

State Water Project Operations

Challenges for 2015

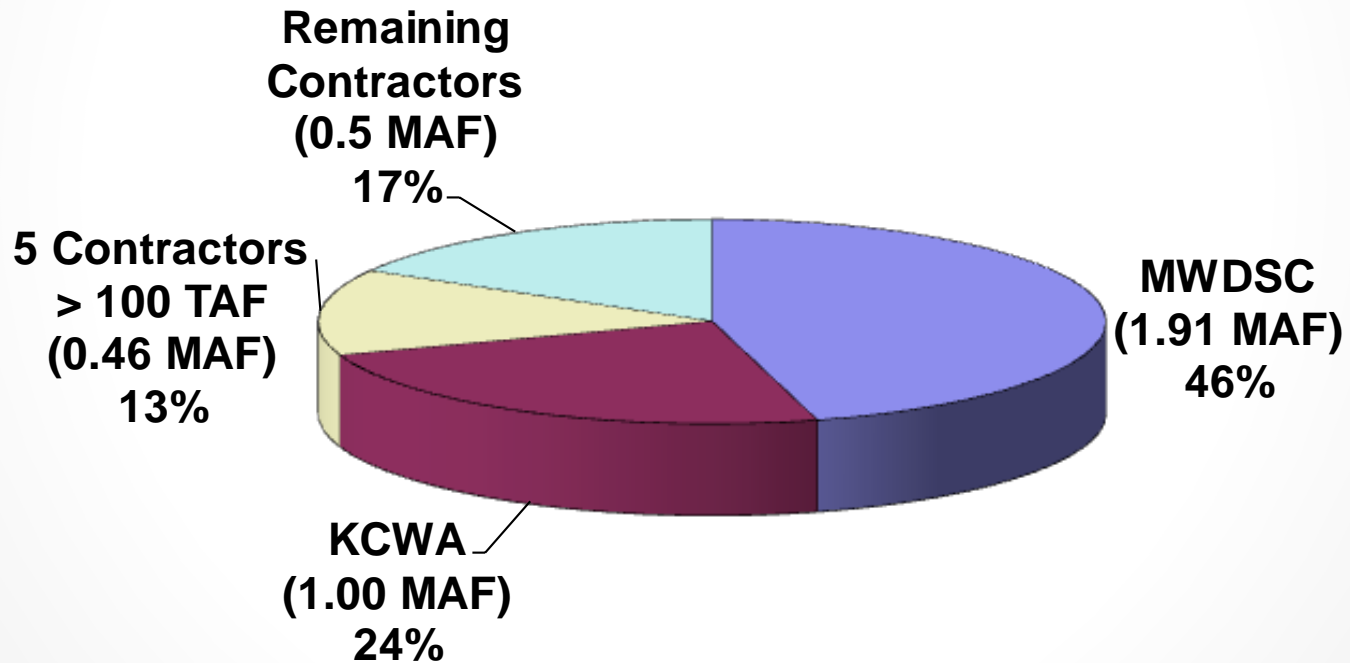
March 19, 2015



State Water Project Contractors Service Areas

- 1 Plumas County Flood Control and Water Conservation District
- 2 County of Butte
- 3 City of Yuba City
- 4 Napa County Flood Control and Water Conservation District
- 5 Solano County Water Agency
- 6 Alameda County Flood Control and Water Conservation District - Zone 7
- 7 Alameda County Water District
- 8 Santa Clara Valley Water District
- 9 Oak Flat Water District
- 10 County of Kings
- 11 Empire West Side Irrigation District
- 12 Tulare Lake Basin Water Storage District
- 13 Dudley Ridge Water District
- 14 San Luis Obispo County Flood Control and Water Conservation District
- 15 Kern County Water Agency
- 16 Mojave Water Agency
- 17 Antelope Valley-East Kern Water Agency
- 18 Santa Barbara County Flood Control and Water Conservation District
- 19 Ventura County Watershed Protection District
- 20 Castaic Lake Water Agency
- 21 Littlerock Creek Irrigation District
- 22 Palmdale Water District
- 23 Crestline-Lake Arrowhead Water Agency
- 24 San Bernardino Valley Municipal Water District
- 25 San Gabriel Valley Municipal Water District
- 26 San Geronio Pass Water Agency
- 27 Desert Water Agency
- 28 Coachella Valley Water District
- 29 Metropolitan Water District of Southern California

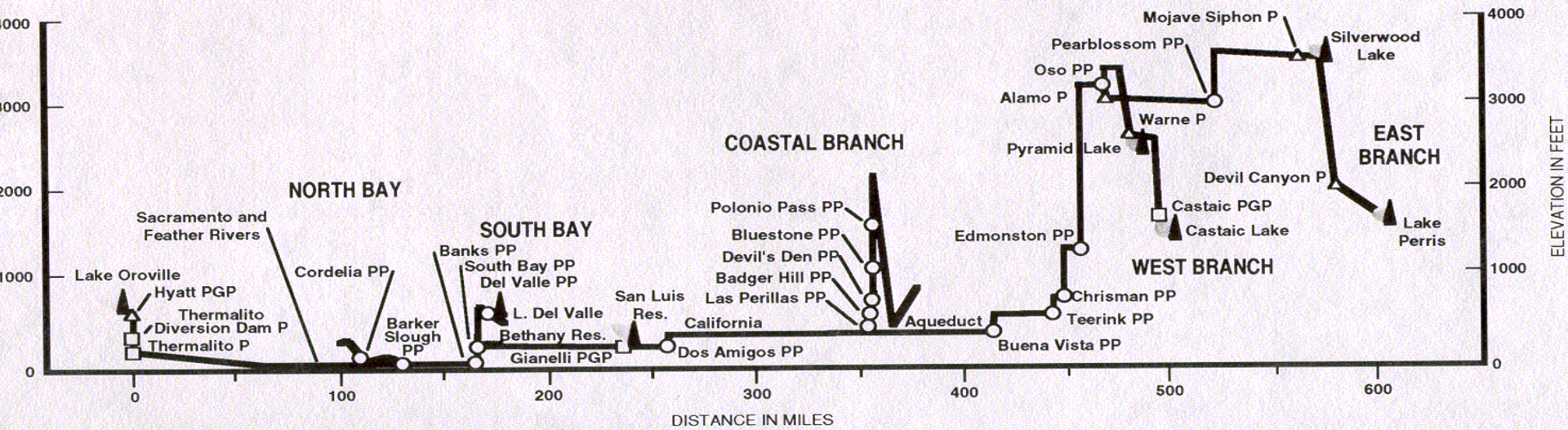
SWP Contract Amount "Table A" (4.18 MAF)



Location and Profile of State Water Project Facilities

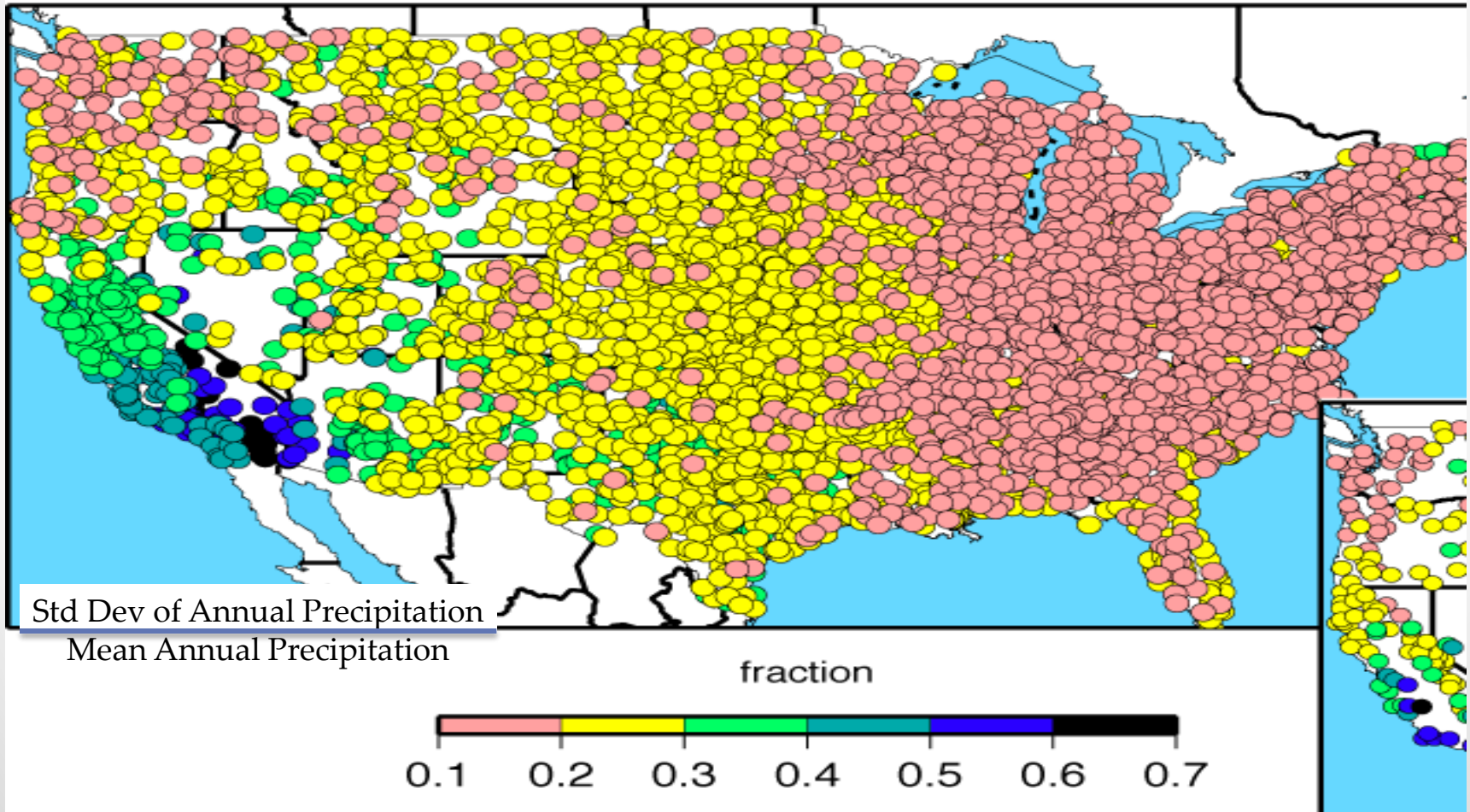


- △ P Powerplant
- PP Pumping Plant
- PGP Pump Generation Powerplant



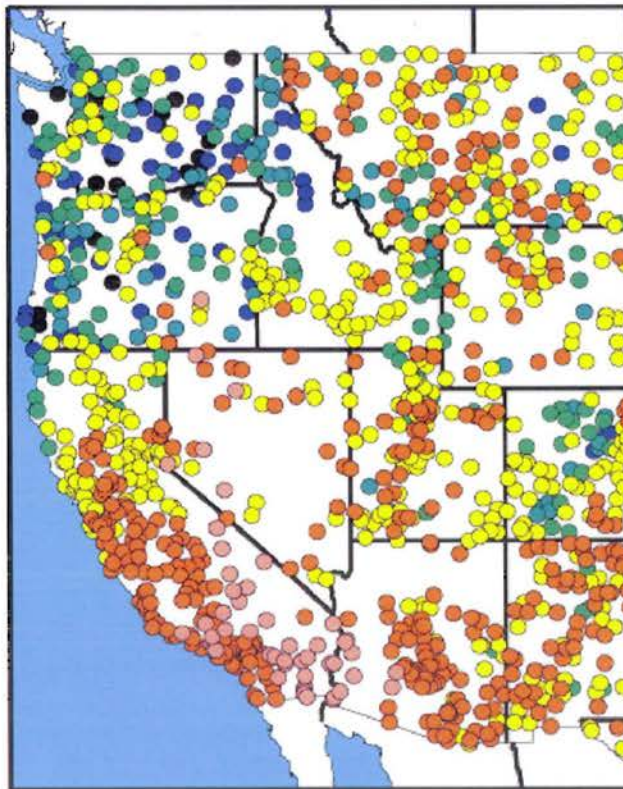
California's Precipitation is Uniquely Variable

a) COEFFICIENTS OF VARIATION OF
TOTAL PRECIPITATION, WY 1951-2008

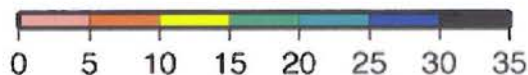


Storms and California Water Supply

c) AVERAGE NUMBER OF DAYS/YR TO OBTAIN HALF OF TOTAL PRECIPITATION, WY 1951-2008



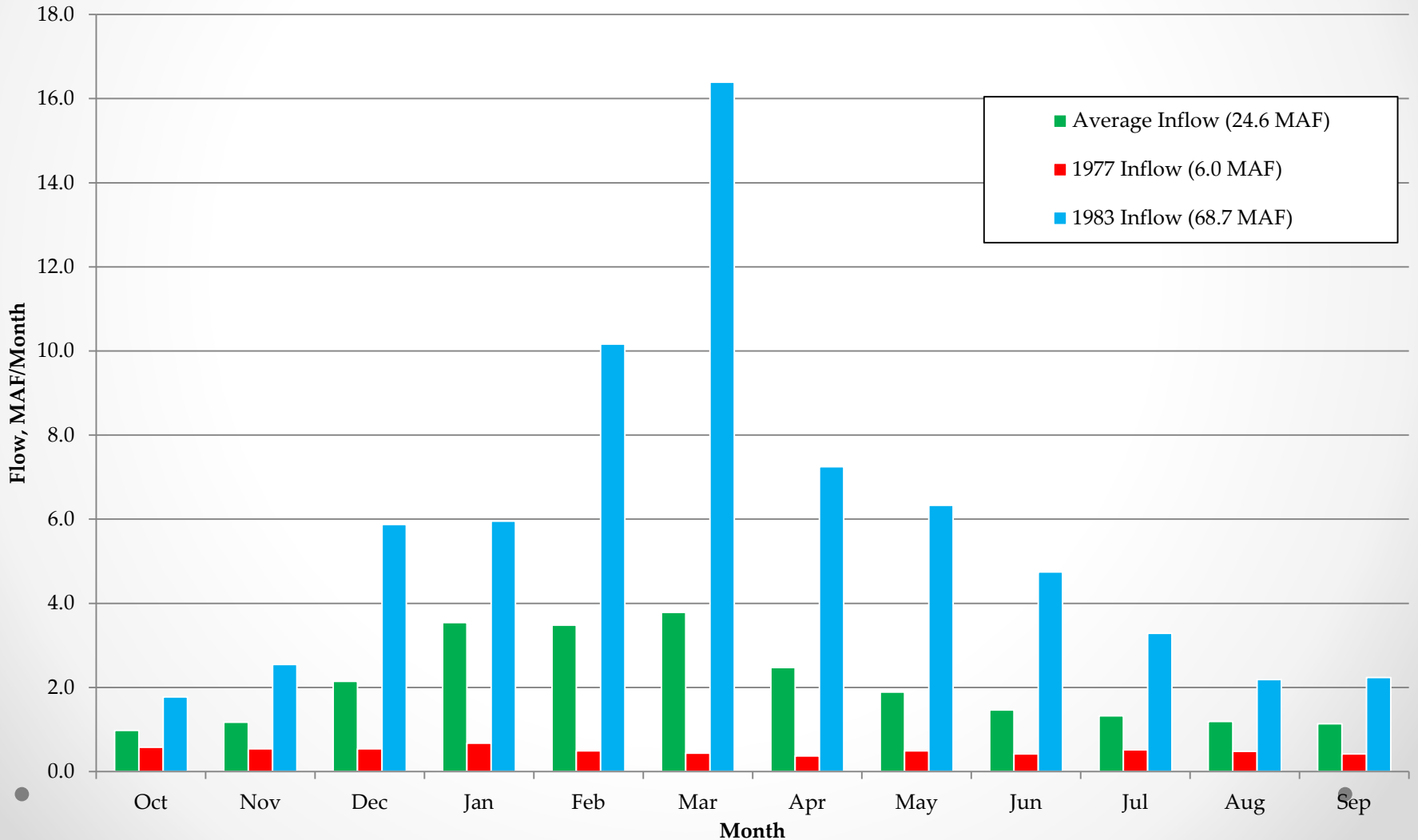
days/year



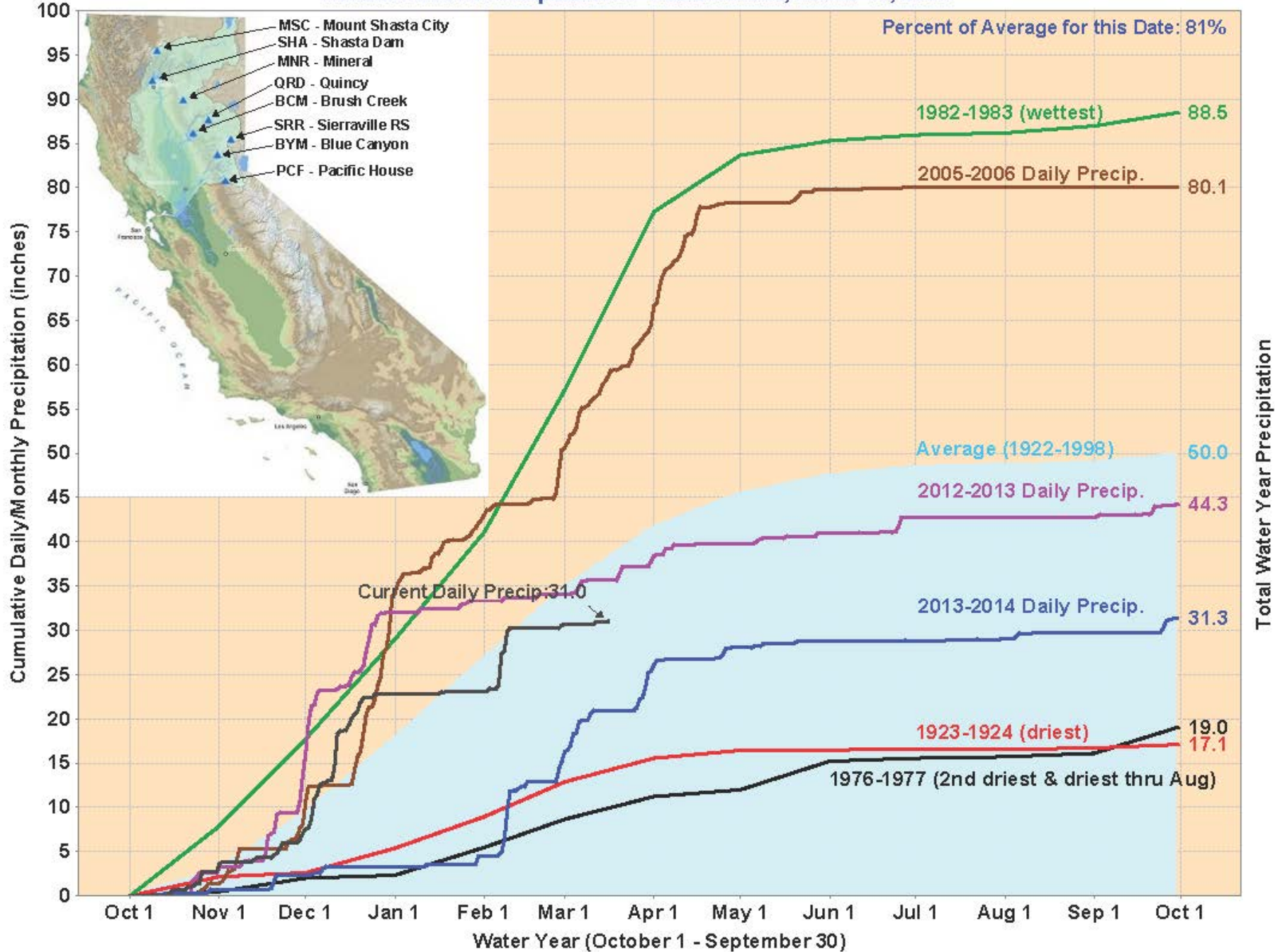
Just a few storms each year are the core of California's water supplies

Annual Variation of Runoff

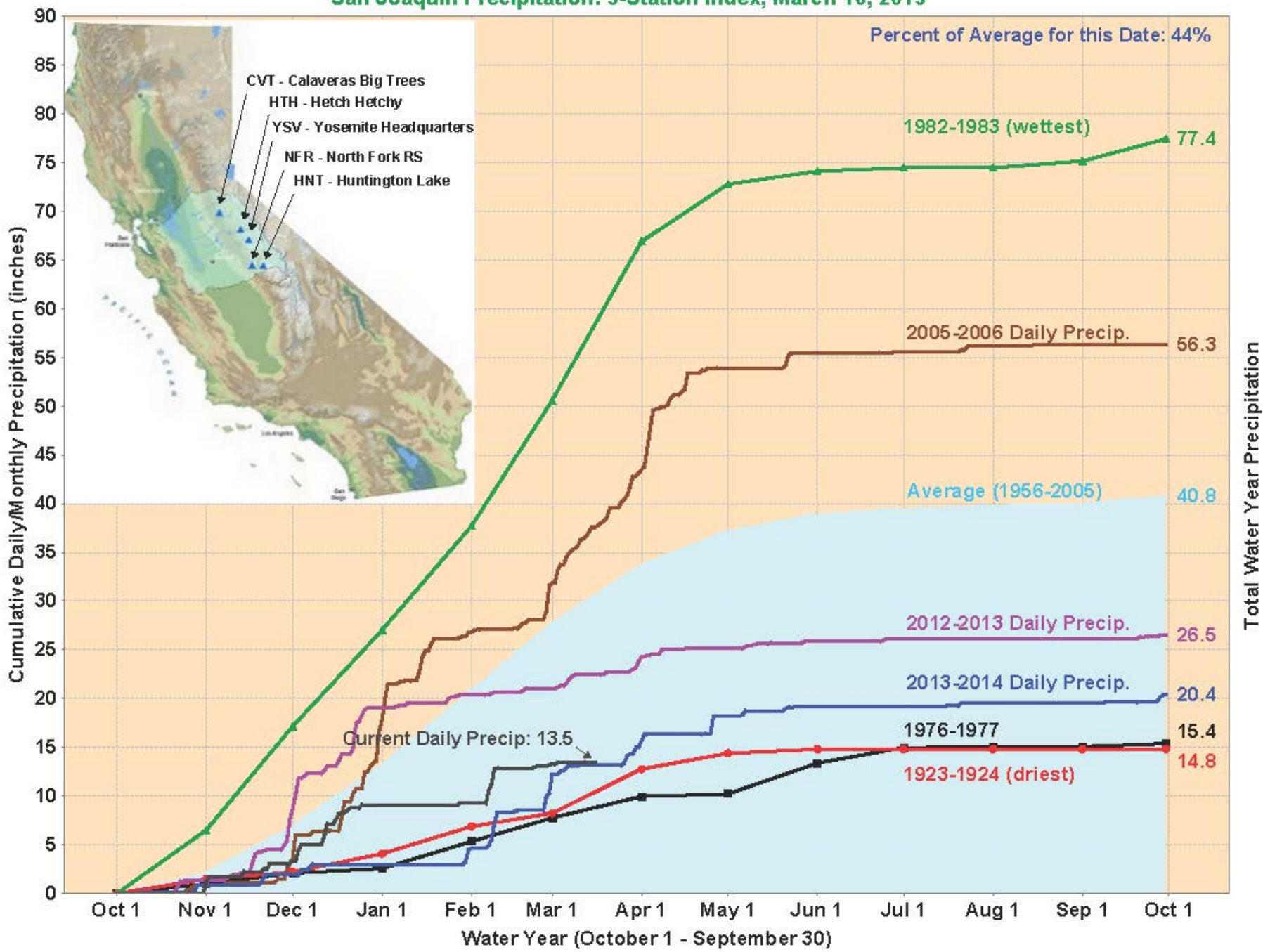
Delta Inflow (WY 1970-2011)



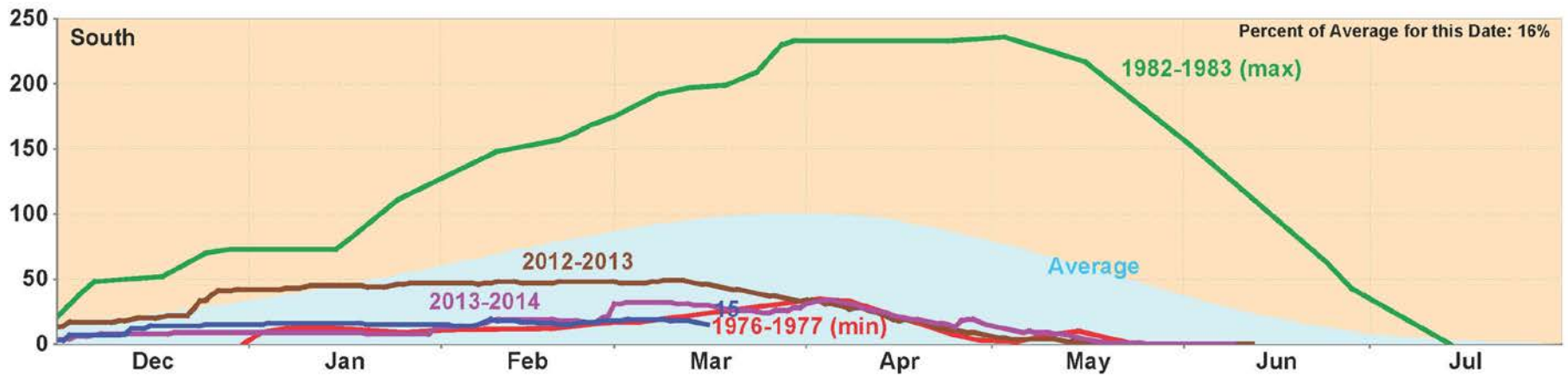
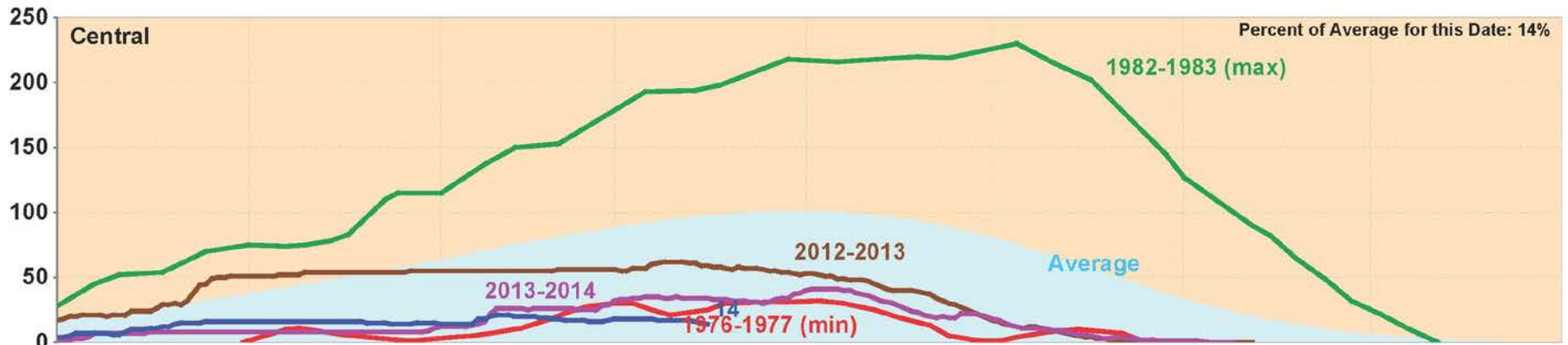
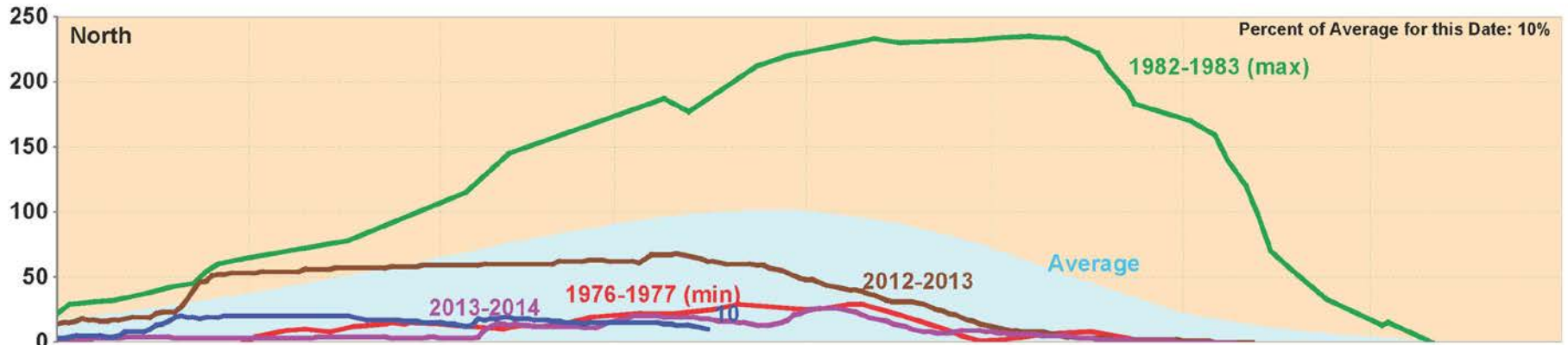
Northern Sierra Precipitation: 8-Station Index, March 16, 2015



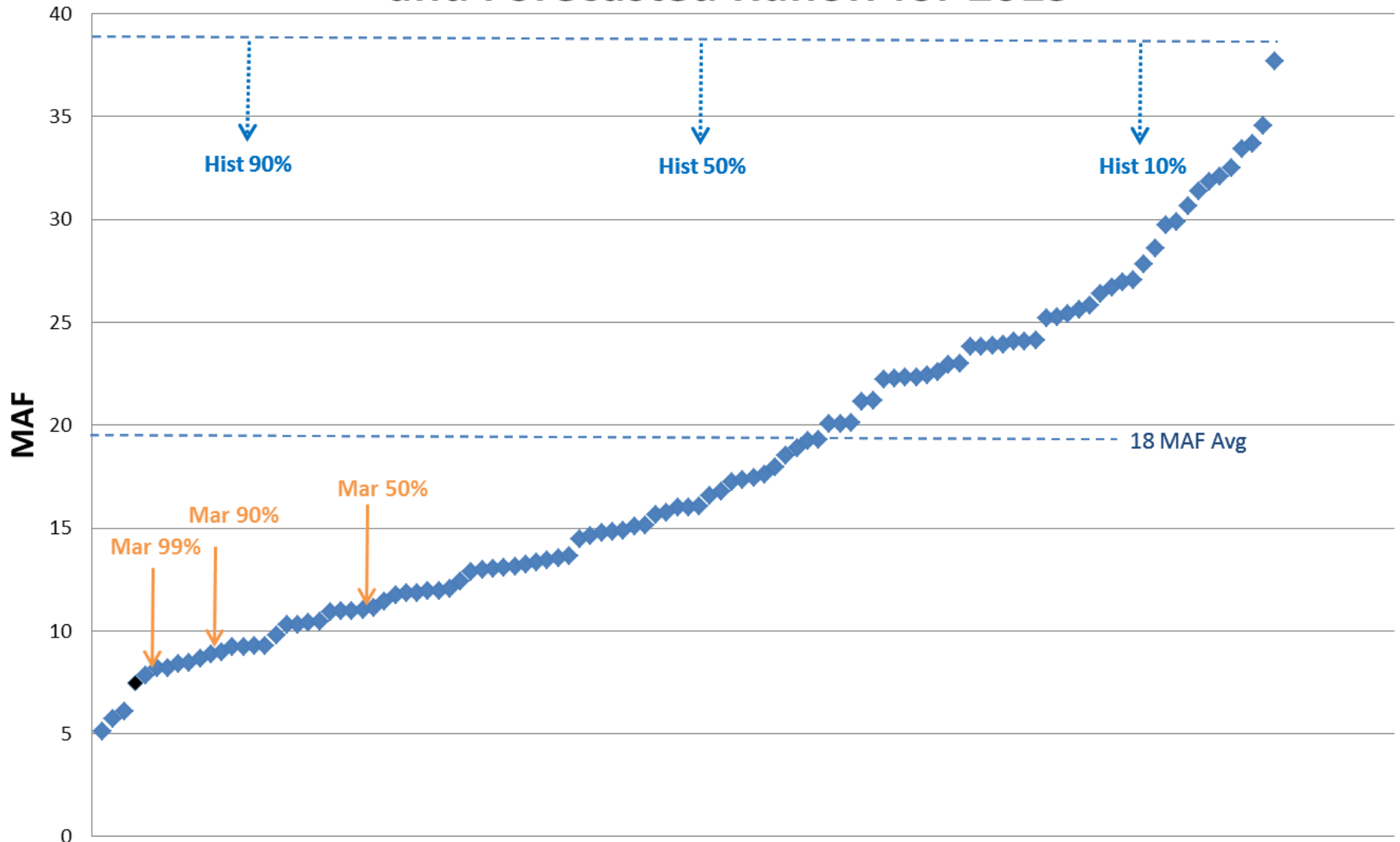
San Joaquin Precipitation: 5-Station Index, March 16, 2015



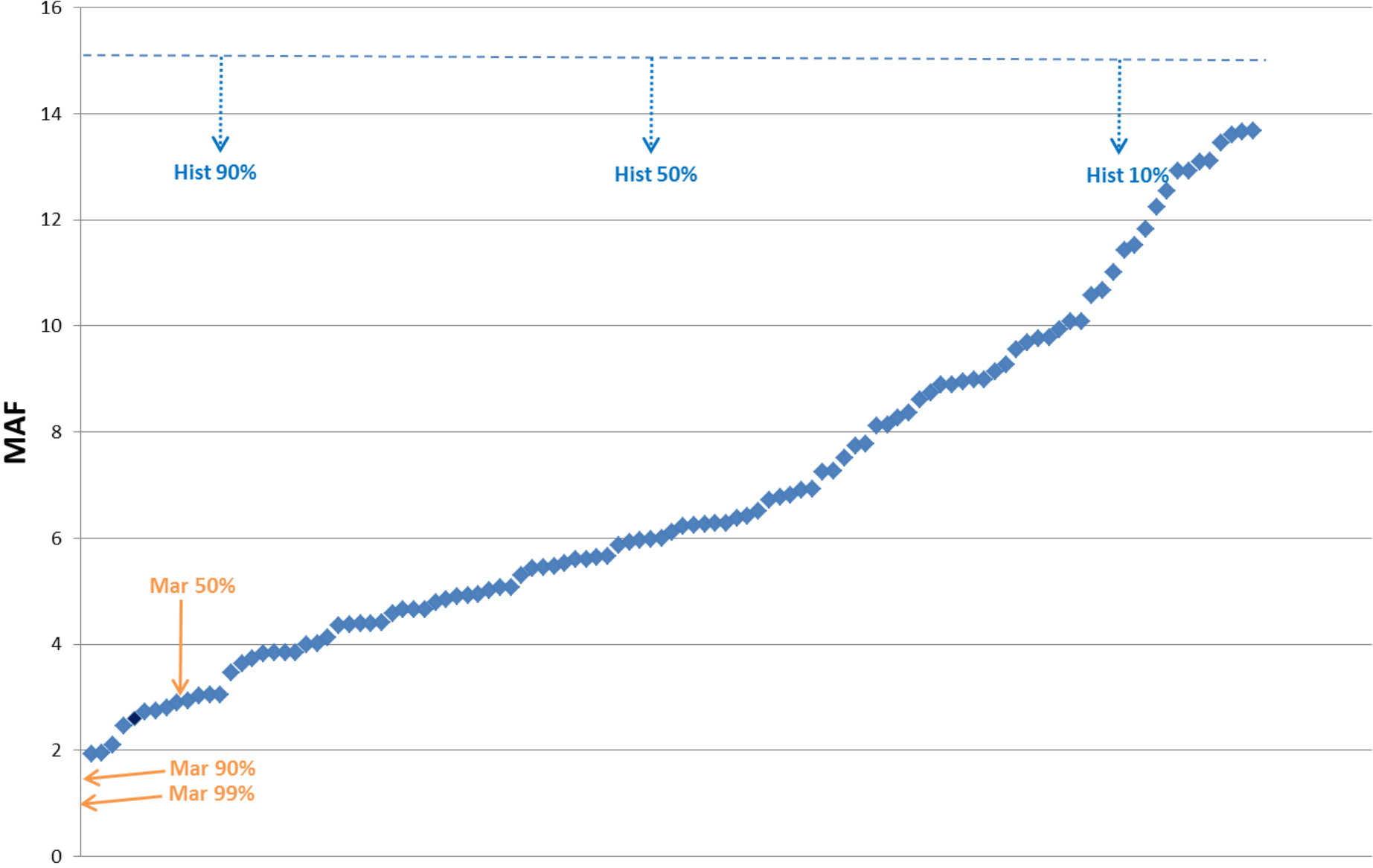
California Snow Water Content, March 16, 2015, Percent of April 1 Average



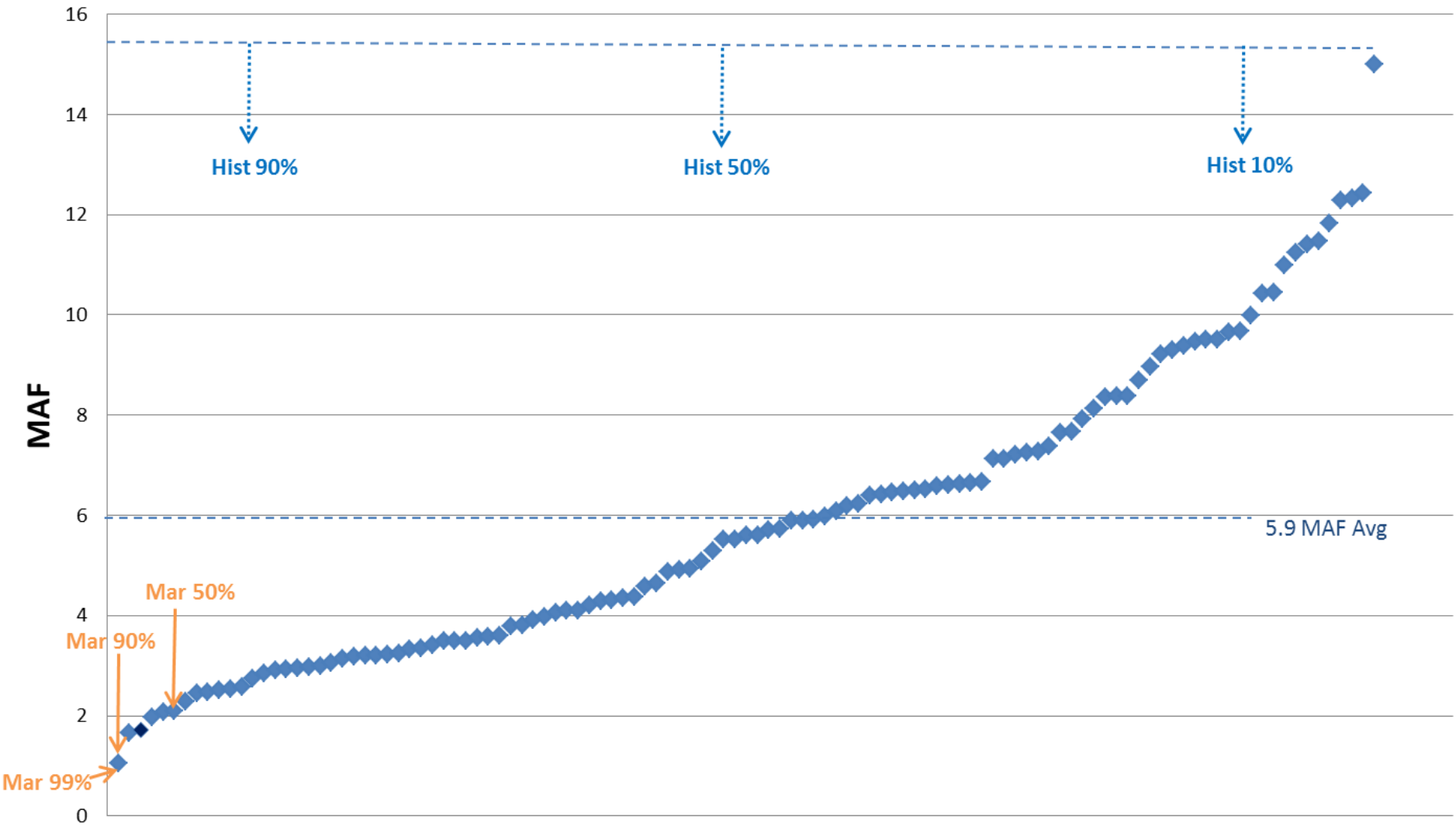
Sacramento Valley Runoff (1906-2014) and Forecasted Runoff for 2015



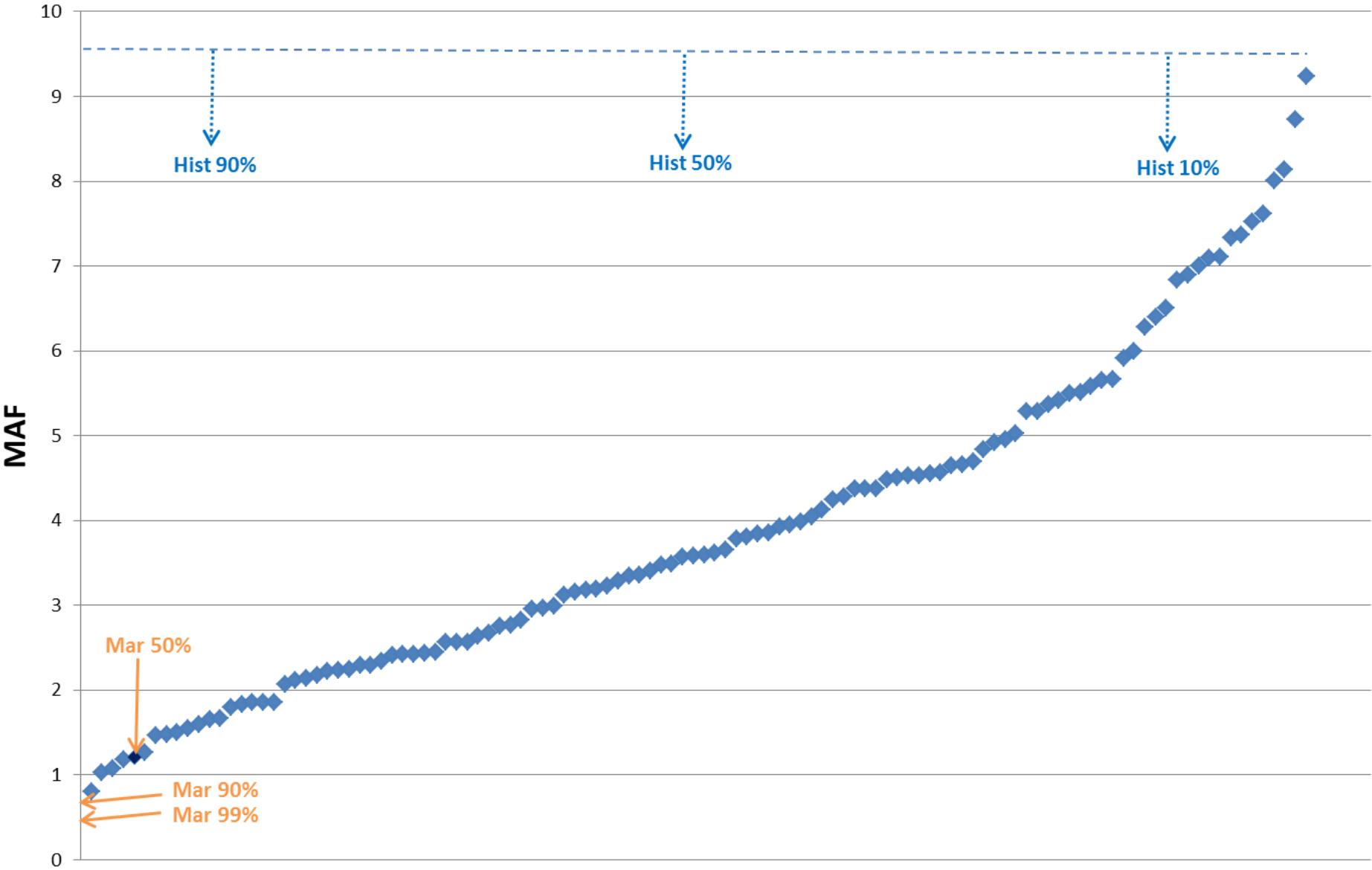
Sacramento Valley A-J Runoff (1906-2014) and Forecasted A-J Runoff for 2015



San Joaquin Valley Runoff (1901-2014) and Forecasted Runoff for 2015

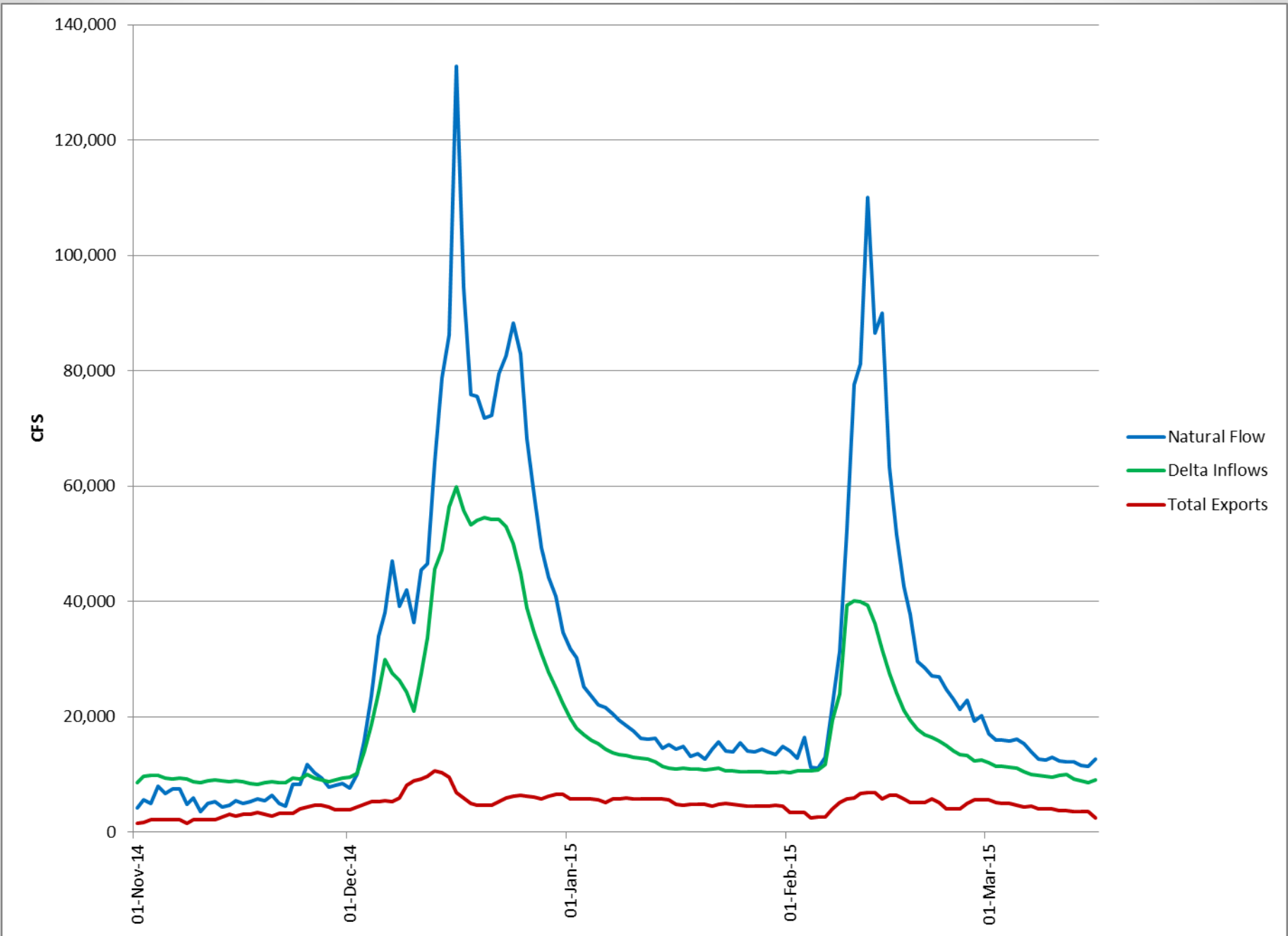


San Joaquin Valley A-J Runoff (1906-2014) and Forecasted A-J Runoff for 2015



2015 Operations

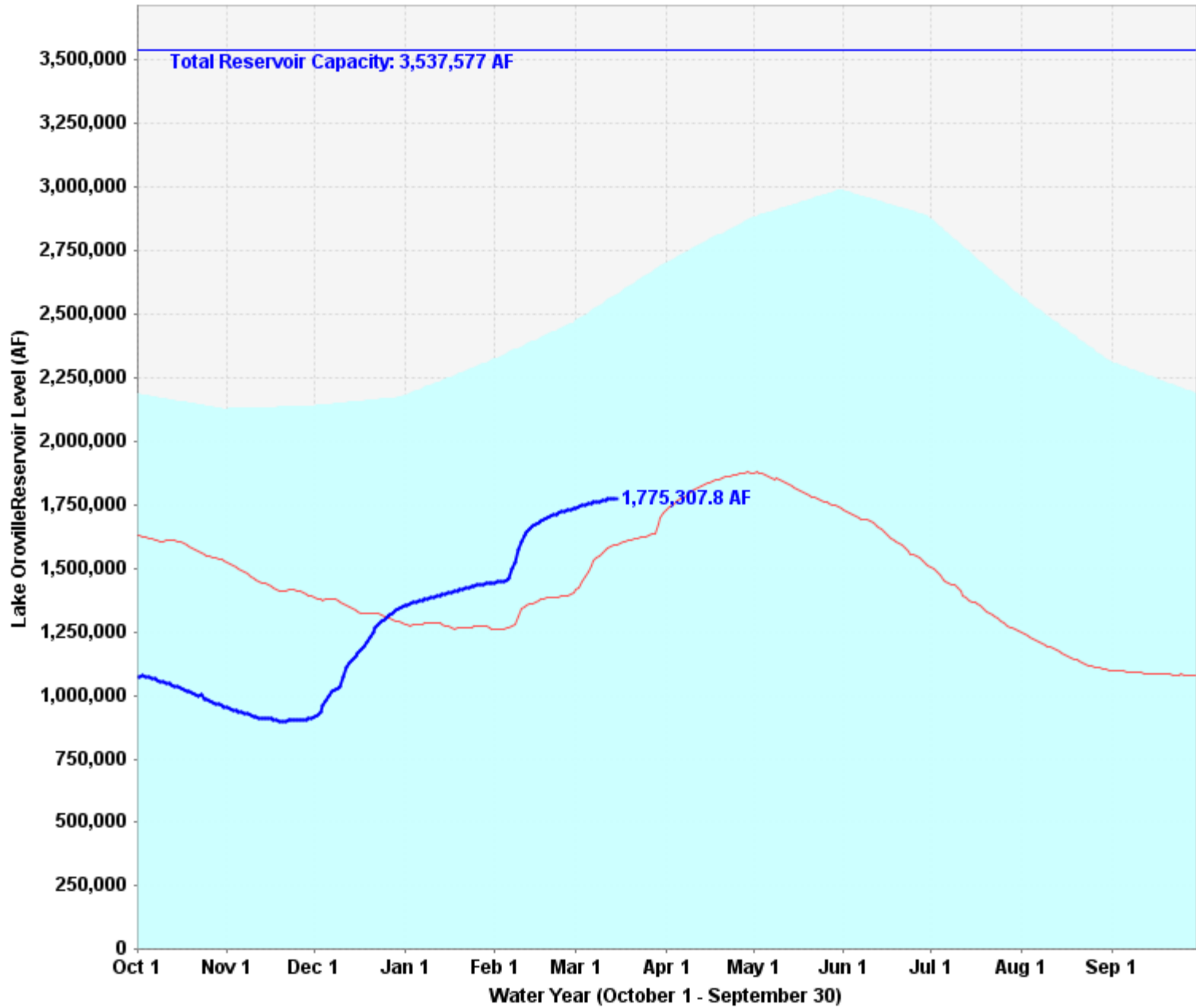




Lake Oroville



Lake Oroville Storage Levels

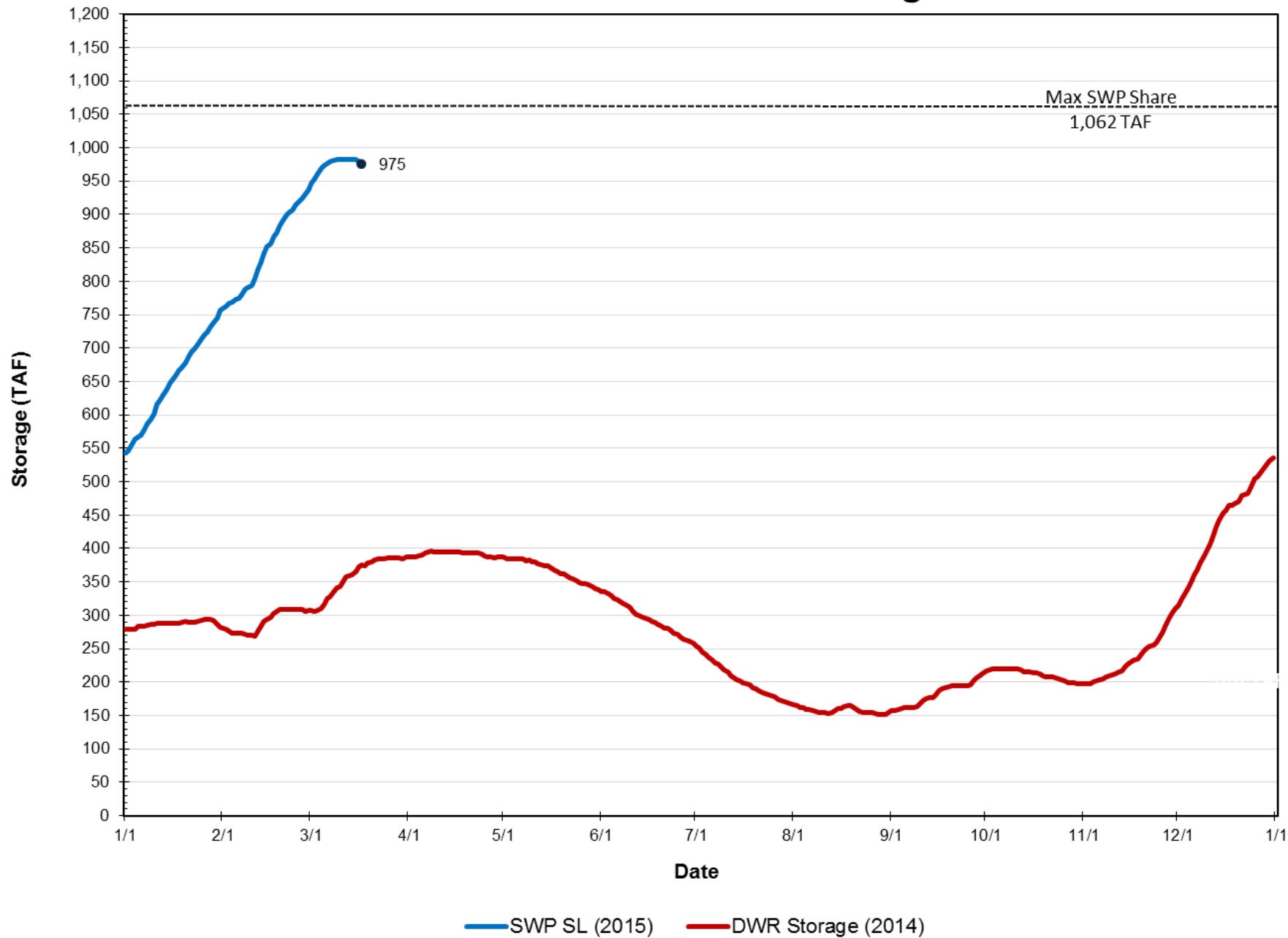


Historical Average — Total Reservoir Capacity — 2013-2014 — 2014-2015(current)

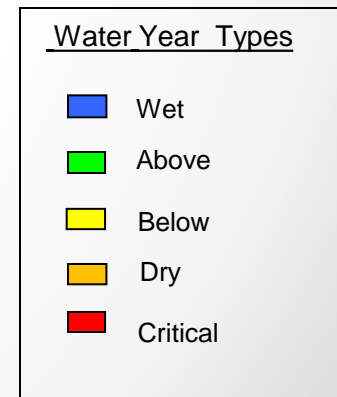
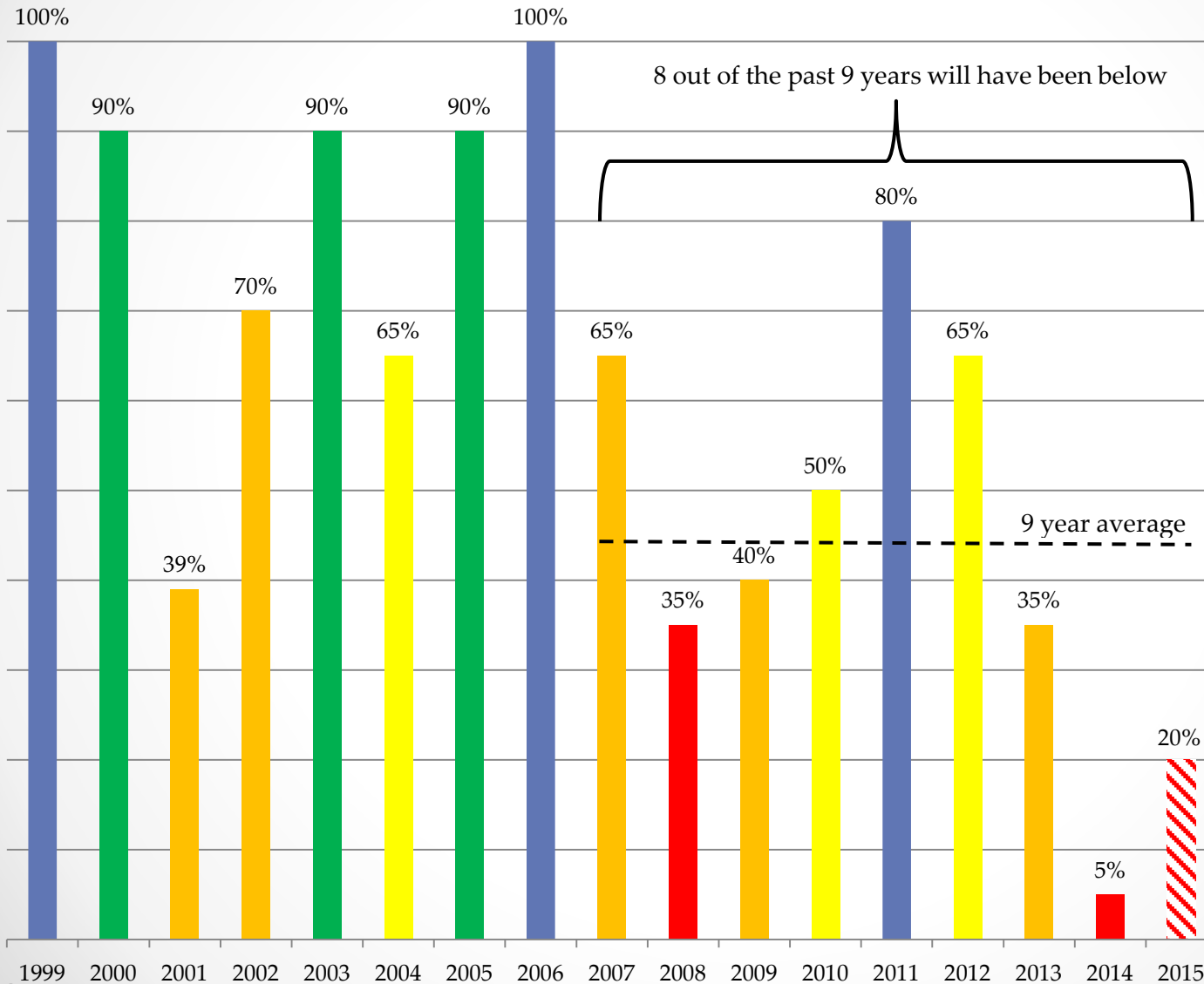
San Luis Reservoir



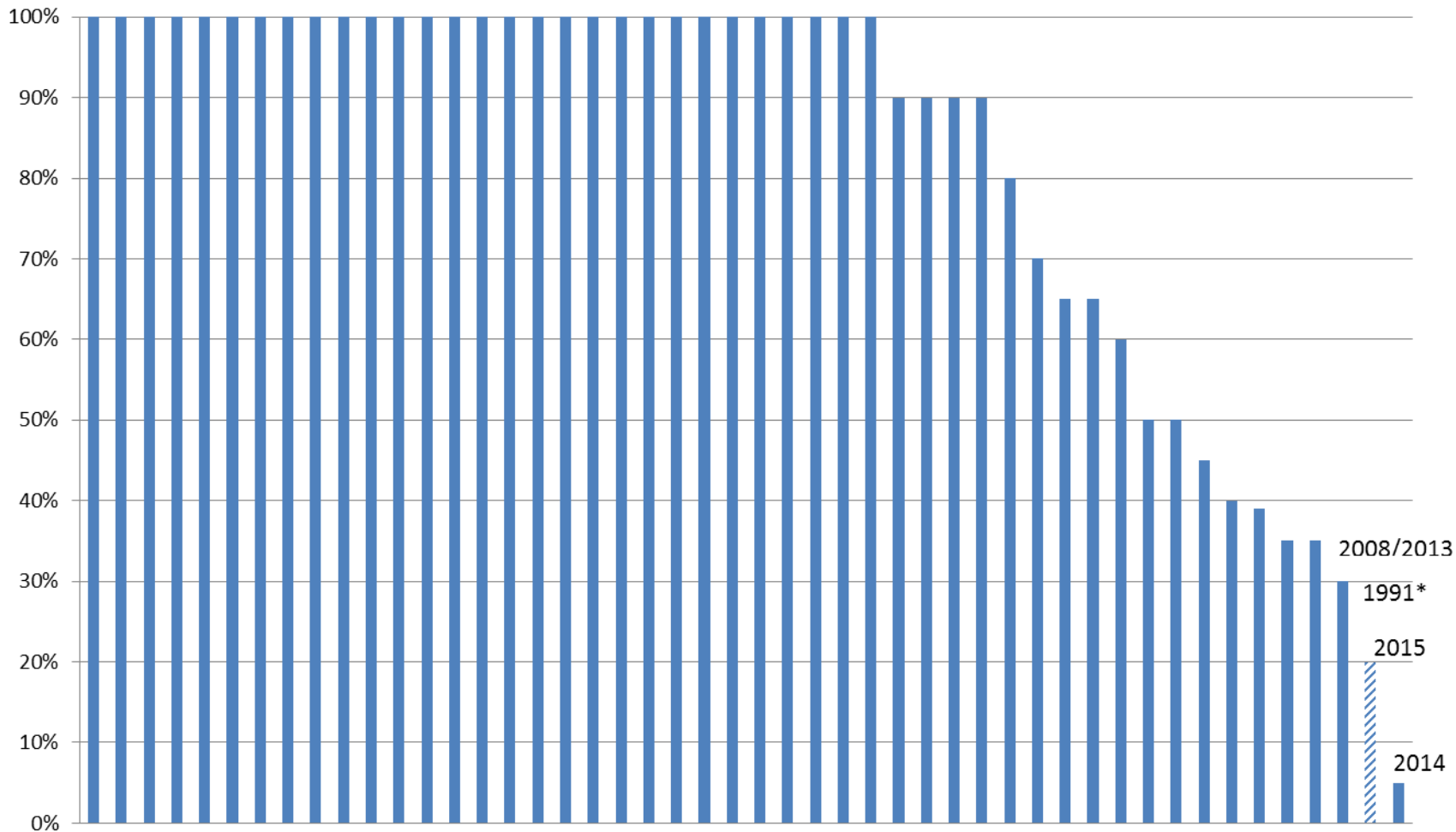
SWP San Luis Reservoir Storage



SWP Allocation by Year Type



SWP Allocation (sorted 1968 - 2015)



*0% allocation for ag in 1991

Questions?

John Leahigh
State Water Project
Operations Control Office

<http://www.woco.water.ca.gov>