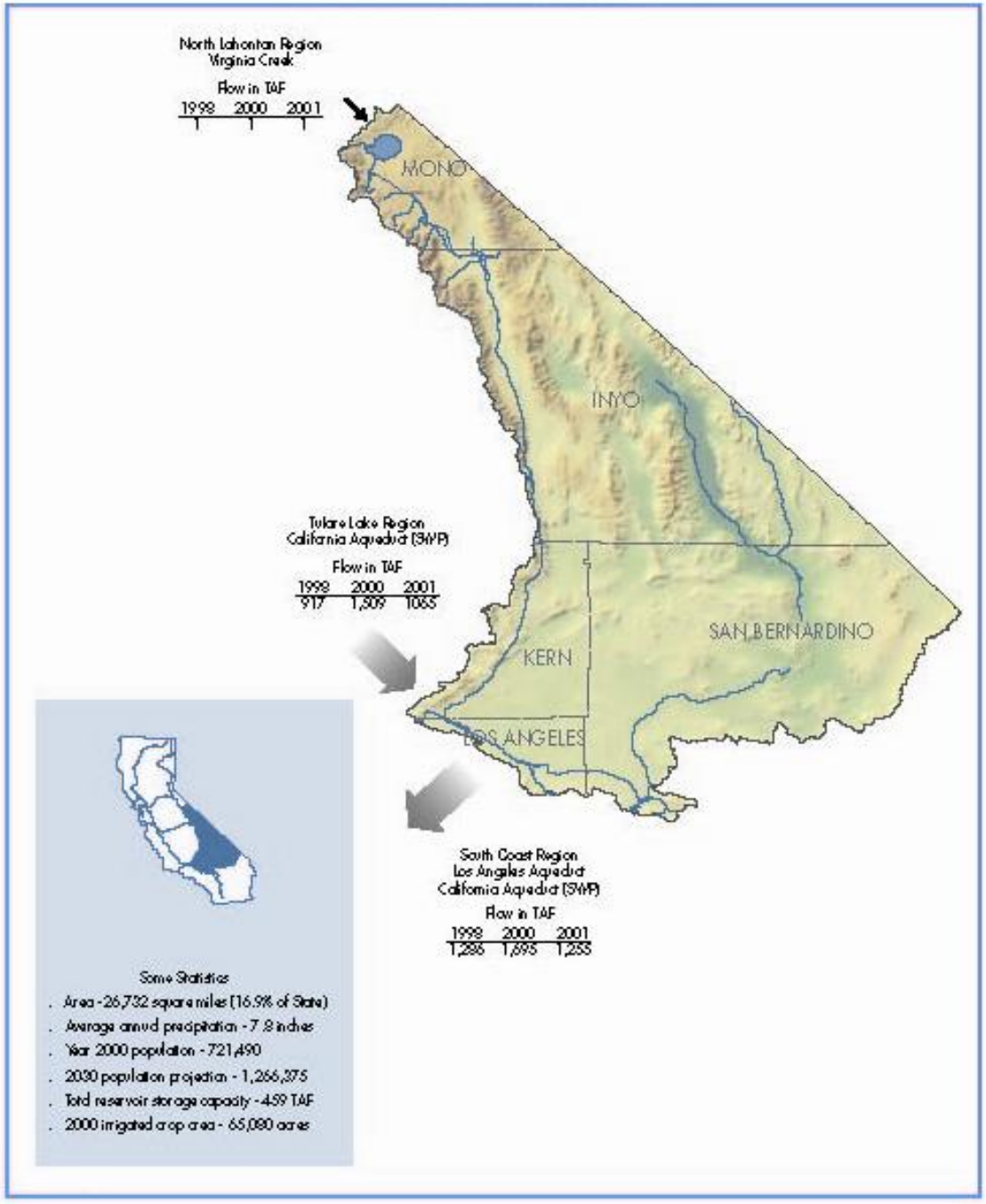
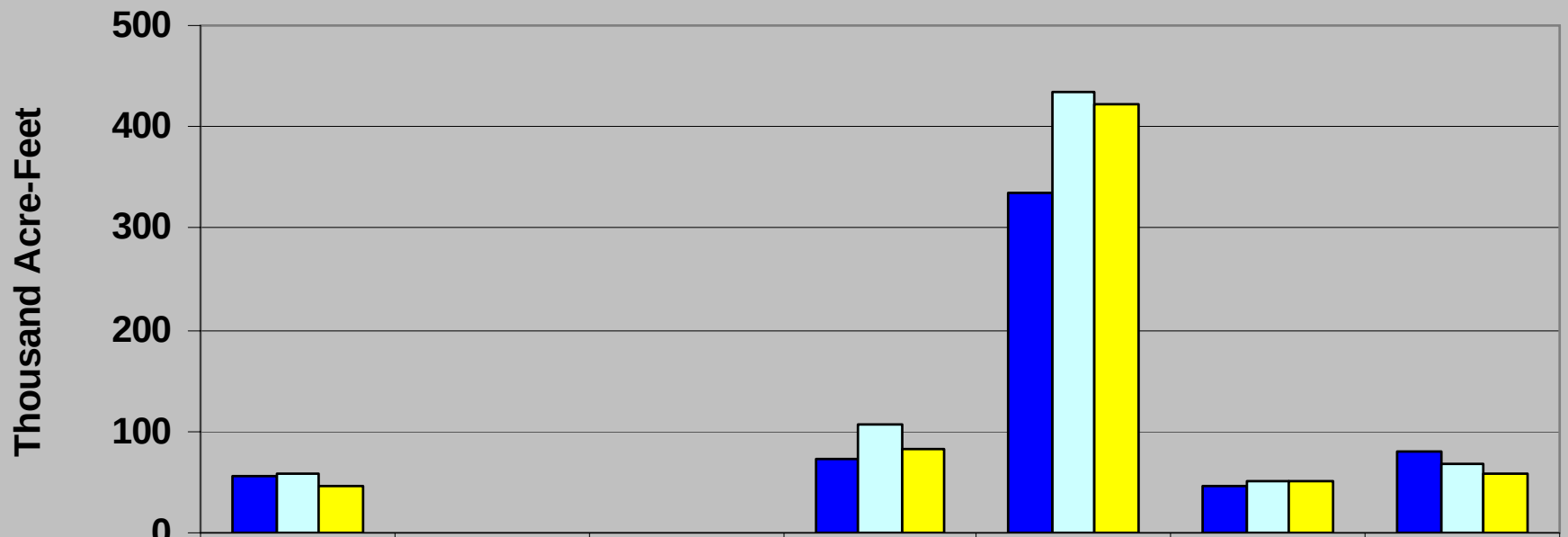
Regional Report

South Lahontan Hydrologic Region


North Lahontan Region
Virginia Creek
Flow in TAF
1998 2000 2001
MONO
INYO
Tulare Lake Region
California Aqueduct (SWP)
Flow in TAF
1998 2000 2001
917 1,509 1065
KERN
SAN BERNARDINO
LOS ANGELES
South Coast Region
Los Angeles Aqueduct
California Aqueduct (SWP)
Flow in TAF
1998 2000 2001
1,286 1,695 1,255
Some Statistics
. Area - 26,732 square miles (16.9% of State)
. Average annual precipitation - 7.8 inches
. Year 2000 population - 721,490
. 2030 population projection - 1,266,375
. Total reservoir storage capacity - 459 TAF
. 2000 irrigated crop area - 65,080 acres

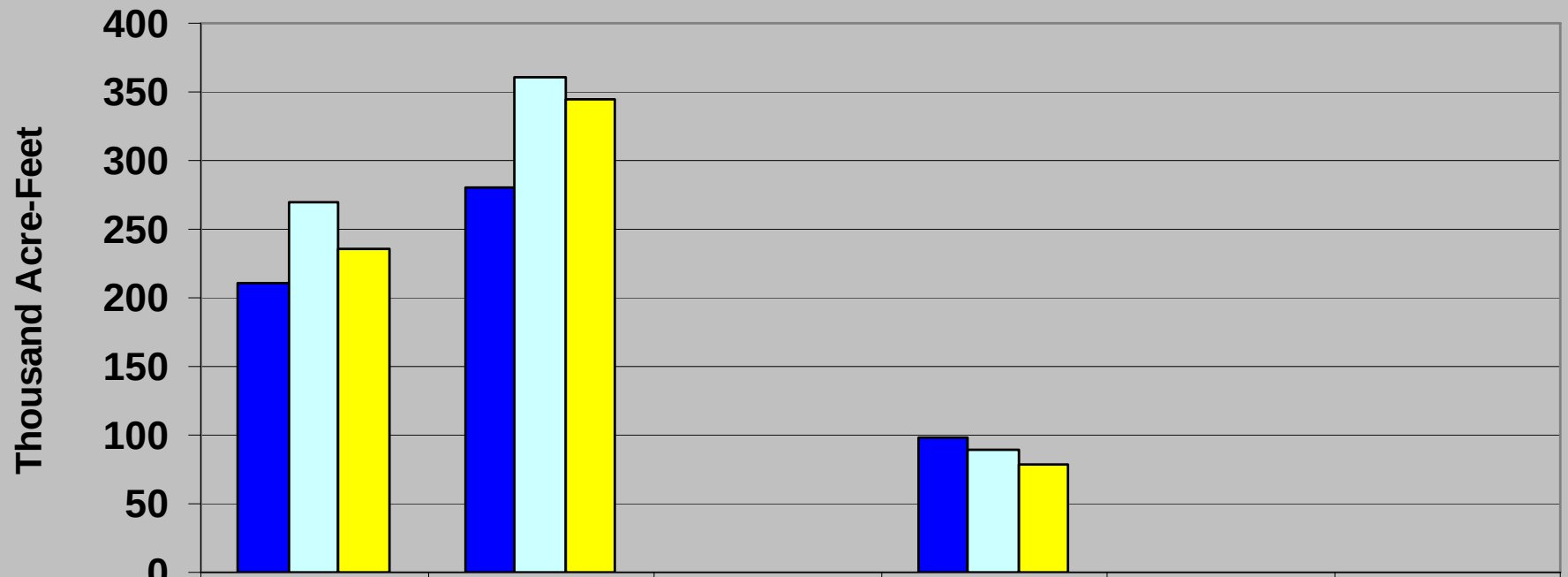
South Lahontan Region Dedicated Water Supplies for Water Years 1998, 2000, 2001



	Local Projects	Colorado Project	Federal Projects	State Project	Ground Water	Reuse & Recycle*	Dedicated Environ
1998	57	0	0	73	334	47	80
2000	58	0	0	108	435	50	67
2001	47	0	0	82	422	50	58

	1998	2000	2001
* Reuse Surface Water	19	21	21
Recycled Water	28	29	29

South Lahontan Region Applied Water Uses for Water Years 1998, 2000, 2001



	Urban	Irrigated Agriculture	Wild & Scenic R.	Instream Flow	Req Delta Outflow	Managed Wetlands
1998	211	281	0	98	0	0
2000	269	361	0	89	0	0
2001	236	344	0	78	0	0

South Lahontan Region Water Balance Summary

- Water Entering the Region (TAF)
  - 1998 21,327
  - 2000 8,986
  - 2001 10,807
- Water Leaving the Region (TAF)
  - 1998 21,481
  - 2000 9,288
  - 2001 11,107
- Storage Changes in the Region (TAF)
  - 1998 154
  - 2000 302
  - 2001 300

Regional Water Management Planning

- California Water Plan
- Prop. 50 & 84 Integrated Regional Water Management Plans
- City & County General Plans (SB221/610)
- Court actions
- Other regional and sub regional plans on water rights, water quality, ESA, contracts/transfers, and flood control
- Several regional, governmental, and water purveyors reacting to planning, funding, implementation and O&M responsibilities

South Lahontan Challenges/Actions

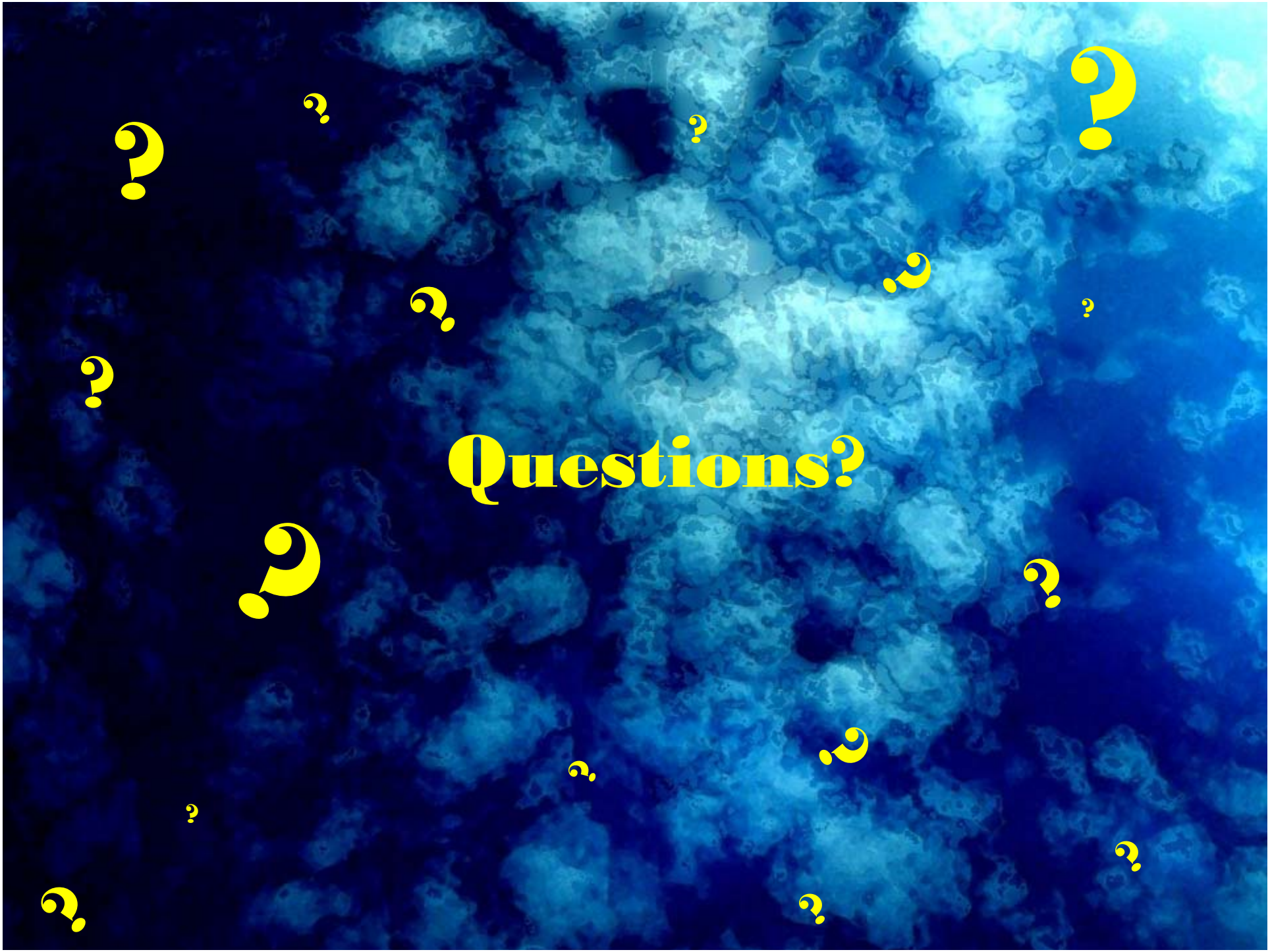
- Shortfalls in available water supplies in many areas
- Overdrafting groundwater
- Quality of limited surface water is excellent
- Some domestic water supply wells closed from contamination

Accomplishments in South Lahontan Region

- Developed solutions to two major water issues
  - Overuse of Mojave groundwater basin
  - Changes to water diversions from Owens River/Mono Basin
- Completion of Morongo Basin Project
- Mojave River Pipeline
- Groundwater banking and exchange agreement
- Completion of the Owens Valley Restoration Project

Climate Change

- Temperature increase
- Snowpack decrease
- River runoff timing and magnitude changes
- Effects on water rights
- Water supply change
- Water use increase
- Water temperature increase
  - Increase dam releases for temperature control for species


Questions?