

Deirdre Des Jardins

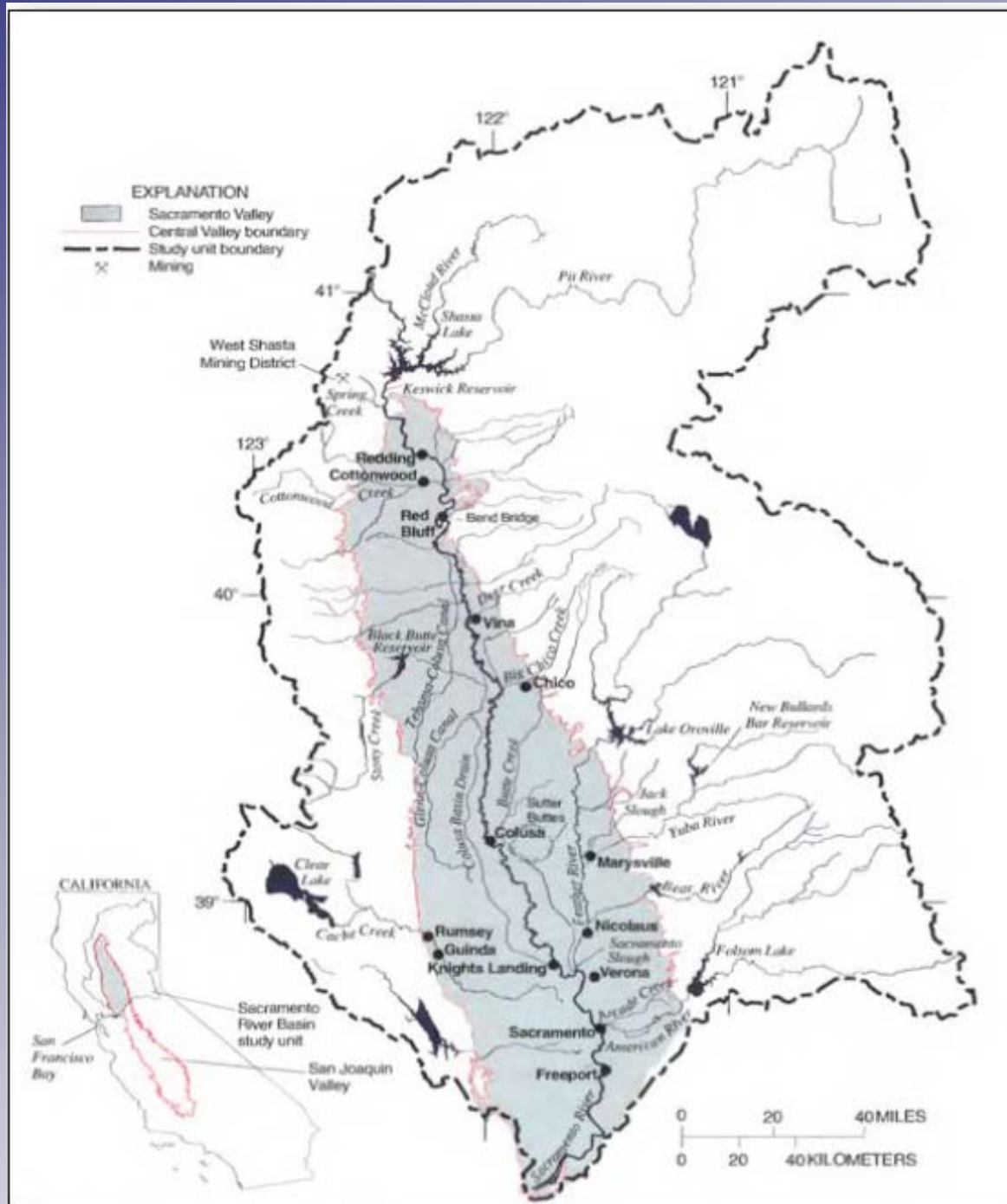
California Water Research

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How much STORED water is needed
for salinity control in the summer and fall?

Look at conditions last summer and fall

- Post-1914 water rights curtailment
- Required bypass of all inflows to project reservoirs (1927 & later diversion permits)
- Required supplemental releases of stored water to offset depletions by settlement contractors



Total Delta instream / natural inflow (cfs)

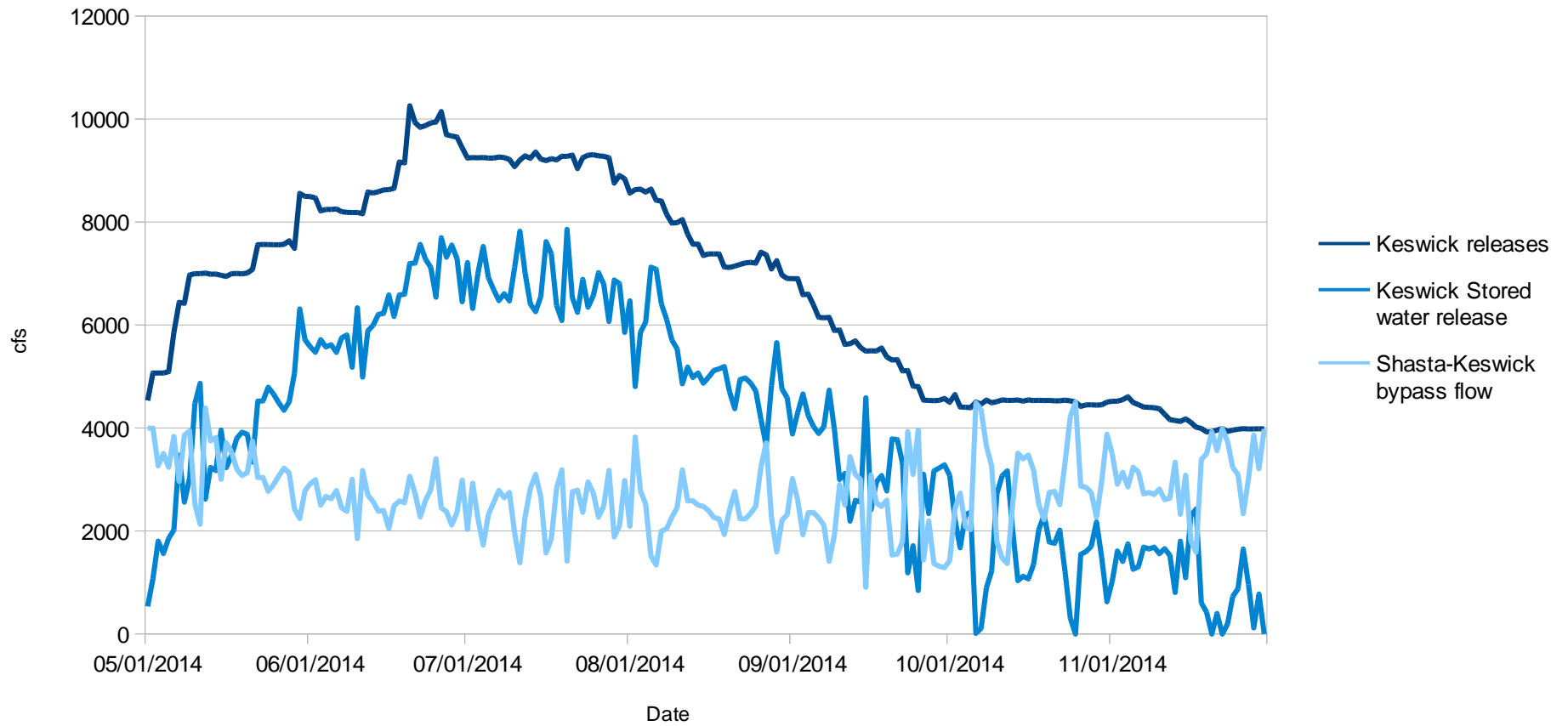
Month	Instream / natural flows at Freeport	Eastside streams	San Joaquin River	Total est. instream inflow
May	6556	409	1603	8568
June	5773	295	330	6398
July	5841	220	253	6314
August	6063	210	306	6579
September	5718	167	402	6287
October	5542	188	582	6312
November	5715	181	1003	6899

Supplemental water (TAF)

Month	Req suppl water for Delta outflow/salinity	CVP share	SWP share
May	0	0	0
June	126	95	32
July	82	61	20
August	12	9	3
September	0	0	0
October	0	0	0
November	0	0	0
Total	220	165	55

Shasta / Keswick

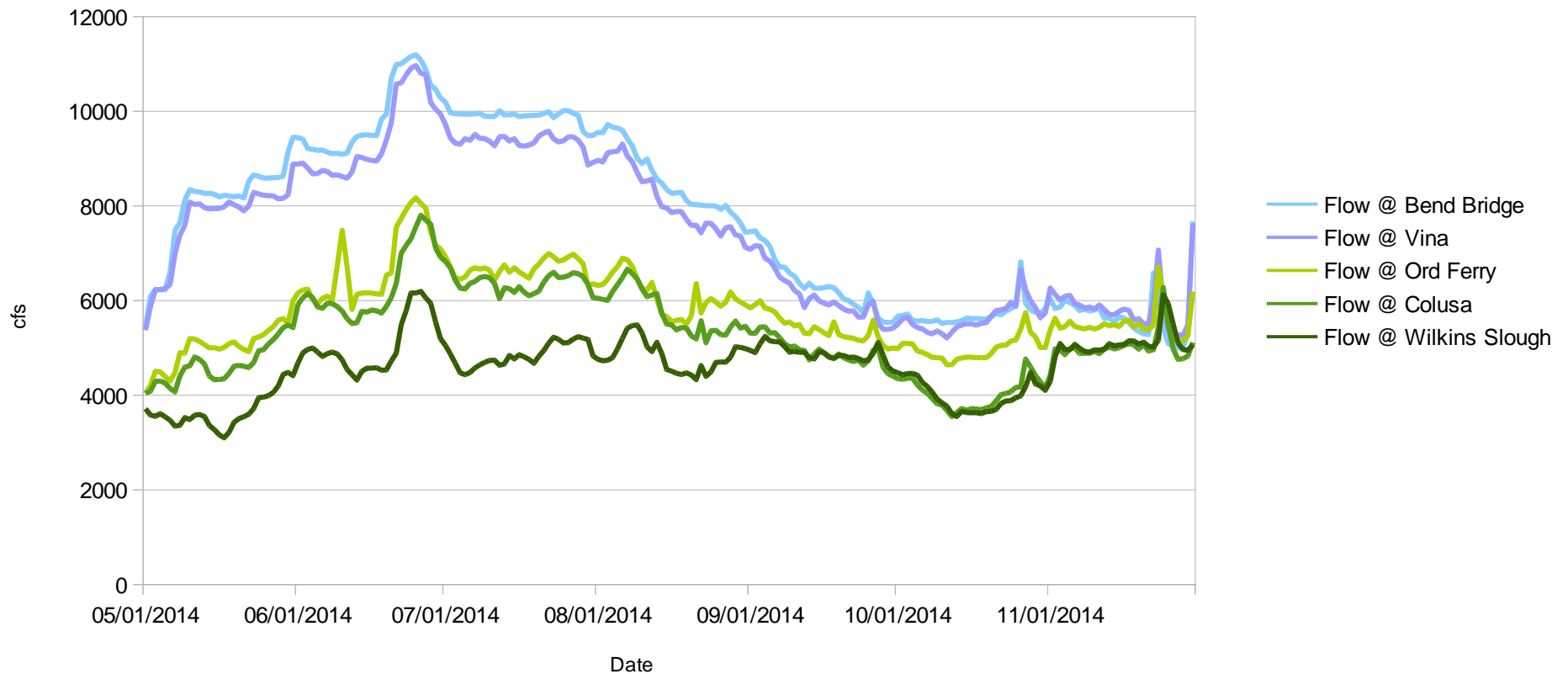
Shasta / Keswick Releases



Flows downstream to Wilkins Slough (cfs)

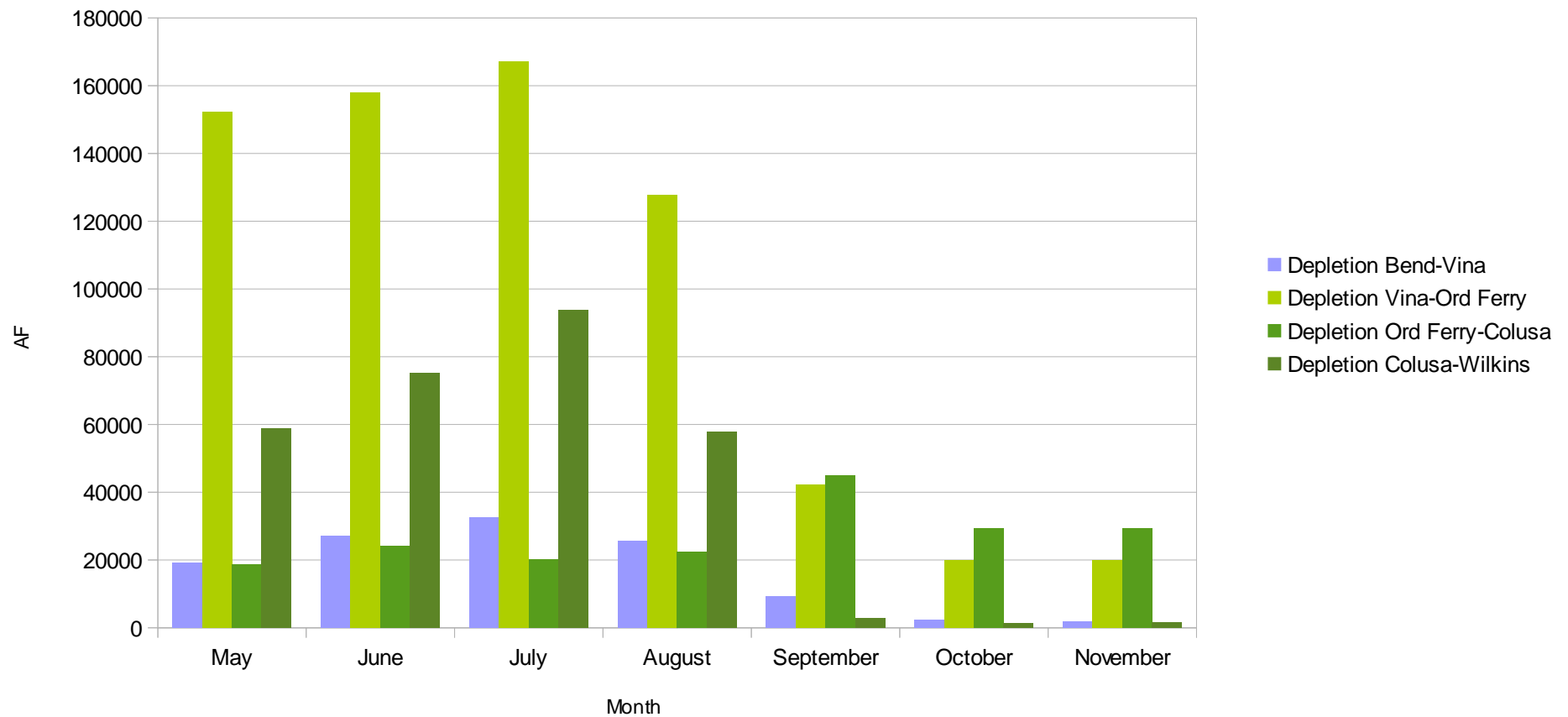
Upper / Middle Sacramento River

Measured Flows



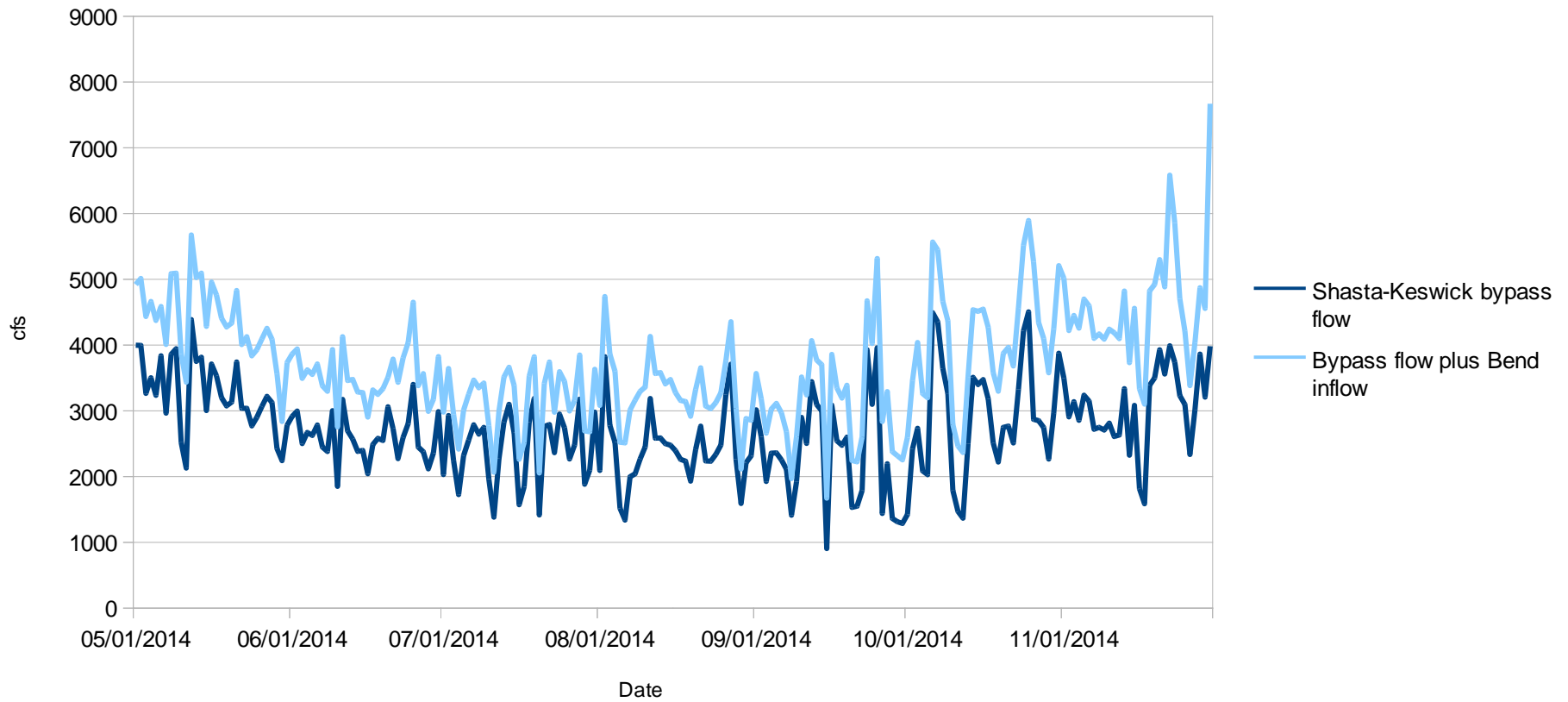
Depletions downstream to Wilkins Slough (AF)

Upper/Middle Sacramento Monthly Depletions (AF)



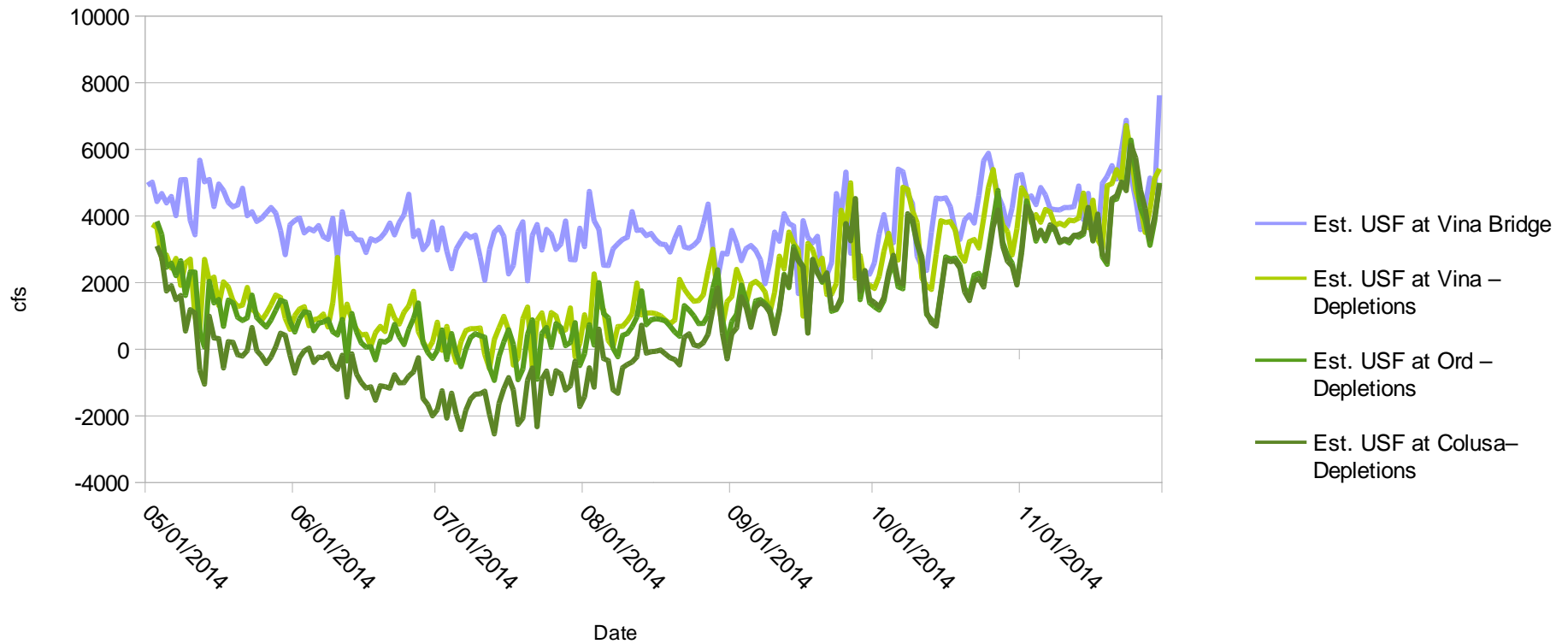
Unstored Flow at Bend Bridge

Estimated Unstored Flow at Bend Bridge



Depletions allocated to unstored flow

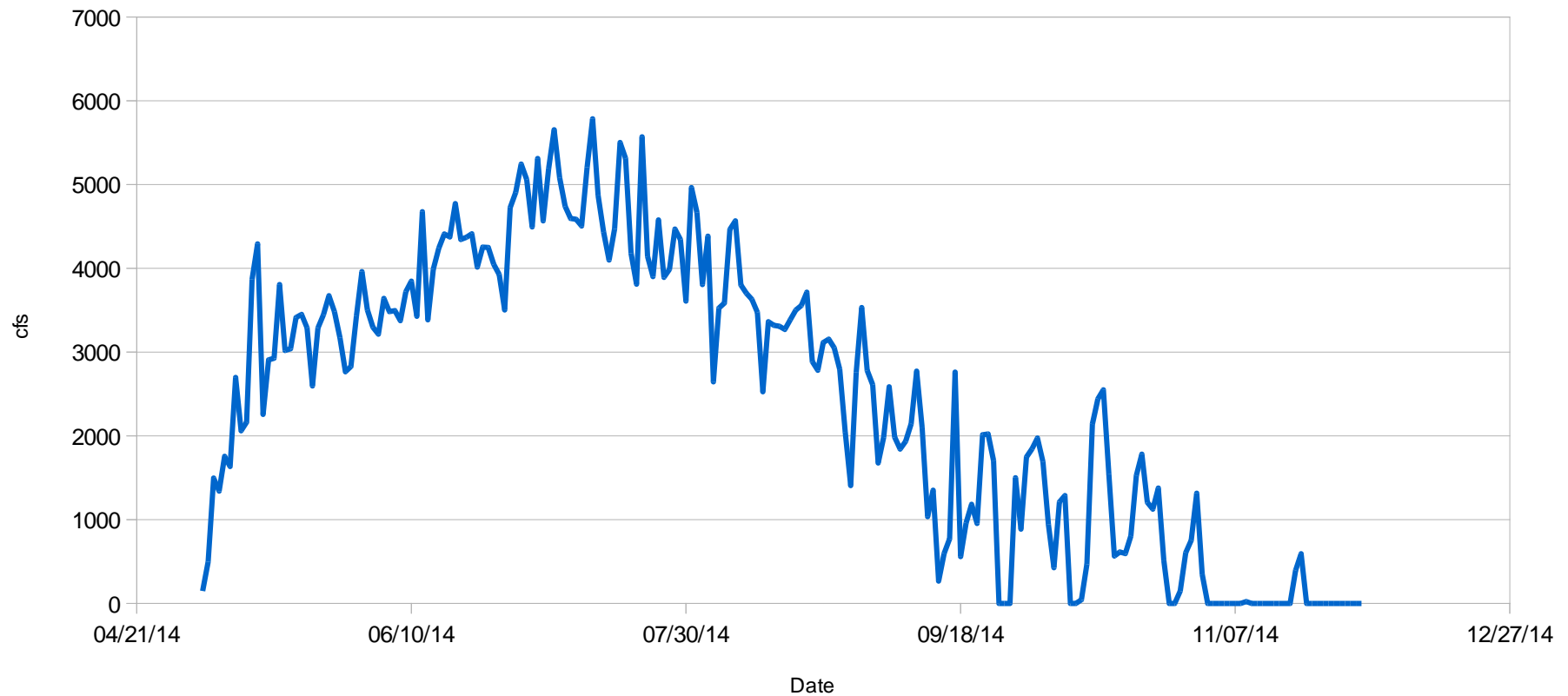
Estimated Unstored Flow at Vina Bridge
Less Depletions



Required supplemental water (cfs)

Supplemental Water

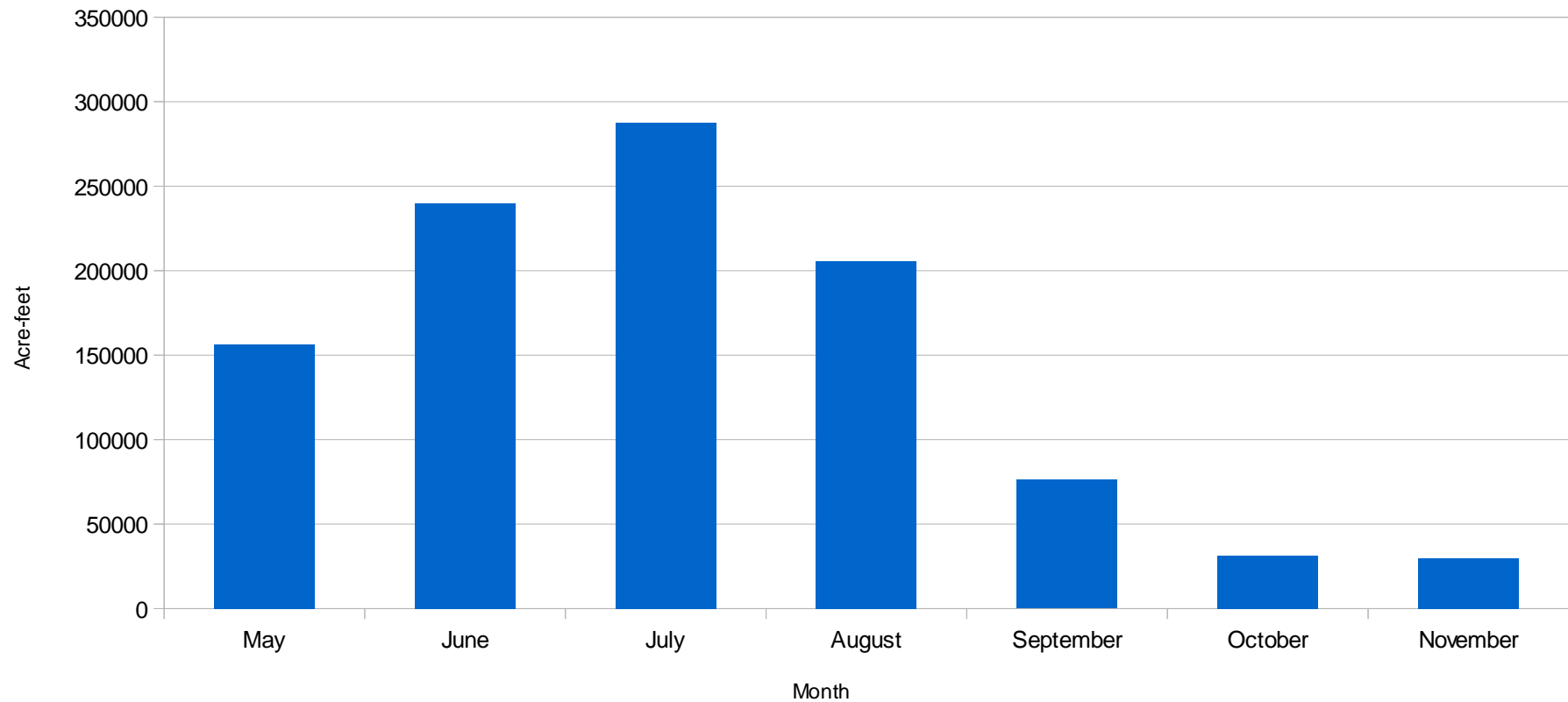
to keep flow at Wilkins > 3250 cfs



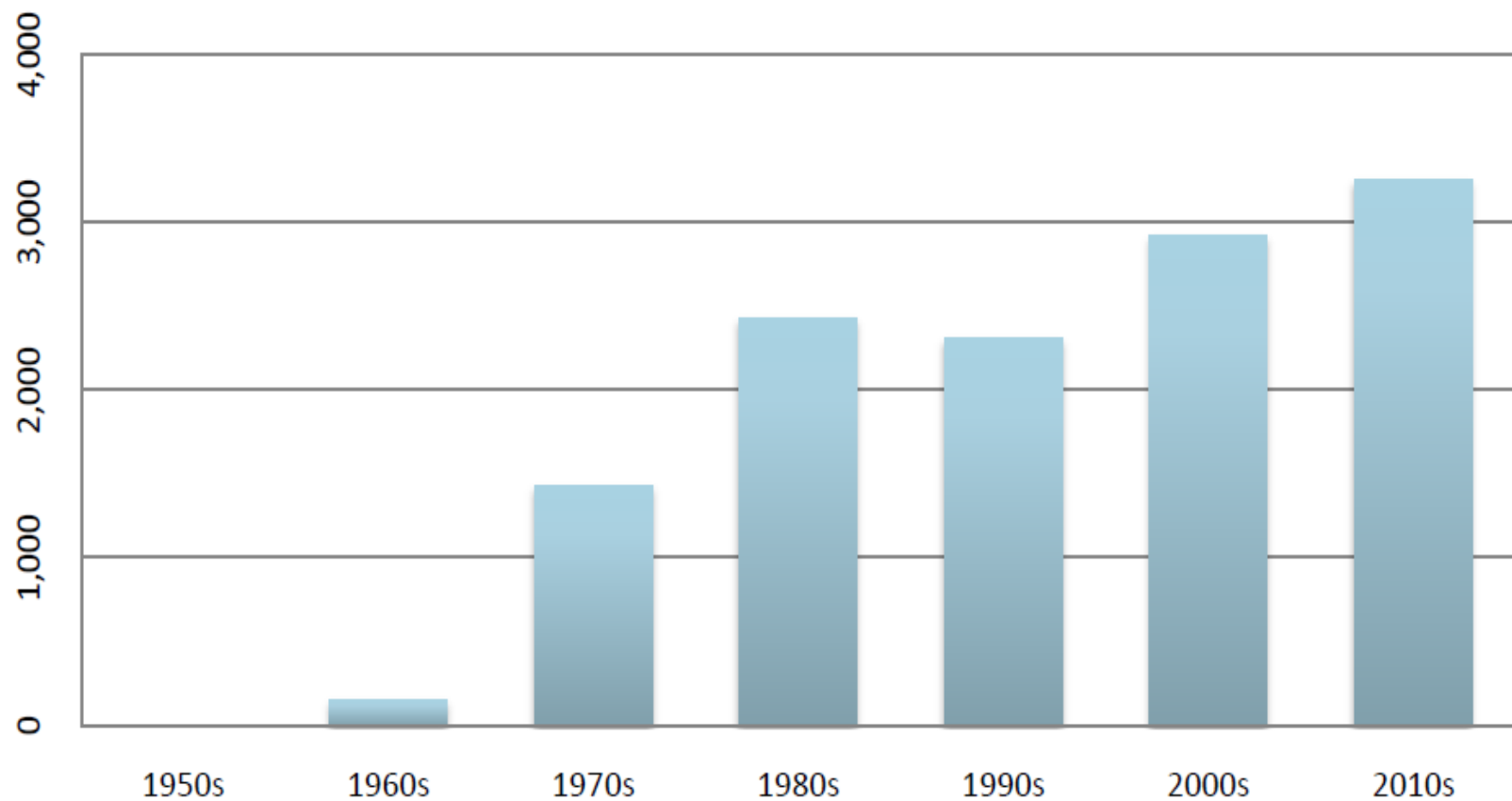
Required supplemental water (AF)

Supplemental Water

to keep flow at Wilkins Slough > 3250 cfs



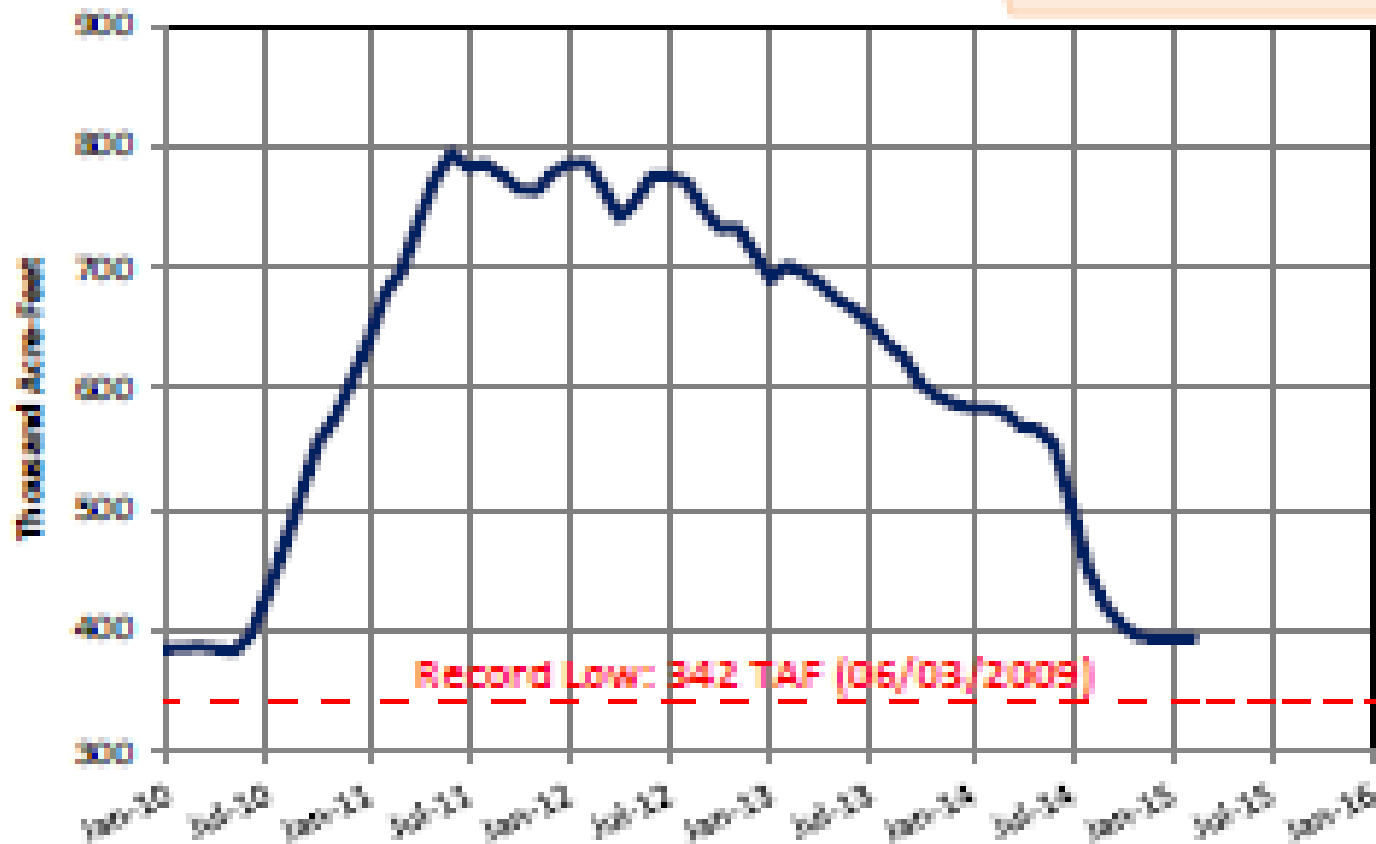
Average SWP Exports by Decade 1950s through 2010s



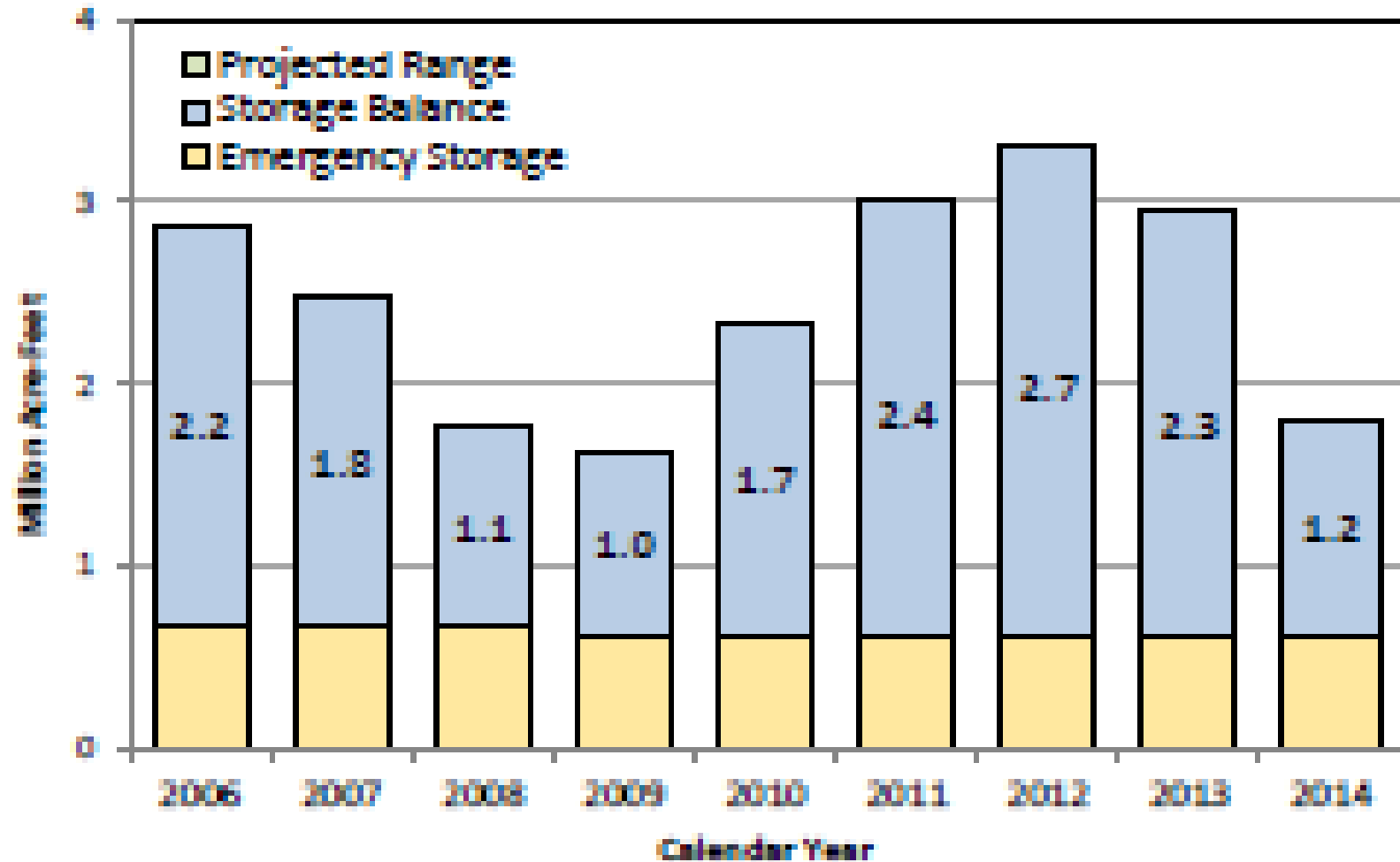
Diamond Valley Lake Storage

Capacity: 810 TAF

189 TAF less in storage than this time last year



MWD Storage Reserve Levels



Western Tulare Lake Ground zero for land fallowing

