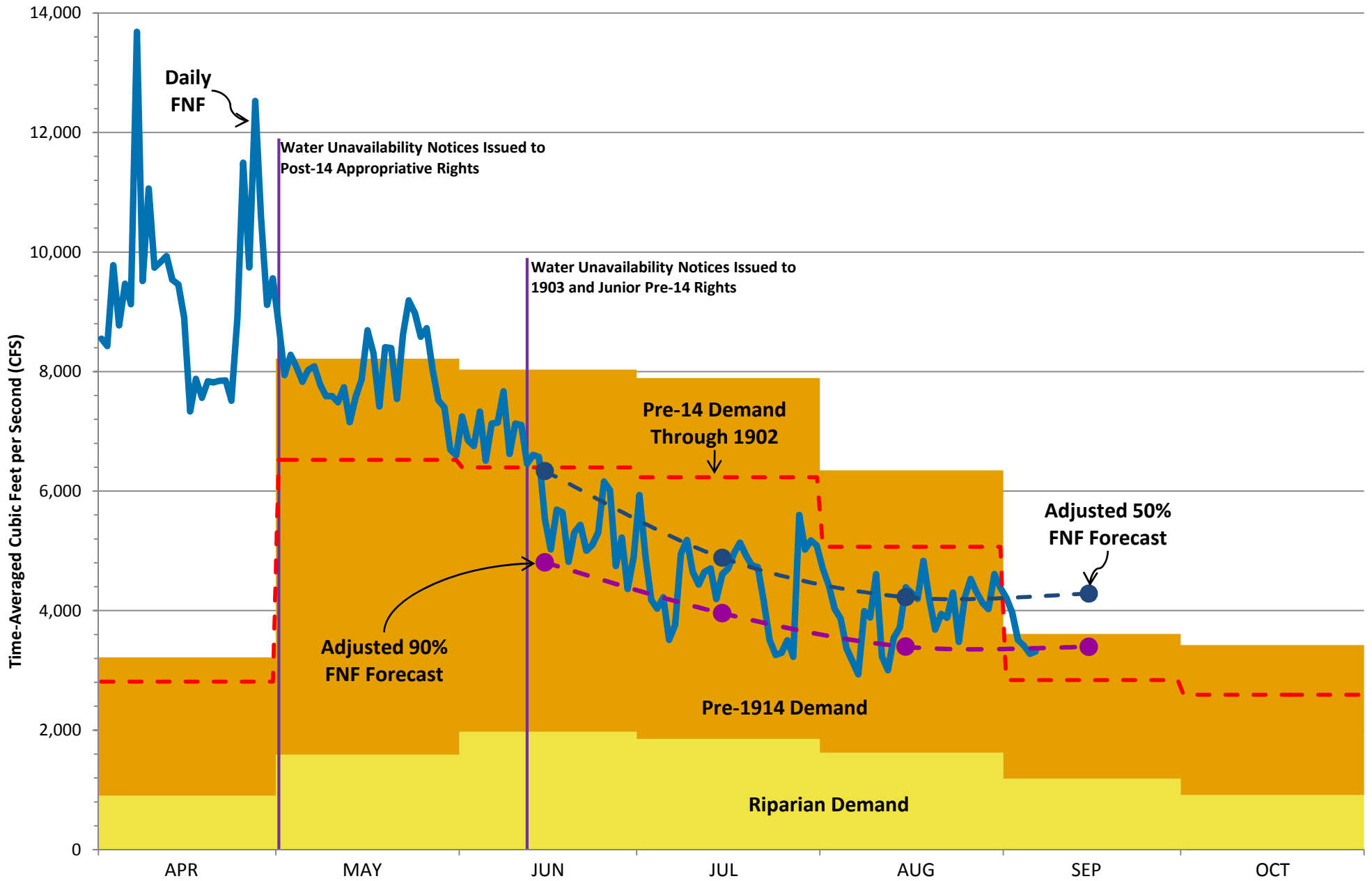


# 2015 Sacramento River Basin Senior Supply/Demand Analysis With North Delta Demand



See following page for additional information.

## **Additional Information For Supply/Demand Graphs**

### **2015 Combined Sacramento/San Joaquin River Basin Senior Supply/Demand Analysis:**

Daily Full Natural Flow (FNF) from CDEC Stations BND, ORO, YRS, FOL, TLG, MRC, GDW, MIL, MKM, and MHB, current through 9/6/2015.

Monthly Adjusted FNF Forecast points include DWR's May 2015 FNF Forecasts for BND, ORO, YRS, FOL, MIL, GDW, LGR, EXC, MHB, and PAR, and estimated FNF of minor streams for the 50% and 90% exceedance levels. DWR does not provide 90% exceedance values for MHB and PAR; therefore, the available 50% exceedance values were added to the 90% exceedance forecast values. Minor stream FNFs were obtained from DWR's May 2007 Unimpaired Flow Data report, tables UF 1, UF 2, UF 3, UF 4, UF 5, UF 7, UF 10, and UF 17. Water year 1977 was used to reflect similarities in snowpack conditions.

Delta Riparian Demand includes Riparian-only and combined Riparian/Pre-14 demand for both statements reporting under the Informational Order and those not. Basin Riparian Demand includes Riparian-only and combined Riparian/Pre-14 demand for statements that did not report under the Order, and Riparian-only portion of the demand for statements that did report under the Order.

Delta Pre-14 Demand includes Pre-14-only demand. Pre-14 Demand outside of the Delta includes demand from Pre-14-only statements that did not report under the Informational Order, and the Pre-14-only portion of the demand for statements that did report under the Order.

Return flows were added to the 50% and 90% Adjusted FNF Forecast values as follows: For the San Joaquin Watershed, a percentage of the Riparian demand as used in the 1977 Drought Report (20% in April, 10% in May & June, and 0% in July, August, & September). For the Delta contribution, an assumed 40% of the prorated Riparian and Pre-14 demand was used as return flow.

### **2015 Sacramento River Basin Senior Supply/Demand Analysis With North Delta Demand:**

Daily Full Natural Flow (FNF) from CDEC Stations BND, ORO, YRS, and FOL, current through 9/6/2015.

Monthly Adjusted FNF Forecast points include DWR's May 2015 FNF Forecasts for BND, ORO, YRS, and FOL, and estimated FNF of minor streams for the 50% and 90% exceedance levels. Minor stream FNFs were obtained from DWR's May 2007 Unimpaired Flow Data report, Tables UF 1 through UF 5, UF 7, and UF 10. Water year 1977 was used to reflect similarities in snowpack conditions.

Demand from the Putah and Cache Creek Watersheds was removed for this scenario.

Return flows were added to the three Adjusted FNF Forecast values as follows: For the Delta contribution, an assumed 40% of the prorated Riparian and Pre-14 demand was used as return flow.

### **2015 Sacramento River Basin Senior Supply/Demand Analysis With Proportional Delta Demand:**

Daily Full Natural Flow (FNF) from CDEC Stations BND, ORO, YRS, and FOL, current through 9/6/2015.

Monthly Adjusted FNF Forecast points include DWR's May 2015 FNF Forecasts for BND, ORO, YRS, and FOL, and estimated FNF of minor streams for the 50% and 90% exceedance levels. Minor stream FNFs were obtained from DWR's May 2007 Unimpaired Flow Data report, Tables UF 1 through UF 5, UF 7, and UF 10. Water year 1977 was used to reflect similarities in snowpack conditions.

Demand includes Legal Delta demand in proportion to the Sacramento River's contribution to the combined Sacramento/San Joaquin 90% FNF inflow to the Delta. The distribution of the Delta water right demand based on proportional inflows from stream systems is only for this curtailment analysis, and does not represent a legal or policy position of the State Water Board.

Return flows were added to the three Adjusted FNF Forecast values as follows: For the Delta contribution, an assumed 40% of the prorated Riparian and Pre-14 demand was used as return flow.

### **2015 San Joaquin River Basin Senior Supply/Demand Analysis With Proportional Delta Demand:**

Daily Full Natural Flow (FNF) from CDEC Stations TLG, MRC, GDW, MIL, MHB, and PAR, current through 9/6/2015.

Monthly Adjusted FNF Forecast points include DWR's May 2015 FNF Forecasts for GDW, LGR, EXC, MIL, MHB, and PAR, and estimated FNF of minor streams for the 50% and 90% exceedance levels. DWR does not provide 90% exceedance values for MHB and PAR; therefore, the available 50% exceedance values were added to the 90% exceedance forecast values. Minor stream FNF was obtained from DWR's May 2007 Unimpaired Flow Data report, table UF 17. Water year 1977 was used to reflect similarities in snowpack conditions.

Demand includes Legal Delta demand in proportion to the San Joaquin River's contribution to the combined Sacramento/San Joaquin 90% FNF inflow to the Delta. The distribution of the Delta water right demand based on proportional inflows from stream systems is only for this curtailment analysis, and does not represent a legal or policy position of the State Water Board.

Return flows were added to the 50% and 90% Adjusted FNF Forecast values as follows: For the San Joaquin Watershed, a percentage of the Riparian demand as used in the 1977 Drought Report (20% in April, 10% in May & June, and 0% in July, August, & September). For the Delta contribution, an assumed 40% of the prorated Riparian and Pre-14 demand was used as return flow.