Project Operations Update
State Water Resource Control Board
February 16, 2016
Overview of Current Hydrology
North Sierra Precipitation: 8-Station Index, February 12, 2016

Percent of Average for this Date: 109%

MSC - Mount Shasta City
SHA - Shasta Dam
MNR - Mineral
QRD - Quincy
BCM - Brush Creek
SRR - Sierraville RS
BYM - Blue Canyon
PCF - Pacific House

1982-1983 (wettest) 88.5
1997-1998 82.4
Average (1922-1998) 50.0
2014-2015 Daily Precip 37.2
1976-1977 (2nd driest & driest thru Aug) 19.0

Cumulative Daily/Monthly Precipitation (inches)
Total Water Year Precipitation

Water Year (October 1 - September 30)
Northern Sierra 8-Station

Precipitation Index for Water Year 2016 - Updated on February 12, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding.
Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST.
San Joaquin 5-Station

Precipitation Index for Water Year 2016 - Updated on February 12, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding.
Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST.
Tulare Basin 6-Station
Precipitation Index for Water Year 2016 - Updated on February 12, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding.
Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST.

Average

WY 2016
Trinity Lake Conditions
(as of Midnight - February 11, 2016)

Current Level: 740,013 AF
30% (Total Capacity) | 42% (Historical Avg.)

Data Updated 02/12/2016 08:45 AM
Lake Shasta Conditions
(as of Midnight - February 11, 2016)

Current Level: 2,521,766 AF
55% (Total Capacity)  80% (Historical Avg.)

Data Updated 02/12/2016 08:45 AM
Folsom Lake Conditions
(as of Midnight - February 11, 2016)

Current Level: 608,312 AF
62% (Total Capacity)    117% (Historical Avg.)

Data Updated 02/12/2016 08:45 AM
New Melones Storage Levels

Total Reservoir Capacity: 2,400,000 AF

Historical Average | Total Reservoir Capacity | 2013-2014 | 2014-2015 | 2015-2016 (current)

- Current Level: 426,167 AF
- Water Year (October 1 - September 30)

Data Updated 02/15/2016 12:46 PM
Reservoir Conditions - San Luis

San Luis Conditions
(as of Midnight - February 11, 2016)

Current Level: 760,130 AF
37% (Total Capacity) | 46% (Historical Avg.)

Data Updated 02/12/2016 08:45 AM
Current Regional Snowpack from Automated Snow Sensors

% of April 1 Average / % of Normal for This Date

<table>
<thead>
<tr>
<th>Region</th>
<th>Data as of February 12, 2016</th>
<th>Number of Stations Reporting</th>
<th>Average snow water equivalent (inches)</th>
<th>Percent of April 1 Average (%)</th>
<th>Percent of normal for this date (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORTH</td>
<td></td>
<td>29</td>
<td>22.8</td>
<td>79</td>
<td>105</td>
</tr>
<tr>
<td>CENTRAL</td>
<td></td>
<td>40</td>
<td>21.4</td>
<td>74</td>
<td>100</td>
</tr>
<tr>
<td>SOUTH</td>
<td></td>
<td>31</td>
<td>16.6</td>
<td>65</td>
<td>92</td>
</tr>
<tr>
<td>STATE</td>
<td></td>
<td>100</td>
<td>20.4</td>
<td>73</td>
<td>100</td>
</tr>
</tbody>
</table>

Statewide Average: 73% / 100%

Data as of February 12, 2016
California Snow Water Content - Percent of April 1 Average For: 12-Feb-2016

NORTH
Percent of Apr 1 Avg: 79%
Percent of Normal: 105%

CENTRAL
Percent of Apr 1 Avg: 74%
Percent of Normal: 100%

SOUTH
Percent of Apr 1 Avg: 65%
Percent of Normal: 92%

Dec Jan Feb Mar Apr May Jun Jul

SACRAMENTO RIVER
UNIMPAIRED RUNOFF
2016 Water Year Forecast as of February 1, 2016

<table>
<thead>
<tr>
<th>Date of Forecast</th>
<th>99%</th>
<th>90%</th>
<th>75%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average</td>
<td>18.3</td>
<td>18.3</td>
<td>18.3</td>
<td>18.3</td>
<td>18.3</td>
<td>18.3</td>
</tr>
<tr>
<td>December 1, 2015</td>
<td>3.9 (21%)</td>
<td>6.5 (36%)</td>
<td>8.9 (49%)</td>
<td>12.8 (70%)</td>
<td>17.5 (96%)</td>
<td>22.5 (123%)</td>
</tr>
<tr>
<td>January 1, 2016</td>
<td>6.9 (38%)</td>
<td>9.1 (50%)</td>
<td>11.3 (62%)</td>
<td>14.4 (79%)</td>
<td>18.4 (101%)</td>
<td>22.8 (125%)</td>
</tr>
<tr>
<td>February 1, 2016</td>
<td>10.4 (57%)</td>
<td>12.3 (67%)</td>
<td>14.3 (78%)</td>
<td>16.3 (89%)</td>
<td>20.8 (114%)</td>
<td>25.1 (138%)</td>
</tr>
</tbody>
</table>

Water Year Runoff in million acre feet & (percent of average)

Sacramento River Runoff is the sum of unimpaired flow in million acre-feet at:
Sacramento River above Bend Bridge
Feather River at Oroville (aka inflow to Lake Oroville)
Yuba River near Smartville
American River below Folsom Lake

Water Year Runoff through end of last month:
2016 (current year) = 4.9 MAF  87% of avg.
2015 (last year) = 4.3 MAF  76% of avg.

Previous Water Year Total Runoff:
2015 = 9.3 MAF  51% of avg.
1977 (Min) = 5.1 MAF  28% of avg.
1983 (Max) = 37.7 MAF  206% of avg.
1961-2010 average = 18.3 MAF
SACRAMENTO VALLEY
WATER YEAR TYPE INDEX (40-30-30)
2016 Water Year Forecast as of February 1, 2016

<table>
<thead>
<tr>
<th>Date of Forecast</th>
<th>99%</th>
<th>90%</th>
<th>75%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 1, 2015</td>
<td>2.4</td>
<td>3.3</td>
<td>4.0</td>
<td>5.3</td>
<td>6.8</td>
<td>8.5</td>
</tr>
<tr>
<td>January 1, 2016</td>
<td>3.4</td>
<td>4.1</td>
<td>4.8</td>
<td>5.8</td>
<td>7.2</td>
<td>8.6</td>
</tr>
<tr>
<td>February 1, 2016</td>
<td>4.5</td>
<td>5.1</td>
<td>5.8</td>
<td>6.5</td>
<td>8.0</td>
<td>9.5</td>
</tr>
</tbody>
</table>

Water Year Index based on flow in million acre-feet

Index = 0.4 * Current Apr-Jul Runoff (1) + 0.3 * Current Oct-Mar Runoff (2) + 0.3 * Previous Year's Index (2)

Notes:
(1) Runoff is the sum of unimpaired flow in million acre-feet at:
Sacramento River above Bend Bridge
Feather River at Oroville (aka inflow to Lake Oroville)
Yuba River near Smartville
American River below Folsom Lake
(2) Maximum 10.0 for previous year index term

Previous Water Year Indices:

- 2015 = 4.0 49% of avg.
- 1977 (Min) = 3.1 38% of avg.
- 1983 (Max) = 15.3 186% of avg.
- 1961-2010 average = 8.2

Year Classification

<table>
<thead>
<tr>
<th>TYPE</th>
<th>INDEX</th>
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</thead>
<tbody>
<tr>
<td>Wet</td>
<td>9.2</td>
</tr>
<tr>
<td>Above</td>
<td>7.8</td>
</tr>
<tr>
<td>Normal</td>
<td>6.5</td>
</tr>
<tr>
<td>Below</td>
<td>5.4</td>
</tr>
<tr>
<td>Dry</td>
<td></td>
</tr>
<tr>
<td>Critical</td>
<td></td>
</tr>
</tbody>
</table>
SAN JOAQUIN VALLEY
WATER YEAR TYPE INDEX (60-20-20)
2016 Water Year Forecast as of February 1, 2016

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<thead>
<tr>
<th>Date of Forecast</th>
<th>99%</th>
<th>90%</th>
<th>75%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 1, 2015</td>
<td>0.6</td>
<td>1.1</td>
<td>1.5</td>
<td>2.2</td>
<td>3.0</td>
<td>4.0</td>
</tr>
<tr>
<td>January 1, 2016</td>
<td>1.0</td>
<td>1.4</td>
<td>1.9</td>
<td>2.4</td>
<td>3.1</td>
<td>3.9</td>
</tr>
<tr>
<td>February 1, 2016</td>
<td>1.7</td>
<td>2.0</td>
<td>2.4</td>
<td>2.8</td>
<td>3.7</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Water Year Index based on flow in million acre-feet

\[
\text{Index} = 0.6 \times \text{Current Apr-Jul Runoff}^{(1)} + 0.2 \times \text{Current Oct-Mar Runoff}^{(2)} + 0.2 \times \text{Previous Year's Index}^{(3)}
\]

Notes:
(1) Runoff is the sum of unimpaired flow in million acre-feet at:
- Stanislaus River below Goodwin Reservoir (aka inflow to New Melones Reservoir)
- Tuolumne River below La Grange (aka inflow to New Don Pedro Reservoir)
- Merced River below Merced Falls (aka inflow to Lake McClure)
- San Joaquin River inflow to Millerton Lake
(2) Maximum 4.5 for previous year index term

Year Classification

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<tr>
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</thead>
<tbody>
<tr>
<td>Wet</td>
<td>3.8</td>
</tr>
<tr>
<td>Above Normal</td>
<td>3.1</td>
</tr>
<tr>
<td>Below Normal</td>
<td>2.5</td>
</tr>
<tr>
<td>Dry</td>
<td>2.1</td>
</tr>
<tr>
<td>Critical</td>
<td></td>
</tr>
</tbody>
</table>

Previous Water Year Indices:
- 2015 = 0.8, 25% of avg.
- 2015 (Min) = 0.8, 25% of avg.
- 1983 (Max) = 7.2, 219% of avg.
- 1981-2010 average = 3.3
Lake Shasta End of April Storage
Potential for Meeting Compliance Point Target of 56˚ F (Apr-Sep)

NOTES:
1. Relationship is based on modeled mean daily temperature, supported by historical operation.
2. The chart does not address the potential for meeting fall temperature targets.

FEB 2016 Shasta Predictions
At 90% and 50% Exceedance