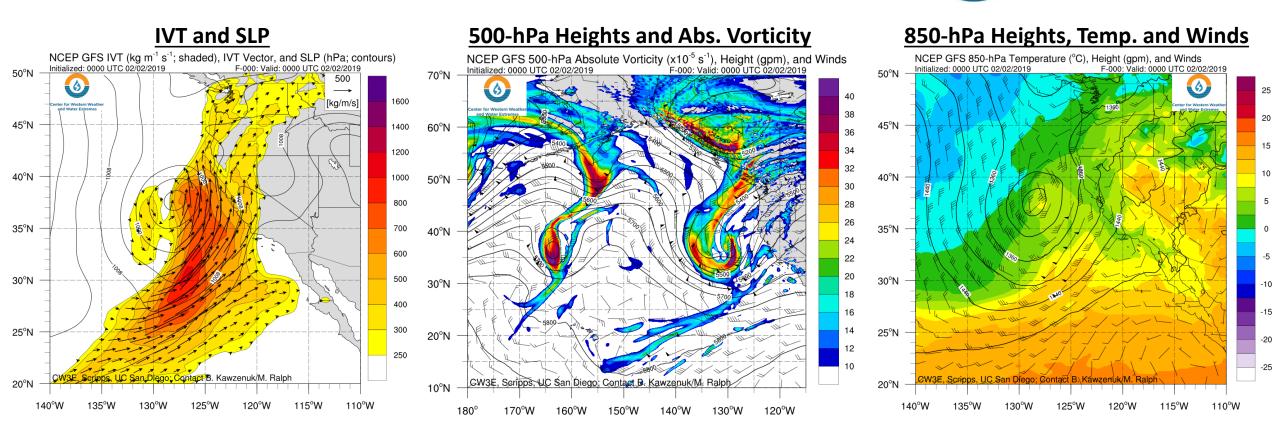
For California DWR's AR Program



Overview of Meteorological Conditions



- An Atmospheric River and concomitant low-pressure system made landfall over CA on 02 February 2019
- Once AR conditions ended over CA on the 2nd, the low-pressure system became cut-off and remained over CA for several days
- Numerous 500-hPa shortwave troughs developed downstream of an Eastern Pacific ridge, providing successive "pulses" of
 positive vorticity advection, conducive to rising motion and the production of precipitation
- Strong cold air advection associated with this event led to cold 850-hPa temperatures of 10 to -10°C across the West Coast
- These conditions led to an extended period of snow over the Sierra resulting in considerable snow accumulations

For California DWR's AR Program



Reservoir Conditions Ending At Midnight - February 4, 2019 CURRENT RESERVOIR CONDITIONS 3538 Lake Oroville 42% | 64% Don Pedro Reservoir

87% | 107%

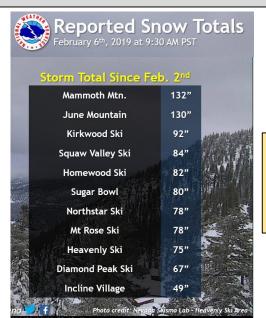
Graph Updated 02/05/2019 11:48 AM

Lake Shasta, the largest reservoir in CA, rose 5 feet between Tuesday and Thursday, reaching 66% full or 97% of its historical average for this time of year.

Smaller reservoirs around the state are now above their historical average including Lake McClure, Folsom Lake, Don Pedro Reservoir, Lake Perris, Millerton Lake, San Luis Reservoir and New Melones Lake.

The snowpack is also above average to date in the Northern Sierra (111.0%), Central Sierra (128.0%) and Southern Sierra (133.0%), after the passing of this atmospheric river.



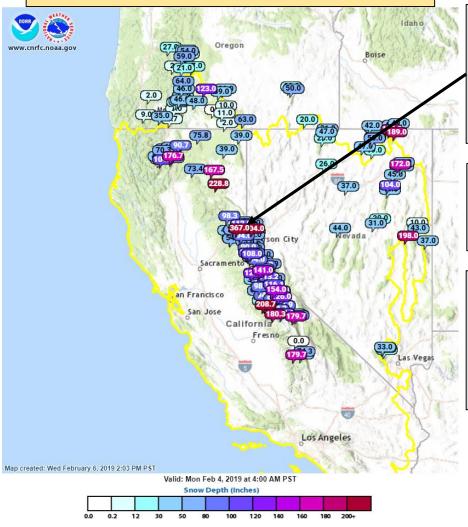


Snow totals reported from NWS Reno twitter

For California DWR's AR Program



CNRFC Current Snow Depth (as of 2/4)



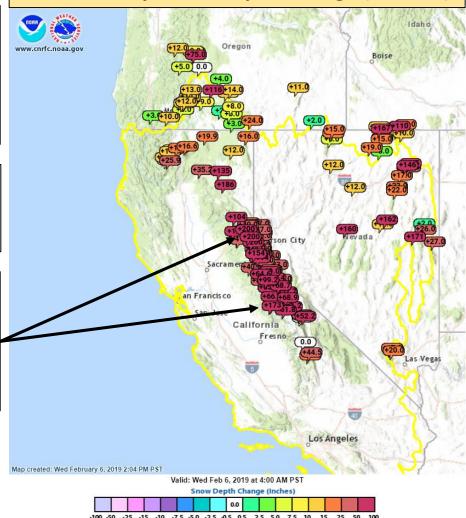
Much of the northern Sierra Nevada Mountains currently have over 100 inches of snow depth with the highest observation of 367" at the Central Sierra Snow Lab.

Over the past days the heavy snow has fallen over the majority of the Sierra Nevada Mountains.

Several locations have received over 150 inches of snow in the past 5 days, with widespread accumulations greater than 100 inches.

For CNRFC products visit: https://cnrfc.noaa.gov/

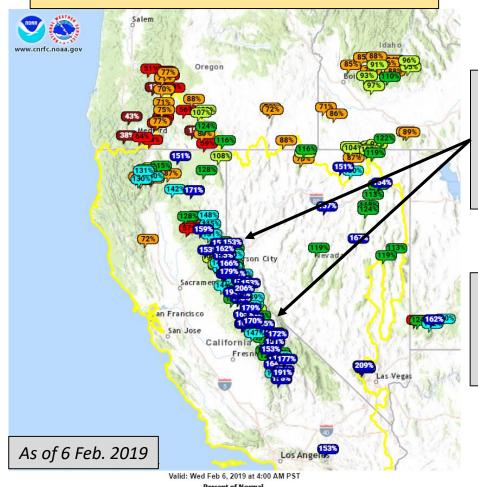
CNRFC 5-Day Snow Depth Change (1-6 Feb)



For California DWR's AR Program



CNRFC Current SWE % of Normal

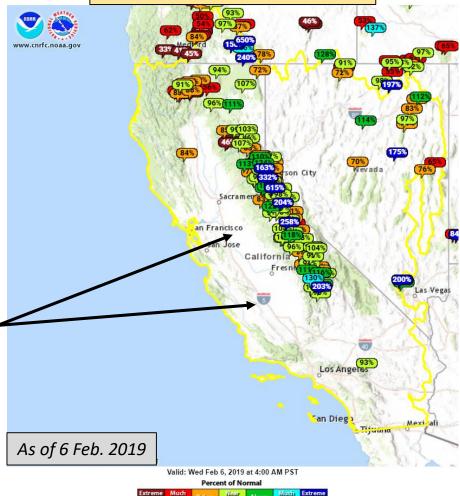


After this event, most of the Sierra Nevada Mountain snow pack is between 150–200 % of normal snow water equivalent (SWE) for this time of year.

The current SWE represents ~90-110% of April 1 normal for most locations throughout the Sierra Nevada.

For CNRFC products visit: https://cnrfc.noaa.gov/

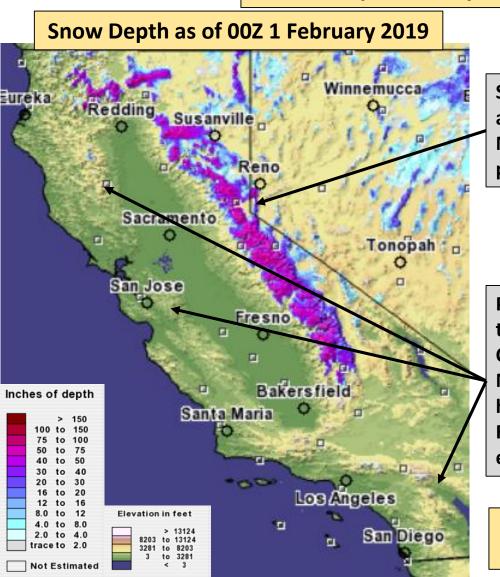
CNRFC % of Ave Apr 1 SWE



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National Operation Hydrologic Remote Sensing Center Modeled Snow Depth

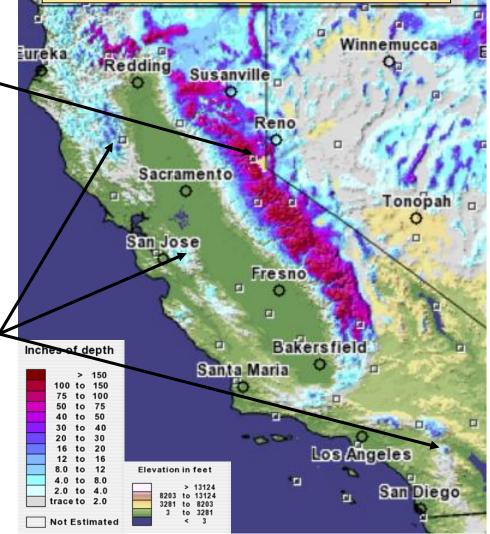


Snow depth and coverage across much of the Sierra Nevada has doubled over the previous 6 days.

Prior to this series of systems there was little to no snow in CA outside of the Sierra Nevada. Currently many of the high elevations in the Coastal Ranges have measurable snow, even in southern CA.

For NOHRSC products visit: https://www.nohrsc.noaa.gov/

Snow Depth as of 00Z 7 February 2019







For California DWR's AR Program





Squaw Valley Alpine Meadows Twitter