California Drought, ICID Gwangju, Korea, Meeting, Sept 2014*

by Maury Roos

* Updated for CA Snow Cooperators Meeting

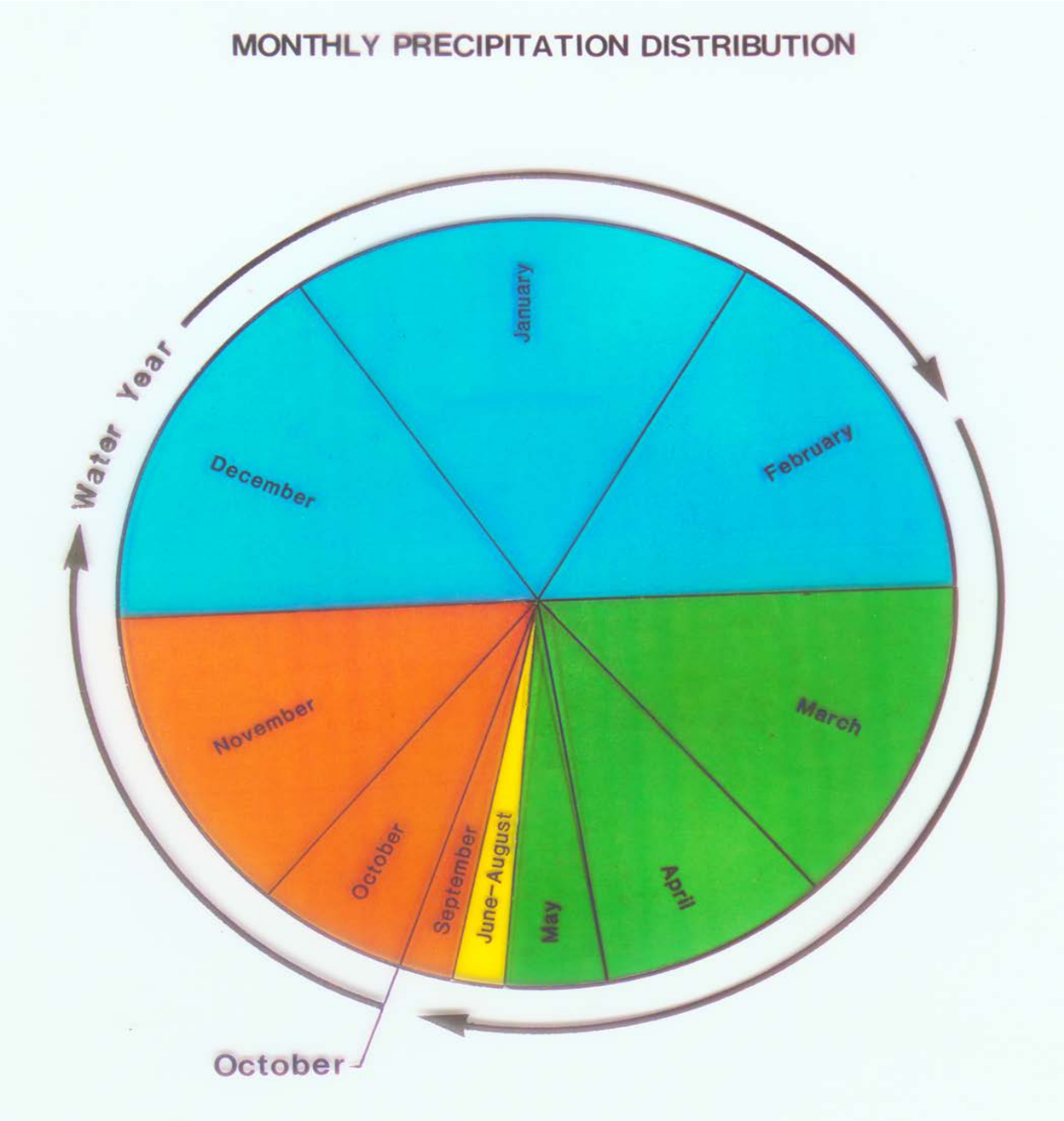

MONTHLY PRECIPITATION DISTRIBUTION
Water Year
January
February
March
April
May
June–August
September
October
November
December
October

CHART 1

Northern Sierra 8 Station Precipitation for Water Years 2013 and 2014

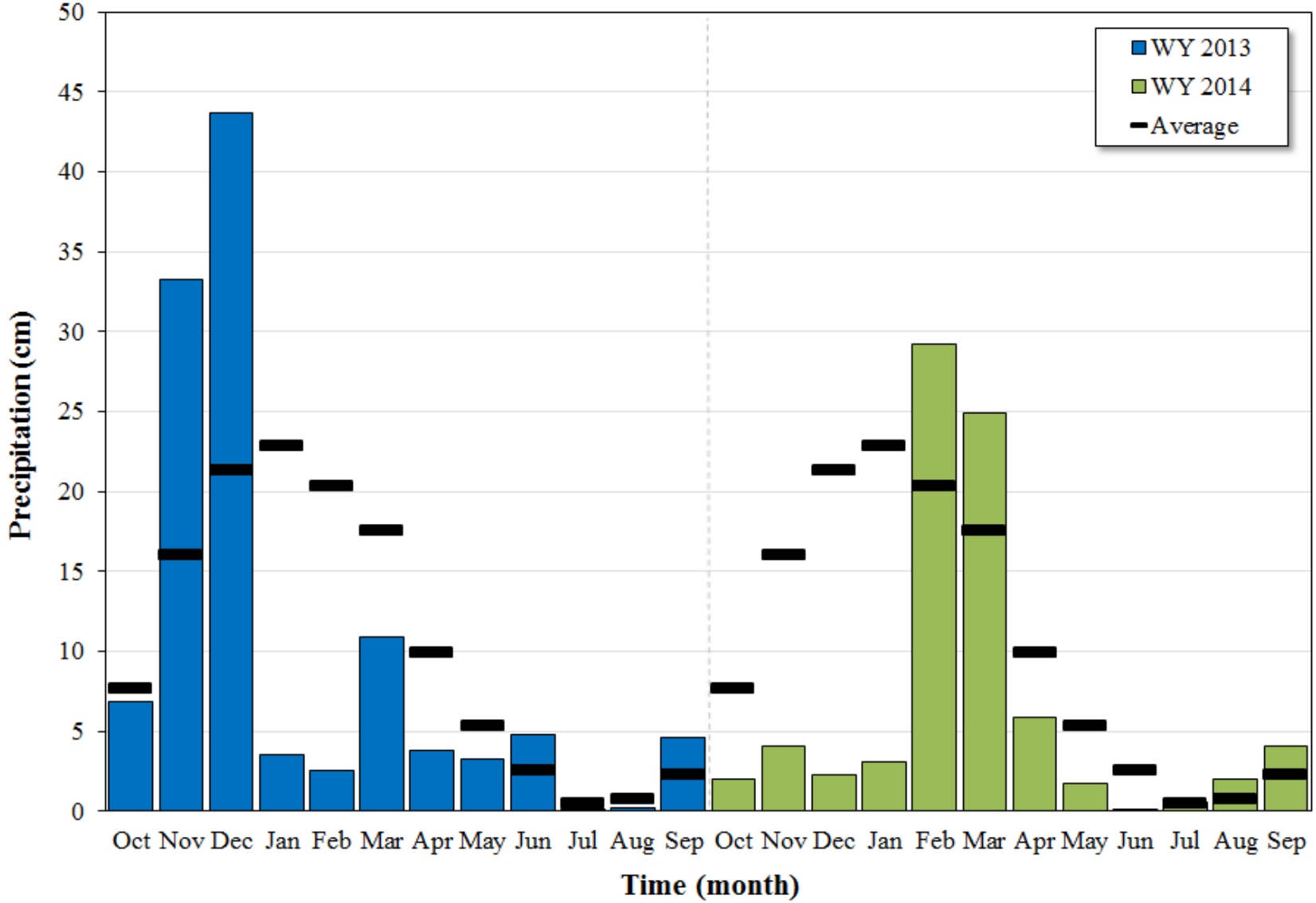


CHART 2

2014 Water Year
Mid-Sierra Snowpack Buildup

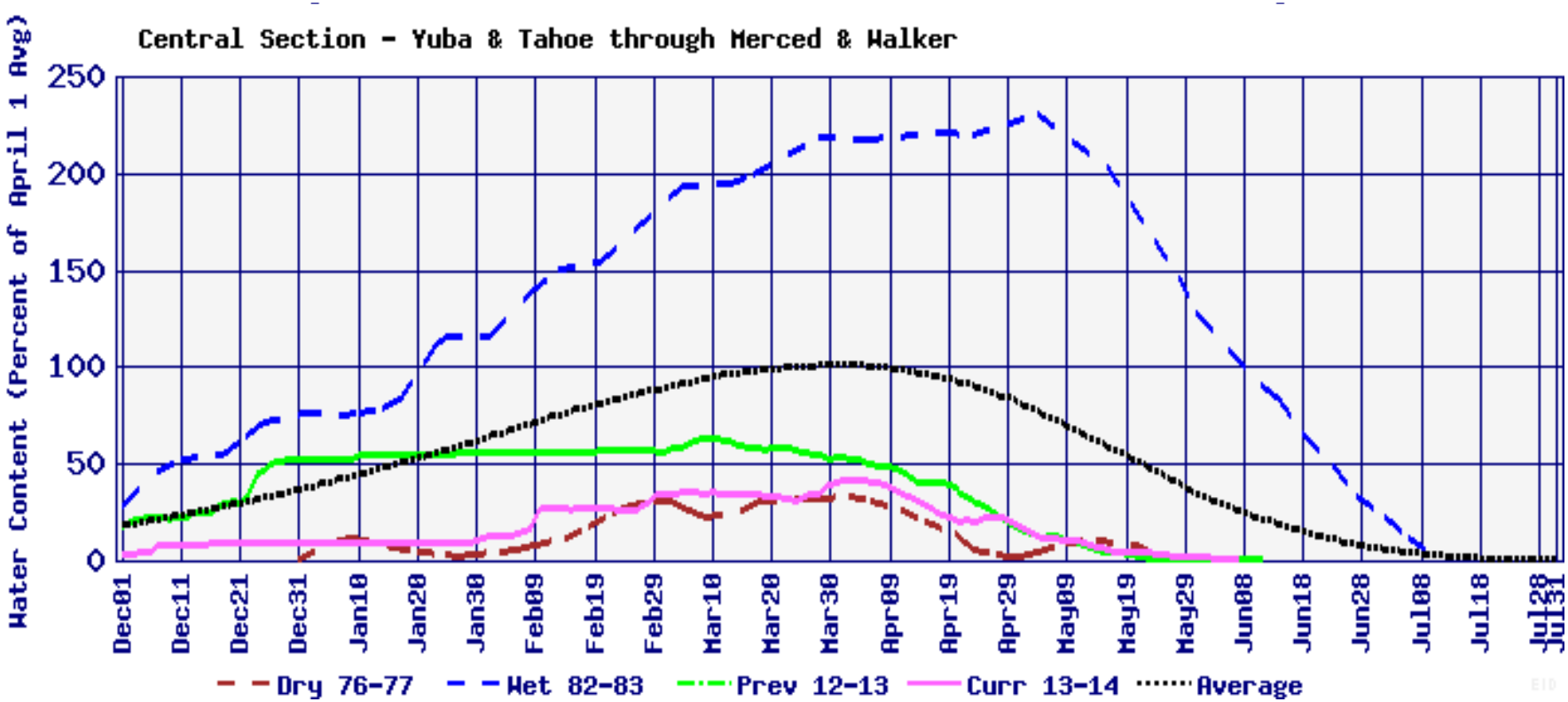


CHART 3

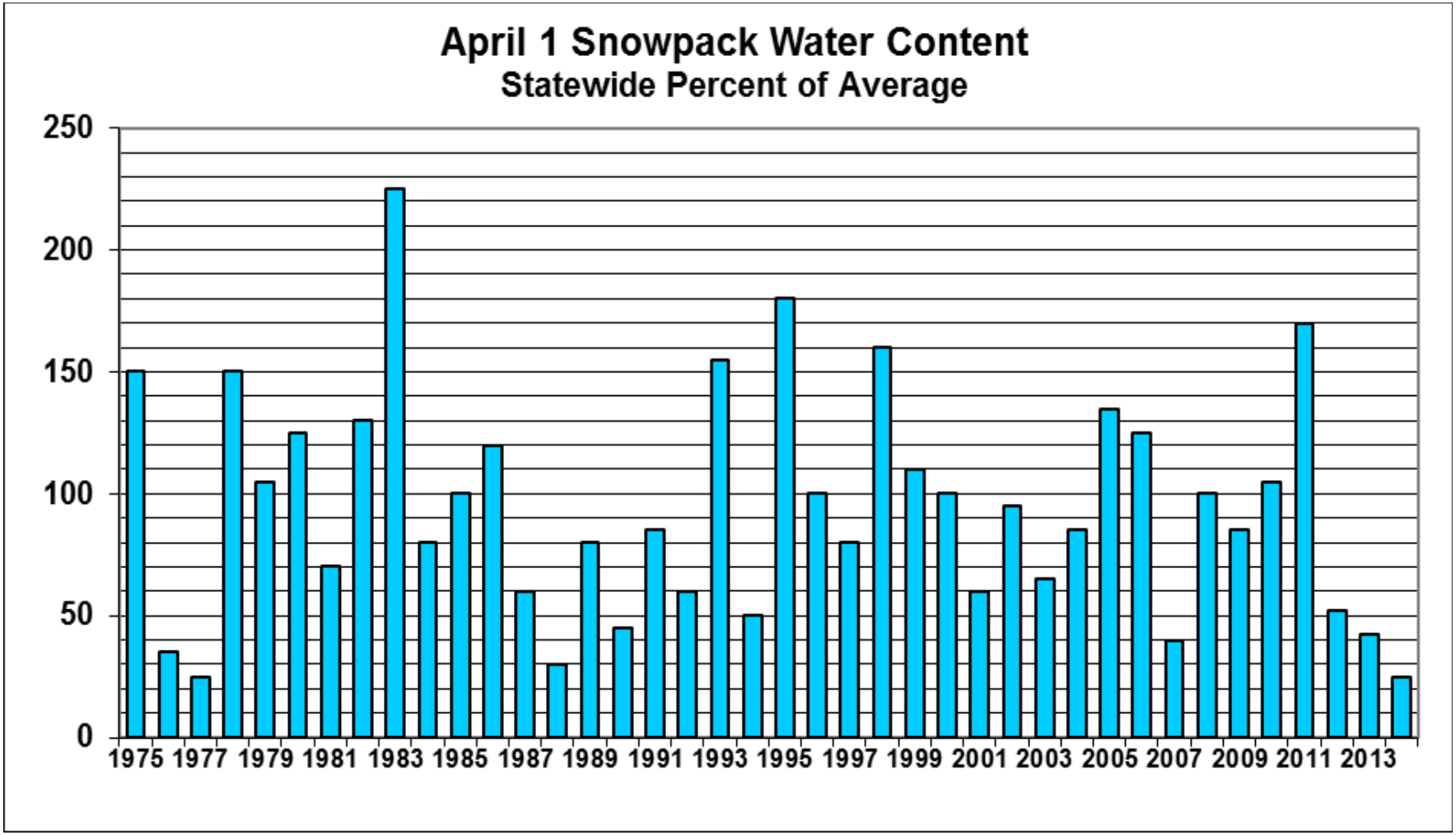

April 1 Snowpack Water Content
Statewide Percent of Average
250
200
150
100
50
0
1975 1977 1979 1981 1983 1985 1987 1989 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013

CHART 4

April 1 Snow-Water Content
13 Northern Sierra Nevada Snow Courses

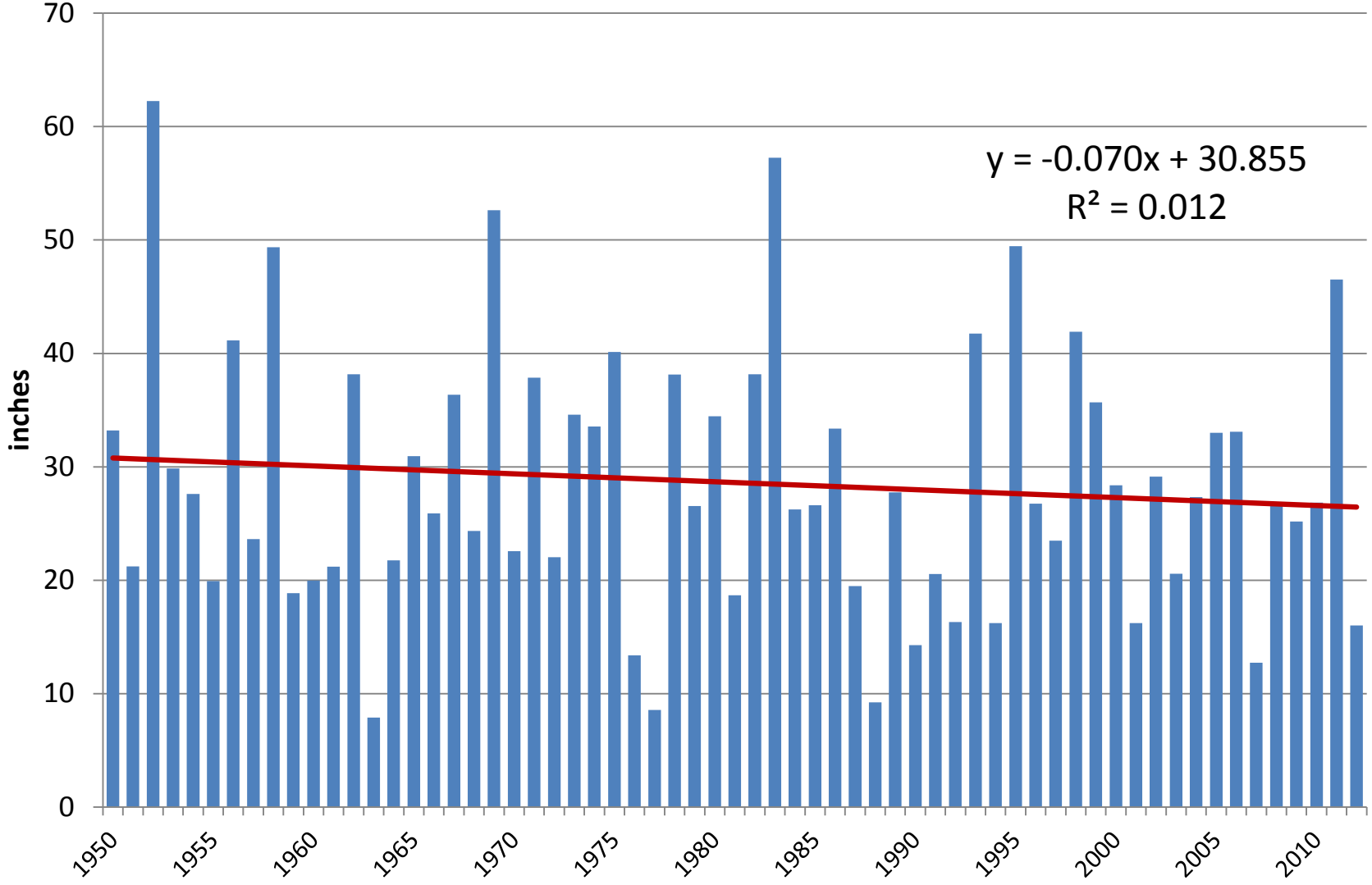


CHART 5

April 1 Snow Water Content
12 Northern Sierra Snow Courses

(Original 13 less Lake Spaulding)

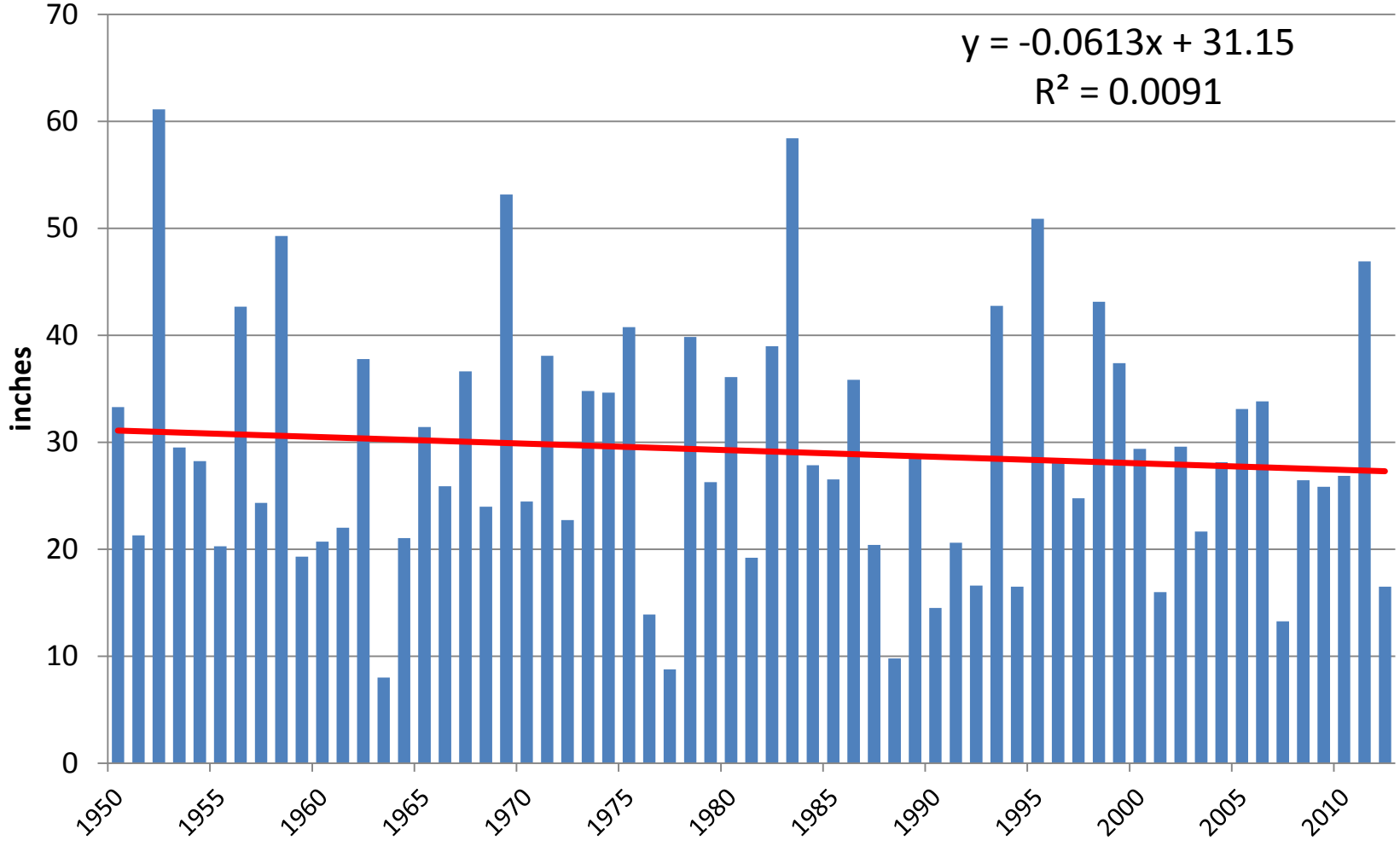


CHART 6

April 1 Snow-Water Content
13 Southern Sierra Nevada Snow Courses

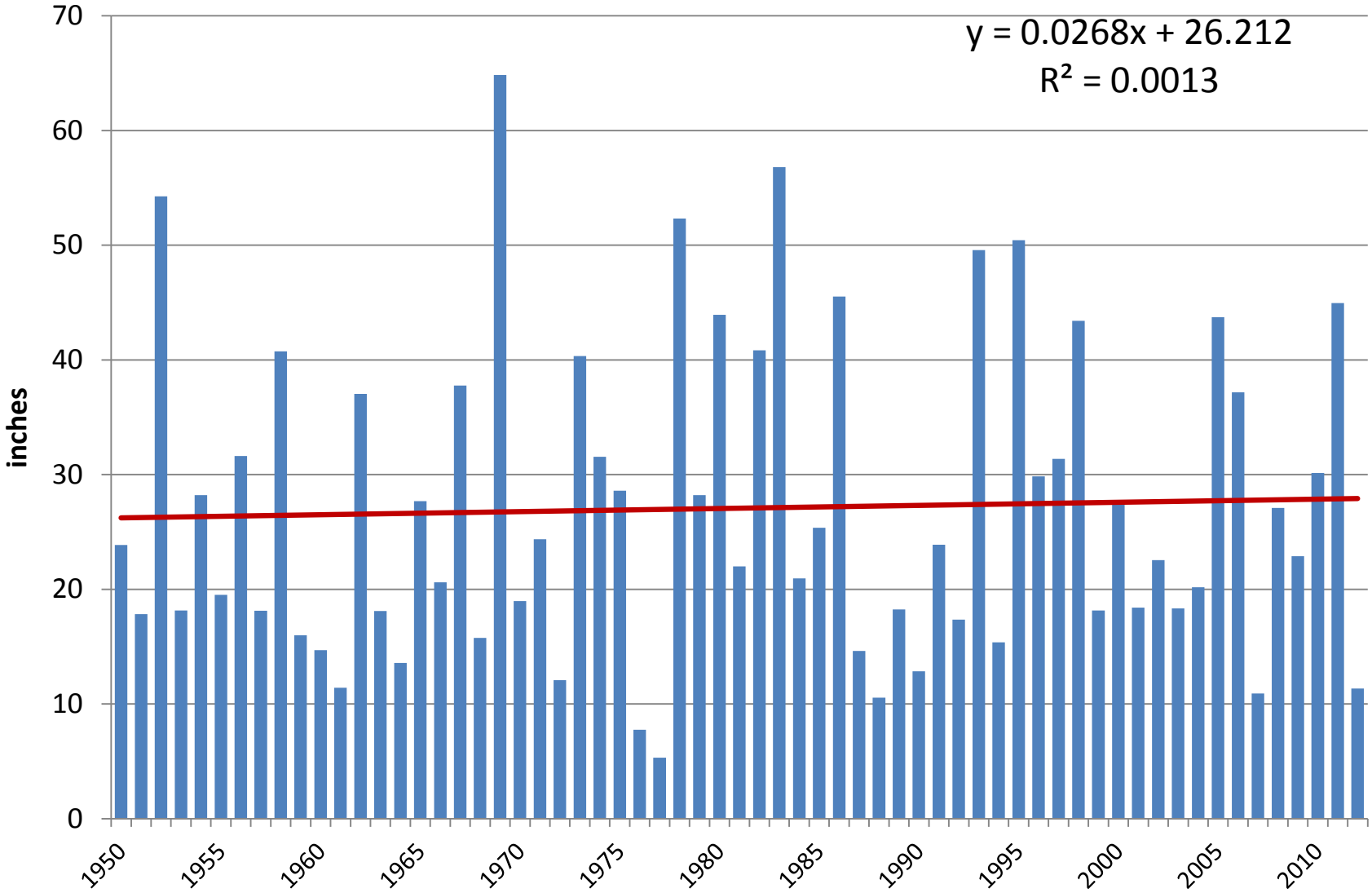


CHART 7

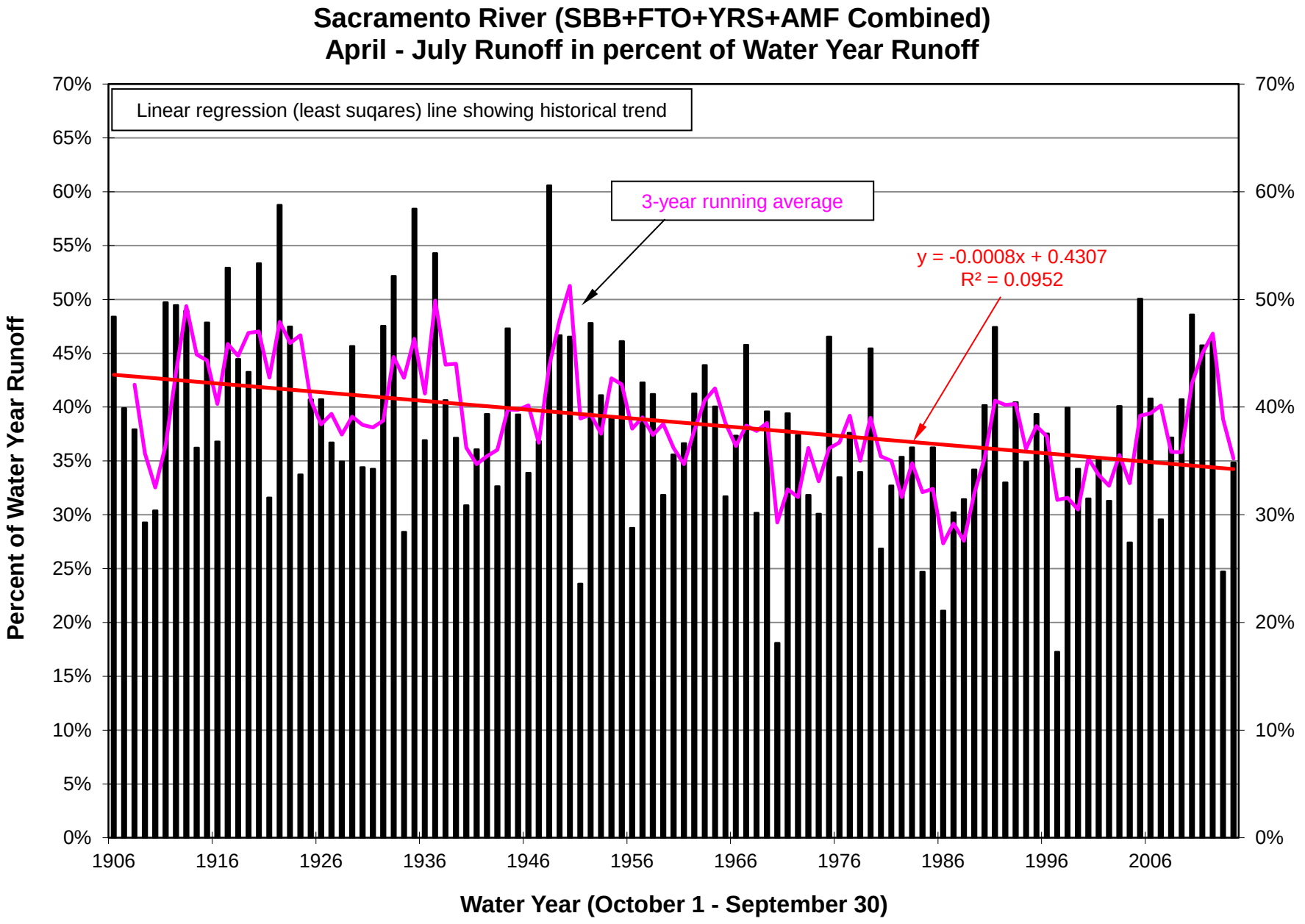

Sacramento River (SBB+FTO+YRS+AMF Combined)
April - July Runoff in percent of Water Year Runoff
Linear regression (least suqares) line showing historical trend
3-year running average
y = -0.0008x + 0.4307
R² = 0.0952
Percent of Water Year Runoff
70%
65%
60%
55%
50%
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
1906
1916
1926
1936
1946
1956
1966
1976
1986
1996
2006
Water Year (October 1 - September 30)

CHART 8

Sacramento River Unimpaired Runoff Since 1906

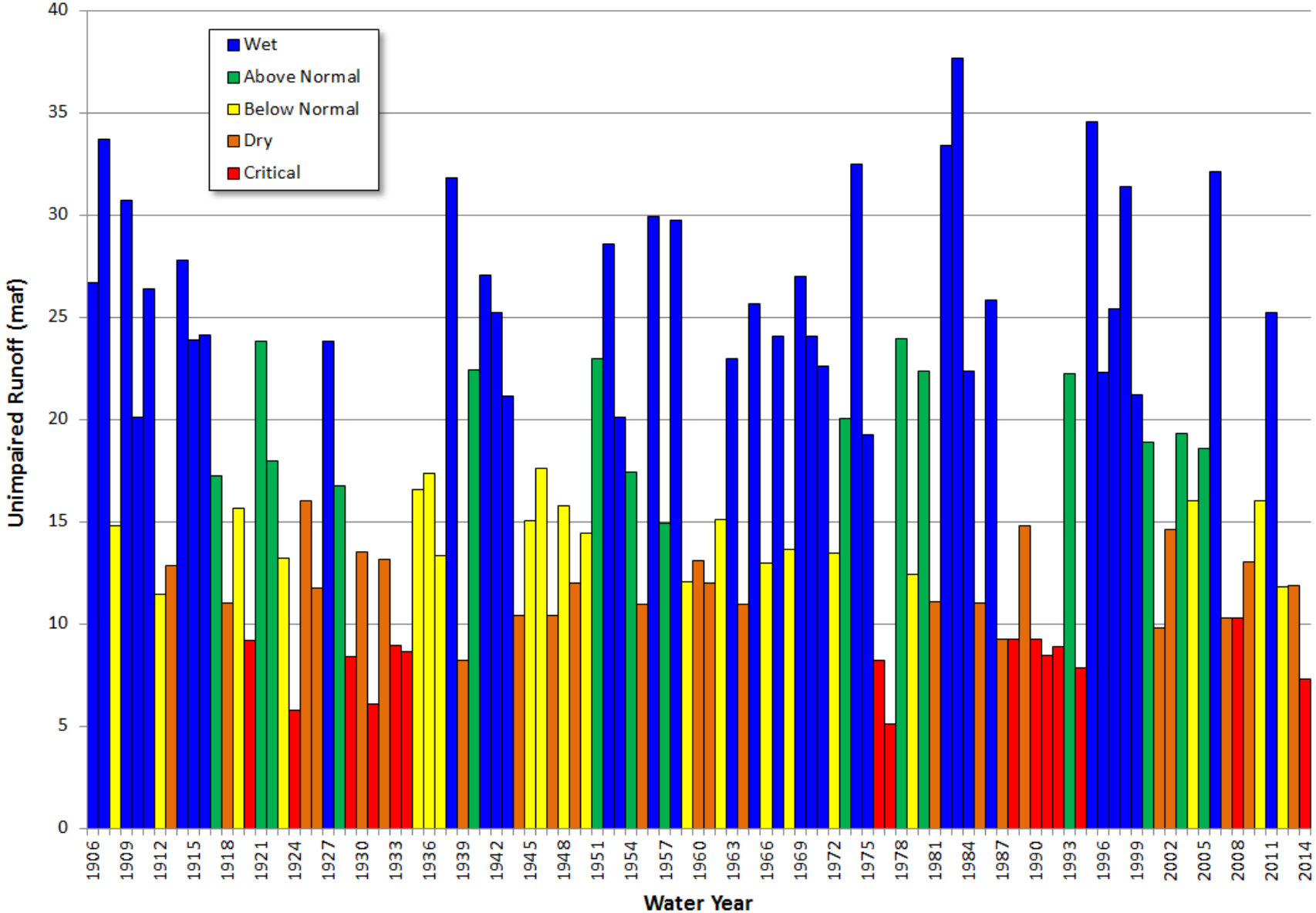


CHART 9

Sacramento River Unimpaired Runoff Since 1970

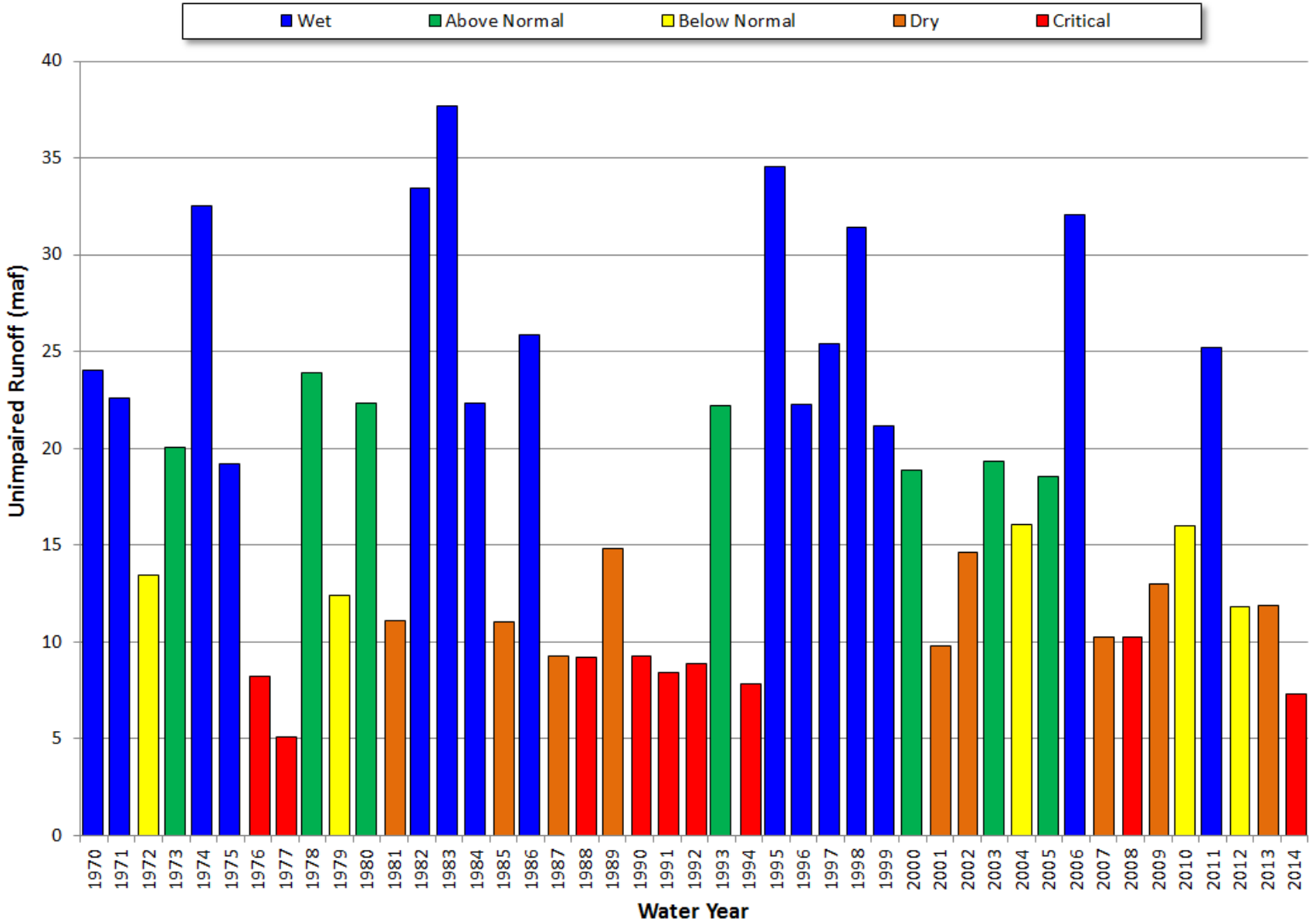


CHART 10

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

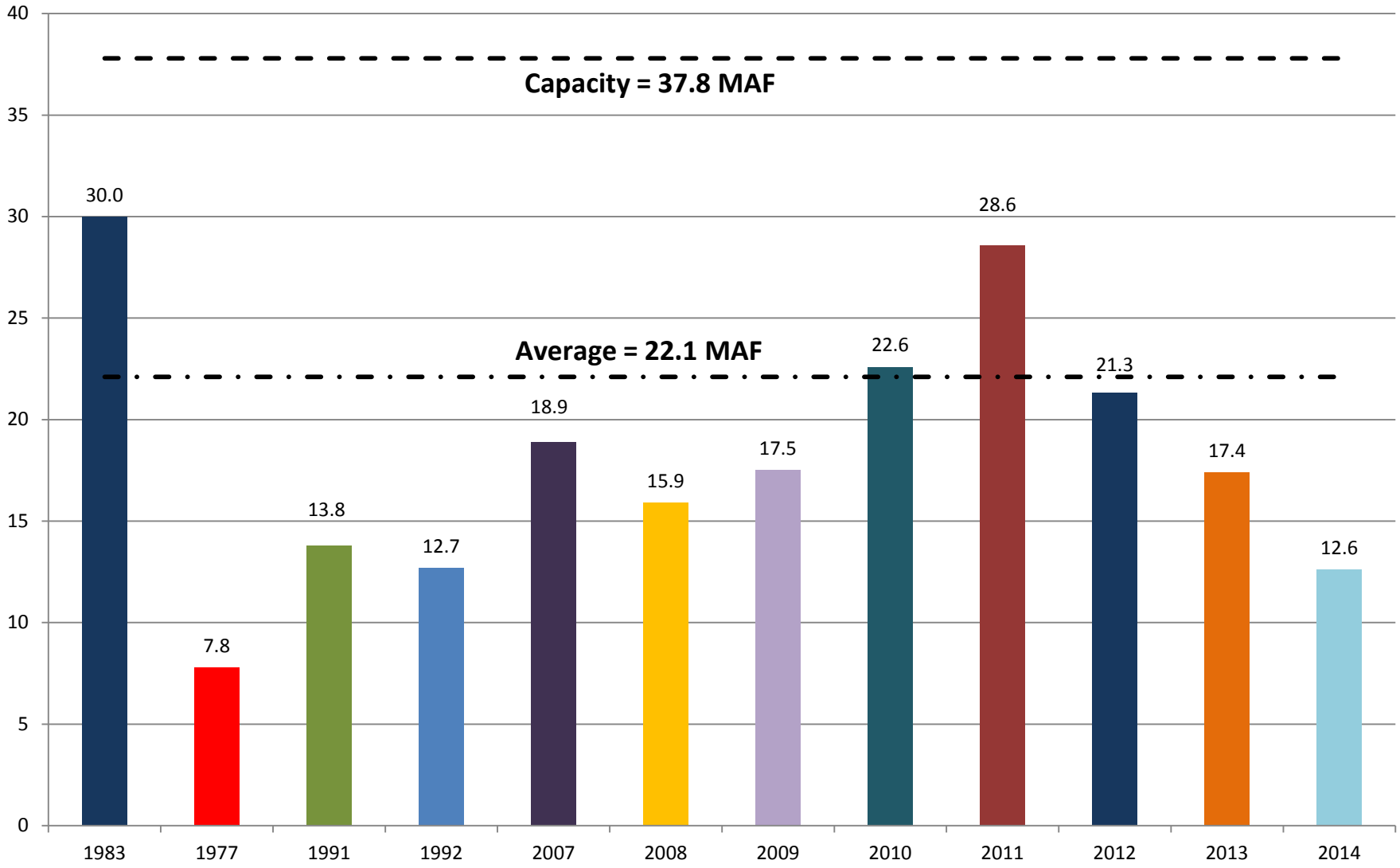
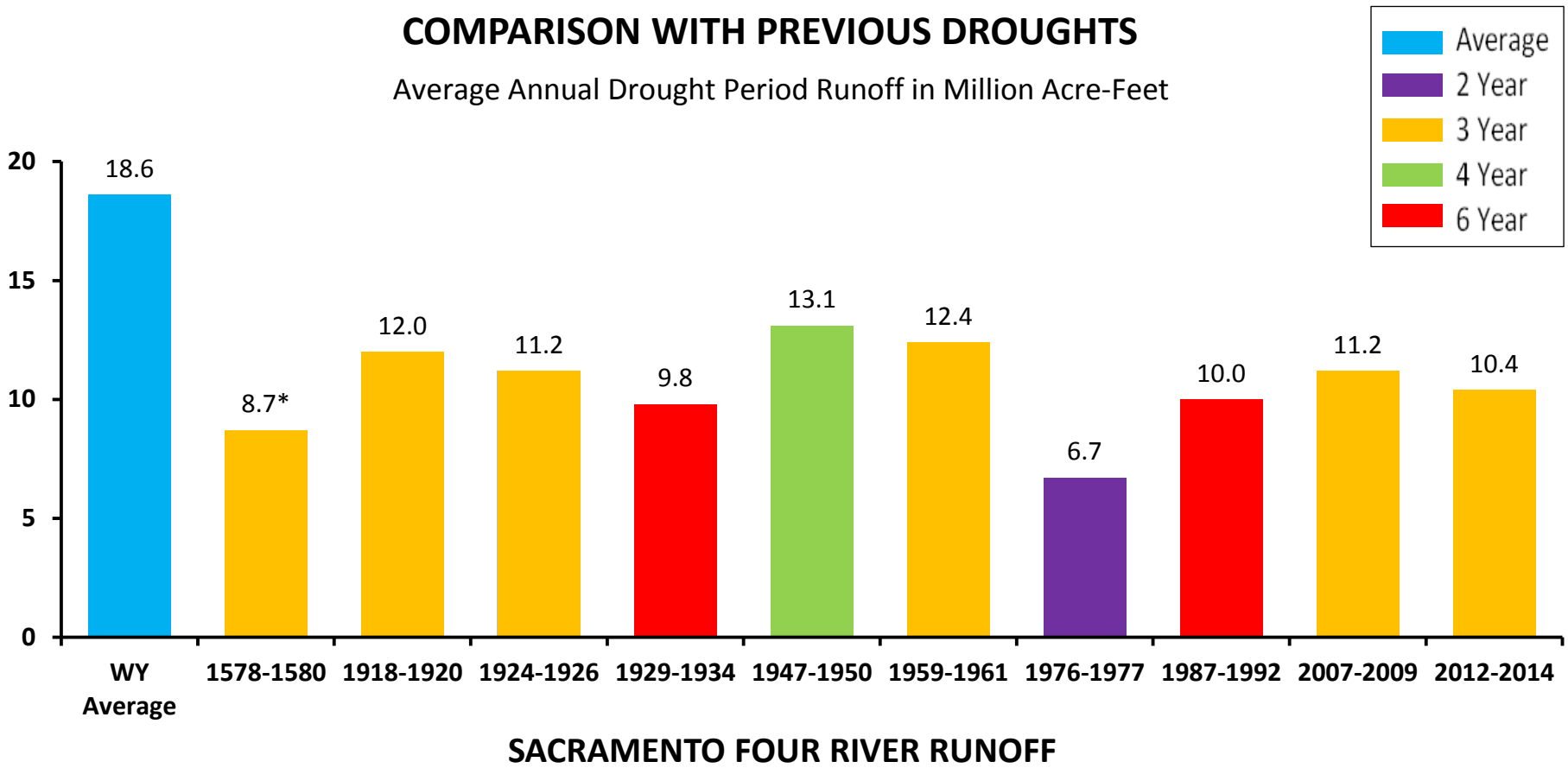
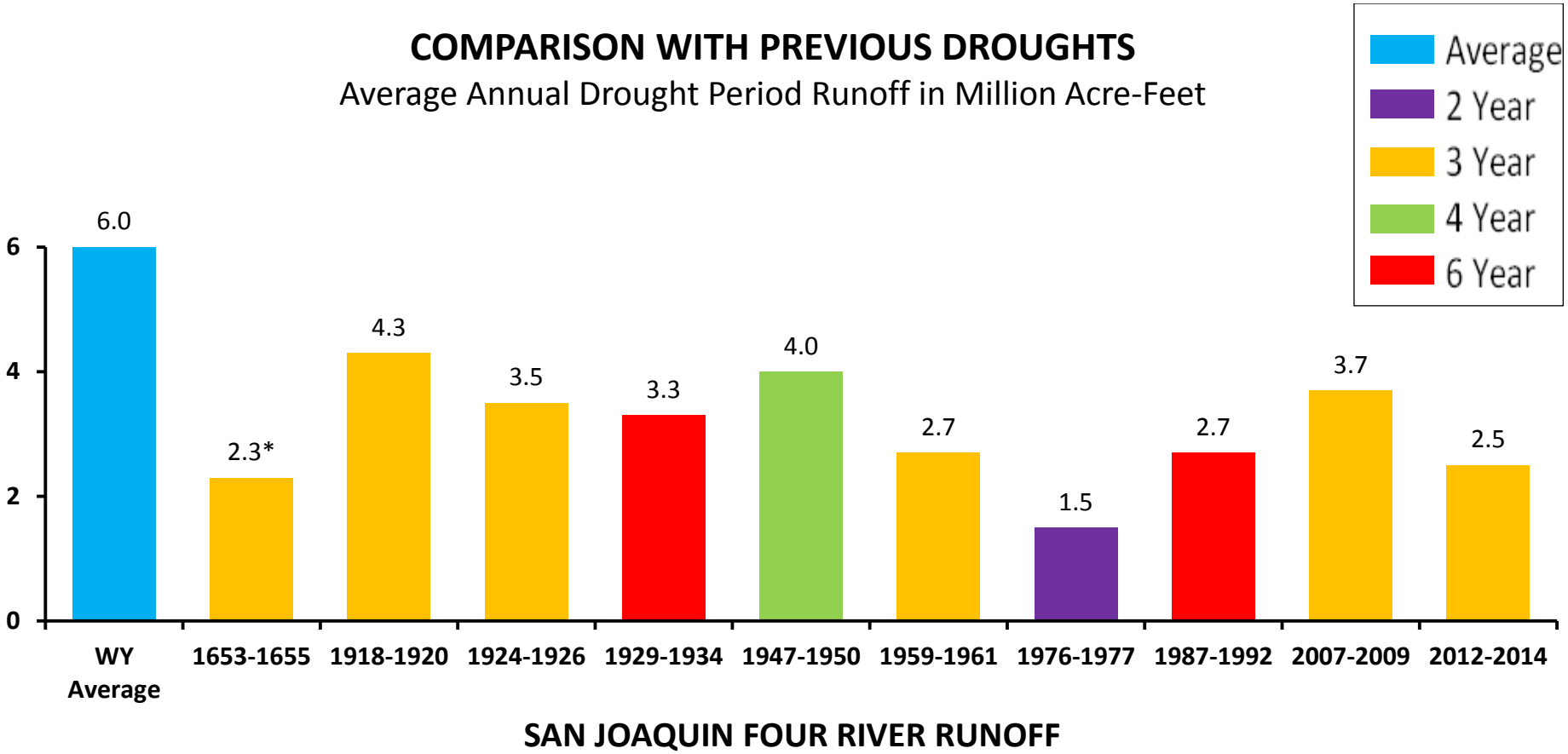


CHART 11



* From tree rings

CHART 12



* From tree rings

CHART 13