



Water is jobs

Water is crops

Water is life

California's Water Crisis
In Search of a Solution

Jeff Kightlinger

General Manager

Metropolitan Water District of Southern California

Shasta Reservoir

Sacramento River



1995



2008

Lake Oroville

Feather River



Lake Oroville

June 2005: 897.12 Feet Elevation - 3,492,262 Acre Feet

2005



Lake Oroville

February 2008: 719.86 Feet Elevation - 1,412,524 Acre Feet

2008

San Luis Reservoir

western San Joaquin Valley



1995



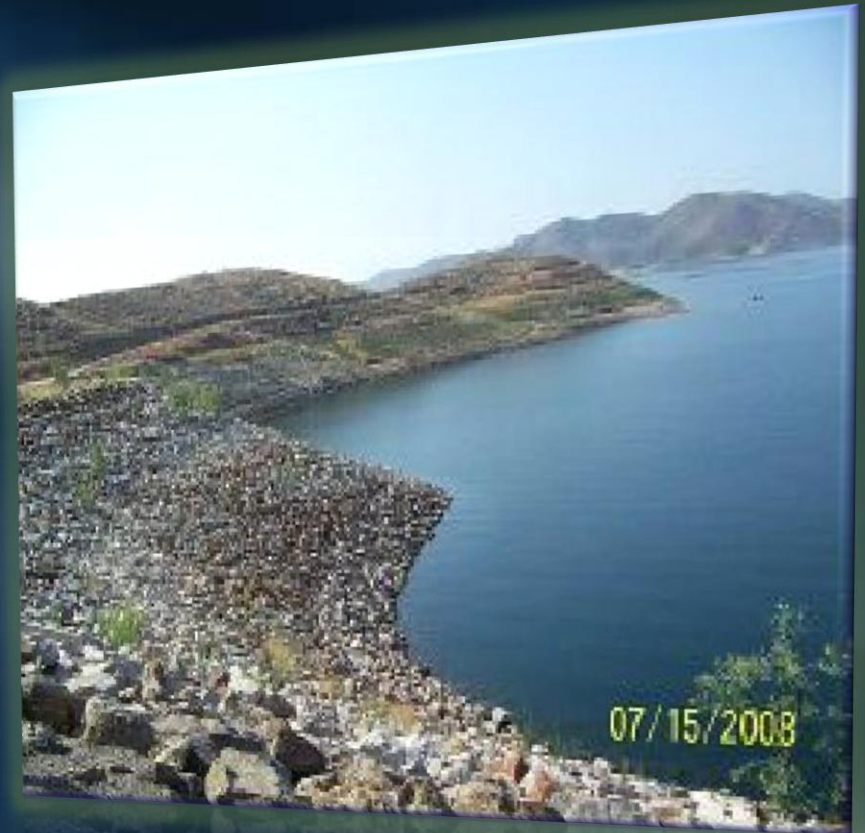
2008

Diamond Valley Lake

Southern California

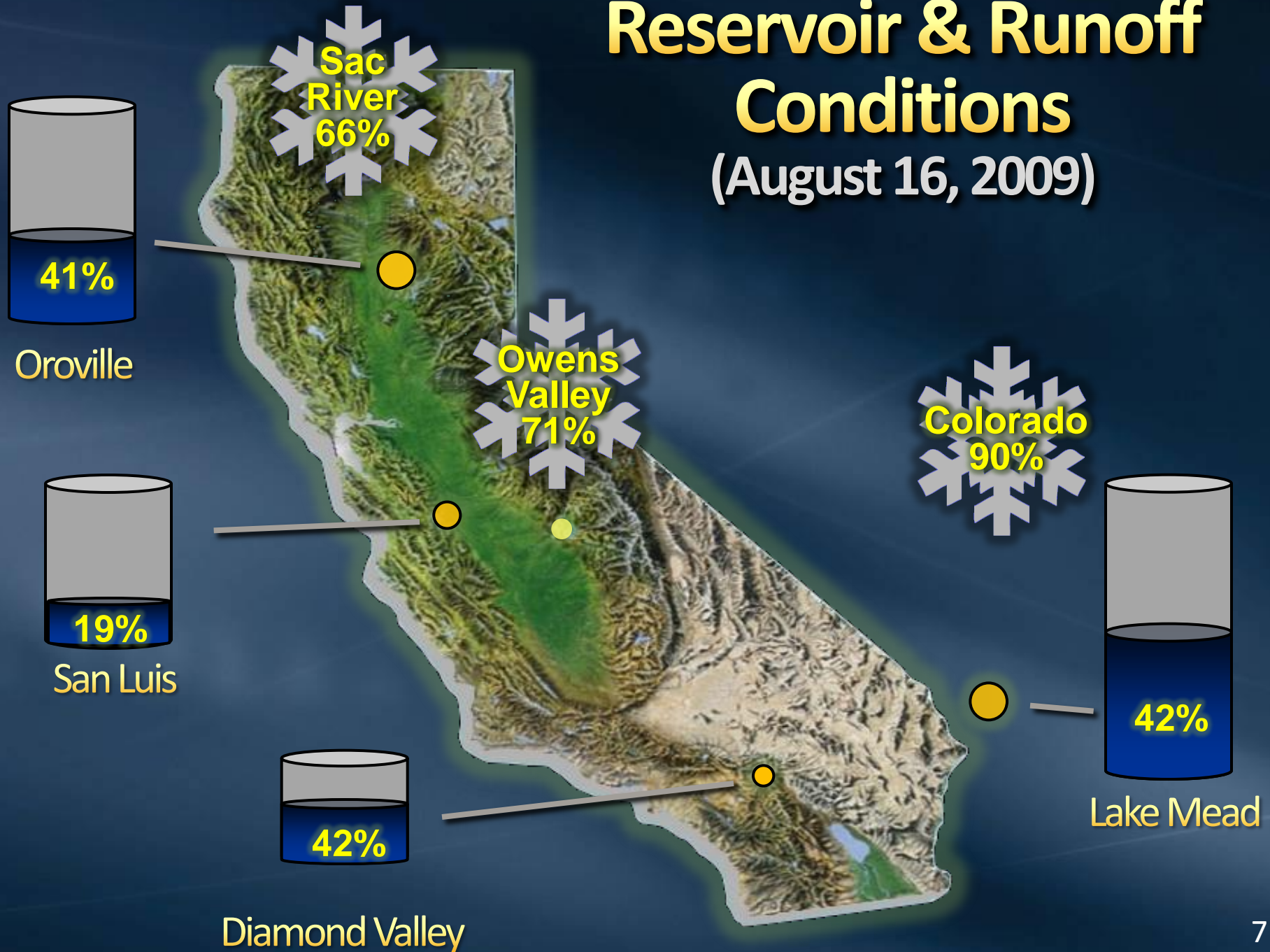


2006



2008

Reservoir & Runoff Conditions (August 16, 2009)



The Delta

Sacramento

Suisun Bay

Stockton

**State & Federal
Pumping Plants**

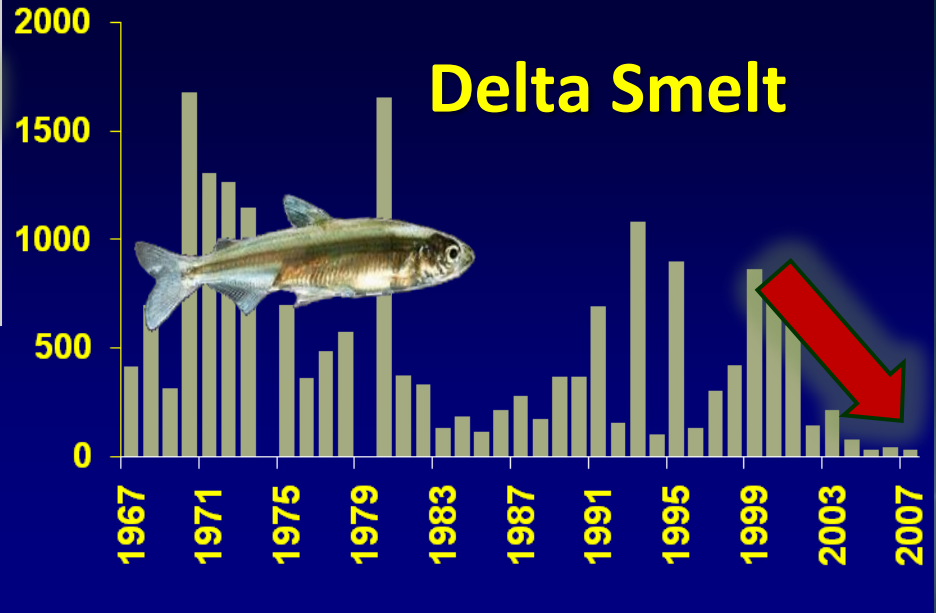
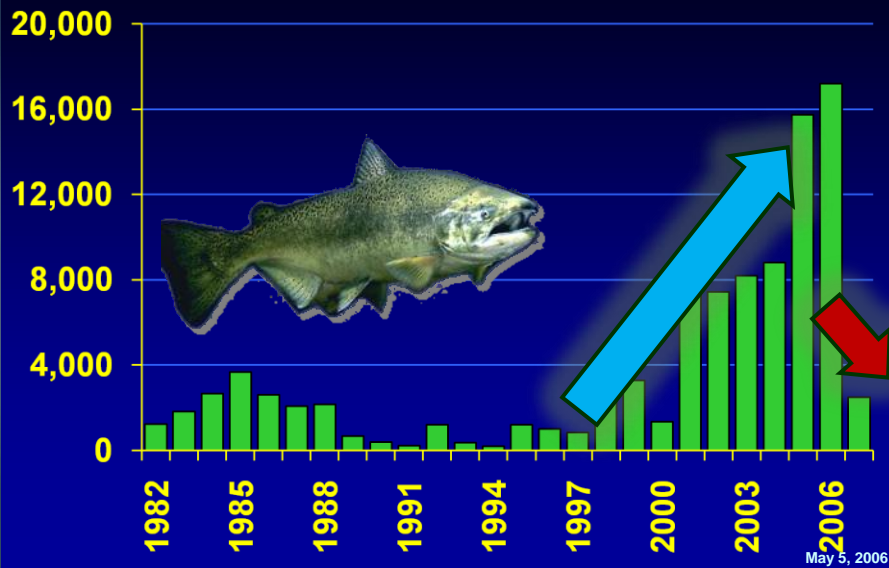
California's Bay-Delta



Delta Fisheries

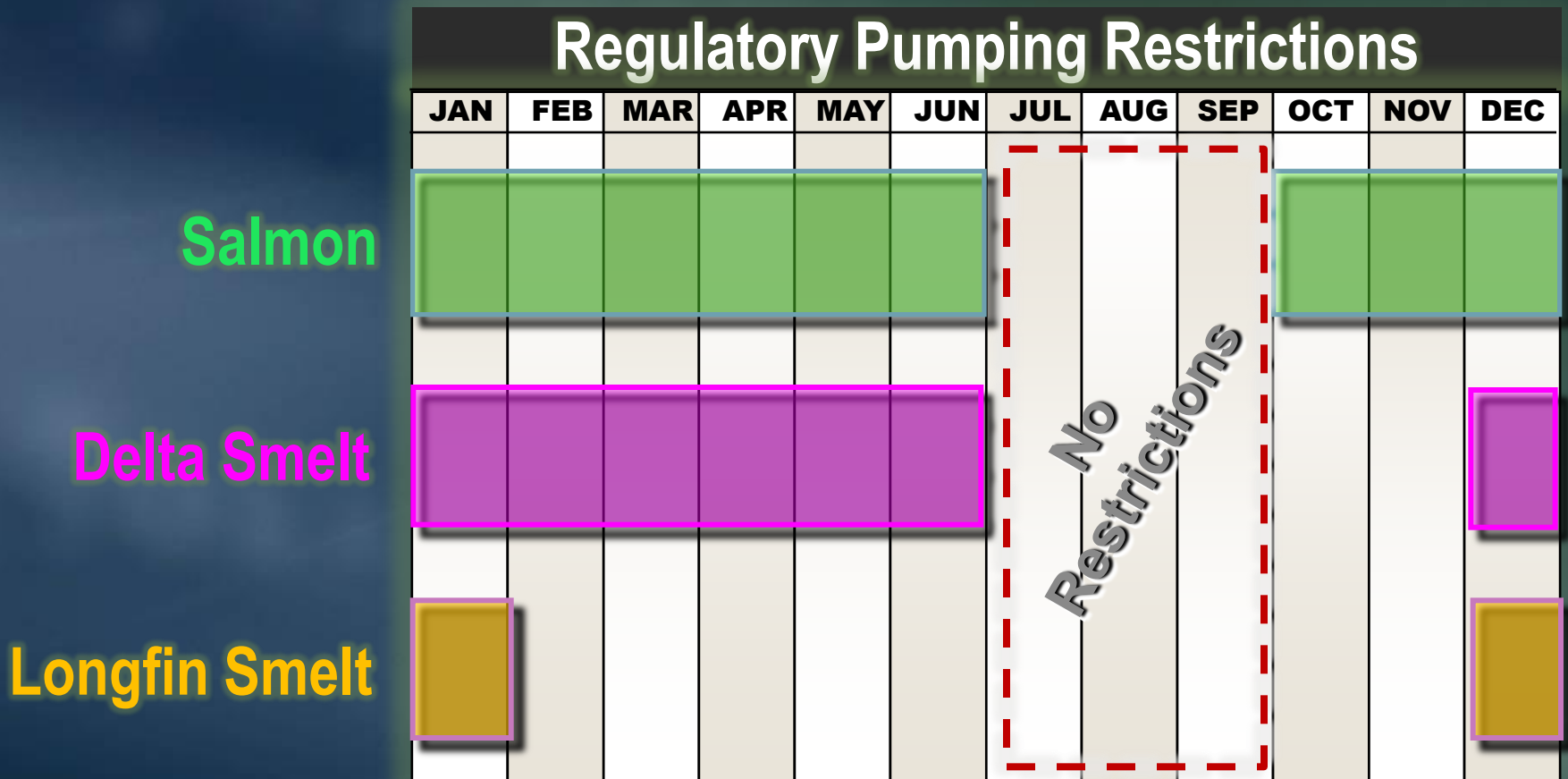
A Downturn for Delta Smelt & Salmon

Sacramento River Winter-Run Salmon



Pumping Flexibility Reduced

Window restricted even during wet years



Importance of the Bay-Delta

Supplies Bay Area, Central Valley, & Southern Cal

Bay Area – 33%

Some regions up to 100% dependent

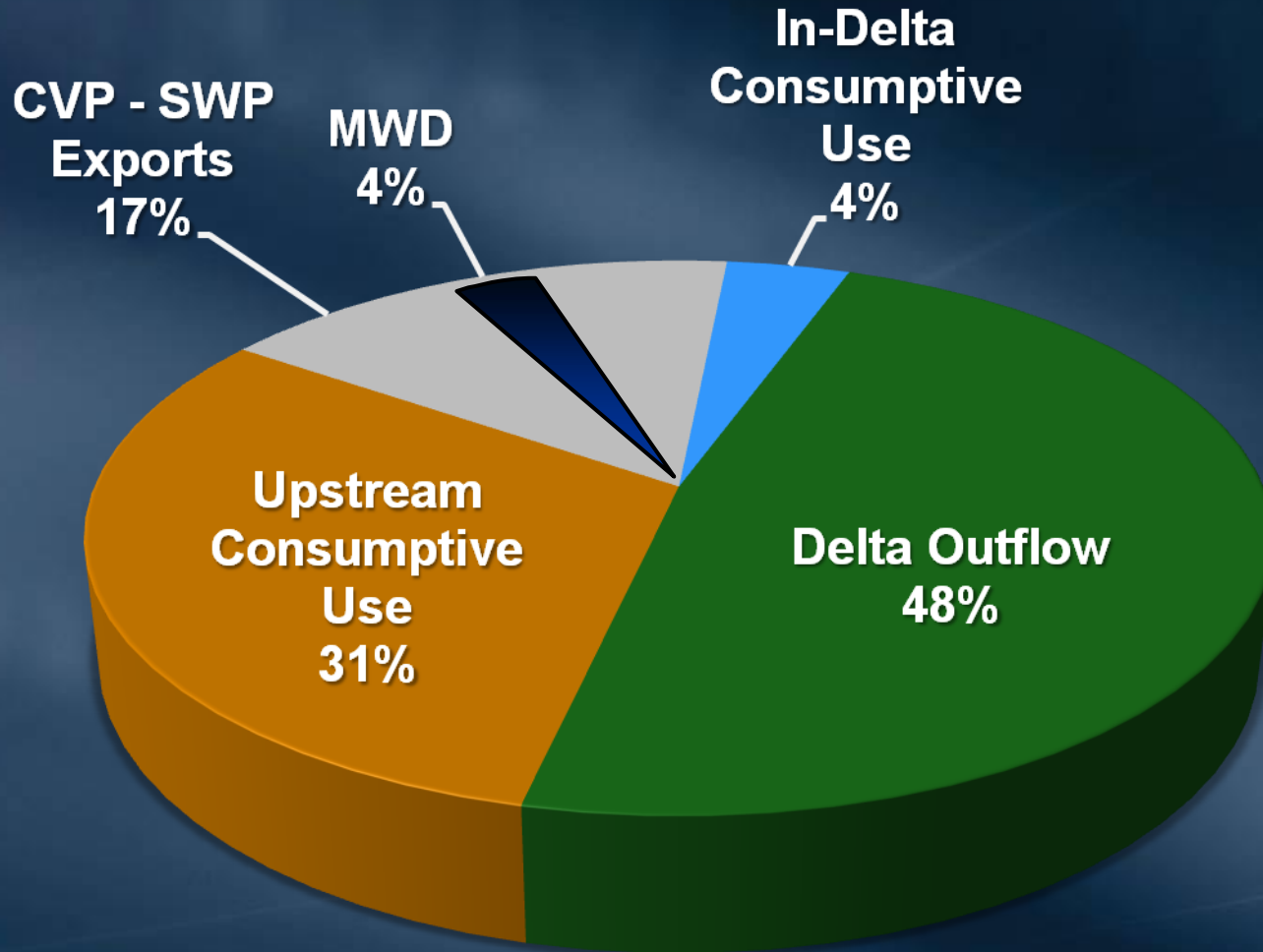
Central Valley – 23 to 90%

Southern Cal – 30%



Delta Watershed Diversions

1990-05



Agricultural Impacts

1 out of 3 acres without project water

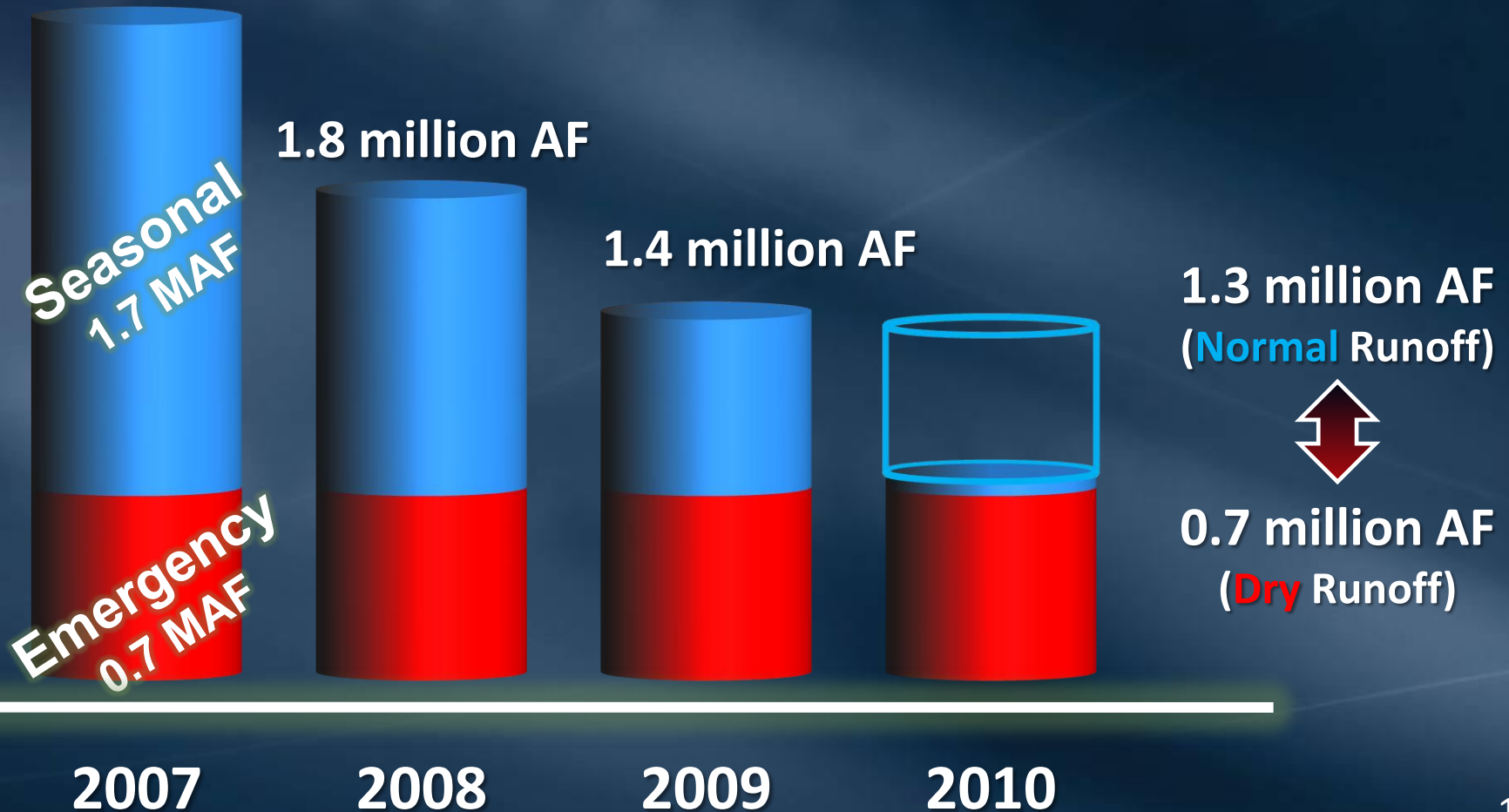
- 1 million acres effected (size of Delaware); average California farm = 350 acres
- 40,000 workers face unemployment
- \$1.4 billion in Central Valley impacts



Metropolitan Storage Resources

End of Year Balances

2.4 million AF



A green leaf is shown falling from the top right towards the center. Below the leaf, a single water droplet is captured in mid-air, just above a surface of water. The impact of the droplet has created several concentric ripples that spread outwards across the water surface. The background is a gradient of green and blue, suggesting a natural, outdoor setting.

Improvement Actions

California's Water Crisis
In Search of a Solution

Commitment to Improved Ground/Surface Water Storage

- Surface Reservoirs
- Groundwater Programs

San Luis Reservoir
Semitropic W.S.D.

Kern Delta W.D.

Arvin-Edison W.S.D.

Mojave W.A.

San Bernardino
Valley M.W.D.

Castaic Lake

Hayfield
Basin

Arizona Banking

Lake Mathews

Lake Perris

Diamond Valley Lake
Coachella Valley
Ski W.D. Reservoir

Palo Verde
I.D.

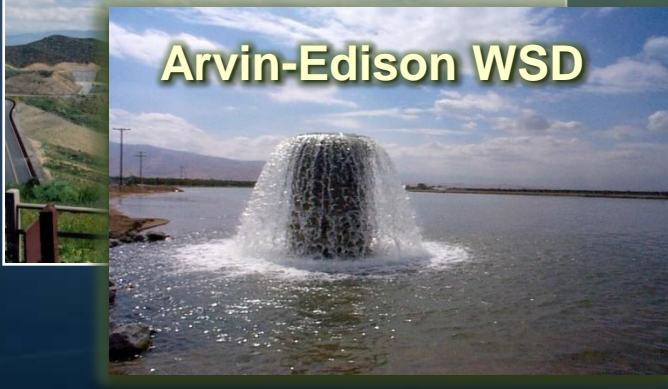
Local Programs

- 7 existing
- 7 new Prop. 13

Imperial I.D.

Diamond Valley Lake

Arvin-Edison WSD





Commitment to Regional Investments

- Conservation: \$234 million
- ▲ Desalination: 5 proposed projects
- Recycling: 59 projects, \$138 million
- + New LRP Programs: 13 proposed projects
- Groundwater Recovery: 18 projects, \$49 million

2025: Total Projected Savings > 2.1 million AF

Meeting Future Demand Increases

Through “Local” Resources

~ 1 billion gal/day (1.1 million AF/yr)

Groundwater

Recycling- Desal

Conservation

=

San Francisco

Los Angeles

San Diego

Southern Cal Conservation (2008)

Annual Urban Demand

Bay-Delta Conservation Plan Overview

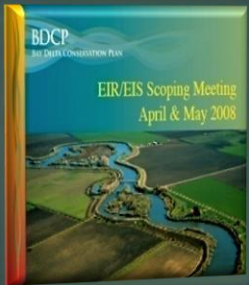


Bay-Delta Conservation
Plan

- Multi-species, coordinated approach to endangered species protection vs. current species-by-species approach
- Includes habitat conservation & conveyance improvements

Bay-Delta Conservation Plan

Steering Committee



Bay-Delta Conservation
Plan

Fed & State Agencies

- Cal Bay-Delta Authority
- The Resource Agency
- US Bureau of Reclamation
- Cal. Dept. of Water Resources
- State Water Res. Control Board
- US Corps of Engineers

Fish Agencies

- Cal Dept. of Fish & Game
- US Fish & Wildlife Service
- National Marine Fisheries Service

Other Organizations

- Cal Farm Bureau Federation
- Mirant Delta

Water Agencies

- Contra Costa Water District
- Kern County Water Agency
- Metropolitan Water District
- North Delta Water Agency
- San Luis & Delta Mendota WA
- Santa Clara Valley Water Dist.
- Westlands Water District
- Zone 7 Water Agency

Environmental Org.

- American Rivers
- Defenders of Wildlife
- Environmental Defense
- Natural Heritage Institute
- The Bay Institute
- The Nature Conservancy

Bay-Delta Conservation Plan

Habitat Restoration Opportunities



Suisun Marsh

Cache Slough

Yolo Bypass

Sacramento

Dutch Slough

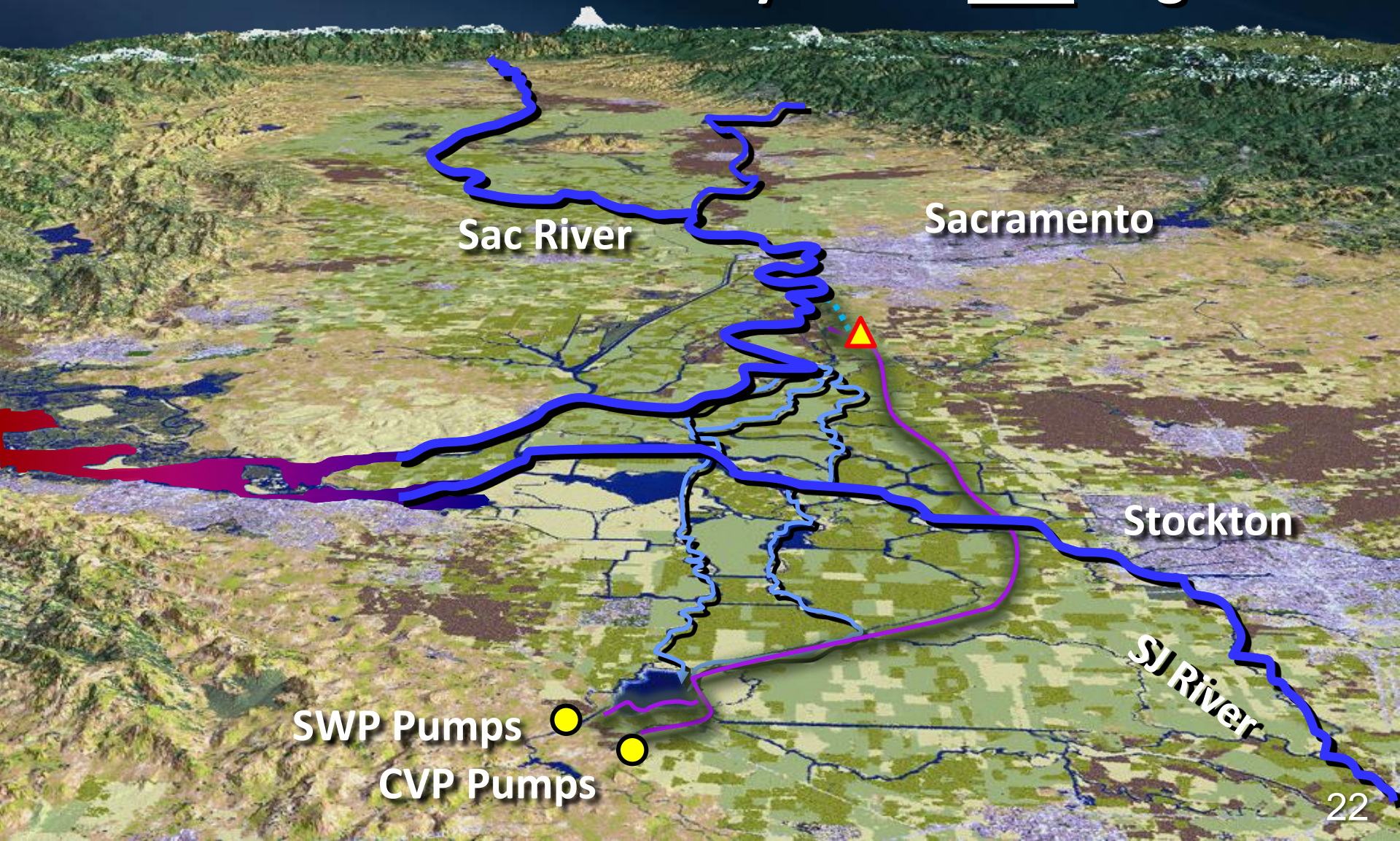
Stockton

SWP Pumps

CVP Pumps

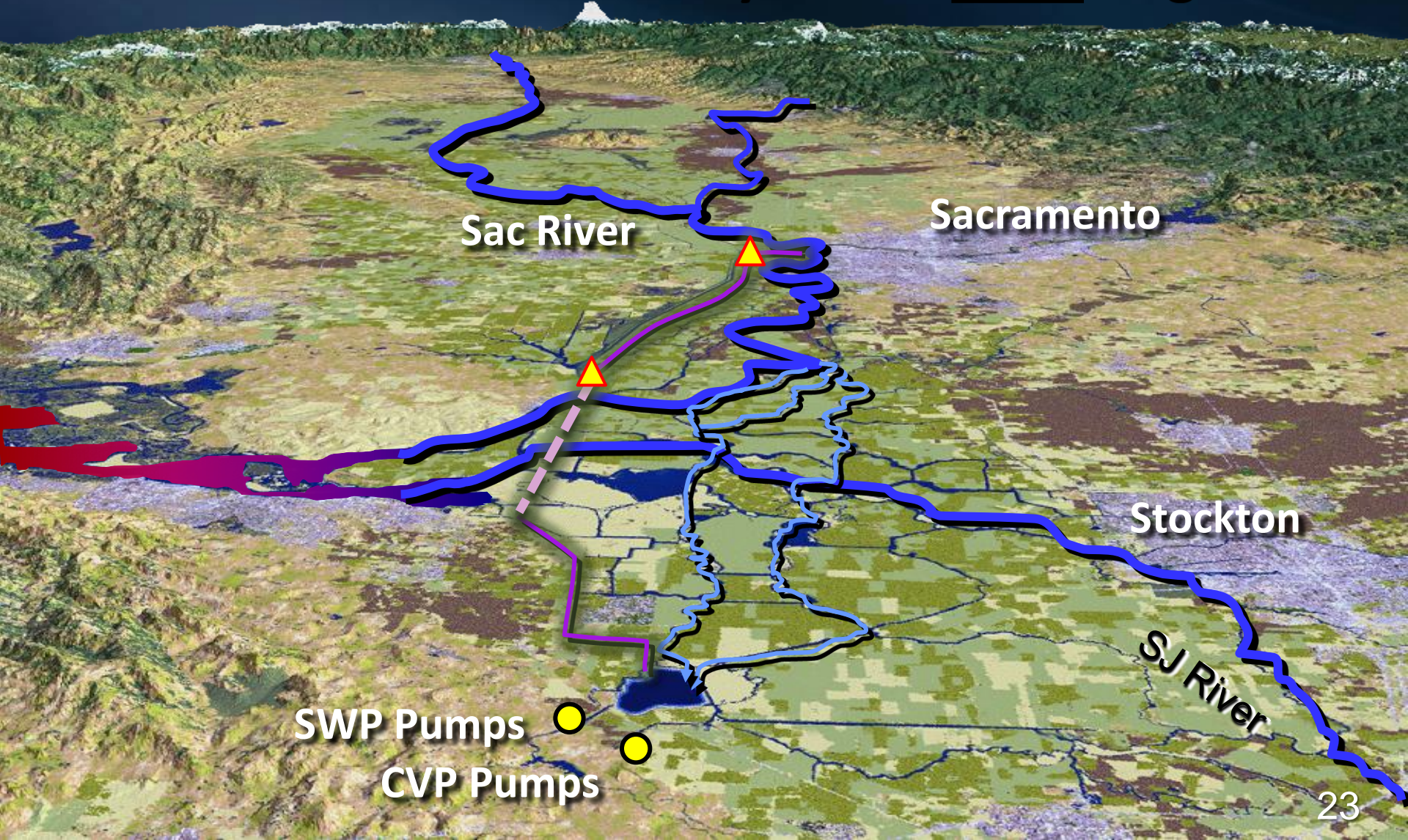
Bay-Delta Conservation Plan

Dual-Conveyance – East Alignment



Bay-Delta Conservation Plan

Dual-Conveyance – West Alignment



2008

2009

2010

ENVIRONMENTAL REVIEW

NON/NOF

SCOPING

ASSESS EFFECTS ON HUMAN ENVIRONMENT

DRAFT EIR

REVIEW

FINAL EIS/EIR

PUBLIC REVIEW

NOTICE OF AVAILABILITY

PLAN DEVELOPMENT

EXISTING CONDITIONS

GOALS & OBJECTIVES

DEVELOPMENT CONSERVATION

DEVELOPMENT ADAPTIVE

DRAFT CONSERVATION STRATEGY

ANALYSIS & FUNDING

IMPLEMENTATION PLAN

IMPLEMENTATION ORGANIZATION

1st DRAFT BDCP

PUBLIC DRAFT BDCP

PUBLIC REVIEW

SIGNED AGREEMENT

PERMIT DECISION

OUTREACH

SCOPING MEETINGS

INTRO TO BDCP

PUBLIC UPDATE MEETINGS

PUBLIC MEETINGS

PUBLIC COMMENT

PUBLIC HEARINGS

PUBLIC COMMENT

TOWN HALL MEETINGS, WEB SITE, SPEAKERS BUREAU, E-MAIL UPDATES, NEWS MEDIA UPDATES

STEERING COMMITTEE MEETINGS (every other Friday, toll-free conference call access) • STEERING COMMITTEE WORKSHOPS (as needed, open to public)



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