Water Planning and Stewardship Committee Item 6a

Subject: Oral Report on Water Surplus and Drought Management

Purpose: Update on 2013 water supply, demand, and storage conditions

Water Planning and Stewardship Committee Item 6a Update on 2013 water supply, demand, and storage conditions



Oral Report on Water Surplus and Drought Management

Water Planning and Stewardship Committee Item 6a February 11, 2013

Presentation Overview

- Update of supplies & hydrologic conditions
- Overview of fisheries restrictions

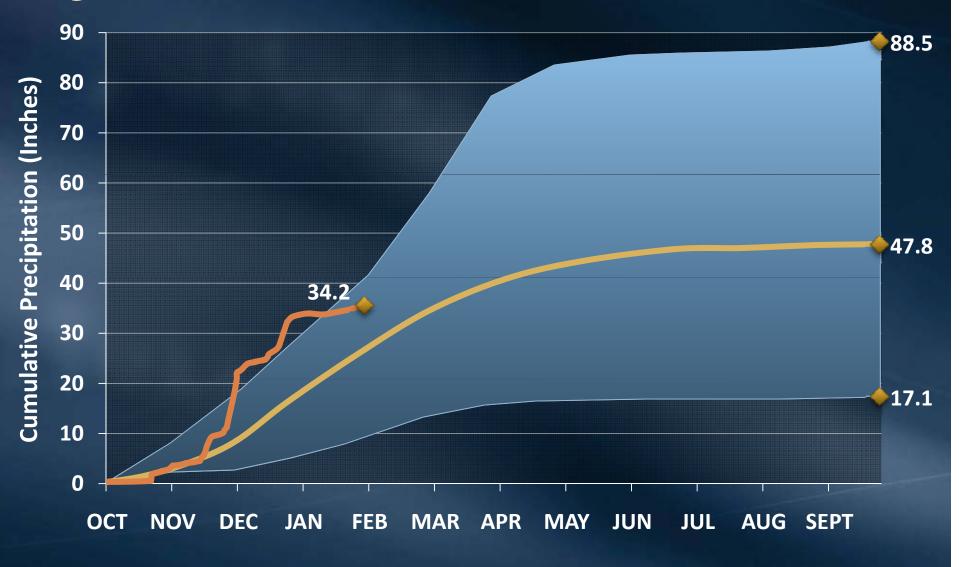
2013 State Water Project Supplies

Currently Allocated

- SWP: 786 TAF
 - 40% Table A Allocation: 765 TAF
 - SWP supply programs: 21 TAF

Northern Sierra Hydrologic Conditions

Eight Station Index 1922-2004



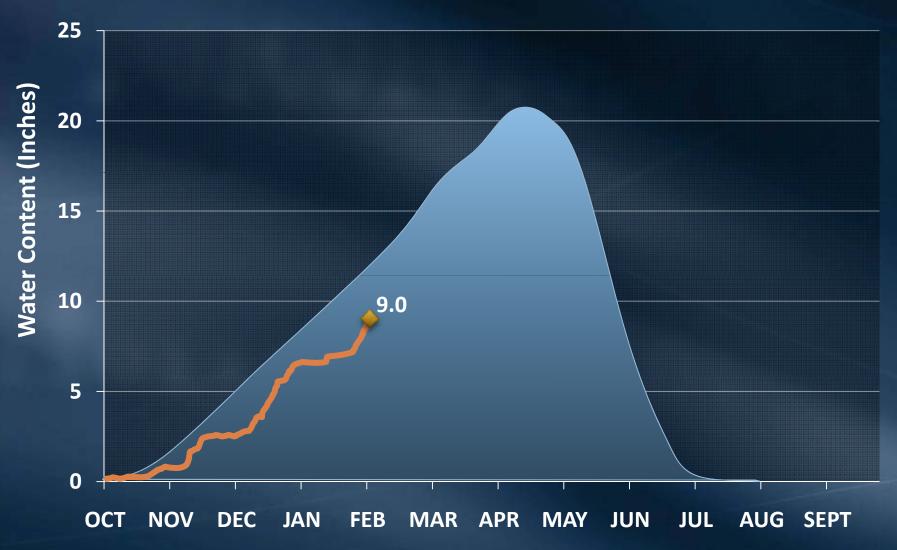
2013 Colorado River Aqueduct Supplies

Estimated Diversions

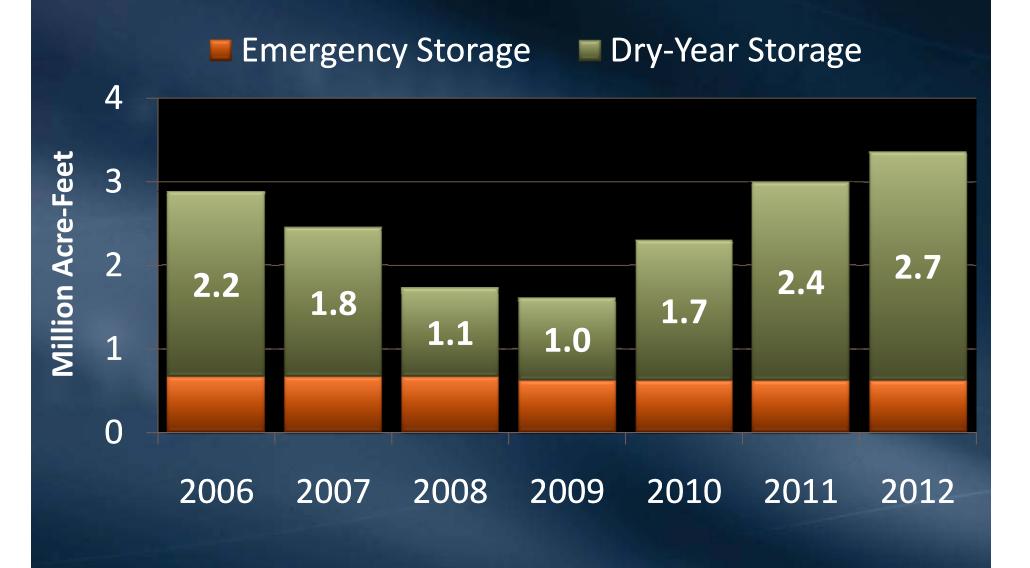
- CRA: 867 TAF
 - Priority 4: 550 TAF
 - Colorado System programs and exchanges: 317 TAF

Colorado River Hydrologic Conditions

Upper Colorado Basin Snowpack



MWD Storage Reserve Levels



Fish Restrictions Affecting SWP

Key Fish of Concern

Delta Smelt



Longfin Smelt



Sturgeon



Salmon



Steelhead

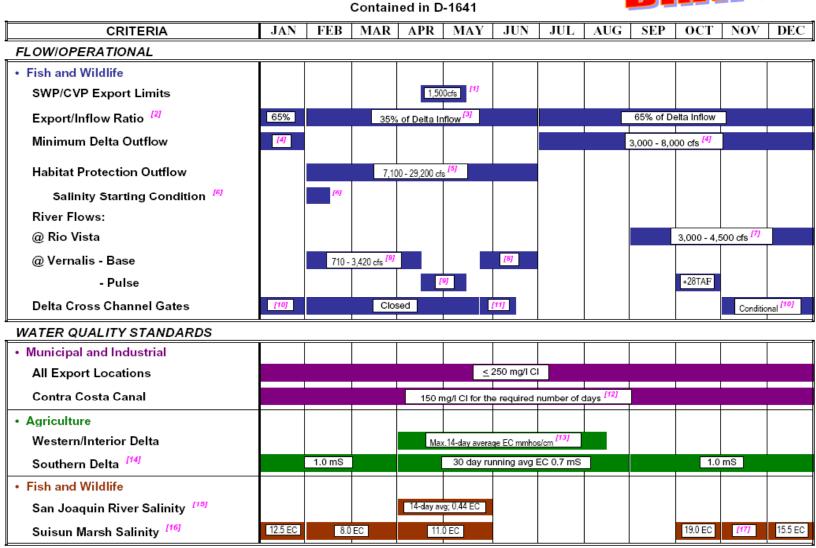


Fish Restriction Evolution

1999 Water Right Decision 1641 (Baseline)

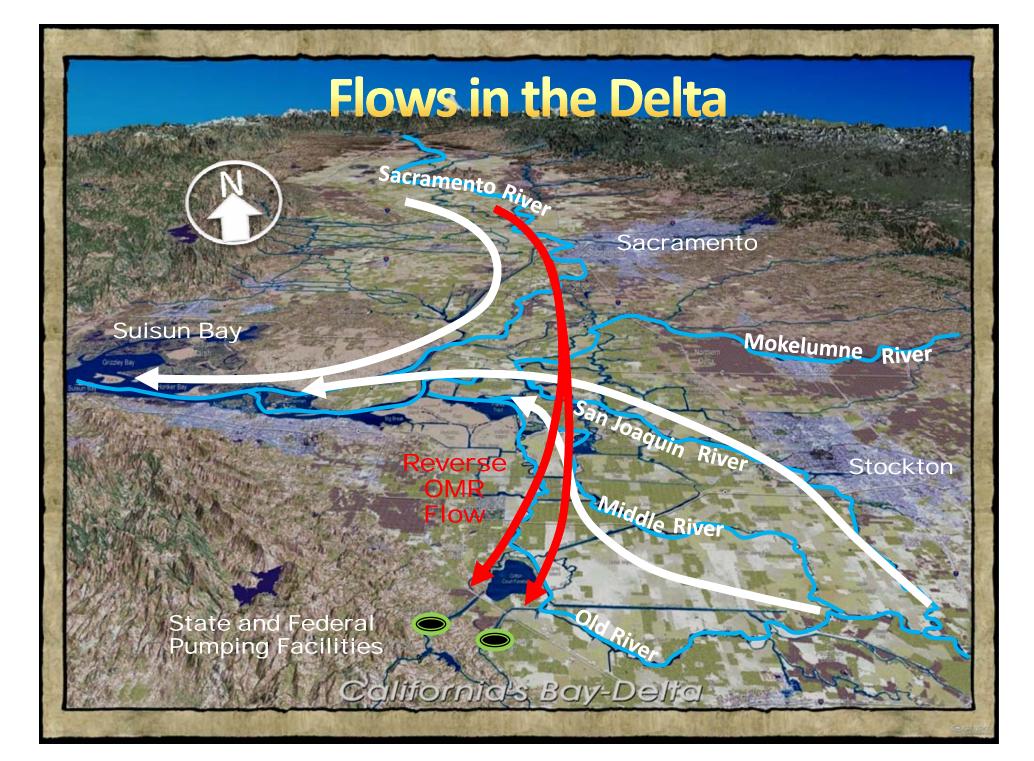
Bay-Delta Standards

DRAFT



Fish Restriction Evolution

- 1999 Water Right Decision 1641 (Baseline)
- 2007 Federal Court Decision



Fish Restriction Evolution

- 1999 Water Right Decision 1641 (Baseline)
- 2007 Federal Court Decision
- 2008 USFWS and 2009 NMFS Biological Opinions

Pumping Flexibility Reduced Window restricted even during wet years

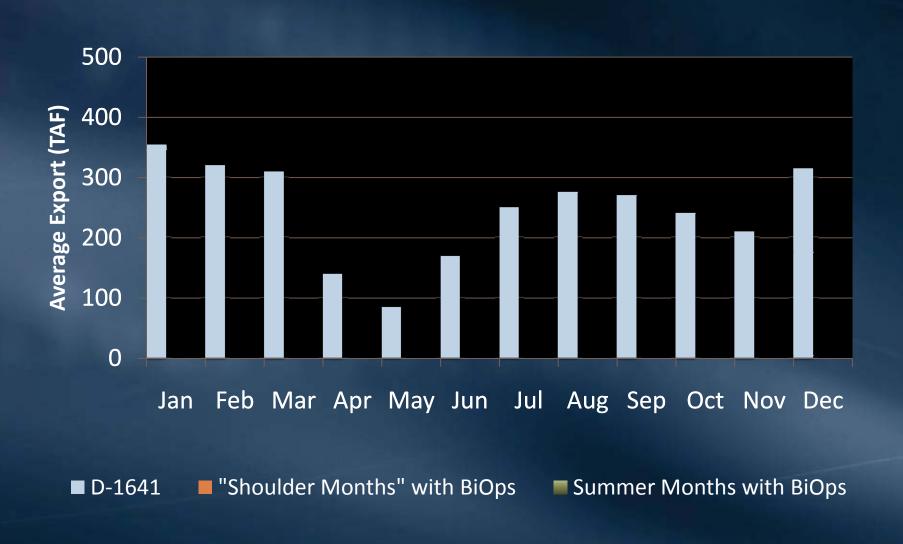
Regulatory Pumping Restrictions JAN MAR APR MAY JUN AUG OCT NOV **DFC**

Salmon

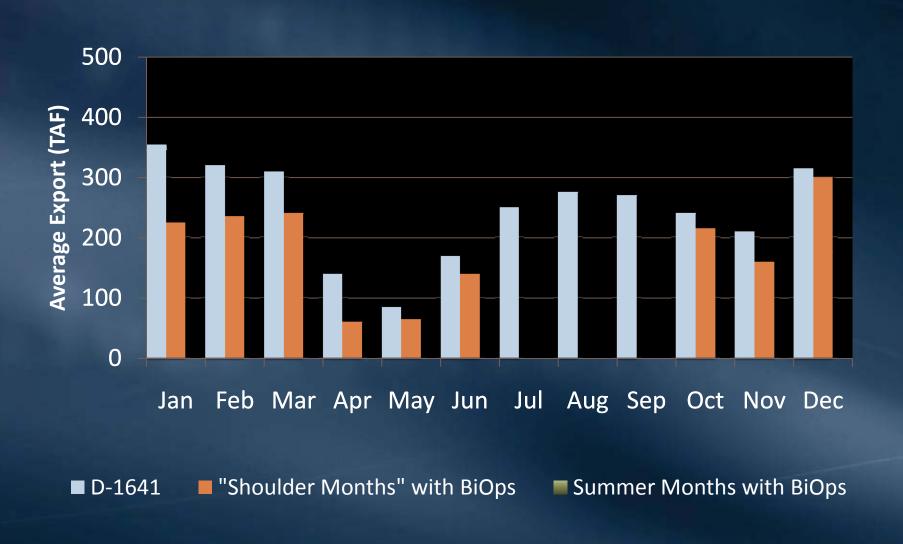
Delta Smelt

Longfin Smelt

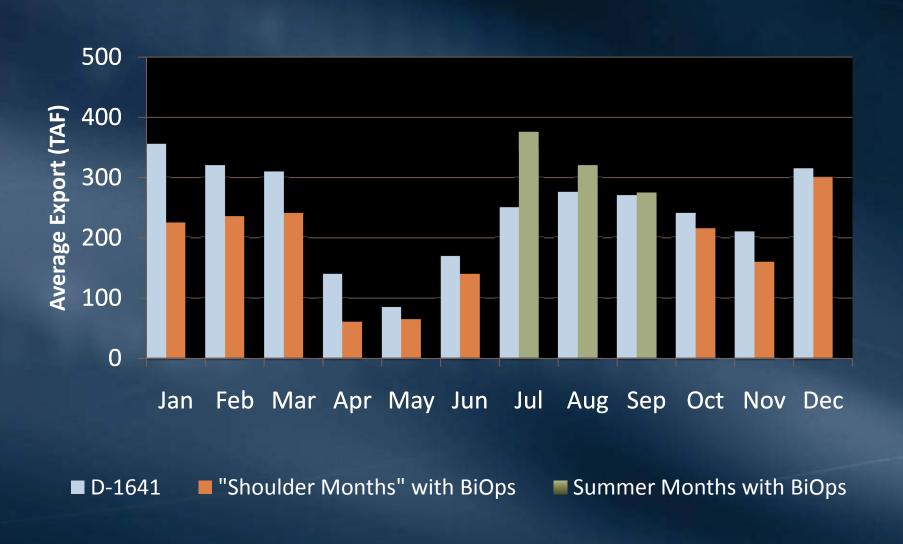
Impacts On Monthly SWP Pumping



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Impact of Restrictions on SWP Supplies





USFWS BiOps Overview

Timeframe	Objective	Trigger	Restriction	Off-Ramp
Dec - Jan	RPA 1 - Action 1 Protect adult migrating smelt	Turbidity or Salvage	OMR > -2000 cfs	Temperature or Biological
Jan - Mar	RPA 1 – Action 2 Protect adult smelt prior to spawning	Following Action 1	OMR range (cfs): -1,250 to -5,000	Temperature or Biological
Mar - Jun	RPA 2 Protect larval smelt	Temperature or Biological	OMR range (cfs): -1,250 to -5,000	Temporal or Temperature
Sep - Nov	<u>RPA 3</u> Improve fall habitat	Wet and Above Normal year type	Delta Outflow (Fall X2)	Temporal

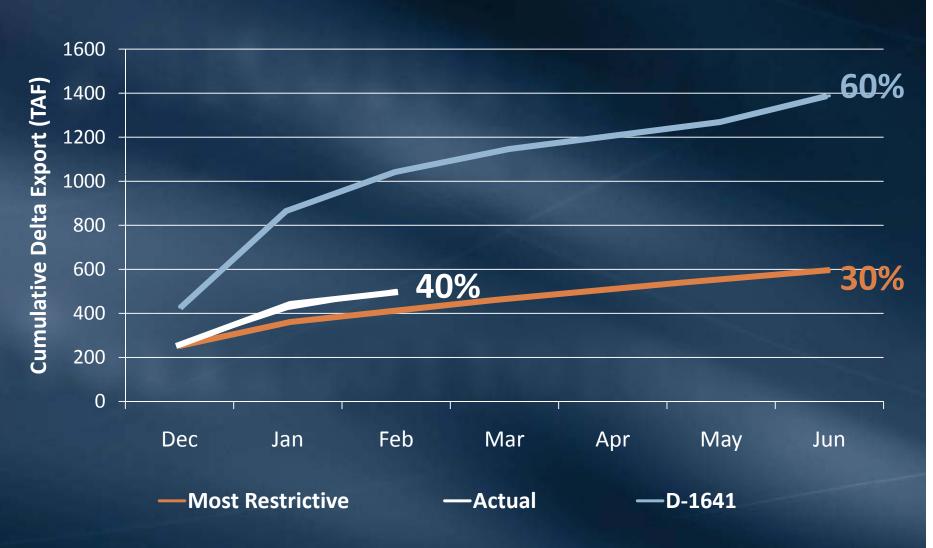
Decision Making Process

- Stakeholder Input
- Management and Technical Representatives
 - Reclamation, DWR, DFW
- Final Determination
 - USFWS
 - NMFS

Fish Restrictions Triggered

	Date	Status	Restriction	Export Impact
NMFS BiOp Action IV.3	Dec 8 to Dec 10	High salvage	Reduce exports to 6,000 cfs for 3 days	24 TAF
USFWS BiOp RPA 1 Action 1	Dec 20 to Jan 1	High turbidity and salvage rate and low population density	OMR > -2,000 cfs	136 TAF
USFWS BiOp RPA 1 Action 2	Jan 2 to Jan 27	Turbidity and salvage rates improved	OMR > -3,500 cfs	227 TAF
	Thru Jan	Salvage rates increased and cumulative salvage high	OMR > -2,500 cfs	63 TAF

Conditions Have Been More Restrictive This Year



Next Steps

- Continue to Monitor Water Supply Conditions
- Track Fish Restriction Impacts on SWP Allocation