

August 2015 Seasonal Forecast

Barrier Assumptions

- The Emergency Drought Barrier was installed on May 31st, 2015 and will be removed October 31st, 2015.
- The Middle River barrier is installed from March 31st, 2015 to November 18th, 2015
- The Old River at Tracy Barrier is installed from April 3rd, 2015 to November 5th, 2015
- The Grant Line Canal barrier is installed from April 17th, 2015 to November 4th, 2015.
- The Head of Old River Barrier is installed from October 1st, 2015 to November 11th, 2015.

Hydrology Assumptions

A total of two scenarios were run under two different Hydrologic assumptions

90% Exceedence (90% Fall)

- Drier hydrology (90%) based on the May 1st Water Supply Index (WSI) until September with historical hydrology (90%) in the fall months (Oct-Dec)
- Operating to meet SWRCB Water Rights Decision 1641 (D-1641) objectives including SWRCB's Temporary Urgency Change Petition (TUCP)
- Freeport flow varies between approximately 6,500 and 8,500 cfs from August through December
- Projects' exports including third party transfers continue to remain relatively low for the remainder of this calendar year barring any significant precipitation events

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Summary of Results

EC and Bromide at Check Structures and Silverwood Lake

- The initial high point at Check 2 is caused by initial conditions produced by the historical aqueduct run; however, the model normalizes quickly.
- Throughout the whole forecast, the EC and Bromide remain in the 500 us/cm – 700 us/cm and 0.3 mg/L – 0.5 mg/L range, respectively.

Summary of Results (continued)

EC and Bromide at Old River locations (Bacon Island and Highway 4)

- During October, the inflows into the Delta decrease, which leads to a degradation of water quality at both Old River stations. In October, the EC increases to approximately 900 us/cm at Bacon Island and 800 us/cm at Highway 4. The bromide at both stations follows a similar trend, increasing from approximately 0.4 mg/L in August to roughly 0.55 mg/L – 0.65 mg/L in October.
- The inflow into the Delta increases from October to November which leads an improvement in water quality at both stations towards the end of November. The EC improves to approximately 650 us/cm – 700 us/cm while bromide improves to approximately 0.5 mg/L.
- Delta inflows increase from November to December; however, the water quality does not show an improvement in December. The degradation is most likely due to an increase in pumping from November to December.

EC and Bromide at Export Locations

- The trends at Banks and Jones are similar to the trends seen at the Old River Locations. The water quality at both export locations begins to degrade in September. The EC and Bromide peak around October and November, with conditions improving towards the end of November.
- Water quality degrades in December at Jones. This is most likely caused by an increase in pumping.

Allocation Analysis for 2015 (TAF)
WY 2015 based on May WSI forecast and Fall Historical Hydrology

	2014	2015												Total (MAF)	Possible Table A %
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
90% Exceedence (90% Fall)		C			SRI = 8.6			SVI = 3.8			Possible 2015 Table A Delivery =			0.858	20%
Oroville EOM Storage	1347	1444	1735	1794	1782	1565	1395	1162	1006	920	880	900	900	-	
Feather R. release (avg. cfs)	940	940	950	810	1240	2680	2300	3110	2020	1360	1120	970	940	-	
SWP Banks PP exports	260	238	221	72	30	24	18	17	58	92	18	24	29	0.841	
<i>Potential South of Delta Art. 21 Water Avail.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	
SWP San Luis EOM Storage	536	756	936	959	896	786	660	481	335	343	328	305	388	-	
SWP Contractor Deliveries	37	44	42	71	73	97	123	159	123	75	56	42	37	0.941	
90% Exceedence (99% Fall)		C			SRI = 8.6			SVI = 3.8			Possible 2015 Table A Delivery =			0.858	20%
Oroville EOM Storage	1347	1444	1735	1794	1782	1565	1395	1162	1006	920	880	886	889	-	
Feather R. release (avg. cfs)	940	940	950	810	1240	2680	2300	3110	2020	1360	1120	970	940	-	
SWP Banks PP exports	260	238	221	72	30	24	18	17	59	92	18	18	18	0.825	
<i>Potential South of Delta Art. 21 Water Avail.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	
SWP San Luis EOM Storage	536	756	936	959	896	786	660	481	336	344	329	300	272	-	
SWP Contractor Deliveries	37	44	42	71	73	97	123	159	123	75	56	42	37	0.941	