RECLAMATION

Managing Water in the West
CVP Operations Criteria and
Plan and CVP/SWP OCAP
Biological Assessment

November 16, 2004



U.S. Department of the Interior Bureau of Reclamation

Purpose & Objectives

- Explain the relationship of the OCAP, BA, BOs
- Explain some overall comparisons in the OCAP
- Explain CVP/SWP current and future operations
- Explain contents of the BA

Operations Criteria and Plan (OCAP) Purpose

- Documents CVP operations
- Provides basis for BA project description
 - Developed in 1992 for the winter-run
 Chinook salmon BA
- Documents changes since 1992

OCAP Document

- Not a NEPA/CEQA decision document
- Provides detailed project description of CVP/SWP
- Explains regulatory and legal requirements
- Includes project operations constraints and objectives
- Presents modeling changes (1991 to present)
- Explains forecasting process

OCAP Outline

- Introduction
- Project-Wide Operations Constraints and Objectives
- CVP Division Operations Constraints and Objectives
- State Water Projects
- Last few chapters on Modeling and Results

Modeling for OCAP (2001 LOD)

X

X

X

X

X

X

X

X

X

X

EWA

X

Modelling for OCAF (2001 LOD)								
	Article 21	Refuge Deliveries	Trinity Required Flows	D1485	Winter- Run B.O.	95 WQCP D1641	CVPIA 3406 (b)(2)	
Study A D1485 (1991)		Historical Level 2	340,000 af/yr	X				
Study B		Firm Level	Same as	Х				

above

Same as

above

Same as

above

Same as

above

369,000-

453,000

af/yr

2

Same as

above

Same as

above

Same as

above

Same as

above

D1485

(1992)

Study C

D1485

(1993)

Study D

WQCP

(1994)

Study 1

WQCP

(1997)

Study 3

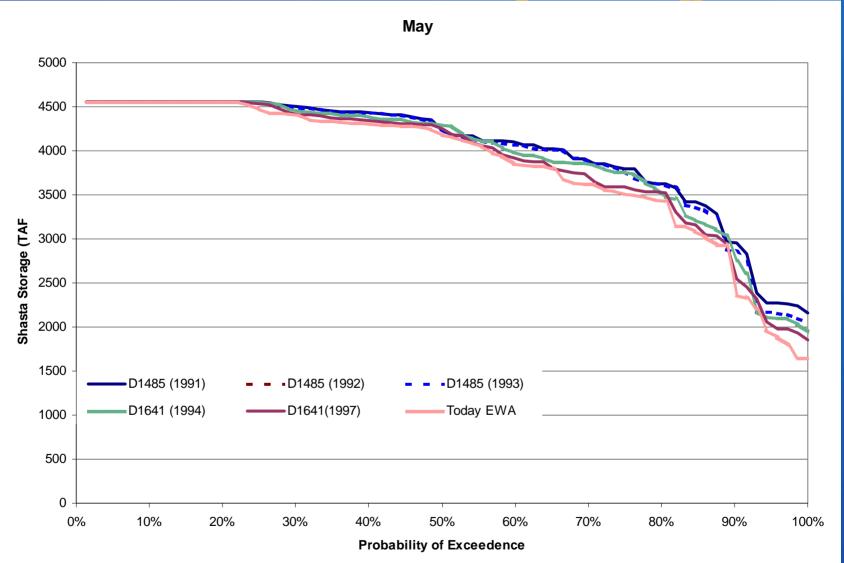
Today

EWA

X

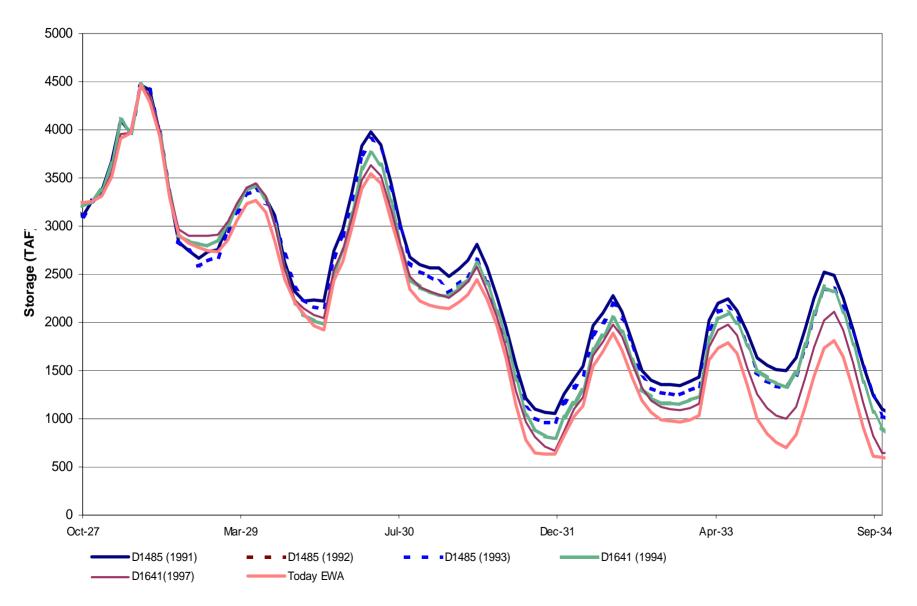
X

Shasta end of May Storage

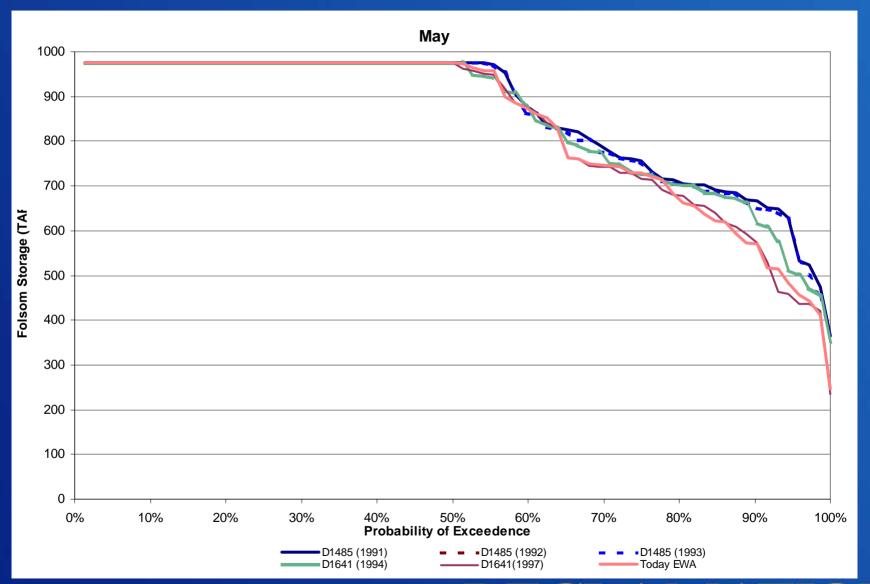


Shasta Storage Chronology 1928-1934



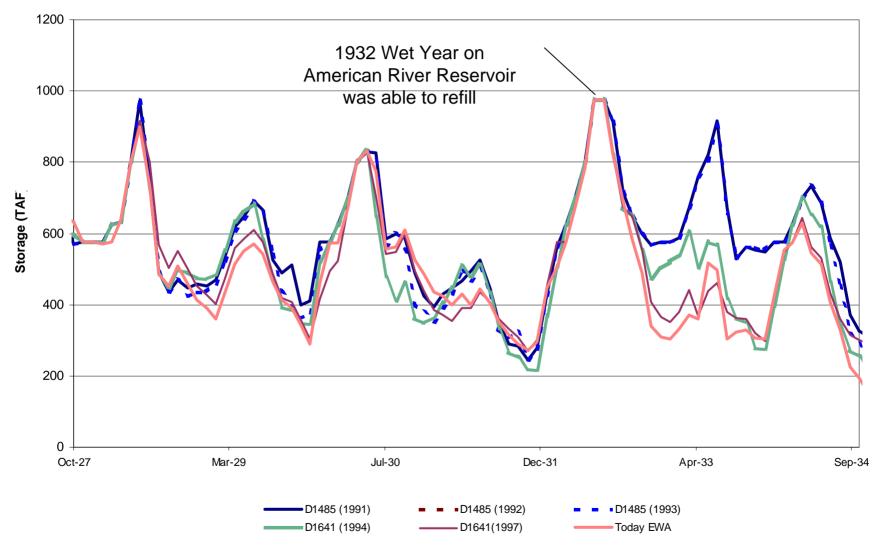


Folsom end of May Storage

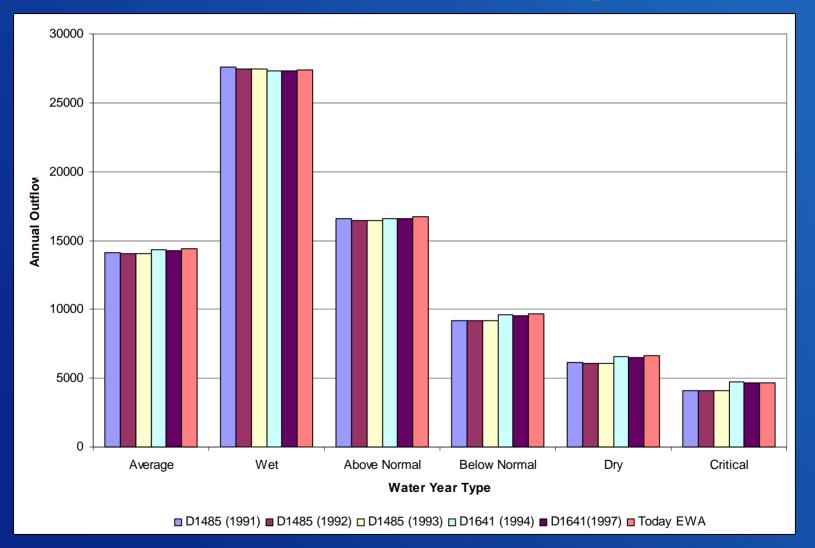


Folsom Storage Chronology 1928-1934

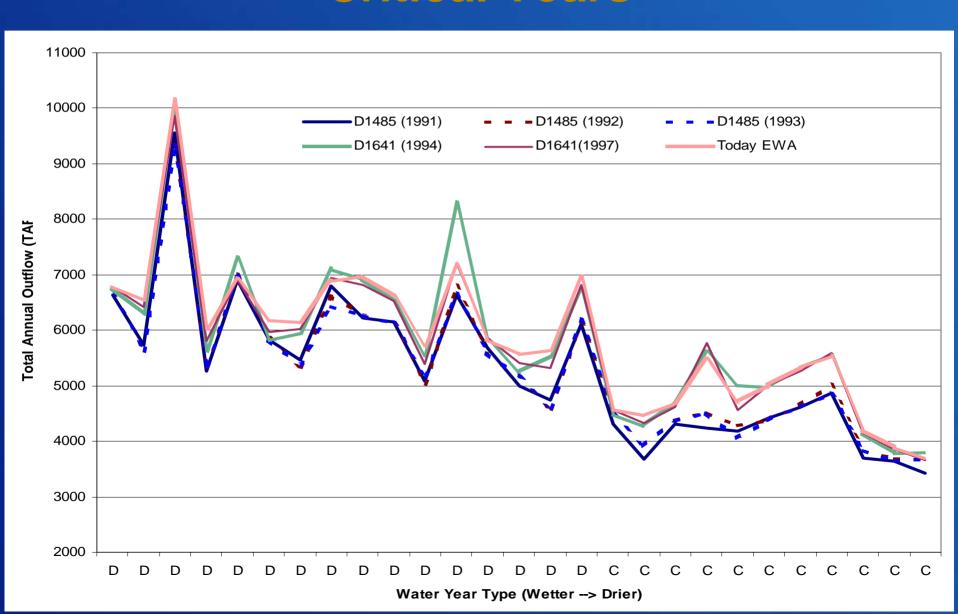
Folsom



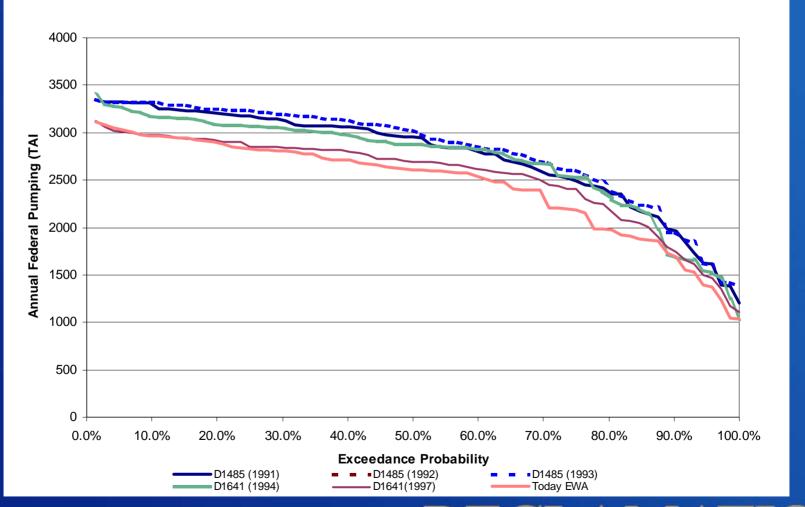
Total Annual Delta Outflow



Total Annual Outflow Dry and Critical Years

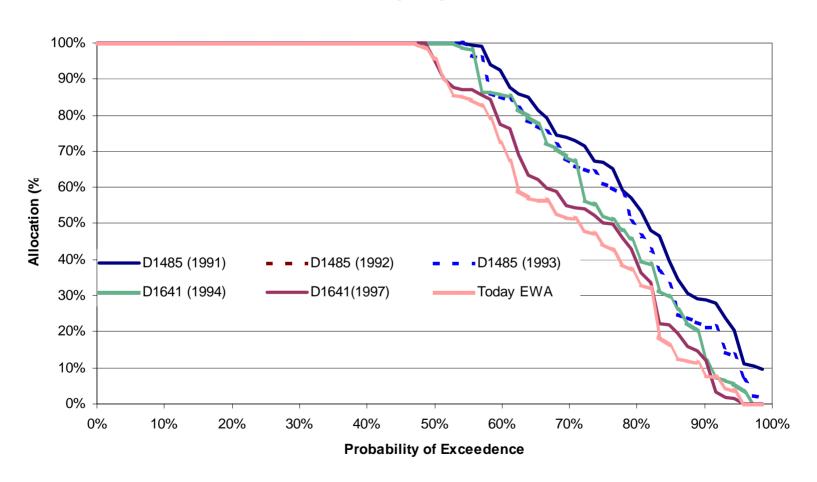


Total Annual Federal Pumping

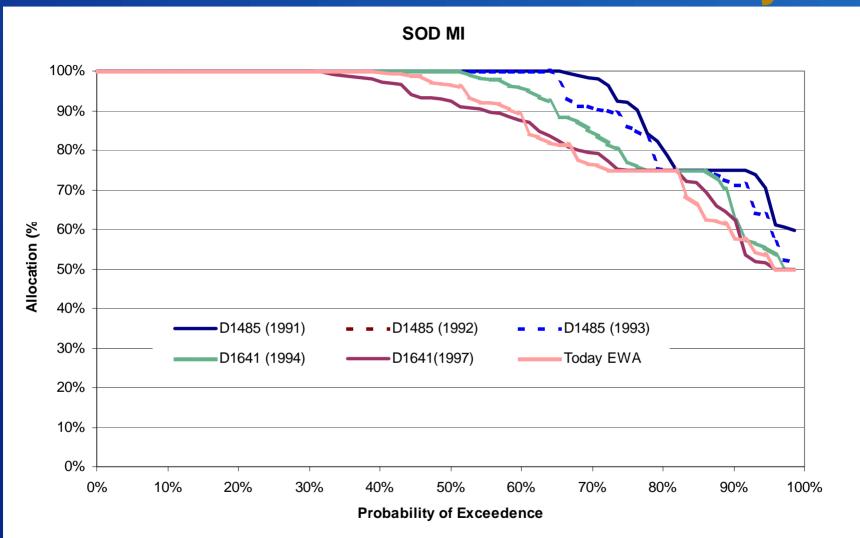


South of the Delta Agriculture Allocation





South of the Delta M&I Delivery



Biological Assessment

- Consultation information document
- Not a NEPA/CEQA decision document
- Identification of existing and potential actions
- Analyses of effects on listed species from CVP/SWP operations

ESA Consultation

- Section 7(a)(2) consultation with FWS & NOAA Fisheries
- Addresses combined major hydrologic operations of the CVP/SWP
- Reclamation lead Federal agency
- DWR lead State agency

History of Key Listings

- Winter-run Chinook Salmon
 - NOAA Fisheries listed as threatened in 1990, endangered in 1994
- Delta Smelt
 - FWS listed as threatened 1993
- Coho Salmon (in the Trinity River)
 - NOAA Fisheries listed as threatened in 1997
- Steelhead
 - NOAA Fisheries listed as threatened in 1998
- Spring-run Chinook Salmon
 - NOAA Fisheries listed as threatened in 1999

Reason for Consultation

- CVP/SWP operations affect listed species
 - Primarily coho salmon, winter-run and spring-run Chinook salmon, steelhead, and Delta smelt
- Long-Term BOs date from 1993 & 1995
- Interim BO on spring-run/steelhead

Why Update Now?

- Long-term water supply contract renewals
- Long-term opinions on the listed species
- CVP/SWP operations with new projects
- Bring consultations on all the listed species to a common point

ESA Consultation Chronology

- 2002 decision to do a comprehensive ESA consultation
- June 16, 2003 public information meeting, draft documents available
- November 25, 2003 public information meeting & status for BA, SDIP, EWA & other CALFED activities
- February 2004 BA modeling posted

ESA Consultation Chronology (cont'd)

- Informal consultation Feb 13, 2004
- Initiate consultation March 15, 2004
- Public release of BA March 22, 2004
- Public release of revised OCAP & BA –
 June 30, 2004
- Received FWS BO July 30, 2004
- Received NOAA Fisheries B.O. Oct 22, 2004

Biological Assessment

- Description of action
- Biology of listed species
- Modeling present and future conditions
- Effects analyses
- Ongoing actions to reduce effects

Adaptive Management

- Within the Project Description
- CALFED Ops Groups
- Fisheries Technical Teams
- Water Operations Management Team
- Process to use Adaptive Management flexibility

Description of Action

- Formal consultation actions
 - Results in Biological Opinions
- Early consultation actions
 - Results in Preliminary Biological Opinions
 - Requires consistency between BO and NEPA/CEQA documentation

Formal Consultation Actions

- CVP/SWP operations
- Trinity River flows
- Freeport diversions
- DMC/CA Intertie

CVP/SWP Operations

- Water right permits and existing capabilities
- CVPIA Section 3406 (b)(2) and CALFED EWA
- CVP/SWP coordinated operations
- Water transfers
- Joint Point of Diversion

Why do Early Consultation?

- Makes efficient use of agency staff
- Provides a "heads up" of potential issues

 These actions will be revisited for consistency after draft NEPA/CEQA completed

Early Consultation Actions

- Operational components of South Delta Improvement Project (SDIP)
- CVP/SWP operational integration
- Long-Term EWA

OCAP BA Studies

Study	Name	Level of Development	Trinity Flows	SDIP	CVP/SWP Integration	Freeport	Intertic
1	D1641 with b(2)	(2001 LOD)	340,000 AF/year				
2	Today b(2)	Same as Above	368,600-453,000 AF/year				
3	Today EWA	Same as Above	Same as Above				
4	Future SDIP	(2020 LOD)	368,600-815,000	Х	Х	Х	Х

AF/yr

Same as Above

Same as Above

Same as Above

X

X

Χ

Χ

X

X

X

Future b(2)

Future EWA

Future EWA

6680 cfs

4a

5

5a

Same as

Above

Same as Above

Same as

Above

OCAP BA Studies

Study	Name	Level of Development	Trinity Flows	SDIP	CVP/SWP Integration	Freeport	Intertie
1	D1641 with b(2)	(2001 LOD)	340,000 AF/year				
2	Today b(2)	Same as Above	368,600-453,000 AF/year				
3	Today EWA	Same as Above	Same as Above				
4	Future SDIP	(2020 LOD)	368,600-815,000 AF/yr	X	X	X	X
4a	Future b(2)	Same as Above	Same as Above			X	Х
5	Future EWA	Same as	Same as Above	X	X	Χ	Χ

Same as Above

X

X

Above

Same as

Above

Future EWA

6680 cfs

5a

Ongoing Actions

- CVPIA
- CALFED
- Four Pumps Agreement

Biological Assessment Outline

- 1. Authorities, Water Rights, & other obligations
- 2. Project Description
- 3. Steelhead Biology and Baseline
- 4. Factors that Affect Steelhead
- 5. Chinook Salmon Biology and Baseline
- 6. Factors that Affect Chinook Salmon
- 7. Delta Smelt Biology and Factors that affect Delta Smelt

- 8. Hydrologic and Temperature Modeling Assumptions
- 9. Upstream Effects on the species Formal
- 10. Delta Effects on the species Formal
- 11. Upstream Effects Early Consultation
- 12. Delta Effects Early Consultation
- 13. Effects Summary and Determination
- 14. Essential Fish Habitat Assessment
- 15. Ongoing Actions to Address Project Effects
- 16. References