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

by Maury Roos
2014 Water Year
Mid-Sierra Snowpack Buildup
April 1 Snowpack Water Content
Statewide Percent of Average

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

\[ y = -0.070x + 30.855 \]
\[ R^2 = 0.012 \]
April 1 Snow Water Content
12 Northern Sierra Snow Courses
(Original 13 less Lake Spaulding)

\[ y = -0.0613x + 31.15 \]
\[ R^2 = 0.0091 \]

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

\[ y = 0.0268x + 26.212 \]
\[ R^2 = 0.0013 \]
Sacramento River (SBB+FTO+YRS+AMF Combined)
April - July Runoff in percent of Water Year Runoff

Linear regression (least squares) line showing historical trend

\[ y = -0.0008x + 0.4312 \]
\[ R^2 = 0.0938 \]

3-year running average

Sacramento River Unimpaired Runoff Since 1906

Unimpaired Runoff (mcf)

Water Year
Storage in 154 Major In-State Reservoirs on September 1 Amount in MAF

Storage in 154 Major In-State Reservoirs on September 1 Amount in MAF

Sacramento River Unimpaired Runoff Since 1970
**COMPARISON WITH PREVIOUS DROUGHTS**

Average Annual Drought Period Runoff in Million Acre-Feet

**SACRAMENTO FOUR RIVER RUNOFF**

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<td>Average</td>
<td>1578-1580</td>
<td>11.2</td>
<td>9.8</td>
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* From tree rings

**SAN JOAQUIN FOUR RIVER RUNOFF**

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