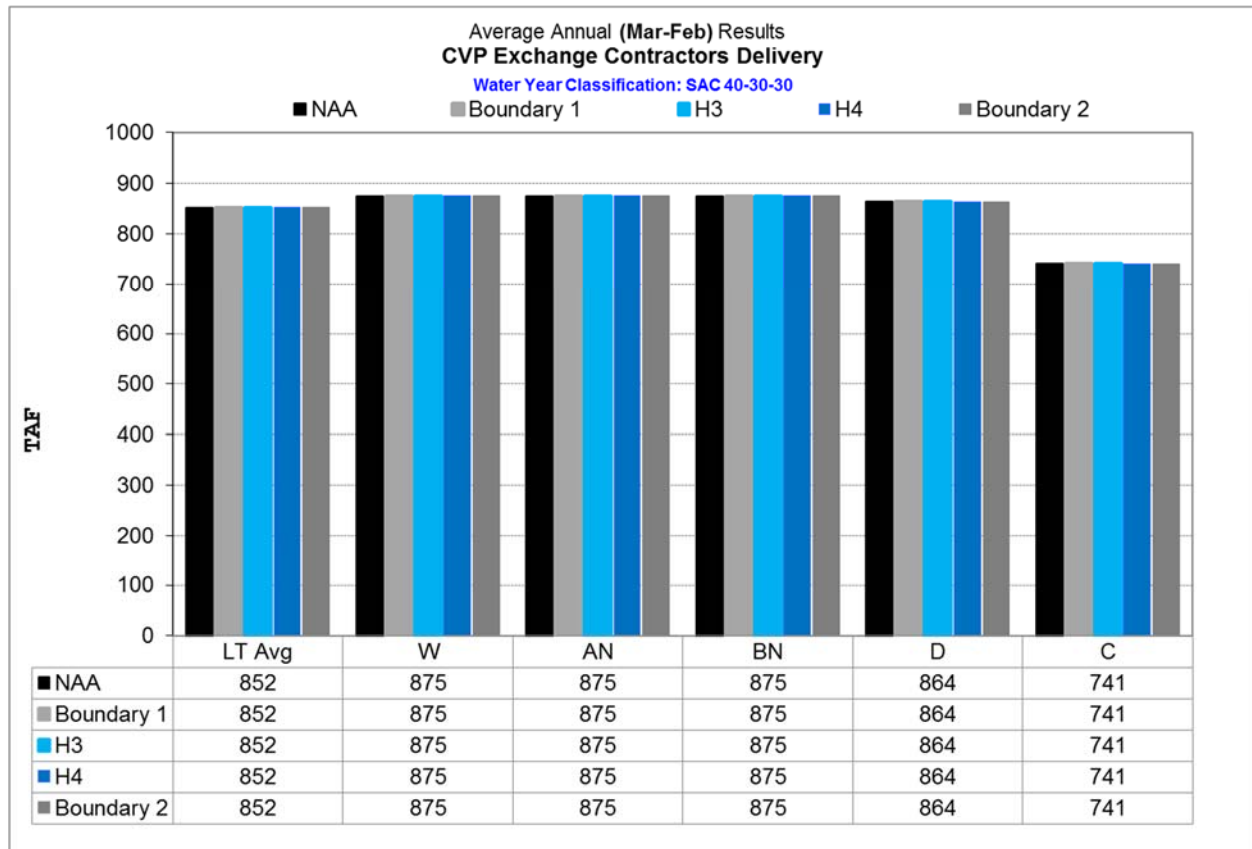


Figure 5. Simulated CVP Deliveries to South of Delta Refuges (Level 2 Demand)

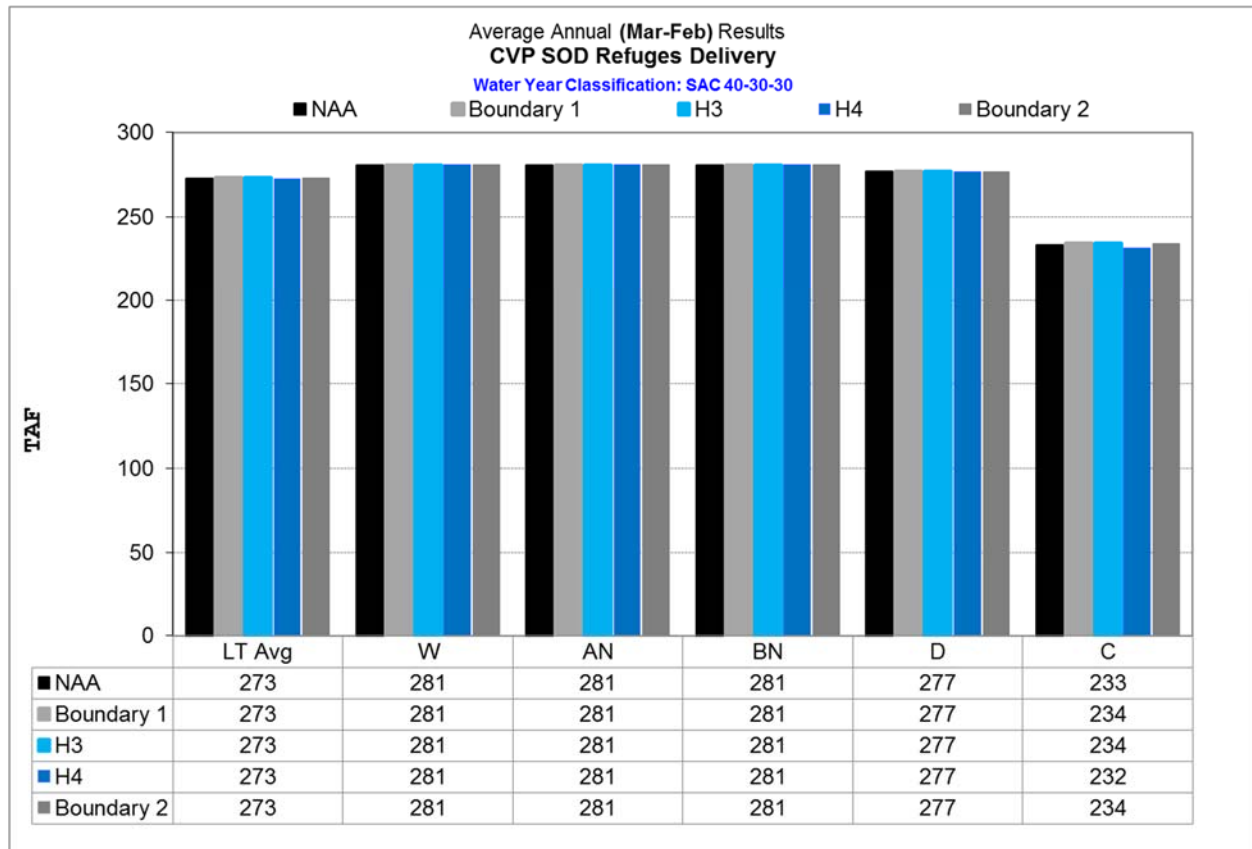


Figure 6. Simulated SWP Deliveries to Feather River Service Areas Contractors

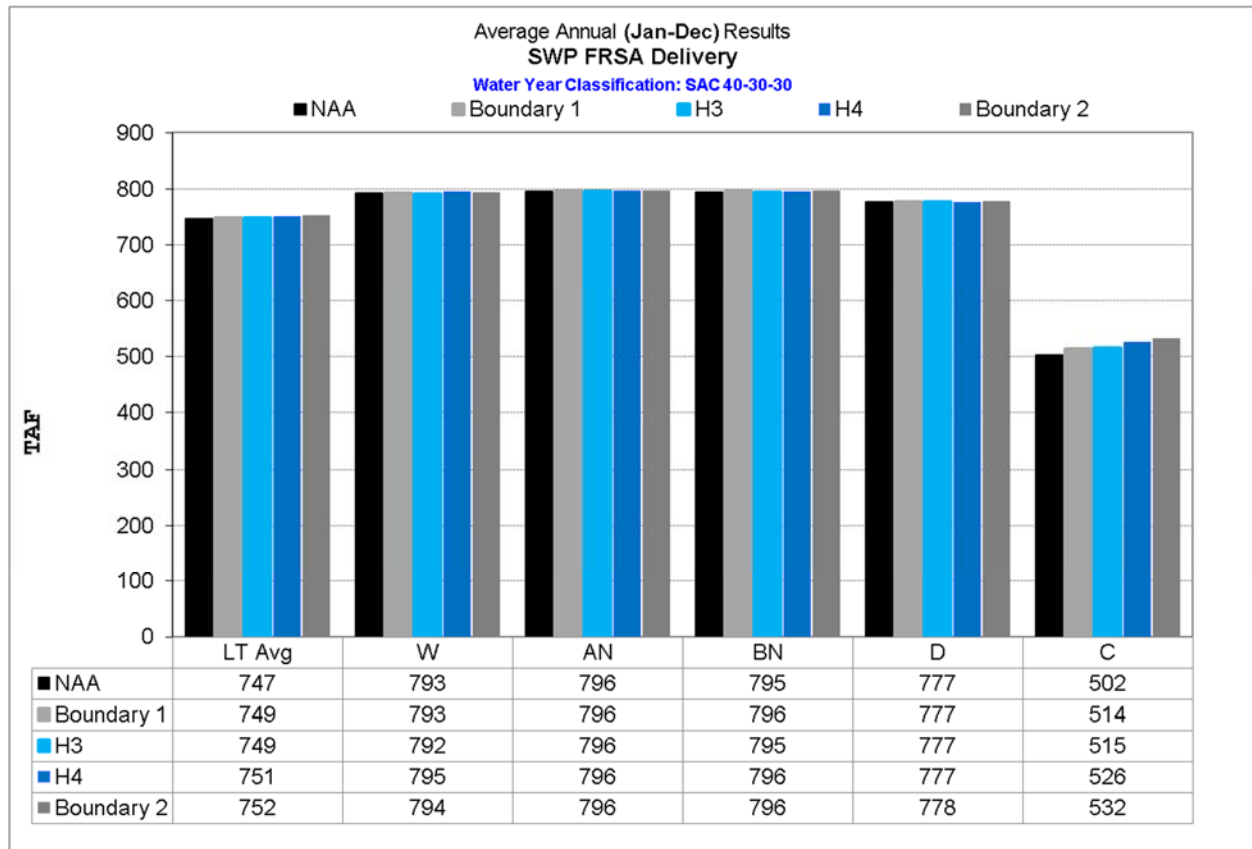


Figure 7. Simulated CVP Deliveries to Sacramento Valley Agricultural Water Service Contractors

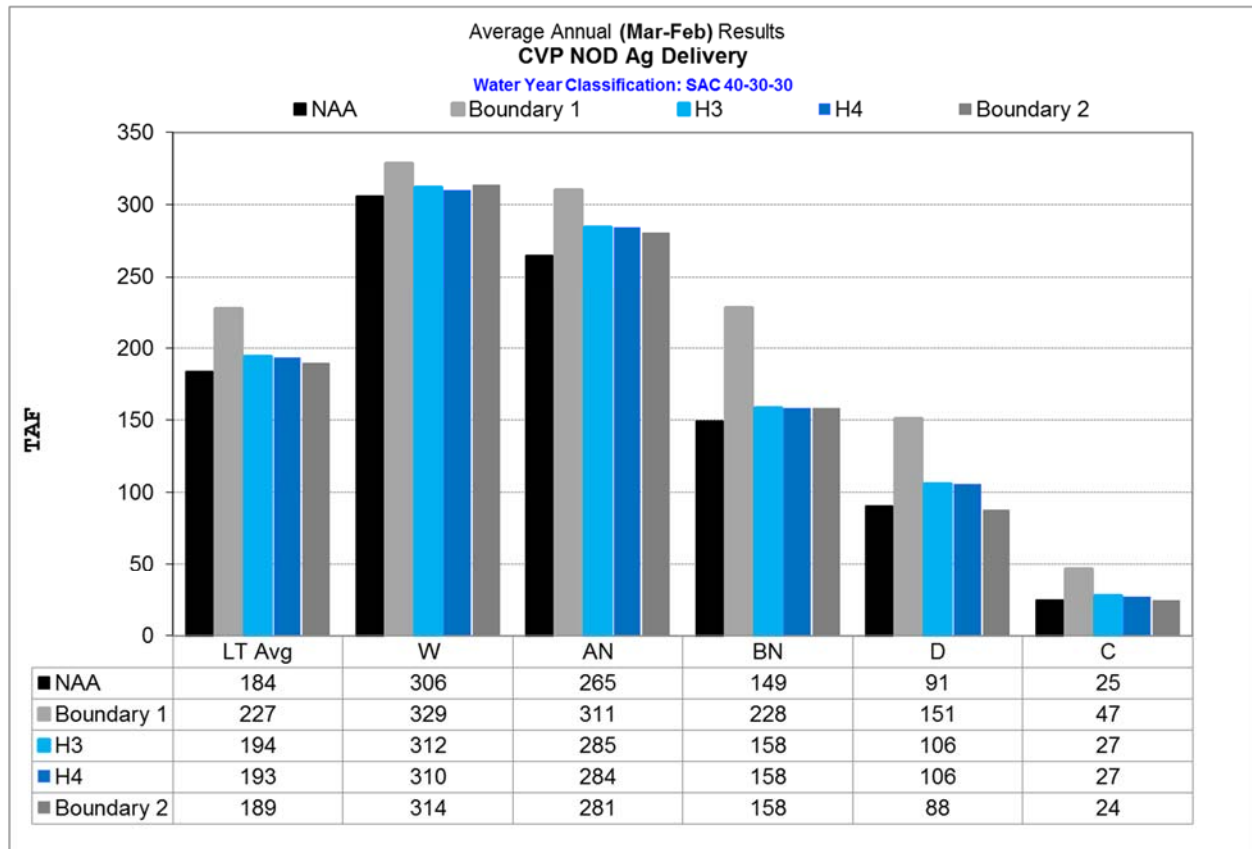


Figure 8. Simulated CVP Deliveries to Sacramento Valley Municipal and Industrial Water Service Contractors

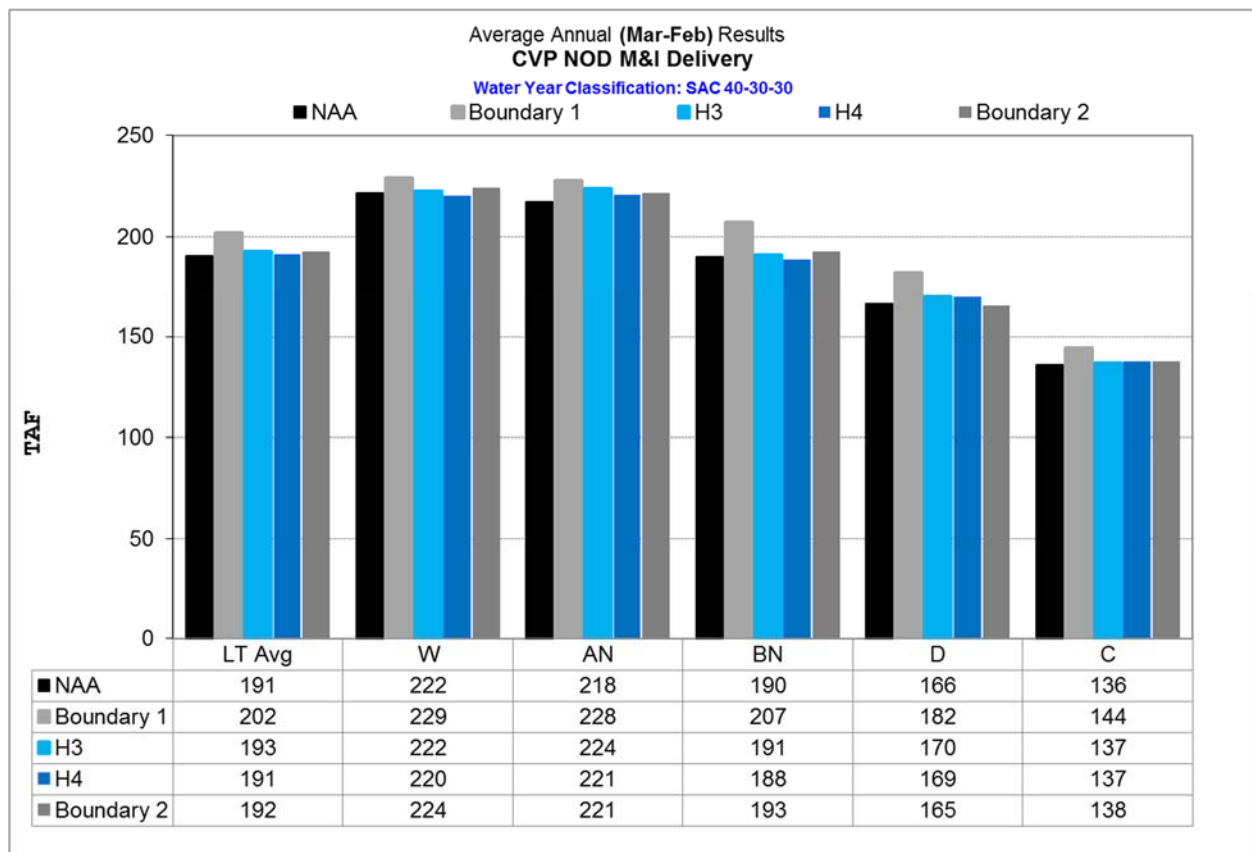


Figure 9. Simulated SWP Deliveries to North of Delta Contractors

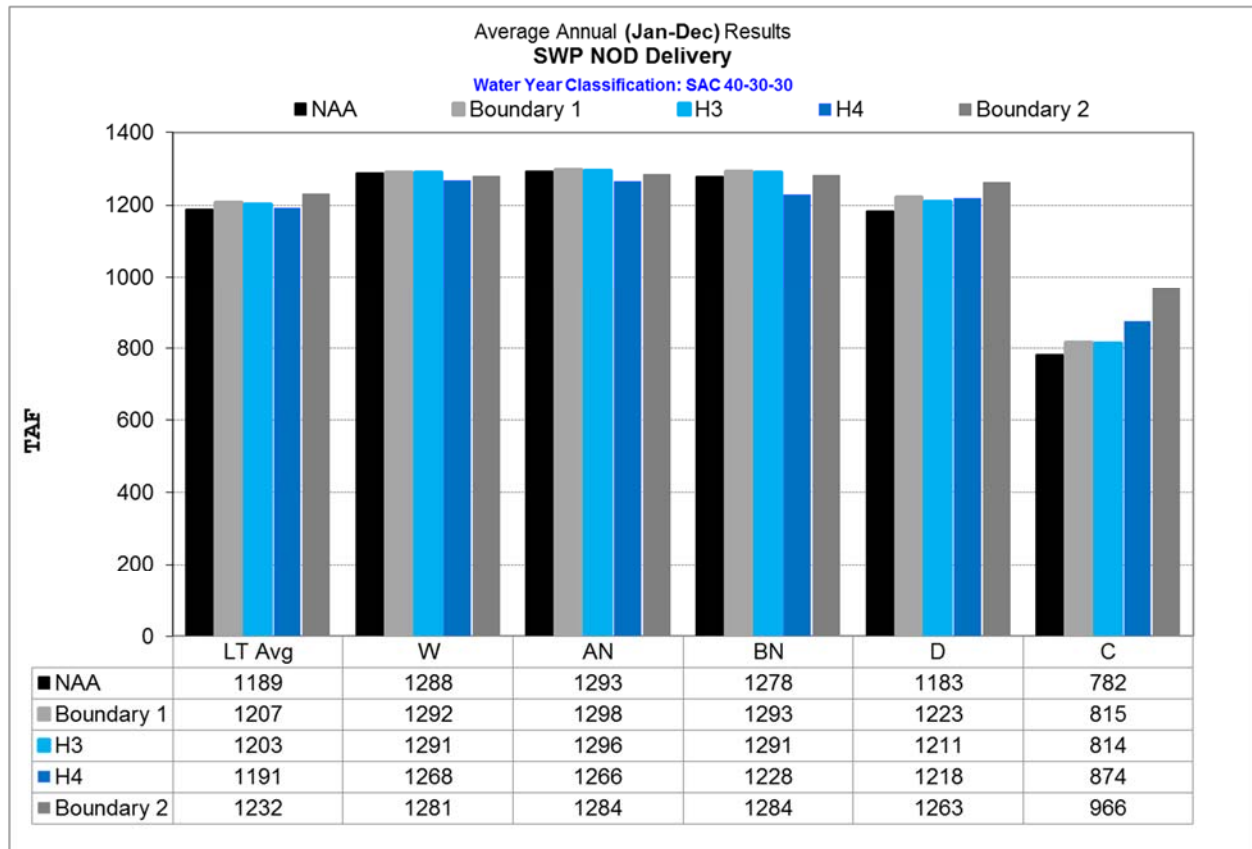


Figure 10. Simulated Combined SWP and CVP South of Delta Water Service Contractor Deliveries

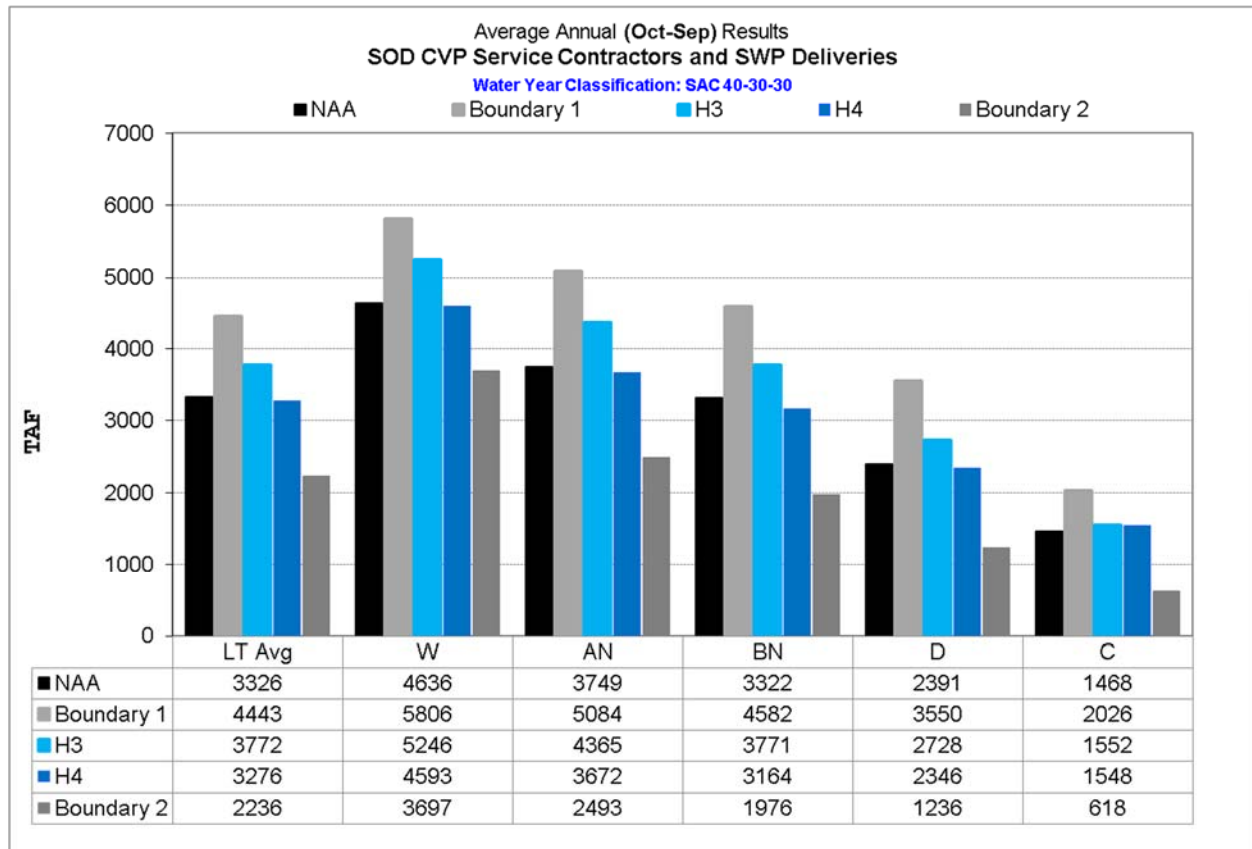


Figure 11. Simulated Combined SWP and CVP Delta Exports

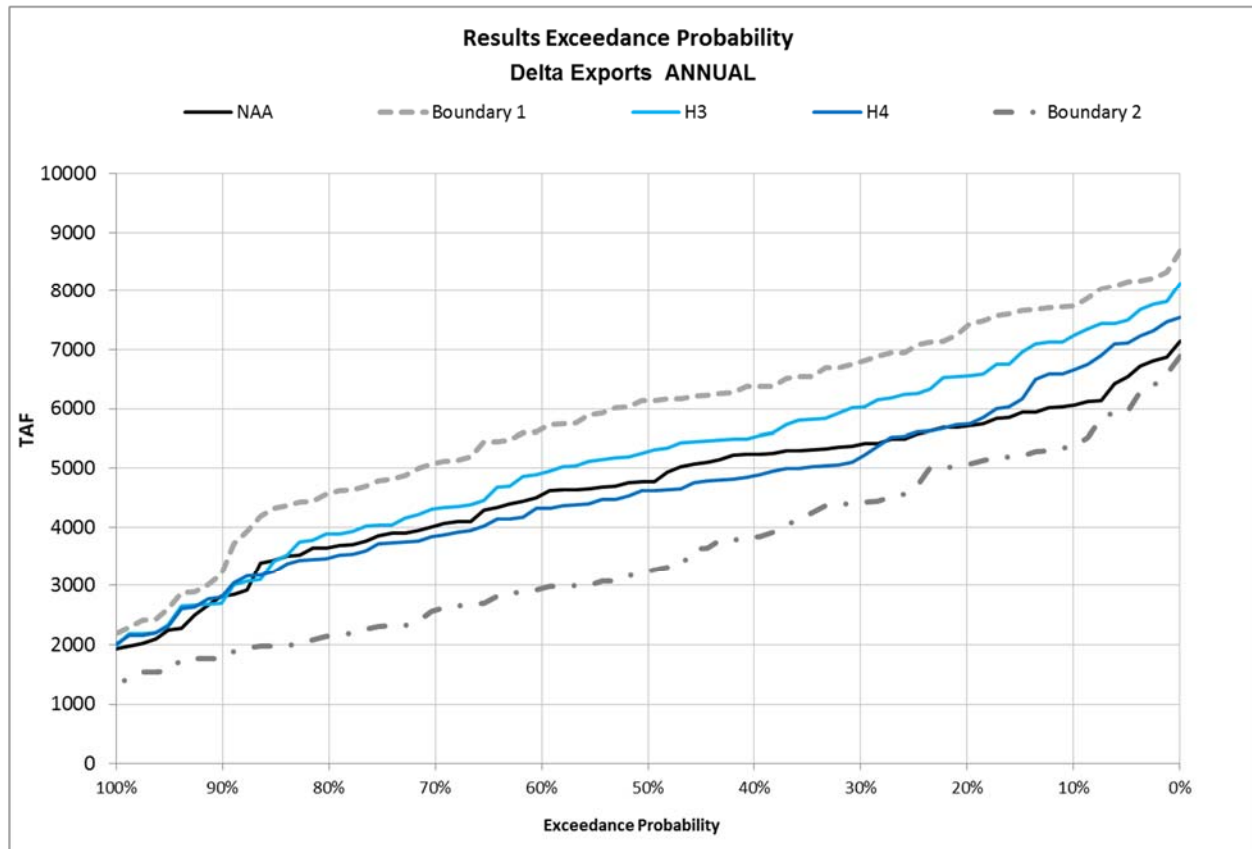


Figure 12. Simulated End of September Shasta Storage

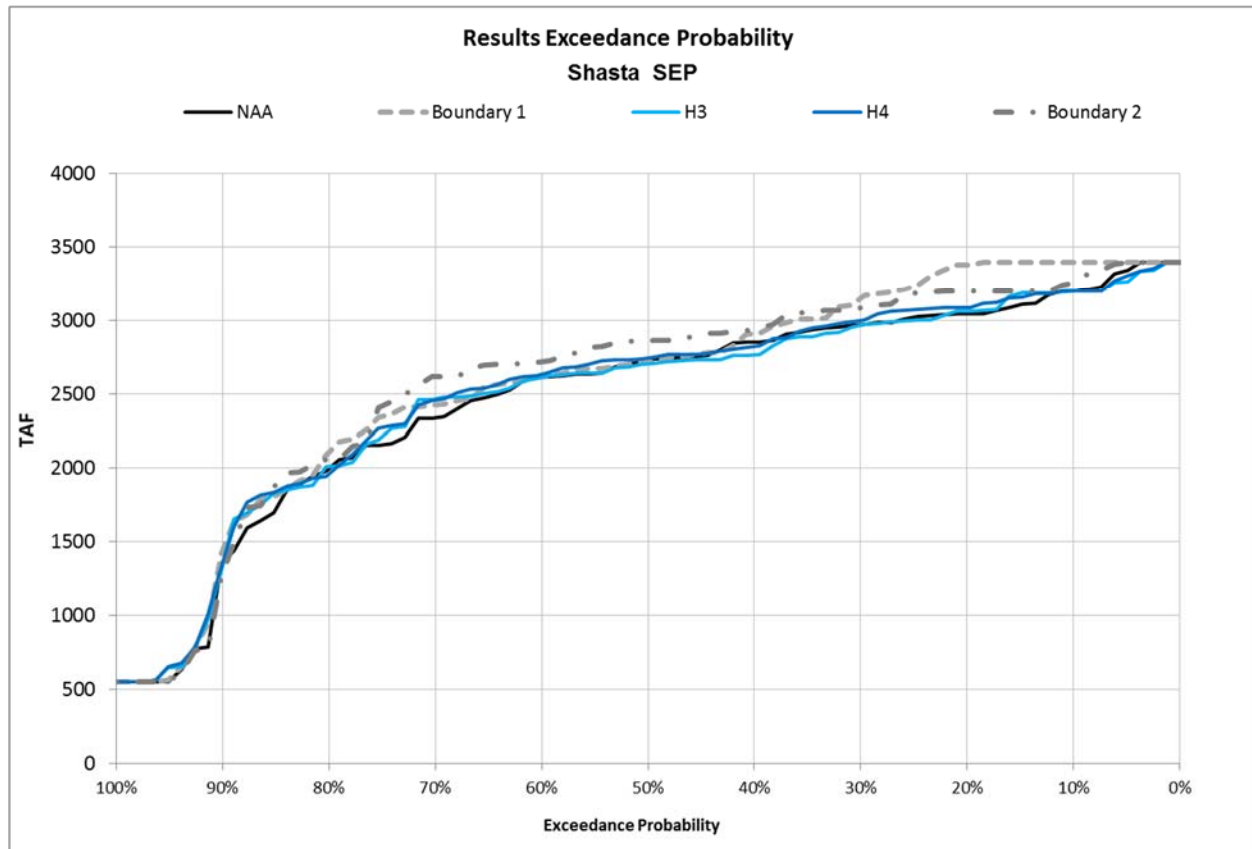


Figure 13. Simulated End of September Oroville Storage

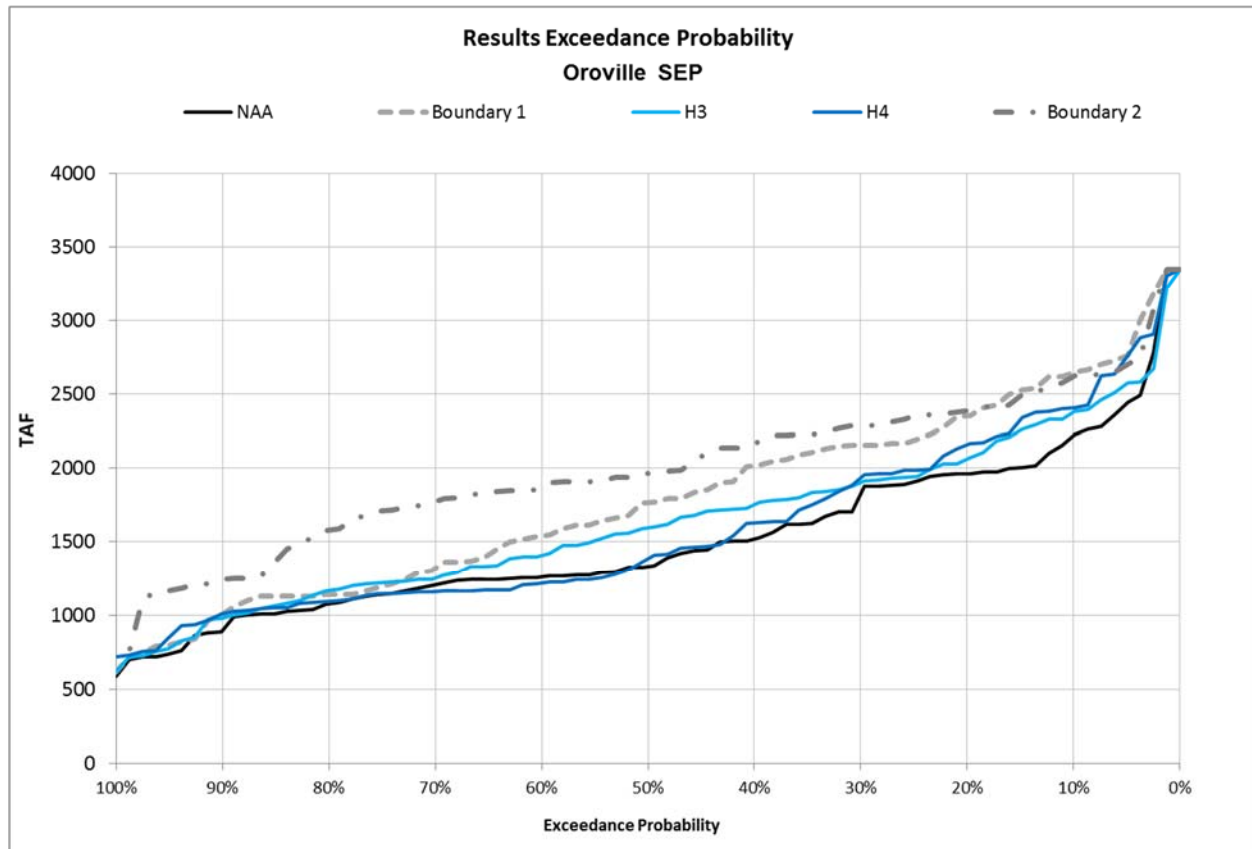


Figure 14. Simulated End of September Folsom Storage

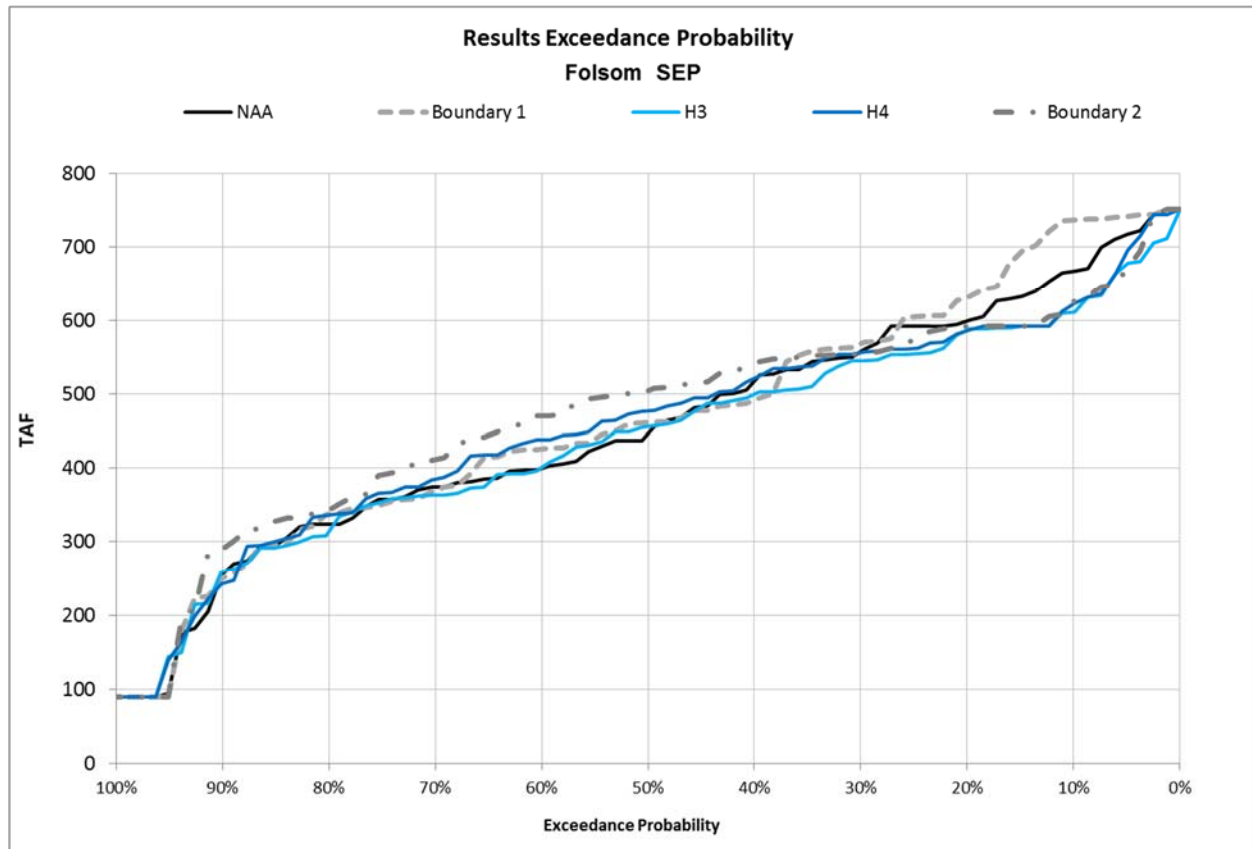


Figure 15. Simulated End of September Trinity Storage

