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Based on measured unimpaired runoff (in million acre-feet), subject to revision.

*** See explanatory notes at bottom ***

WSIHIST (01/19/16 1412)

Department of Water Resources
California Cooperative Snow Surveys

Chronological Reconstructed Sacramento and San Joaquin Valley
Water Year Hydrologic Classification Indices

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1961-2010 mean

Official Year Classifications based on May 1 Runoff Forecasts

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Abbreviations:

WY  Water year (Oct 1 - Sep 30)
W   Wet year type
AN  Above normal year type
BN  Below normal year type
D   Dry year type
C   Critical year type
% exc. Probability in % that a given value will be exceeded
[maf] Million acre-feet

Notes:
Unimpaired runoff represents the natural water production of a river basin, unaltered by upstream diversions, storage, export of water to or import of water from other basins.

Sacramento River Runoff is the sum (in maf) of Sacramento River at Bend Bridge, Feather River inflow to Lake Oroville, Yuba River at Smartville, and American River inflow to Folsom Lake. The WY sum is also known as the Sacramento River Index, and was previously referred to as the "4 River Index" or "4 Basin Index". It was previously used to determine year type classifications under State Water Resources Control Board (SWRCB) Decision 1485.

Sacramento Valley Water Year Index = 0.4 * Current Apr-Jul Runoff Forecast (in maf) + 0.3 * Current Oct-Mar Runoff in (maf) + 0.3 * Previous Water Year's Index (if the Previous Water Year's Index exceeds 10.0, then 10.0 is used).

This index, originally specified in the 1995 SWRCB Water Quality Control Plan, is used to determine the Sacramento Valley water year type as implemented in SWRCB D-1641. Year types are set by first of month forecasts beginning in February. Final determination is based on the May 1 50% exceedence forecast.

Sacramento Valley Water Year Hydrologic Classification:

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San Joaquin River Runoff is the sum of Stanislaus River inflow to New Melones Lake, Tuolumne River inflow to New Don Pedro Reservoir, Merced River inflow to Lake McClure, and San Joaquin River inflow to Millerton Lake (in maf).

San Joaquin Valley Water Year Index = 0.6 * Current Apr-Jul Runoff Forecast (in maf) + 0.2 * Current Oct-Mar Runoff in (maf) + 0.2 * Previous Water Year's Index (if the Previous Water Year's Index exceeds 4.5, then 4.5 is used).

This index, originally specified in the 1995 SWRCB Water Quality Control Plan, is used to determine the San Joaquin Valley water year type as implemented in SWRCB D-1641. Year types are set by first of month forecasts beginning in February. Final determination for San Joaquin River flow objectives is based
on the May 1 75% exceedence forecast.
San Joaquin Valley Water Year Hydrologic Classification:

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</tr>
<tr>
<td>Critical</td>
<td>Equal to or less than 2.1</td>
</tr>
</tbody>
</table>

Eight River Index = Sacramento River Runoff + San Joaquin River Runoff
This Index is used from December through May to set flow objectives
as implemented in SWRCB Decision 1641.

The 'reconstructed' table is based on observed runoff, and does NOT show the
official year-types, which are based on May 1 forecasts of future runoff.
The current water year indices based on forecast runoff are posted at
http://cdec.water.ca.gov/water_supply.html and published in DWR Bulletin 120
(also available at http://cdec.water.ca.gov/snow/bulletin120)
These indices have been used operationally since 1995, and are defined in SWRCB
Decision 1641 (see http://www.waterrights.ca.gov/baydelta/d1641.htm)
This report is updated each fall once the data is available.

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