

CENTRAL VALLEY PROJECT AND STATE WATER PROJECT CANALS SAN JOAQUIN VALLEY, CALIFORNIA

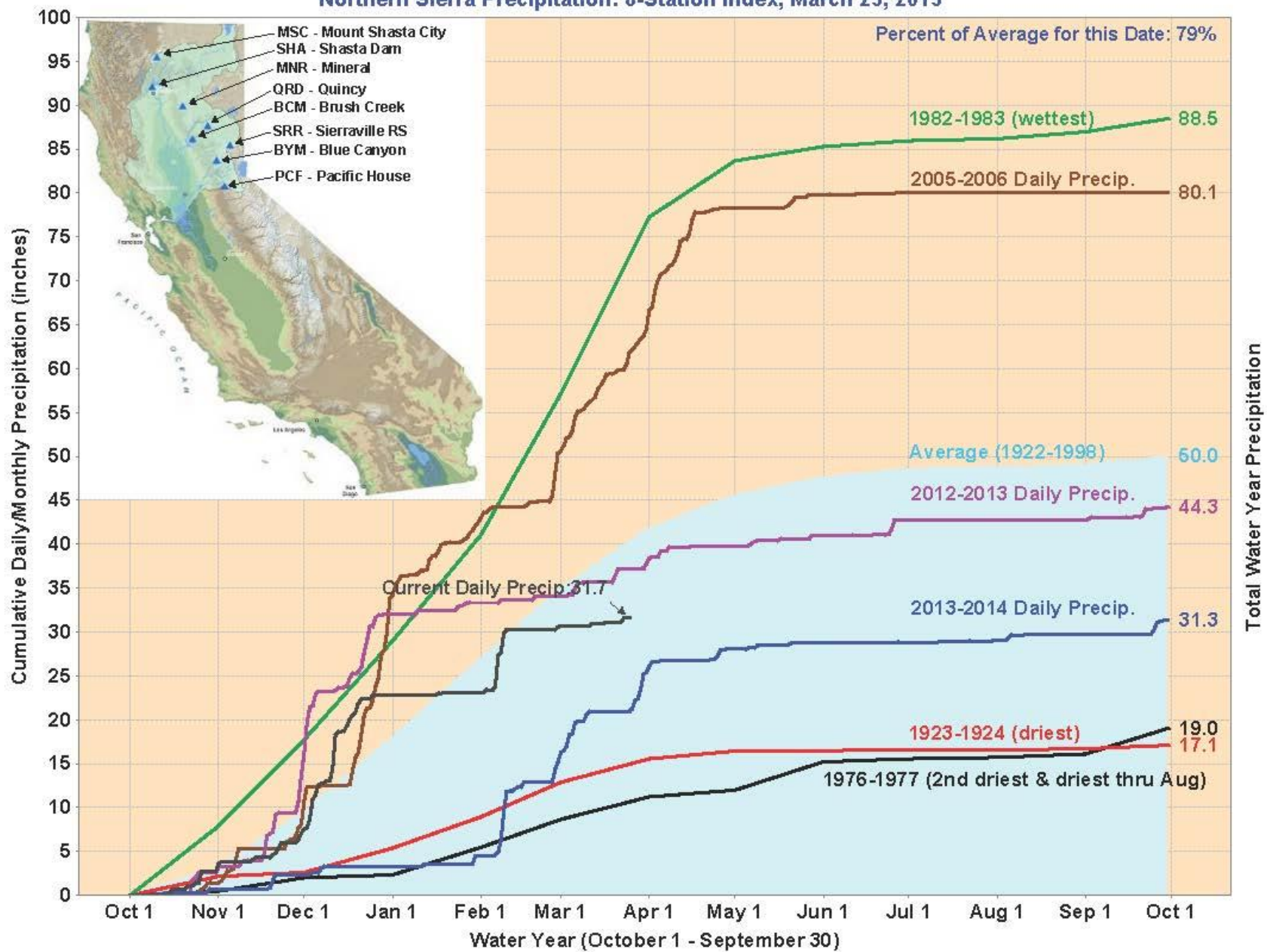


Central Valley Project and State Water project canal system

- Blue line: Federal (CVP)
- Red line: State (SWP)
- Green line: Private
- Blue/Red line: Joint Federal/State

Scale: 1:1,500,000

Northern Sierra Precipitation: 8-Station Index, March 25, 2015



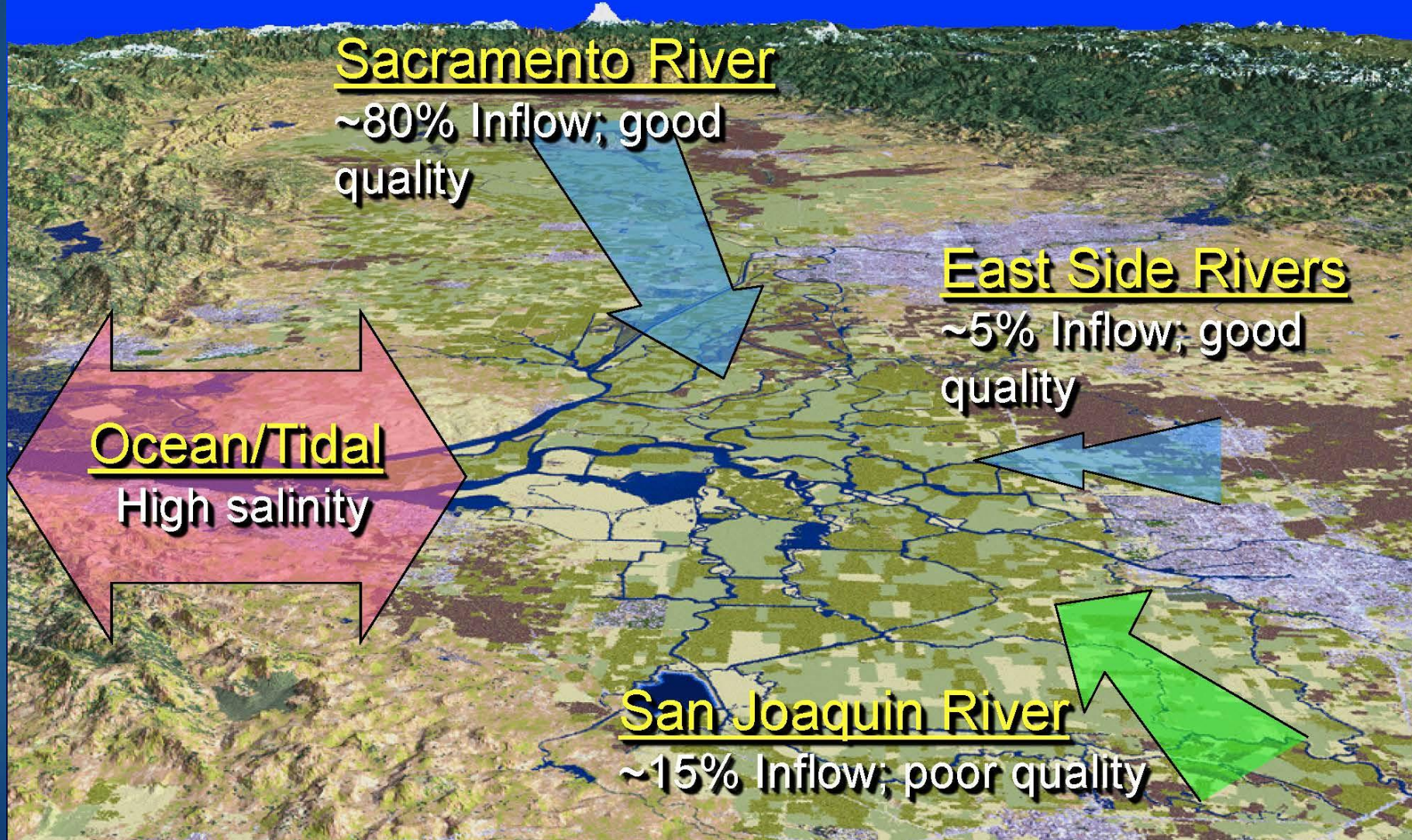
Bay-Delta Standards

Contained in D-1641

DRAFT

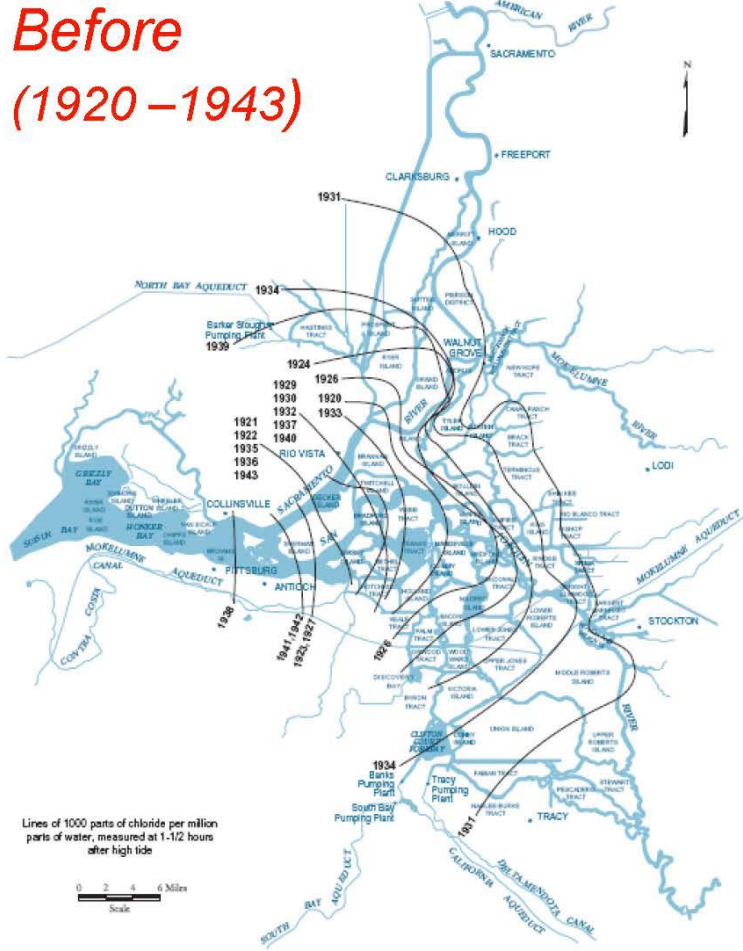
CRITERIA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FLOW/OPERATIONAL												
• Fish and Wildlife												
SWP/CVP Export Limits					1,500cfs ^[1]							
Export/Inflow Ratio ^[2]	65%	35% of Delta Inflow ^[3]					65% of Delta Inflow					
Minimum Delta Outflow	[4]						3,000 - 8,000 cfs ^[4]					
Habitat Protection Outflow		7,100 - 29,200 cfs ^[5]										
Salinity Starting Condition ^[6]		[6]										
River Flows:												
@ Rio Vista								3,000 - 4,500 cfs ^[7]				
@ Vernalis - Base		710 - 3,420 cfs ^[8]				[8]						
- Pulse					[9]						+28TAF	
Delta Cross Channel Gates	[10]	Closed				[11]						Conditional ^[10]
WATER QUALITY STANDARDS												
• Municipal and Industrial												
All Export Locations	≤ 250 mg/l Cl											
Contra Costa Canal	150 mg/l Cl for the required number of days ^[12]											
• Agriculture												
Western/Interior Delta				Max. 14-day average EC mmhos/cm ^[13]								
Southern Delta ^[14]	1.0 mS		30 day running avg EC 0.7 mS					1.0 mS				
• Fish and Wildlife												
San Joaquin River Salinity ^[15]				14-day avg. 0.44 EC								
Suisun Marsh Salinity ^[16]	12.5 EC	8.0 EC	11.0 EC					19.0 EC	[17]	15.5 EC		

Delta Inflow Refresher



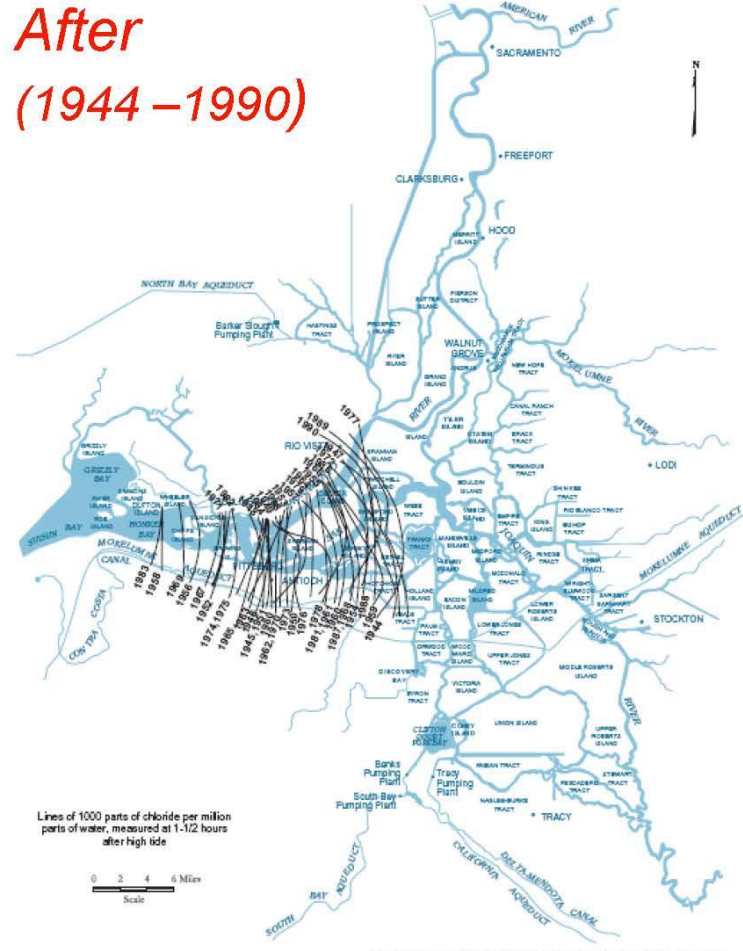
Salinity Intrusion Before and After Managed Upstream Reservoirs

Figure 4-26 Maximum Salinity Intrusion, 1921-1943



Source: Department of Water Resources, Sacramento - San Joaquin Delta Atlas, 1993

Figure 4-27 Maximum Salinity Intrusion, 1944-1990



Source: Department of Water Resources, Sacramento - San Joaquin Delta Atlas, 1993

SWRCB Current Bay-Delta WQCP Update

- ▶ Phase 1: San Joaquin River Flows and Southern Delta Water Quality
- ▶ Phase 2: Comprehensive Review
- ▶ Phase 3: Water Rights Implementation of Bay-Delta Plans
- ▶ Phase 4: Development and Implementation of Flow Objectives for Priority Delta Tributaries

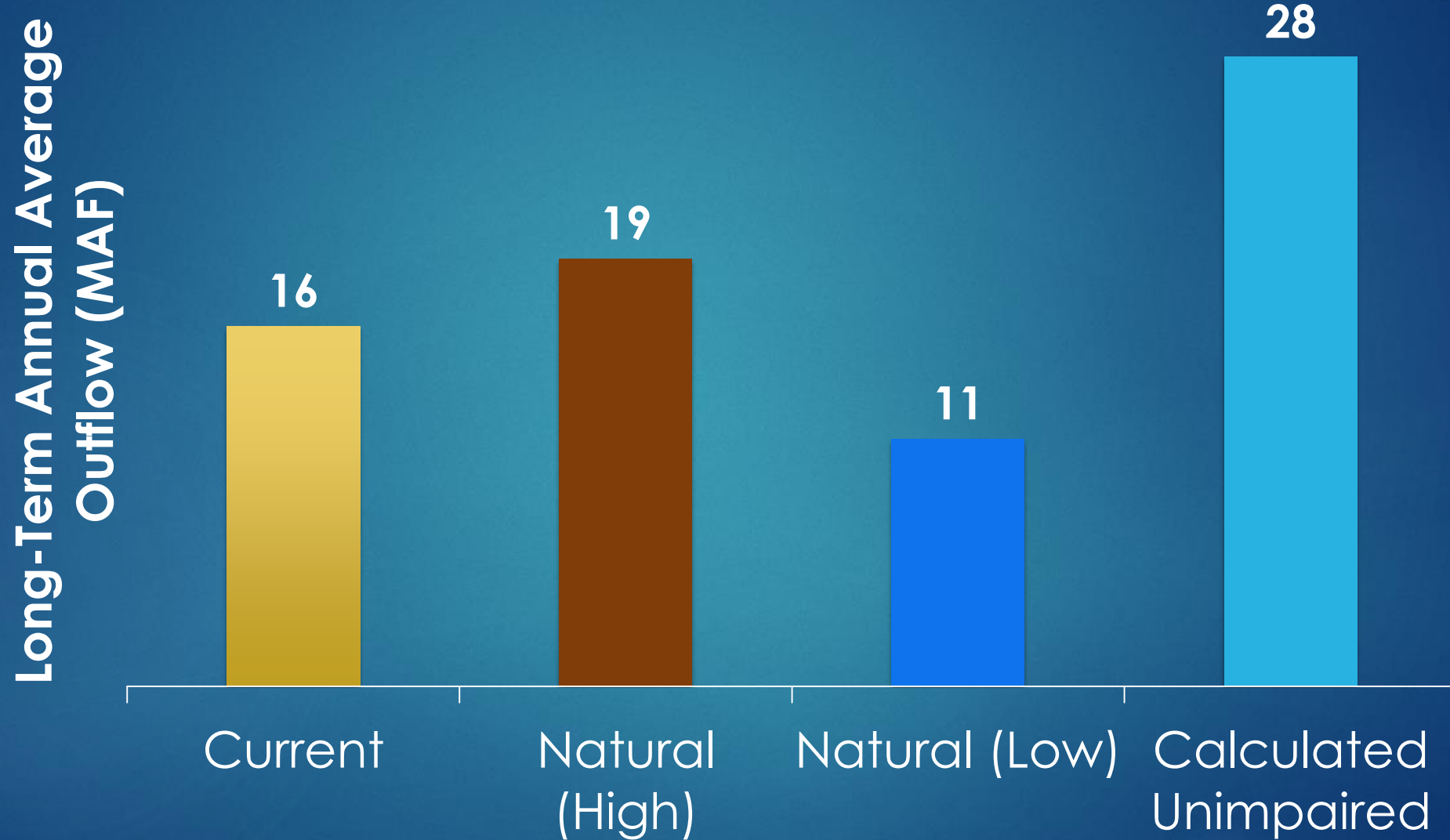
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Unimpaired Flow

- ▶ State Board staff recommending adoption of a percentage of unimpaired flow for Water Quality Control Plan in both Phase 1 & Phase 2
- ▶ What does that mean?

Annual Delta Outflow Estimates



Natural Delta Outflow Modeling

