Westlands Water District

California WaterFix
Change Petition Hearing
Part 2

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Westlands Water District

Agenda

- Introduction to Westlands Water District
- Westlands' Water Supplies
- Putting Water to Beneficial Use
- The Need to Restore and Protect Water Supply
- Potential Impacts to Westlands

Westlands Water District

Westlands Water District

- 600,000 Acres in Western Fresno and Kings Counties
- Demand for Irrigation Water 1.4 MAF Per Year
- Highly Productive Farm Land
- 600 Family Farms Produces Over 60 Food Crops

Member of SLDMWA

Westlands' Water Supply

- Water Service Contracts With Bureau of Reclamation For CVP Water
- Supplemental Water through Water Transfers
- Groundwater

Water Conservation and Sustainability in Westlands

- Increased Efficiency
- Groundwater Stabilization
- Advanced Irrigation Practices

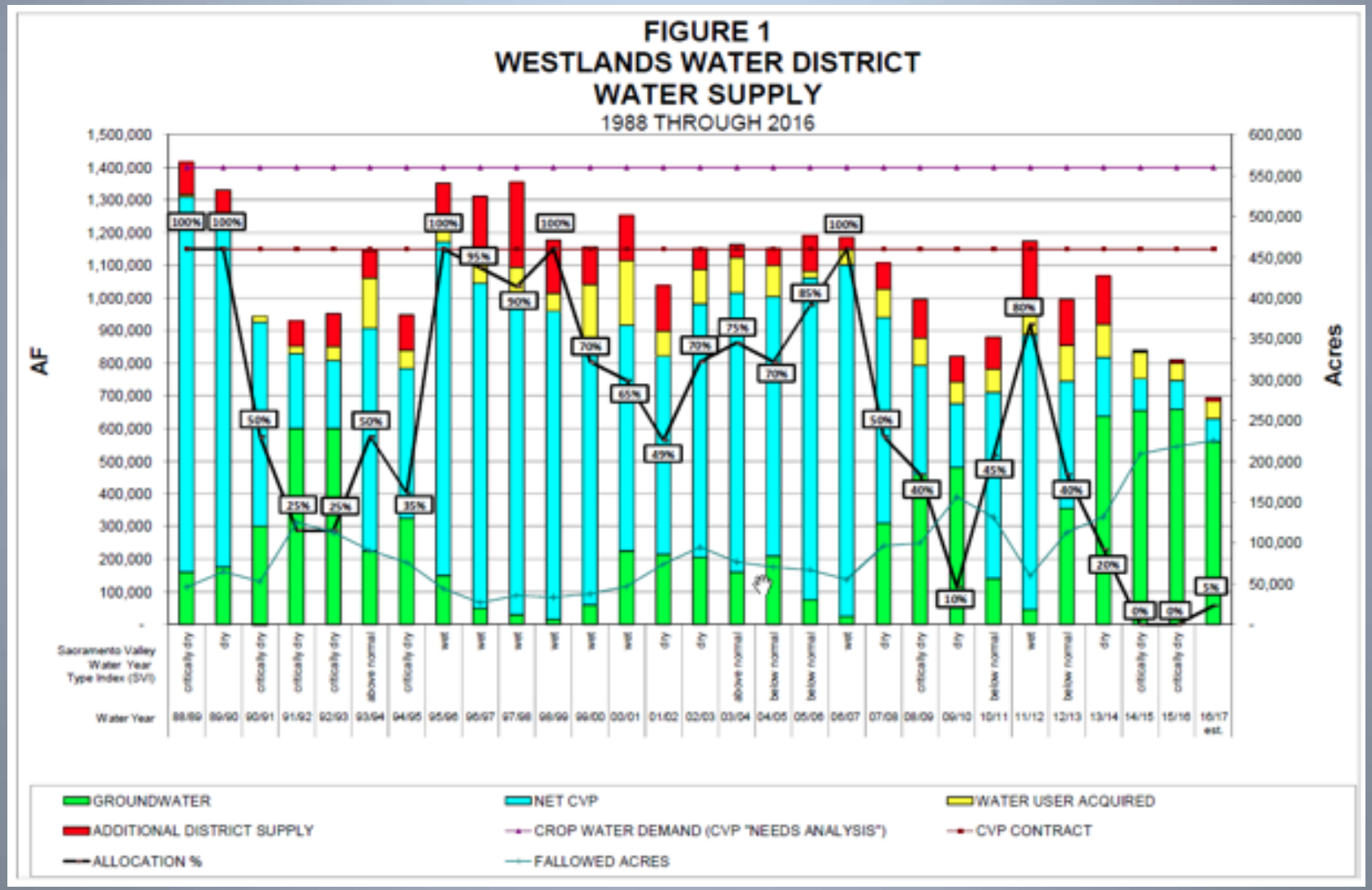
Shallow Groundwater Management in Westlands

- Irrigation Drainage Management
- Drainage Technologies
- Water Management Techniques

CVP Operations and Water Supply

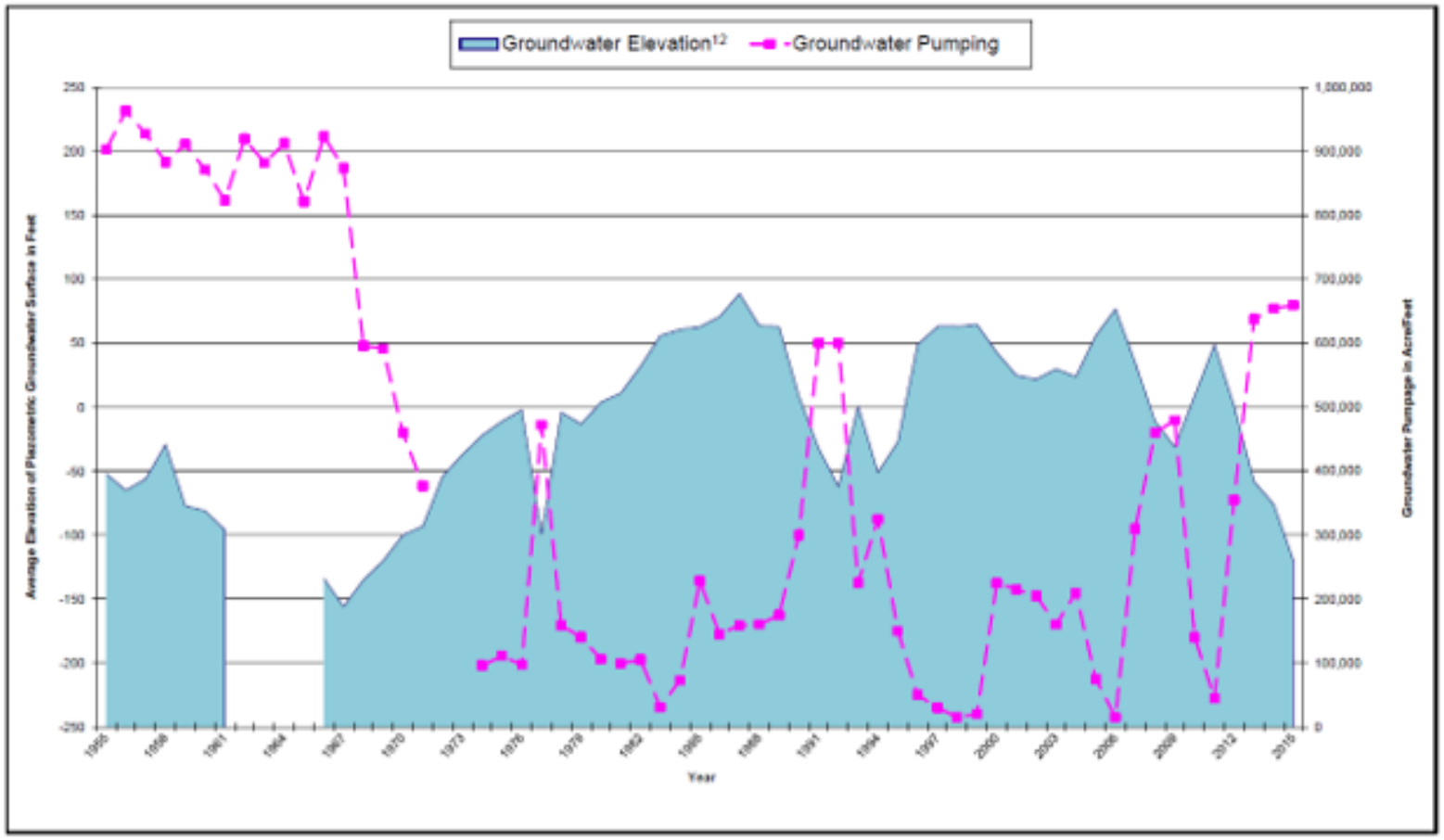
- Typical Operating Years
- Reclamation Allocated Westlands' Full Contractual Allotment in 3 of last 28 years
- 2014 and 2015: 0% Allocation
- 2016: 5% Allocation
  - North Sierra 8-Station Precipitation Index at 112% Average

CVP Allocations and Groundwater Pumping



Westlands Historical Groundwater Pumping Rate

Figure 3: Historical Groundwater Pumping Rate (1955-2015)



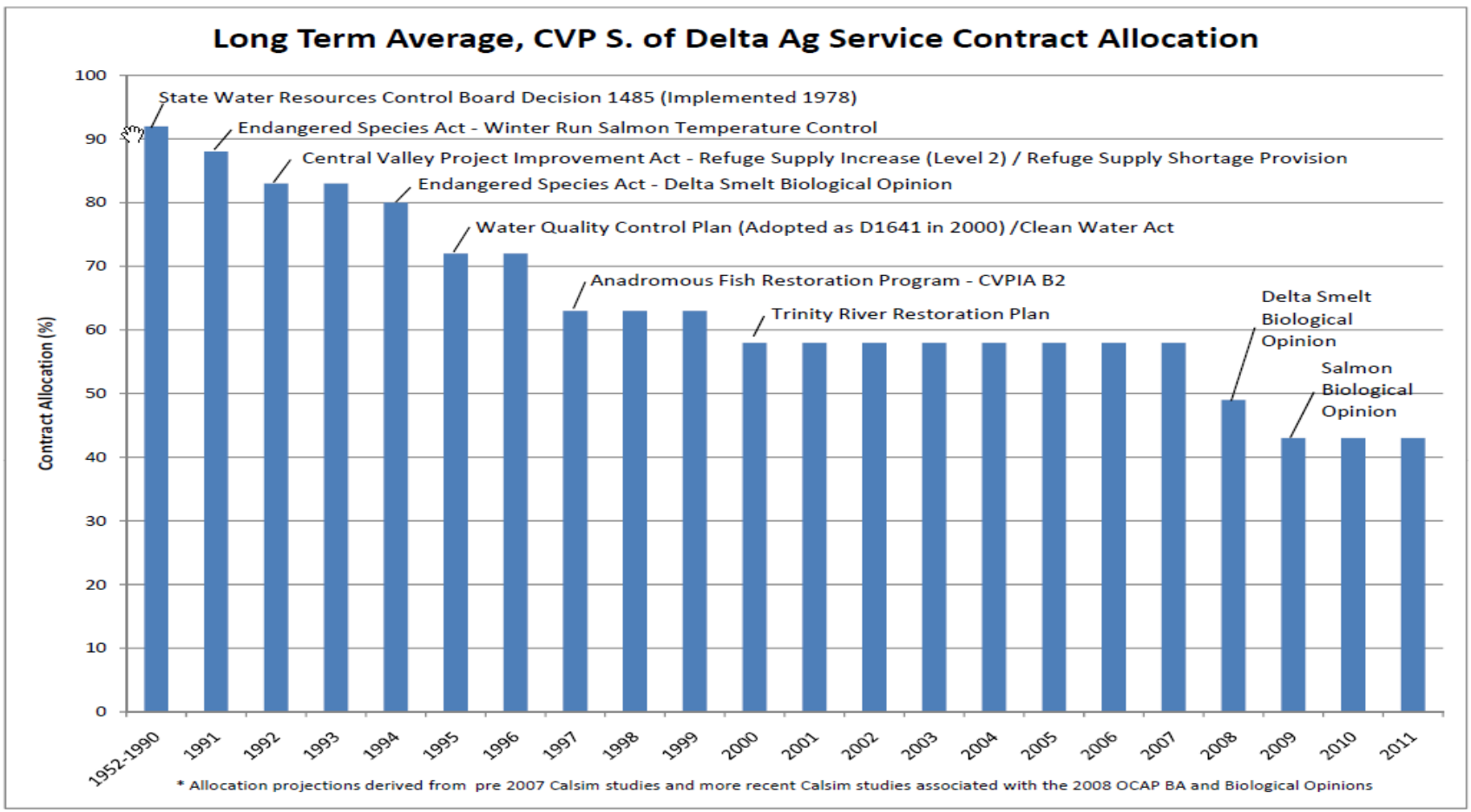
[1] Elevation Data from 1955-1961 and 1977 from Bill Coor, USBR, on 4/20/1978 for WWD
[2] Elevation Data from 1966-1976 from Plate 5 of "Project Effects on Sub-Corcoran Water Layers" (April 1977)

District-Wide Groundwater Pumping

District-Wide Groundwater Pumping

Year	Groundwater Pumping (acre-feet)	SOD CVP Allocation	Northern Sierra Precip. 8-Station Index (inches)
2007/08	310,000	50%	37.1
2008/09	460,000	40%	34.9
2009/10	480,000	10%	46.8
2010/11	140,000	45%	54.2
2011/12	45,000	80%	72.7
2012/13	355,000	40%	41.6
2013/14	638,000	20%	44.3
2014/15	655,000	0%	31.3
2015/16	660,000	0%	37.2
2016/17	612,000	5%	57.9
2017/18	60,000 (est.)	100%	2.3 to date

Restoring and Protecting Reliable Water Supply

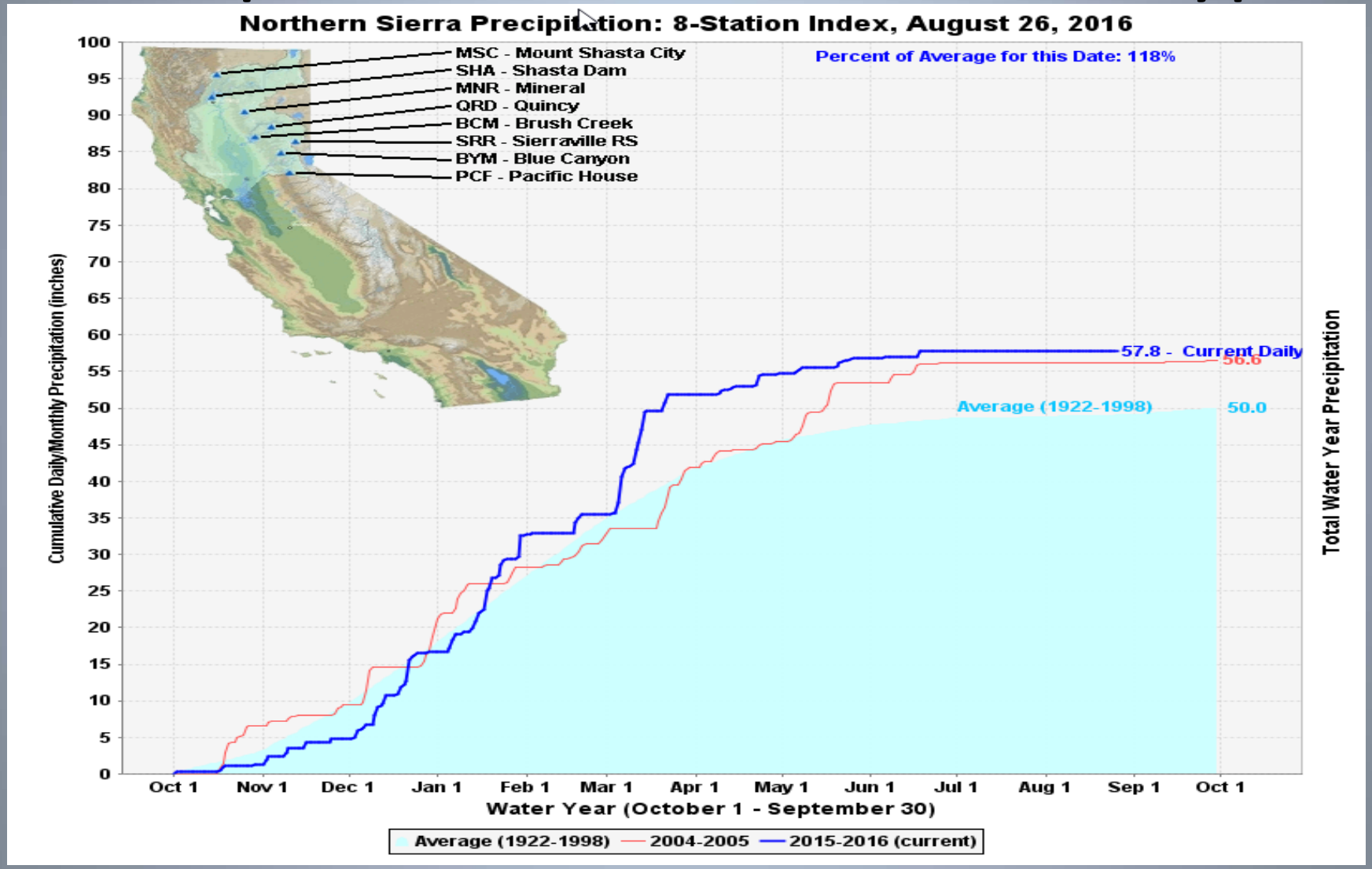


T. Boardman, SLDMWA
10/25/2013

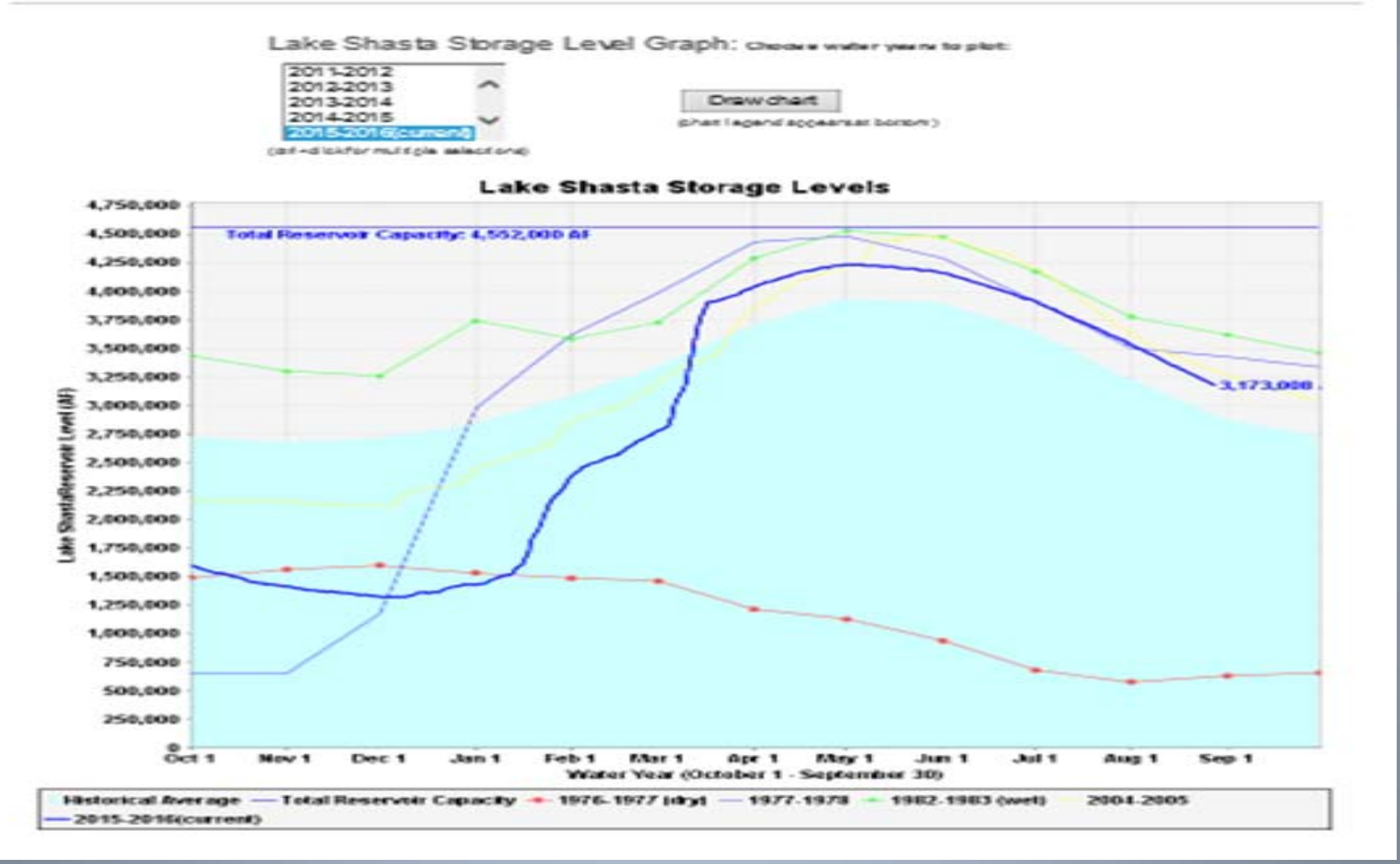
CVP South of Delta Allocations 1990-2018

Year	Final CVP South of Delta Agriculture Service Contract Allocation
1990/91	50%
1991/92	25%
1992/93	25%
1993/94	50%
1994/95	42.51%
1995/96	100%
1996/97	95%
1997/98	90%
1998/99	100%
1999/00	70%
2000/01	65%
2001/02	49%
2002/03	70%
2003/04	75%
2004/05	70%
2005/06	85%
2006/07	100%
2007/08	50%
2008/09	40%
2009/10	10%
2010/11	45%
2011/12	80%
2012/13	40%
2013/14	20%
2014/15	0%
2015/16	0%
2016/17	5%
2017/18	100%

Precipitation and Water Year Type



Federal Reservoir Levels and Allocation



The Need to Restore and Protect Water Supply

The Bay-Delta Conservation Plan 2006 Planning Agreement called for "projects to proceed that restore and protect water supply, water quality, and ecosystem health within a stable regulatory framework."

Potential Impacts to Westlands

- Estimate an average long-term CVP water supply of 30% to 40% under current regulations
- Reliability could drop below 30%

Potential Impacts to Westlands

- If Restore Average Allocation to 70%:
  - Harvest Remaining Irrigable Acres
  - Limit Groundwater Pumping to Sustainable Yield
  - Limit Ground Fallowing
  - Lower Unemployment Rates

Potential Impacts to Westlands

- If Approval of Cal WaterFix either
  - Imposes Operational Limitations, or
  - Lacks Sufficient Terms and Conditions
- Then the Likely Results Will Be:
  - Increased Land Fallowing
  - Increased Groundwater Pumping
  - Increased Energy Use
  - Increased Water Costs For Disadvantaged Communities
  - Permanent Crop Damage
  - Reduced Air Quality

Conclusion and Review

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- Westlands' Water Supplies
- Putting Water to Beneficial Use
- The Need to Restore and Protect Water Supply
- Potential Impacts to Westlands