

SAN JOAQUIN RIVER HYDROLOGIC REGION

Flow in TAF		
1998	2000	2001
5,119	6,174	4,572

Flow in TAF		
1998	2000	2001
40	30	23

Sacramento River Region
Delta Mendota Canal (CVP)
Folsom South Canal
California Aqueduct (SWP)

Sacramento River Region
San Joaquin River

Sacramento River Region
Sly Park



Flow in TAF		
1998	2000	2001
8,491	2,846	1,732

Flow in TAF		
1998	2000	2001
597	629	625

San Francisco Bay Region
Contra Costa Canal,
Mokelumne Aqueduct,
Hetch Hetchy Aqueduct
South Bay Aqueduct

Central Coast Region
San Felipe Unit (CVP)

Flow in TAF		
1998	2000	2001
83	113	152

Tulare Lake Region
California Aqueduct (SWP)
San Luis Unit (CVP)
DMC-Mendota Pool

San Joaquin Region
Kings River

Tulare Lake Region
Friant-Kern Canal (CVP)

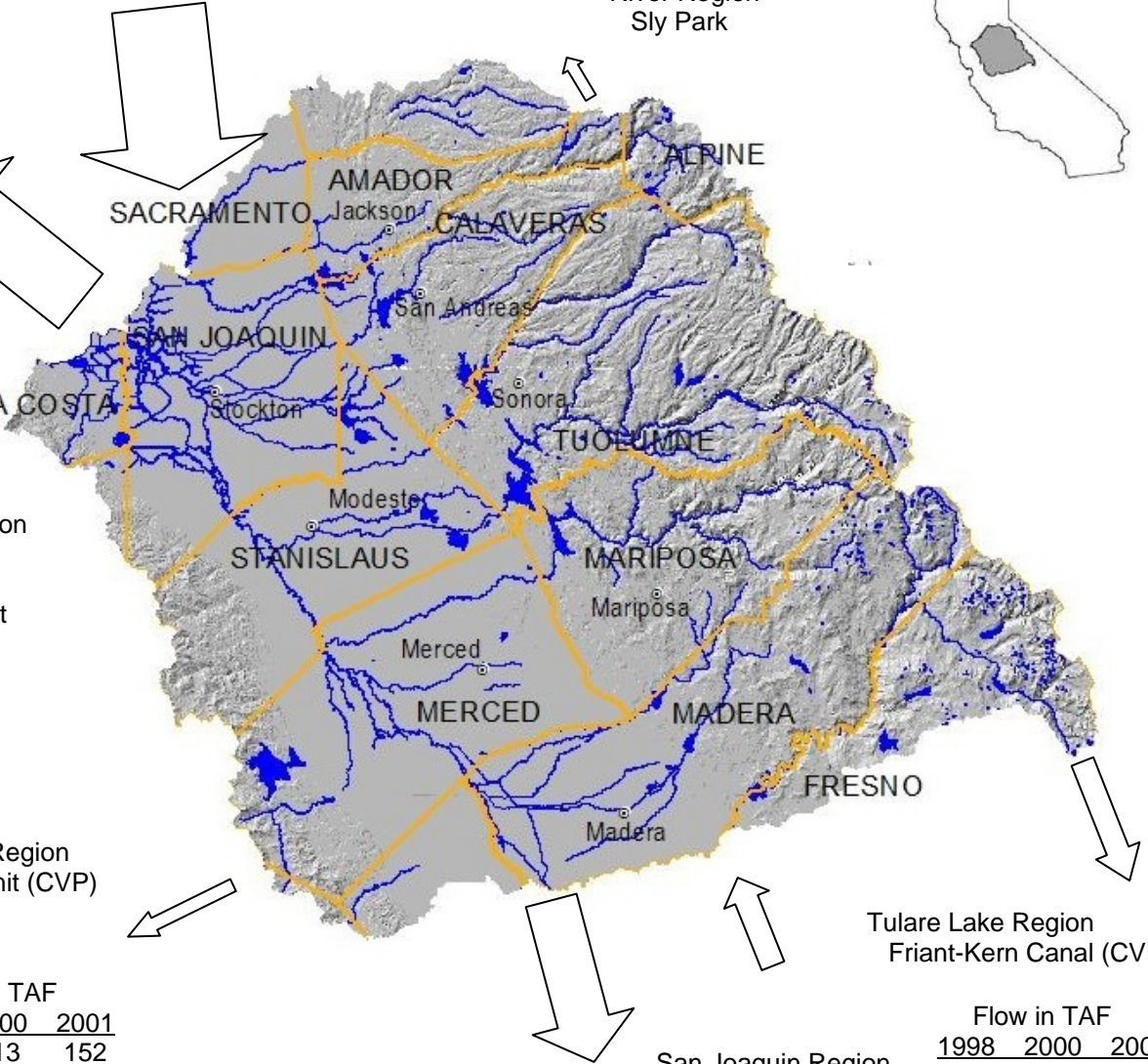
Flow in TAF		
1998	2000	2001
764	1,212	735

Flow in TAF		
1998	2000	2001
915	-	-

Some Statistics

- Area - 15,214 square miles (9.6% of State)
- Average annual precipitation – 26.3 inches
- Year 2000 population - 1,751,010
- 2030 projected population – 3,385,885
- Total reservoir storage capacity - 11,477 TAF
- 2000 irrigated crop area - 2,050,400 acres

Flow in TAF		
1998	2000	2001
2,952	4,414	2,961



SAN JOAQUIN RIVER HYDROLOGIC REGION WATER BALANCE SUMMARY - TAF

Water Entering the Region – Water Leaving the Region = Storage Changes in Region

	Water Year (Percent of Normal Precipitation)		
	1998 (174%)	2000 (113%)	2001 (79%)
Water Entering the Region			
Precipitation	35,535	23,209	16,120
Inflow from Oregon/Mexico	0	0	0
Inflow from Colorado River	0	0	0
Imports from Other Regions	6,034	6,174	4,572
Total	41,569	29,383	20,692
Water Leaving the Region			
Consumptive Use of Applied Water * (Ag, M&I, Wetlands)	3,705	4,762	4,983
Outflow to Oregon/Nevada/Mexico	0	0	0
Exports to Other Regions ***	4,436	6,398	4,496
Statutory Required Outflow to Salt Sink	0	0	0
Additional Outflow to Salt Sink	176	196	218
Evaporation, Evapotranspiration of Native Vegetation, Groundwater Subsurface Outflows, Natural and Incidental Runoff, Ag Effective Precipitation & Other Outflows	31,448	18,055	13,690
Total	39,765	29,412	23,387
Storage Changes in the Region			
[+] Water added to storage			
[-] Water removed from storage			
Change in Surface Reservoir Storage	2,248	67	-1,435
Change in Groundwater Storage **	-444	-96	-1,260
Total	1,804	-29	-2,695

Applied Water * (compare with Consumptive Use)	6,035	7,584	7,817
* Definition - Consumptive use is the amount of applied water used and no longer available as a source of supply. Applied water is greater than consumptive use because it includes consumptive use, reuse, and outflows.			

****Footnote for change in Groundwater Storage**

Change in Groundwater Storage is based upon best available information. Basins in the north part of the State (North Coast, San Francisco, Sacramento River and North Lahontan Regions and parts of Central Coast and San Joaquin River Regions) have been modeled – spring 1997 to spring 1998 for the 1998 water year and spring 1999 to spring 2000 for the 2000 water year. All other regions and year 2001 were calculated using the following equation:

$$\text{GW change in storage} = \text{intentional recharge} + \text{deep percolation of applied water} + \text{conveyance deep percolation} - \text{withdrawals}$$

This equation does not include the unknown factors such as natural recharge and subsurface inflow and outflow.

*** Does not include San Joaquin River Flows flowing through Sacramento River Region to San Francisco Bay Region. Amounts are 8,491 taf for 1998, 2,846 taf for 2000, and 1,732 taf for 2001.