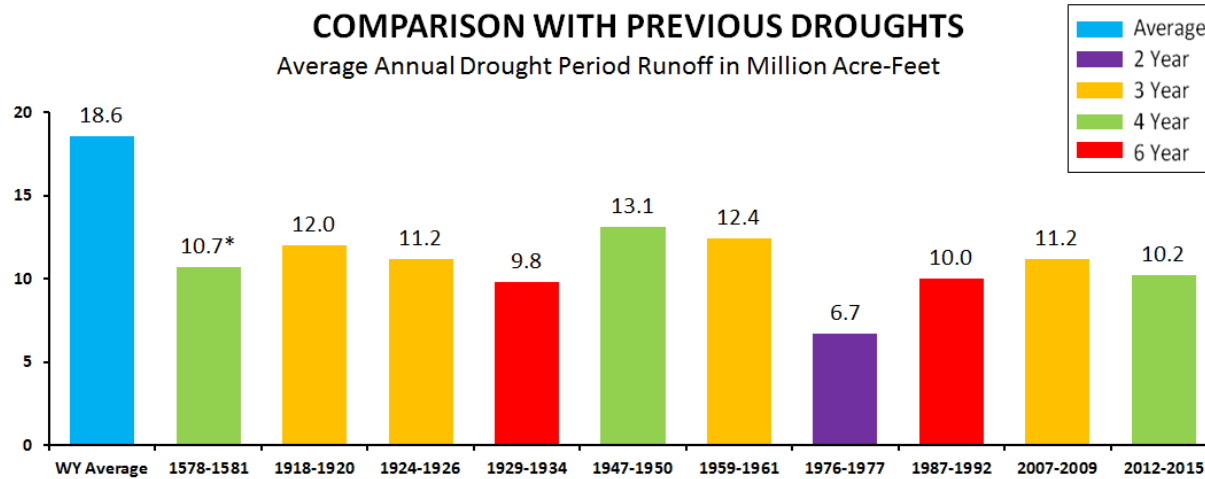


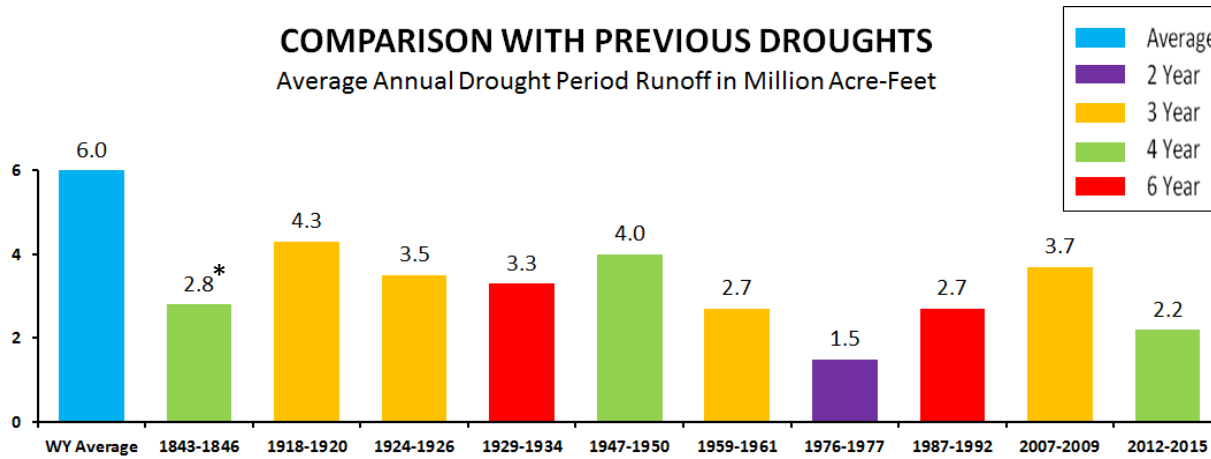
Hydrology of CA Drought for CWEMF

M. Roos



SACRAMENTO FOUR RIVER RUNOFF

* from tree rings



SAN JOAQUIN FOUR RIVER RUNOFF

Figure 1. Multiyear droughts of the Sacramento and San Joaquin

DEPARTMENT OF WATER RESOURCES
 CALIFORNIA COOPERATIVE SNOW SURVEYS
 SEASONAL PRECIPITATION
 IN PERCENT OF AVERAGE TO DATE
 October 1, 2014 through April 30, 2015

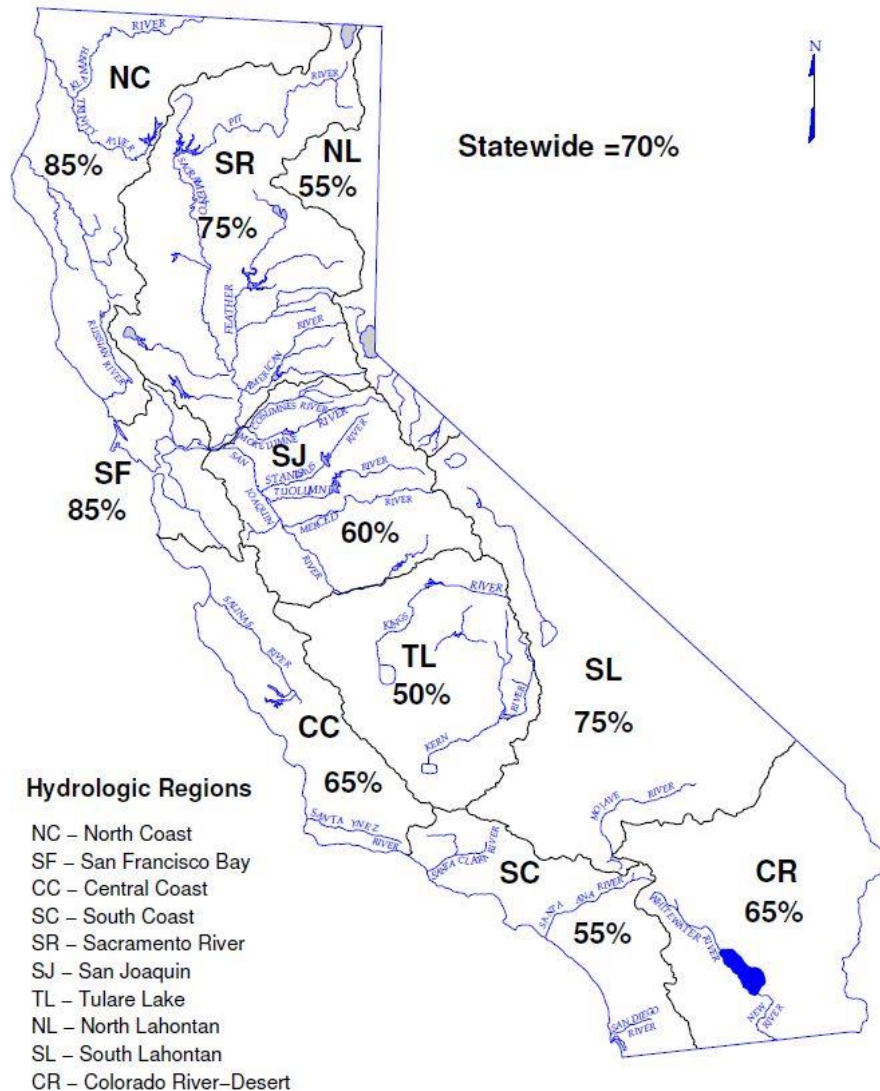


Figure 2. California Precipitation for the 2014-15 Rainy Season.

Northern Sierra Precipitation

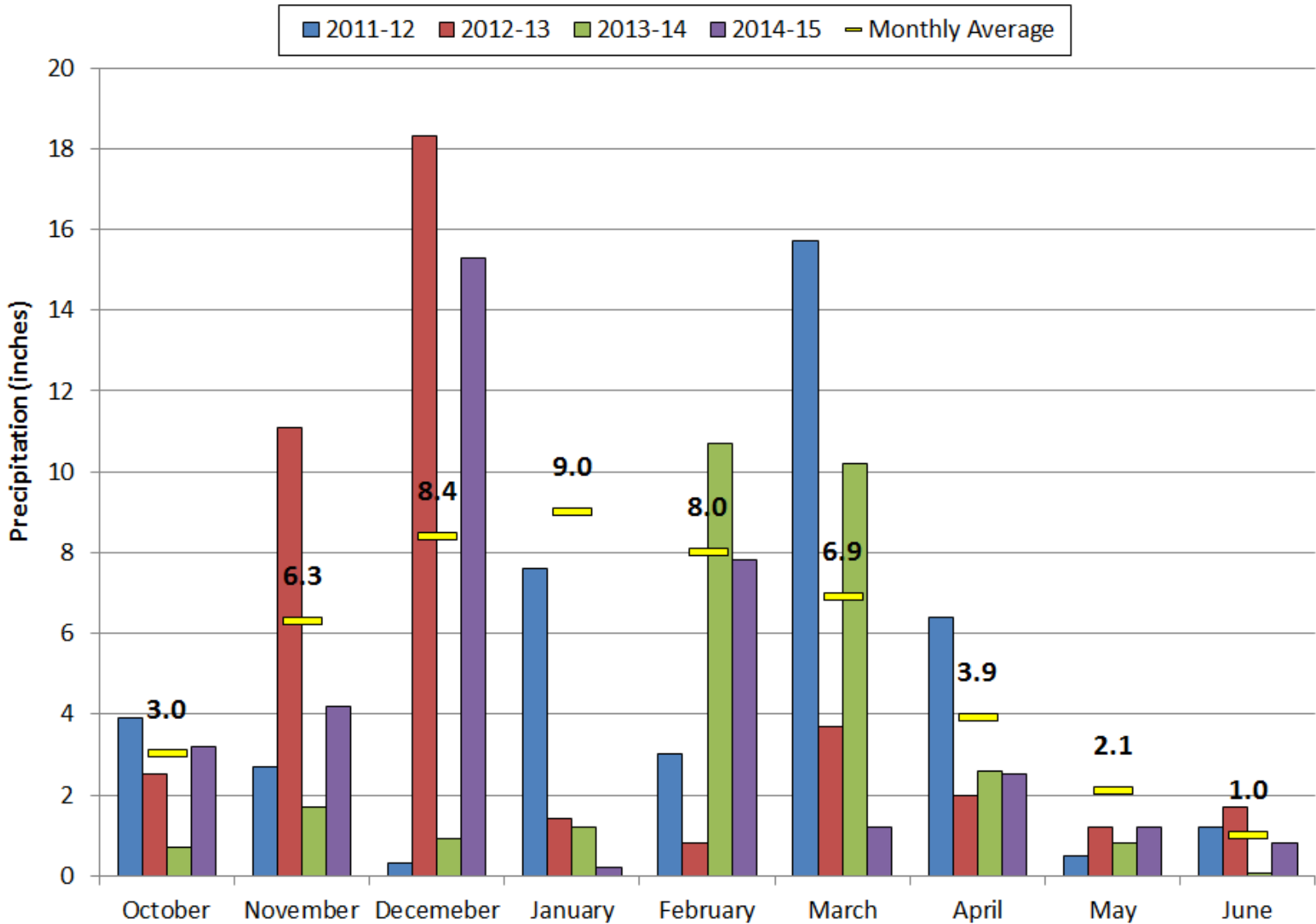


Figure 3. Northern Sierra 8 Station Monthly Precipitation



Northern Sierra 8 Station Precipitation for Water Years 2013 and 2014

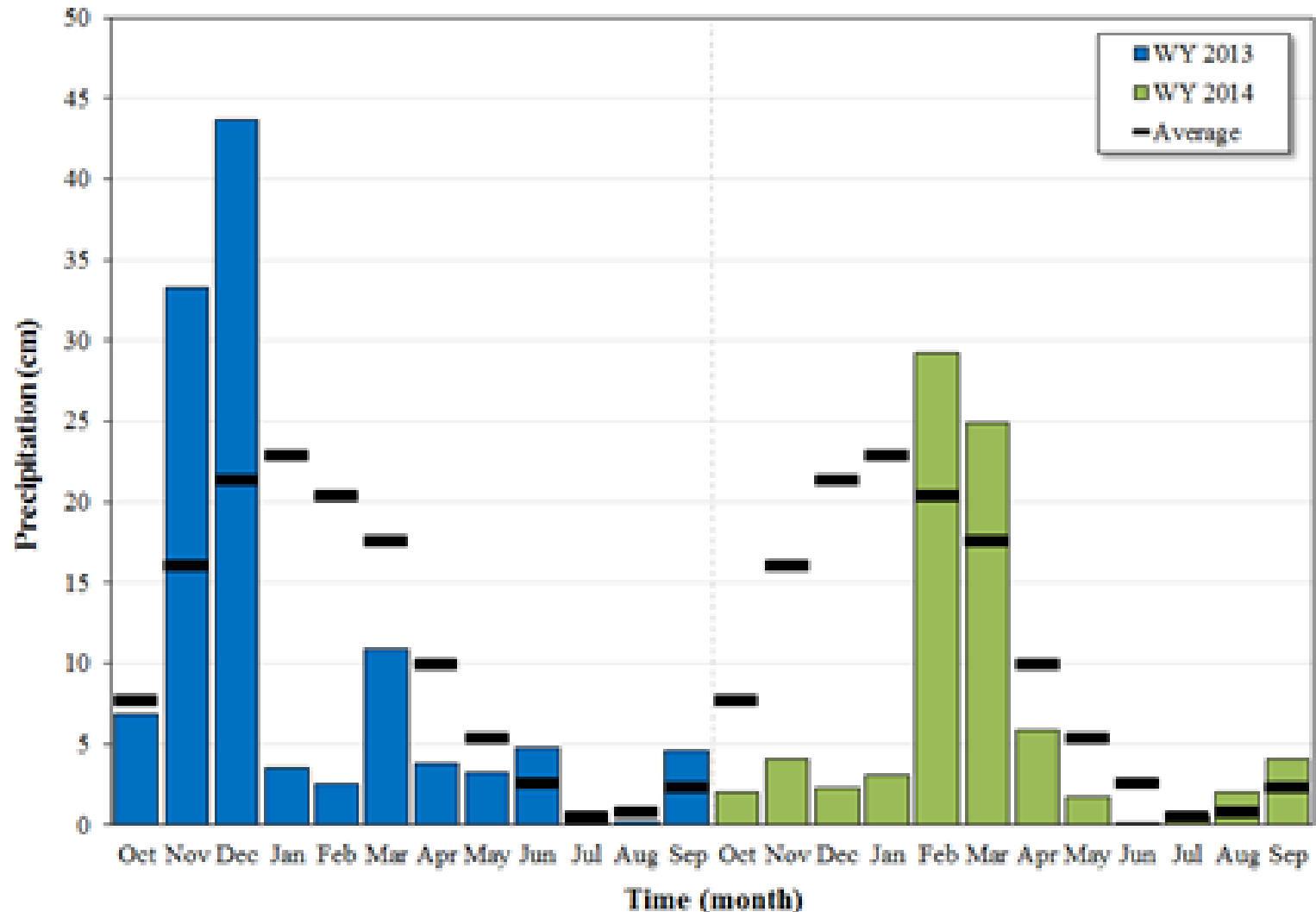


Figure 4. Northern Sierra Monthly Precipitation

SWP Water Allocations

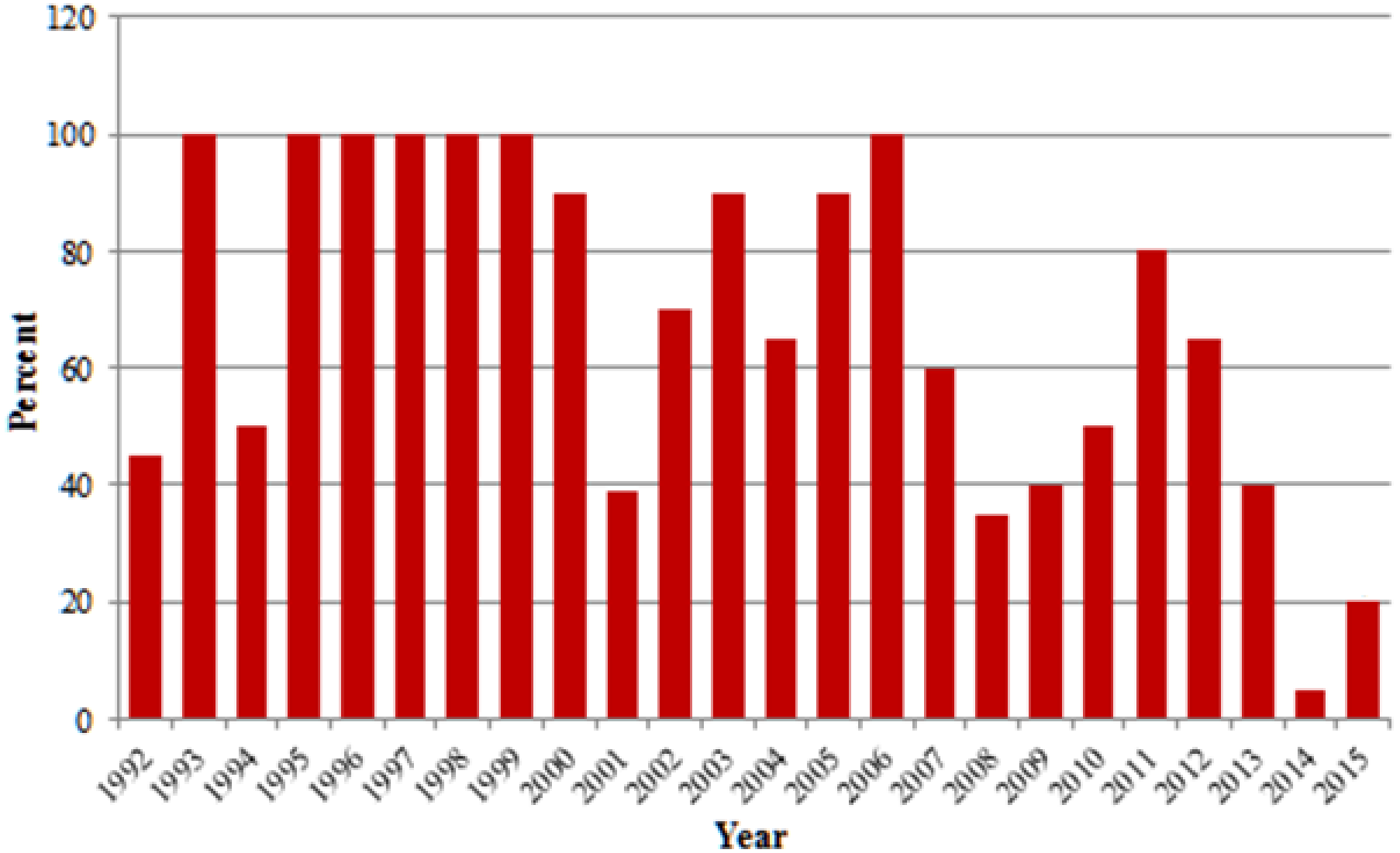


Figure 5. Annual State Water Project Delivery Allocations

Storage in 154 Major CA In-State Reservoirs on September 30, Amount in MAF

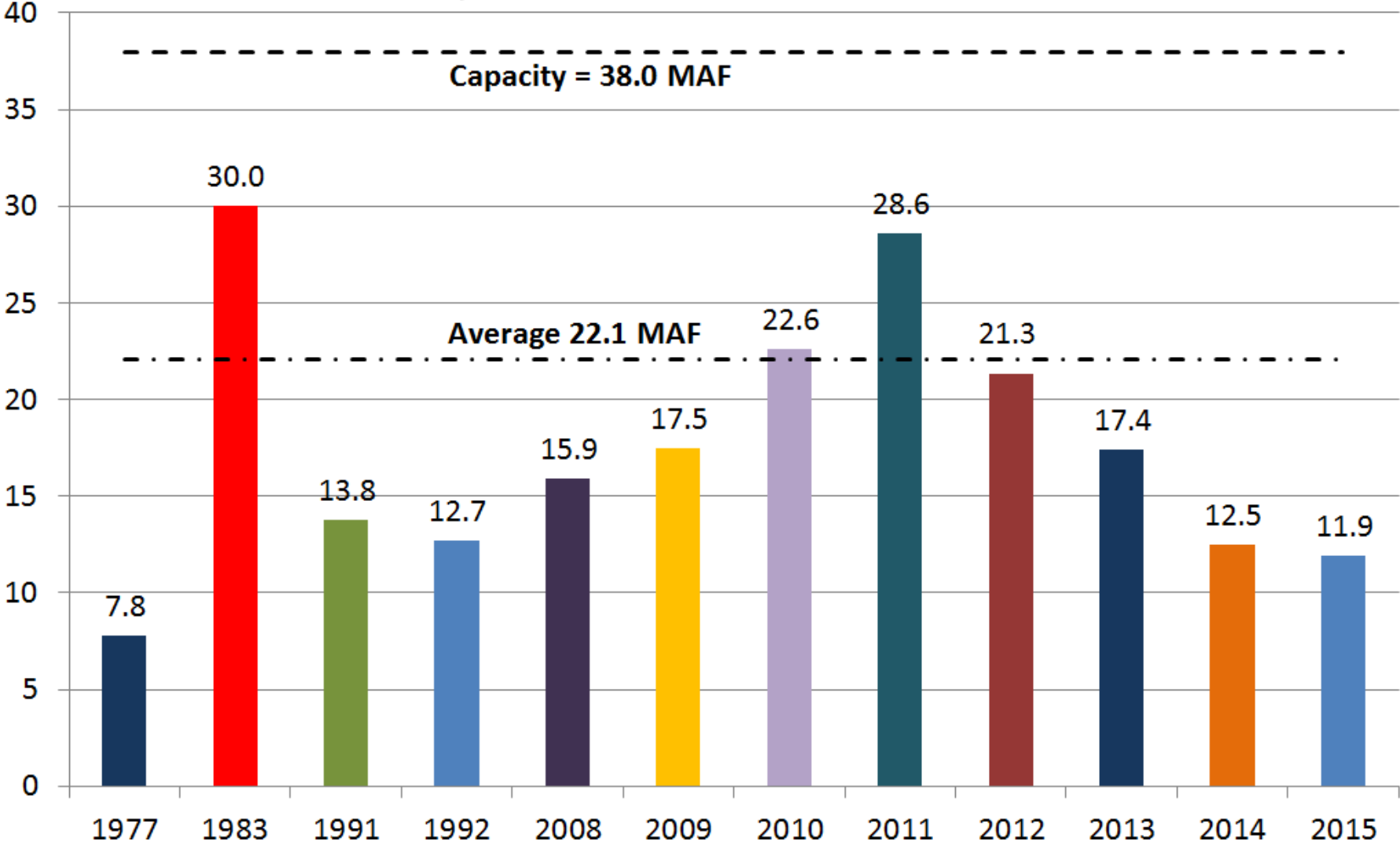


Figure 6. Water Storage in 154 Major California Reservoirs

April 1 Snowpack Water Content Statewide Percent of Average

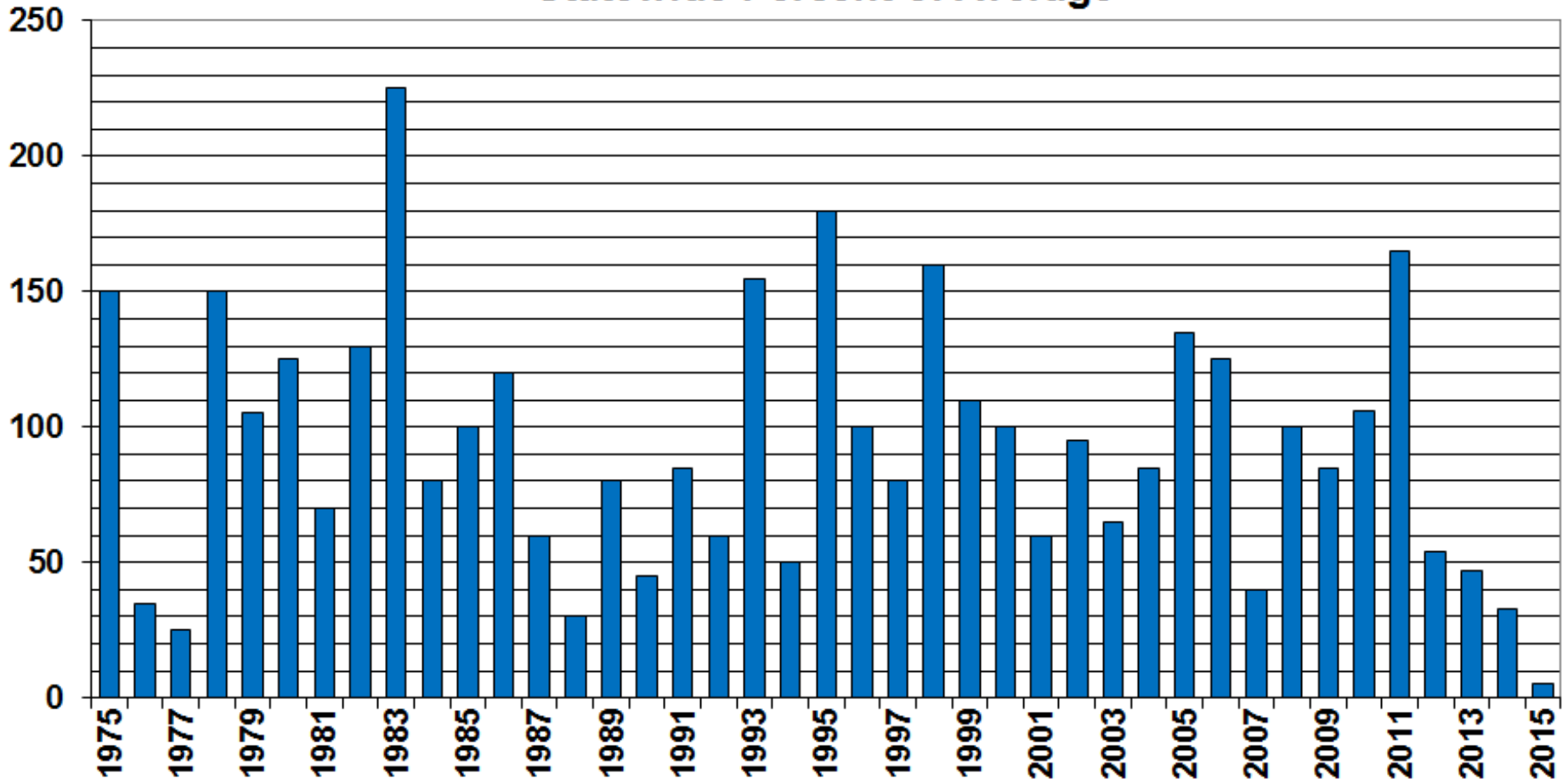


Figure 7. April 1 California Snowpack

Figure 8. Northern Sierra Precipitation

Comparison of WY 2015 and 2016

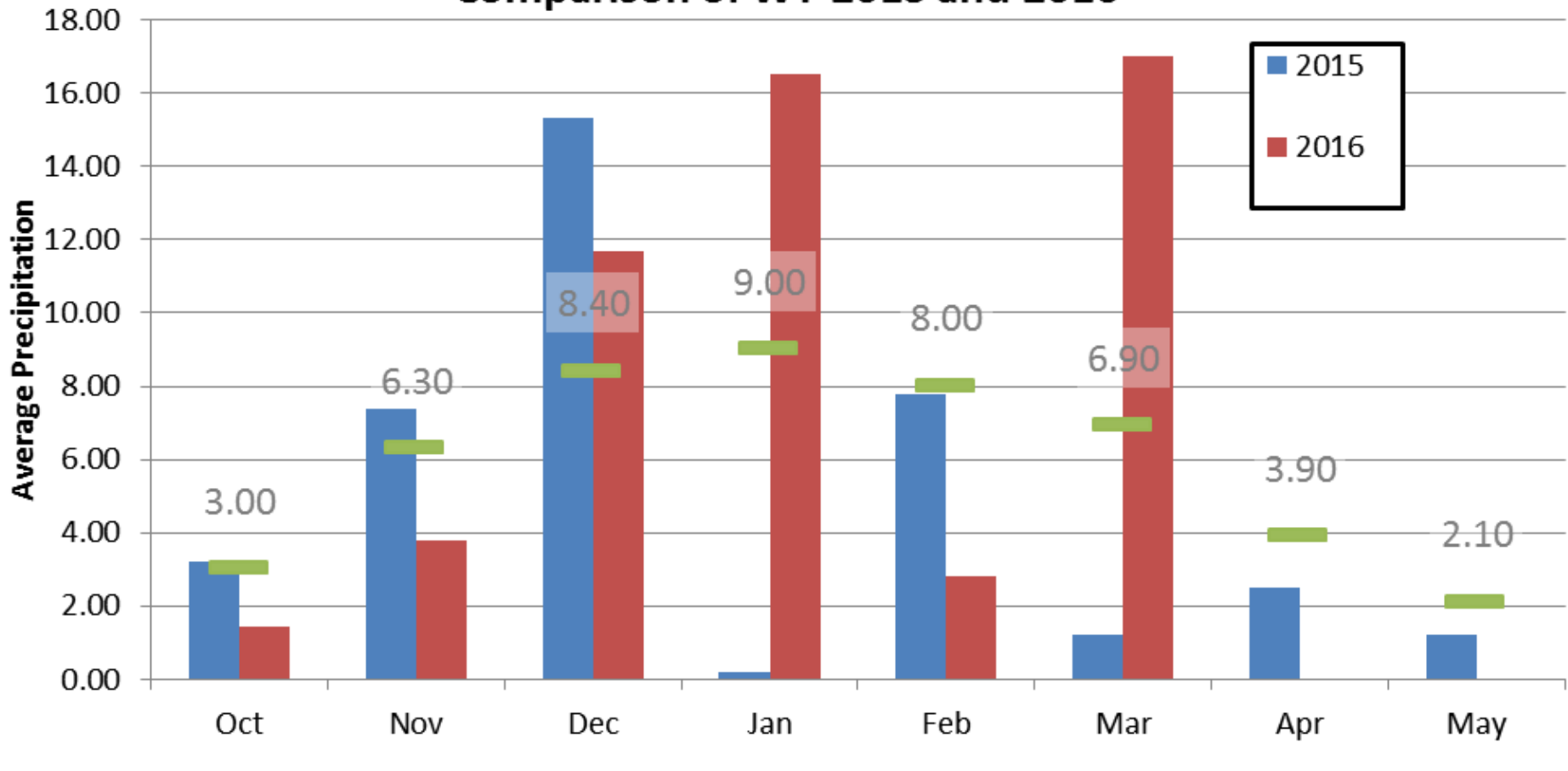


Figure 8. Northern Sierra Precipitation

2016 Water Year Mid-Sierra Snowpack Buildup

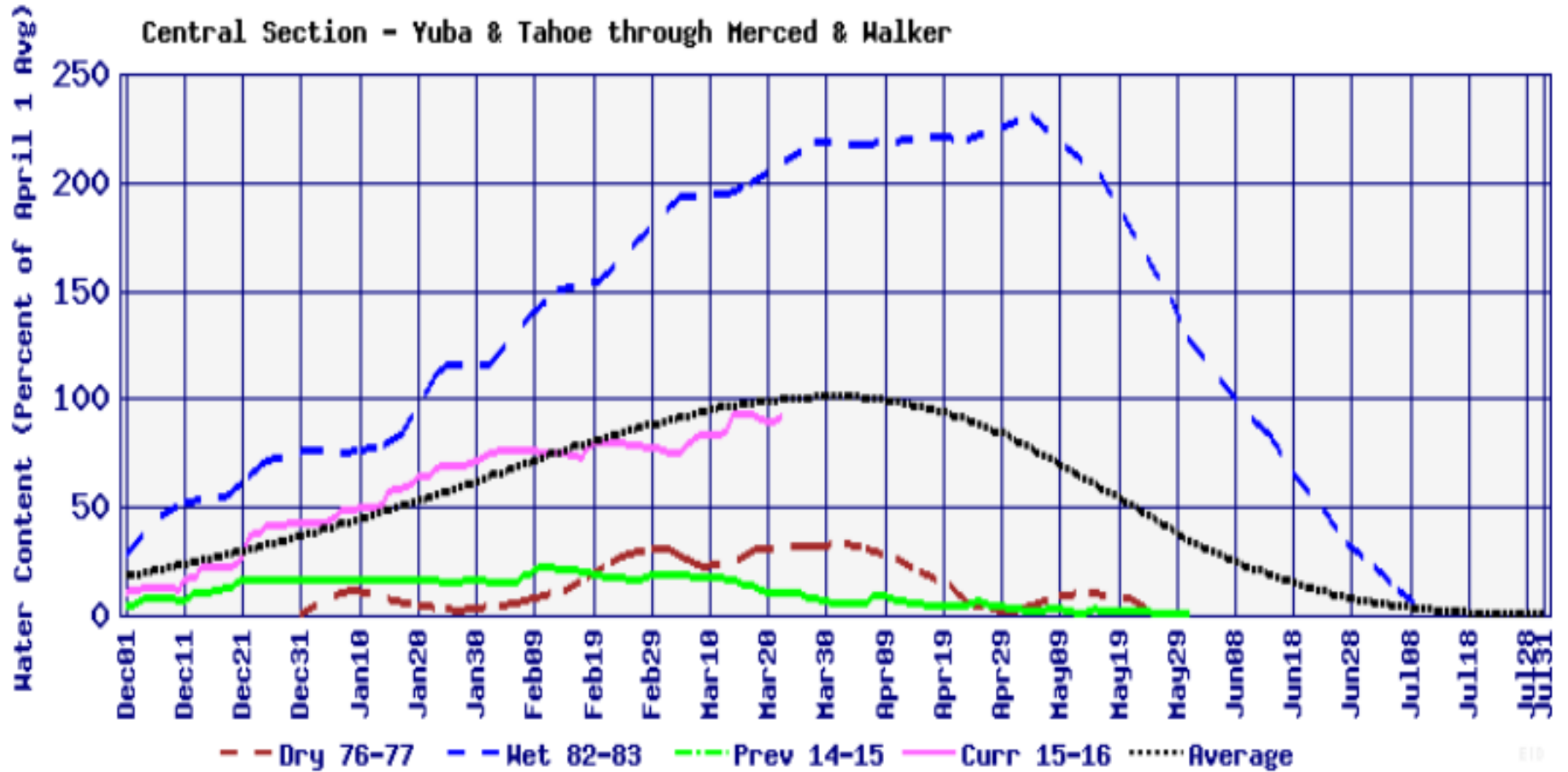


Figure 9. 2016 Mid-Sierra Snowpack Buildup