

## Tauriainen, Andrew@Waterboards

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**From:** Grober, Les@Waterboards </O=MMS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=GROBER, LES@WATERBO70C00AFE-C3A3-4DCB-8E6B-7C0EEC93F2C874D>  
**Sent:** Tuesday, February 17, 2015 1:56 PM  
**To:** Ligare, Scott@Waterboards  
**Cc:** Bartolomeo, Eleanor@Waterboards; Yeazell, Jeffrey@Waterboards; Coats, Brian@Waterboards; Mrowka, Kathy@Waterboards; Satkowski, Rich@Waterboards  
**Subject:** RE: RE: Supply Demand Curves for Delta Watershed  
**Attachments:** Estimated March Supply/Demand Numbers.msg

Jeff split out the projects demand in this later email—still have a difference between 80 taf per DAYFLOW and 141 taf. Given different methods I think this is OK.

Eleanor,

Please see how this different DAYFLOW number affects the percent delta outflow relative to fnf.

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**From:** Ligare, Scott@Waterboards  
**Sent:** Tuesday, February 17, 2015 1:46 PM  
**To:** Grober, Les@Waterboards  
**Cc:** Bartolomeo, Eleanor@Waterboards; Yeazell, Jeffrey@Waterboards; Coats, Brian@Waterboards; Mrowka, Kathy@Waterboards; Satkowski, Rich@Waterboards  
**Subject:** RE: Supply Demand Curves for Delta Watershed

Les,

The Dayflow Gross Channel Depletion estimate for March increases from 950 cfs to 1700 cfs throughout the month with a total depletion of 80.5 TAF. This term does not include diversions at Jones Pumping Plant, Banks Pumping Plant, Byron Bethany, Contra Costa, or North Bay Aqueduct.

Jeff's reported demands likely include many of these diversions which we can attribute most of the difference. The DWR Gross Channel Depletion estimate is used for all years and has not been updated since 1965, so it is likely too low in dry years as was observed last year.

--Scott

**From:** Yeazell, Jeffrey@Waterboards  
**Sent:** Tuesday, February 17, 2015 8:15 AM  
**To:** Grober, Les@Waterboards  
**Cc:** Coats, Brian@Waterboards; Bartolomeo, Eleanor@Waterboards; Mrowka, Kathy@Waterboards  
**Subject:** RE: RE: supply demand curves for delta watershed

Les,

Removing Bureau demand reduces the March Legal Delta demand to 141 taf. Our demand data set is based on diversions reported in eWRIMs, which is likely different than DWR's method to estimate demand, resulting in the discrepancy. I will confirm with Eleanor when she gets in.

-Jeff

**From:** Grober, Les@Waterboards  
**Sent:** Tuesday, February 17, 2015 7:45 AM  
**To:** Coats, Brian@Waterboards  
**Cc:** Yeazell, Jeffrey@Waterboards; Bartolomeo, Eleanor@Waterboards  
**Subject:** RE: RE: supply demand curves for delta watershed

Thanks!

**From:** Coats, Brian@Waterboards  
**Sent:** Tuesday, February 17, 2015 7:43 AM  
**To:** Grober, Les@Waterboards  
**Cc:** Yeazell, Jeffrey@Waterboards  
**Subject:** RE: RE: supply demand curves for delta watershed

Likely due to the Bureau demand included. I'm having Jeff strip that out now and will confirm with Eleanor when she gets in.

**From:** Grober, Les@Waterboards  
**Sent:** Tuesday, February 17, 2015 7:21 AM  
**To:** Coats, Brian@Waterboards  
**Cc:** Mrowka, Kathy@Waterboards; O'Hagan, John@Waterboards; Evoy, Barbara@Waterboards; Montgomery, Amanda@Waterboards; Riddle, Diane@Waterboards  
**Subject:** RE: RE: supply demand curves for delta watershed

Please check the legal delta demand of 379 taf. Have Jeff, or whoever calculated that amount to confirm with Eleanor since this figure is a lot higher than what DWR uses for estimating march demand, which I think is less than 60taf. Eleanor is checking that figure.

**From:** Coats, Brian@Waterboards  
**Sent:** Friday, February 13, 2015 8:00 PM  
**To:** Grober, Les@Waterboards  
**Cc:** Mrowka, Kathy@Waterboards; O'Hagan, John@Waterboards; Evoy, Barbara@Waterboards; Montgomery, Amanda@Waterboards; Riddle, Diane@Waterboards  
**Subject:** RE: RE: supply demand curves for delta watershed

For the entire Sac-SJ basin minus the Legal Delta, yes.

Since the majority of the supply comes from the Sacramento watershed, I think a better comparison would be to compare the Sacramento demand with the Sacramento supply since most of the export water comes from that side.

Jeff can get those numbers to you on Tuesday morning.

Brian

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**From:** Grober, Les@Waterboards  
**Sent:** Friday, February 13, 2015 2:59 PM  
**To:** Coats, Brian@Waterboards  
**Cc:** Mrowka, Kathy@Waterboards; O'Hagan, John@Waterboards; Evoy, Barbara@Waterboards; Riddle, Diane@Waterboards; Montgomery, Amanda@Waterboards  
**Subject:** RE: RE: supply demand curves for delta watershed

So at 50% March demand exceeds supply by about 1.7 million af?

**From:** Coats, Brian@Waterboards  
**Sent:** Friday, February 13, 2015 2:17 PM  
**To:** Grober, Les@Waterboards  
**Cc:** Mrowka, Kathy@Waterboards; O'Hagan, John@Waterboards; Evoy, Barbara@Waterboards; Riddle, Diane@Waterboards; Montgomery, Amanda@Waterboards  
**Subject:** FW: RE: supply demand curves for delta watershed

Here you go.

**From:** Yeazell, Jeffrey@Waterboards  
**Sent:** Friday, February 13, 2015 1:31 PM  
**To:** Coats, Brian@Waterboards  
**Subject:** RE: supply demand curves for delta watershed

Brian,

The March 2015 FNF Forecasts for the 10 stations in the Sacramento and San Joaquin watersheds are:

50% FNF Forecast: 2,393 taf

90% FNF Forecast: 1,714 taf

The March 4-year average total demand for the combined Sacramento/San Joaquin watersheds exclusive of the Legal Delta is 4,116 taf.

The March 4-year average total demand for the Legal Delta is 379 taf.

-Jeff