



WATER SUPPLY UPDATE

August 26, 2015

Shauna Lorance General Manager SJWD



Agenda

- Water Supply Conditions
- Operation of CVP as a System
- Folsom Lake Contingency Plans
- SJWD Emergency Operation Plans















Start of Drought



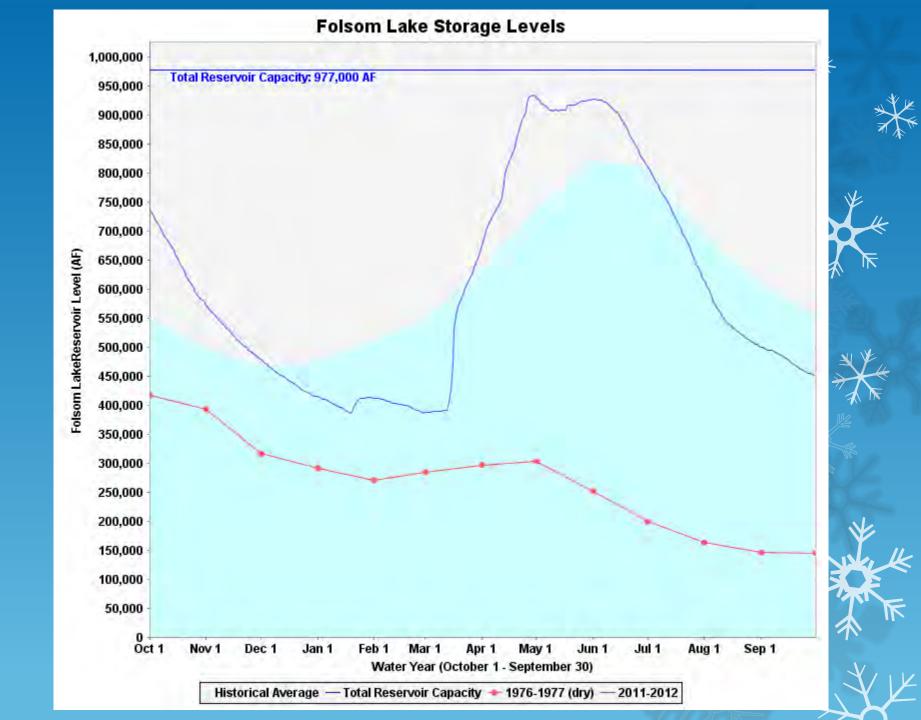


- Never know if dry year or start of drought....
- **o** 2012-2013
 - rainy season had extremely wet start
 - additional storm in Dec would have triggered flooding in N.
 Calif
 - Jan June 2013 driest start to the calendar year in at least 118 years











Ridiculously Resilient Ridge

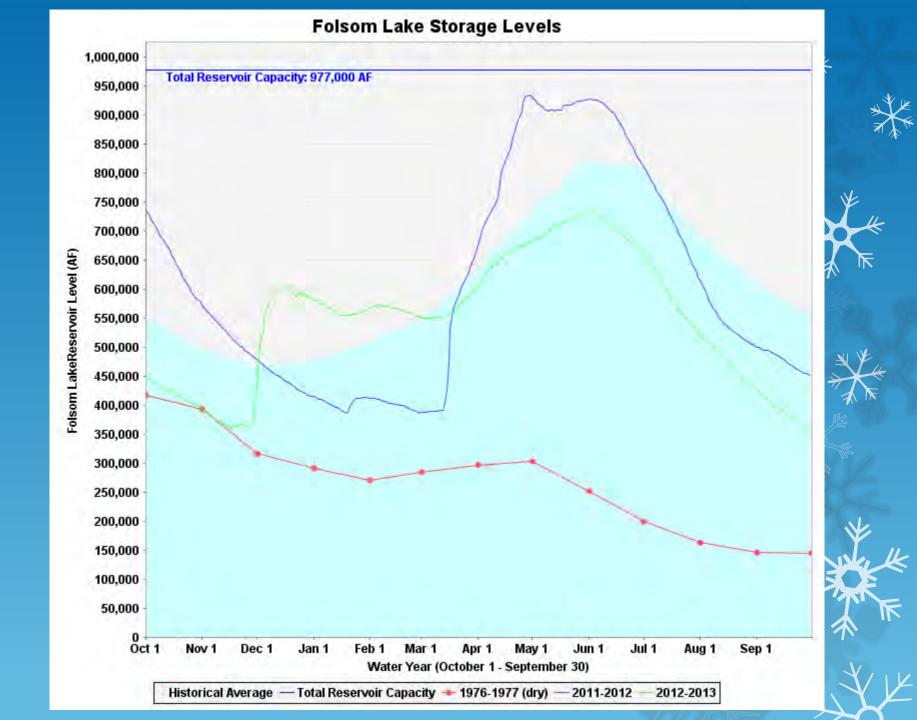
- 2nd half of 2013
- Persistent high pressure over Pacific Ocean
- Forced storms to the north
- Lessened in Summer 2013
- Returned with greater force in November 2013
- Alaska experiences warmth and precipitation













2014 continued drought

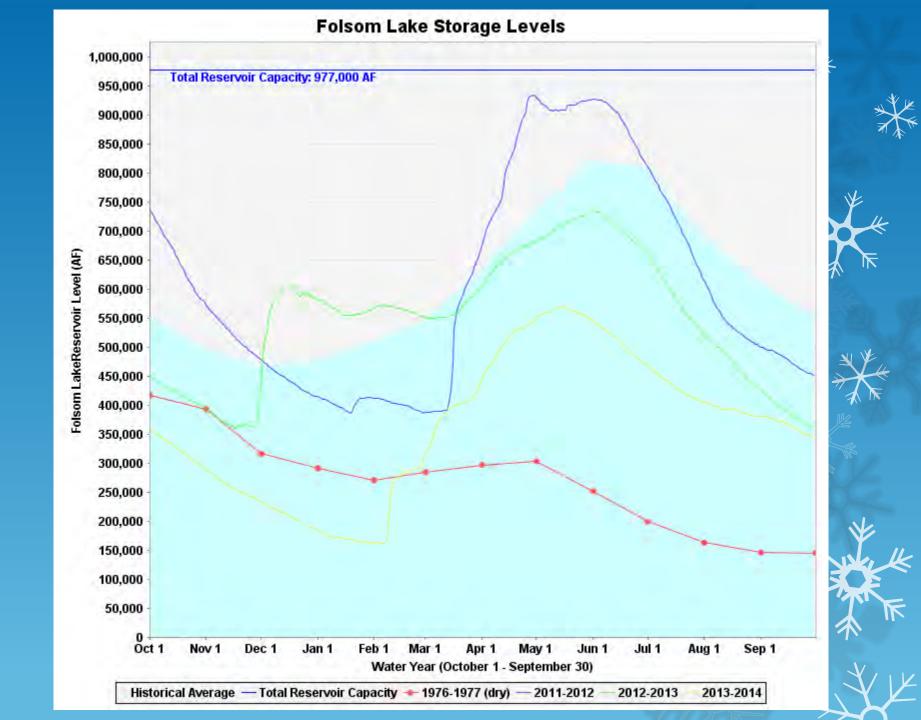




- By Feb 2014, RRR began to lose some intensity
- Winter precipitation came in two systems
- 2014 3rd driest winter, following driest ever in 2013, and drier than average 2012
- warmest winter in 2013-14 on record









Where are we in 2015?



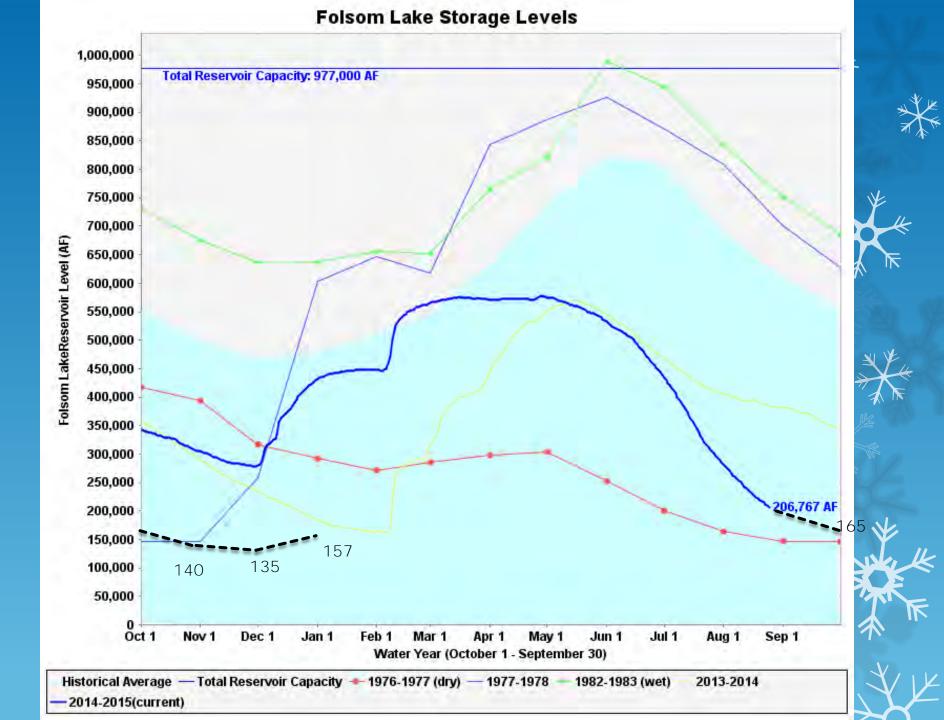
- El Nino Not guaranteed to be a wet season
 - 50/50 chance wet or dry
 - Historical look at past El Ninos
 - 7 years with similar signals
 - Three wet
 - One average
 - Three dry
- Folsom forecast to hit lowest storage since being built

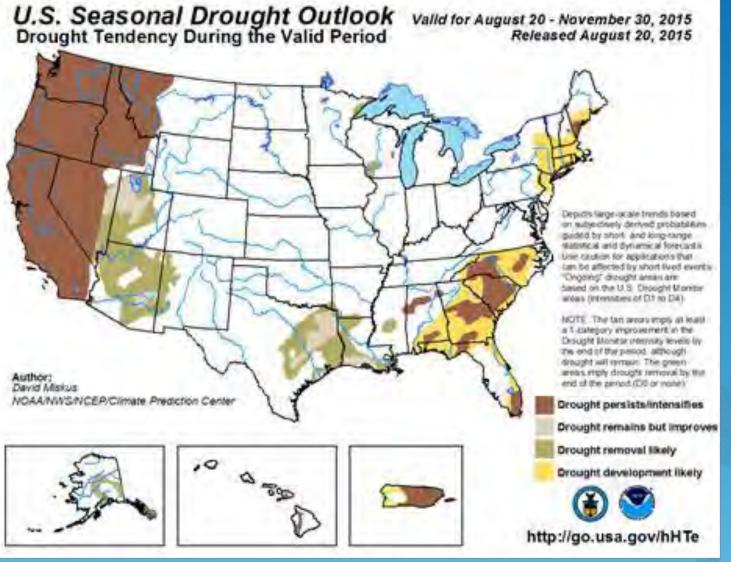


























Water supply reliability





- Wet years use surface water
- Dry years rely more on groundwater
- Requires regional approach to water management
- Would allow water transfers to offset revenue reductions and costs









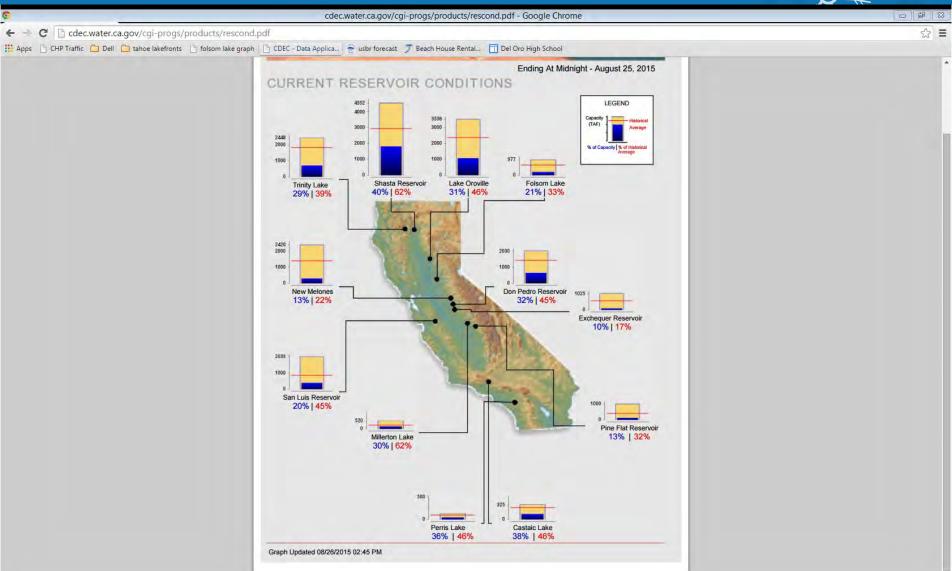


OPERATION OF CVP AS A SYSTEM















FOLSOM LAKE WATER SUPPLY CONTINGENCY PLANS

Drew Lessard Area Manager USBR



Folsom Dam and Reservoir



Folsom Lake February 2014 (Elevation approx. 357)

RECLAMATION

Folsom Dam Overhead



RECLAMATION





SJWD EMERGENCY OPERATION PLANS

Keith Durkin Assistant General Manager SJWD



Emergency (Supply Reliability) Plans



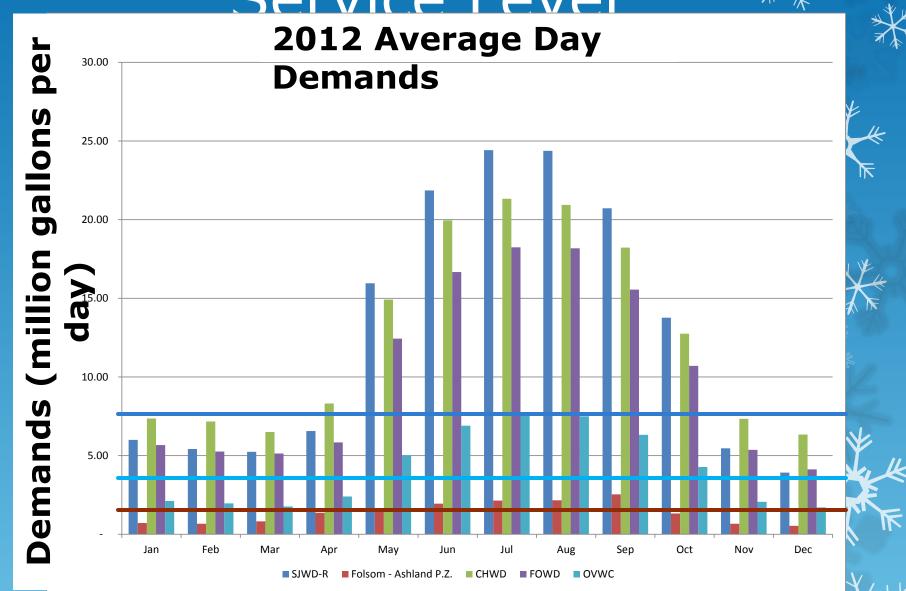




- Political/Institutional
 - Advocating for operations plans at Folsom Reservoir so that deliveries can be made under all conditions
 - Collaboration with local/regional/statewide/federal agencies on system operations to limit impacts
- Conservation and Public Outreach
- Water Supply Projects to Meet Minimum Acceptable Service Level w/o Supply from Folsom Reservoir



"Minimum Acceptable Service Level"



Emergency Water Supply Projects



- SJWD completed an evaluation in early 2005 to identify feasible projects to improve water supply that could be quickly implemented. Two primary projects were identified:
 - SSWD Groundwater "Pump Back" Project
 - New System Intertie with PCWA

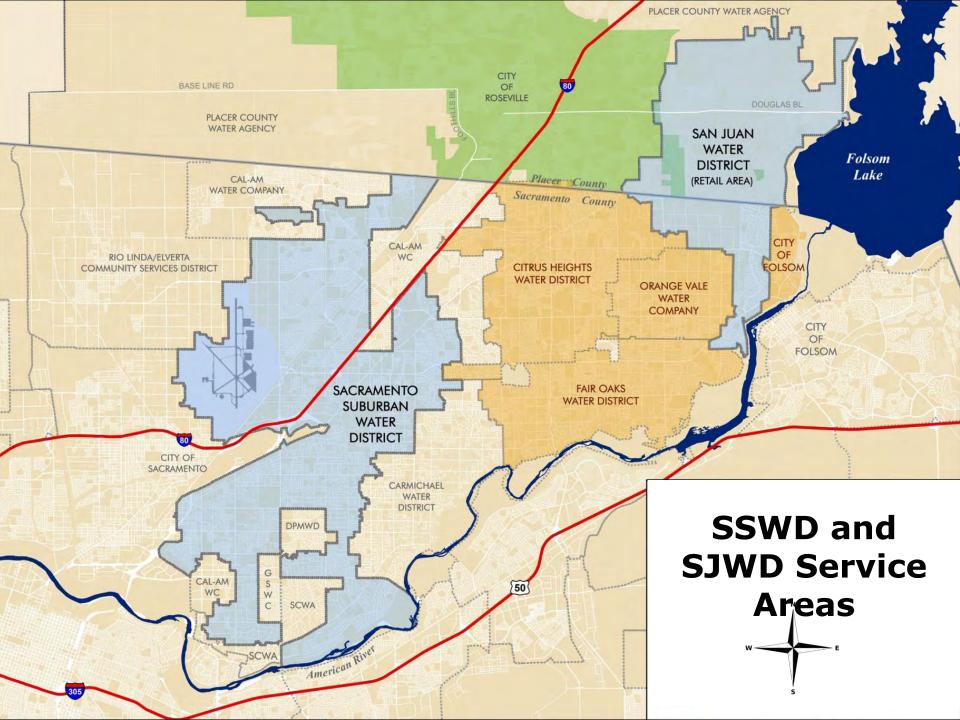


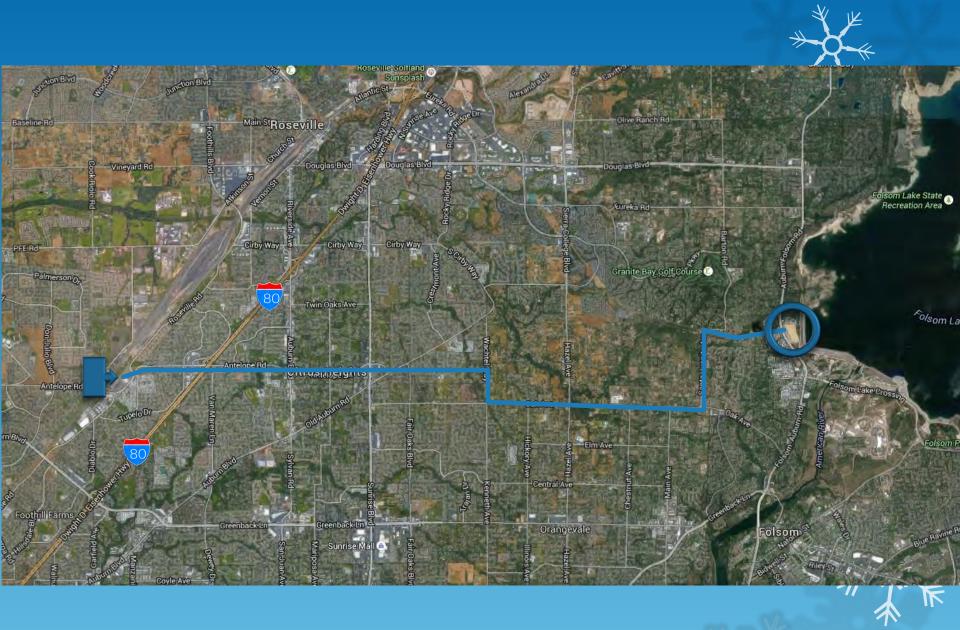


SSWD - SJWD Antelope Booster Pump Station Pump Back Project

- Outilizes existing major transmission pipeling normally used to deliver surface water to SSWD from SJWD water treatment plant
- Requires new pump station at existing SSWD Antelope storage tank site to "pump" back" groundwater

















As the concrete pour started, Dana, with Paragon G



31AM Tie Rod bracing installed; note rod passing through



Antelope Booster Pump Station Pump Back Project SJWD cost share of project ~ \$2.5

- million
- •Project is on schedule; on budget
- Start-up and testing scheduled for September 15th
- Substantial completion September 22nd; final October 10th

Barton Road PCWA Intertie Project





- Pipeline connecting the SJWD and PCWA service areas along Barton Road between Indian Springs and Cavitt Stallman Roads
- In combination with existing intertie on Auburn Folsom Road, can provide 3 MGD to either agency from other











Barton Road PCWA Intertie Project



- SJWD share of costs ~ \$600,000
- On schedule, on budget
- Testing and start-up week of September 14th
- Project completion September 30th









