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# Water Resources and Management in Ventura County

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## Part I

### Water Resources Inventory and Assessment

July 26, 2022

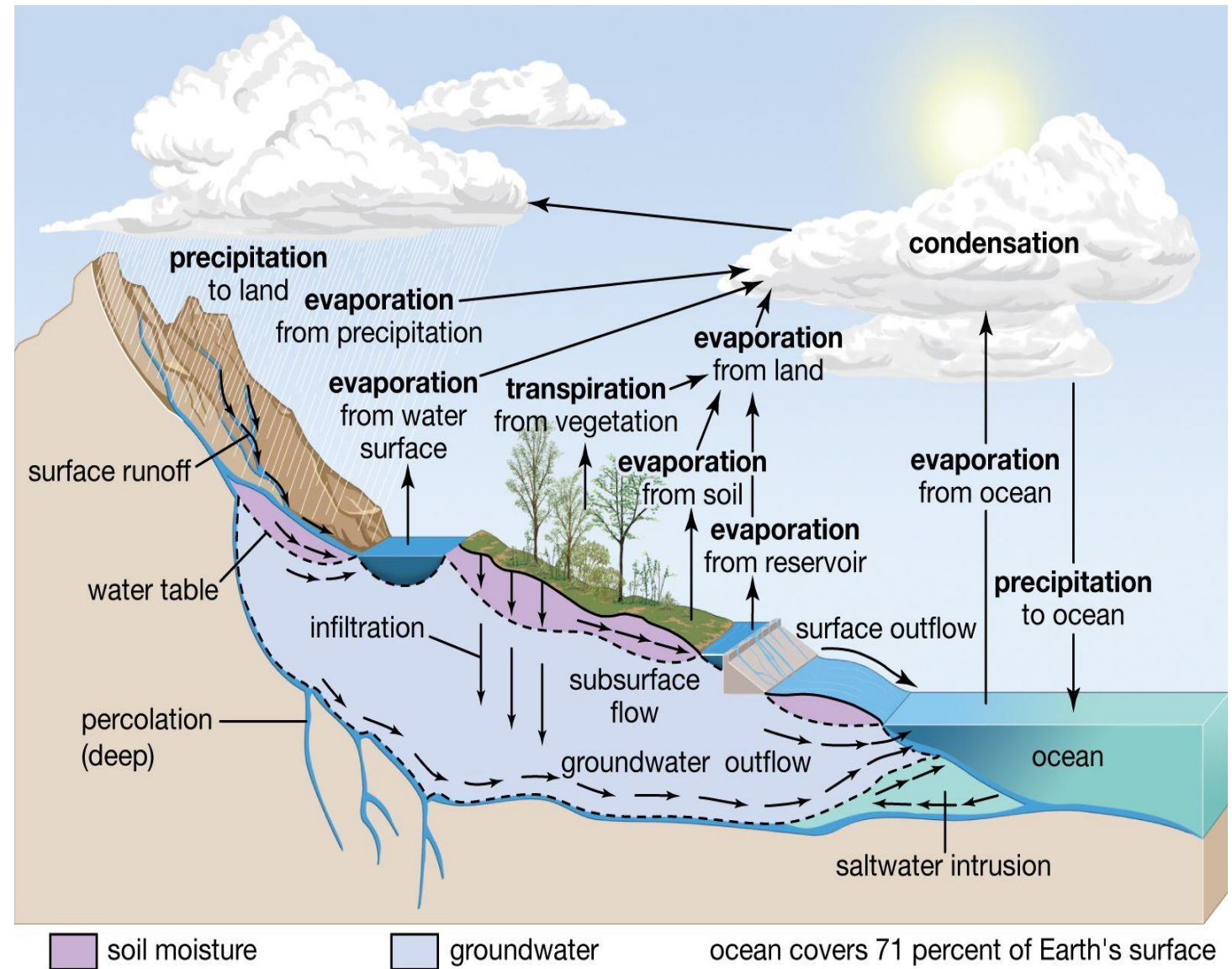
# Why Water is an Increasing Concern

- ▶ Demands in Ventura County are approaching available supplies
  - ▶ In some areas demands exceed supply
- ▶ New controls on supplies
  - ▶ Increasing environmental regulation
  - ▶ Sustainable Groundwater Management Act
  - ▶ Drought impacts
- ▶ County adaption strategy: Increase supply and decrease demand

# Agenda

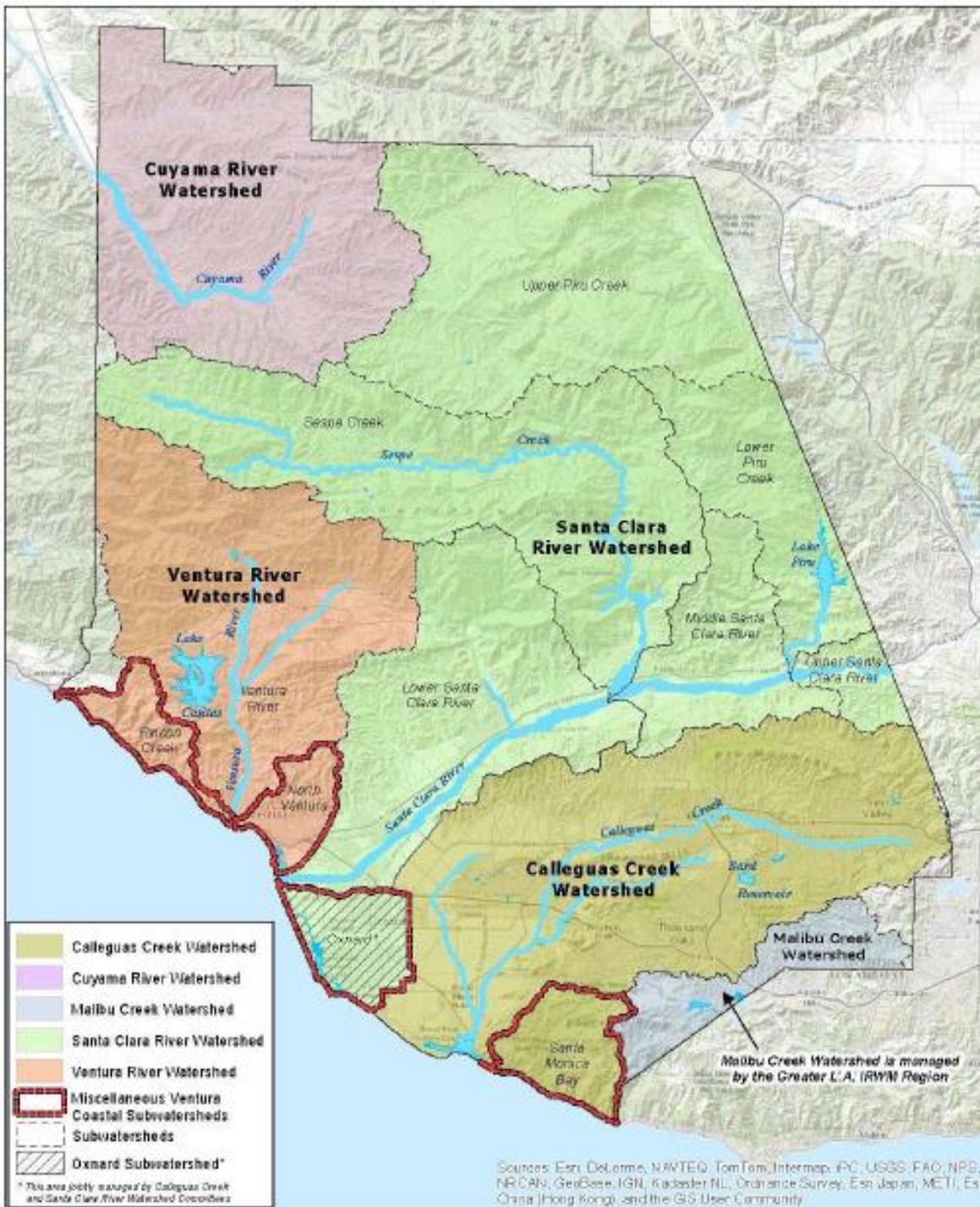
- ▶ Hydrologic Cycle
- ▶ Watersheds
- ▶ Water supply and demand
- ▶ Water wholesalers and retailers
- ▶ Groundwater
- ▶ Future presentations

# Hydrologic Cycle



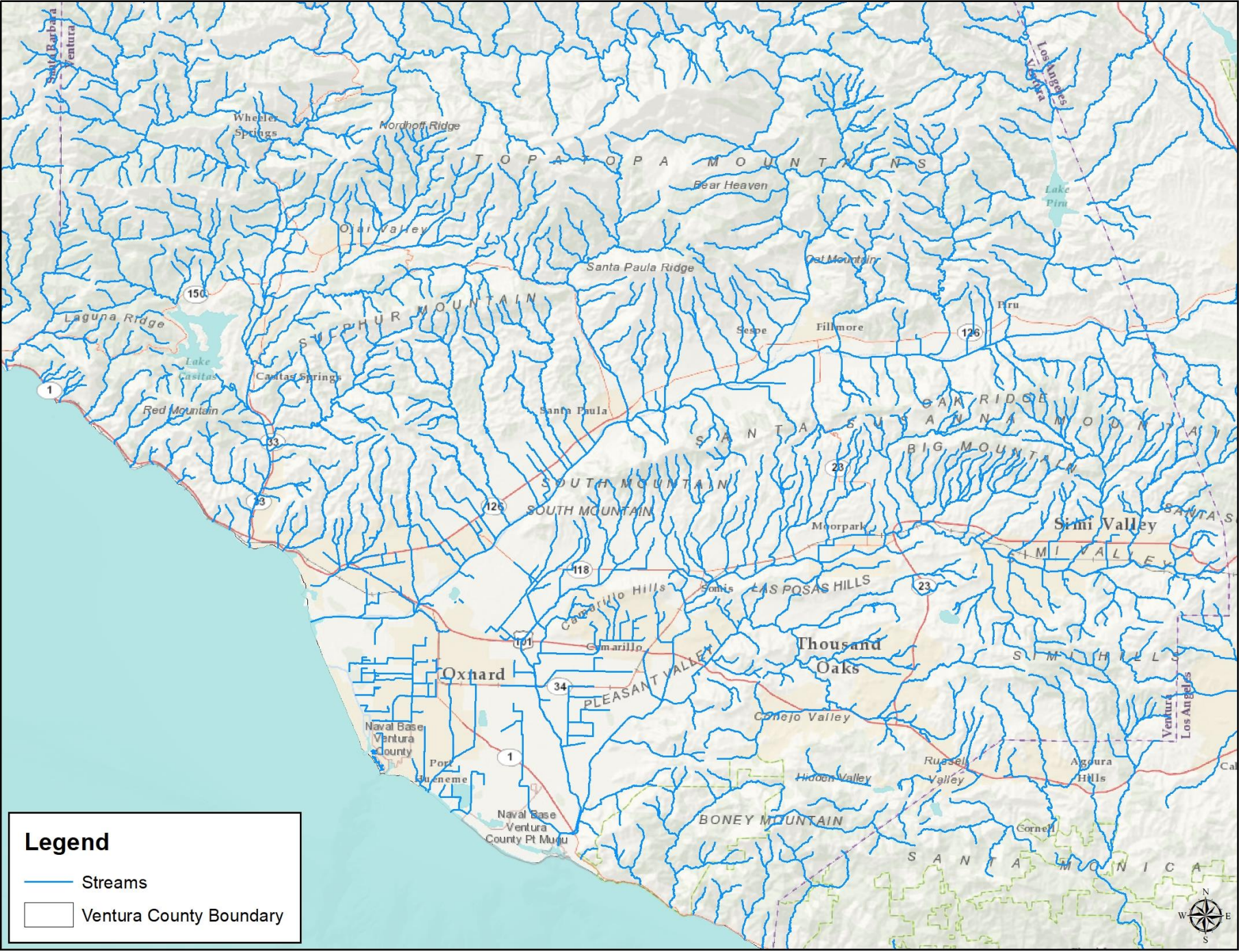
# VC Watersheds

- Major Watersheds
  - Ventura River
  - Santa Clara River
  - Calleguas Creek
- Minor Watersheds
  - Cuyama River
  - Malibu Creek
  - Coastal





# Watershed Streams and Creeks



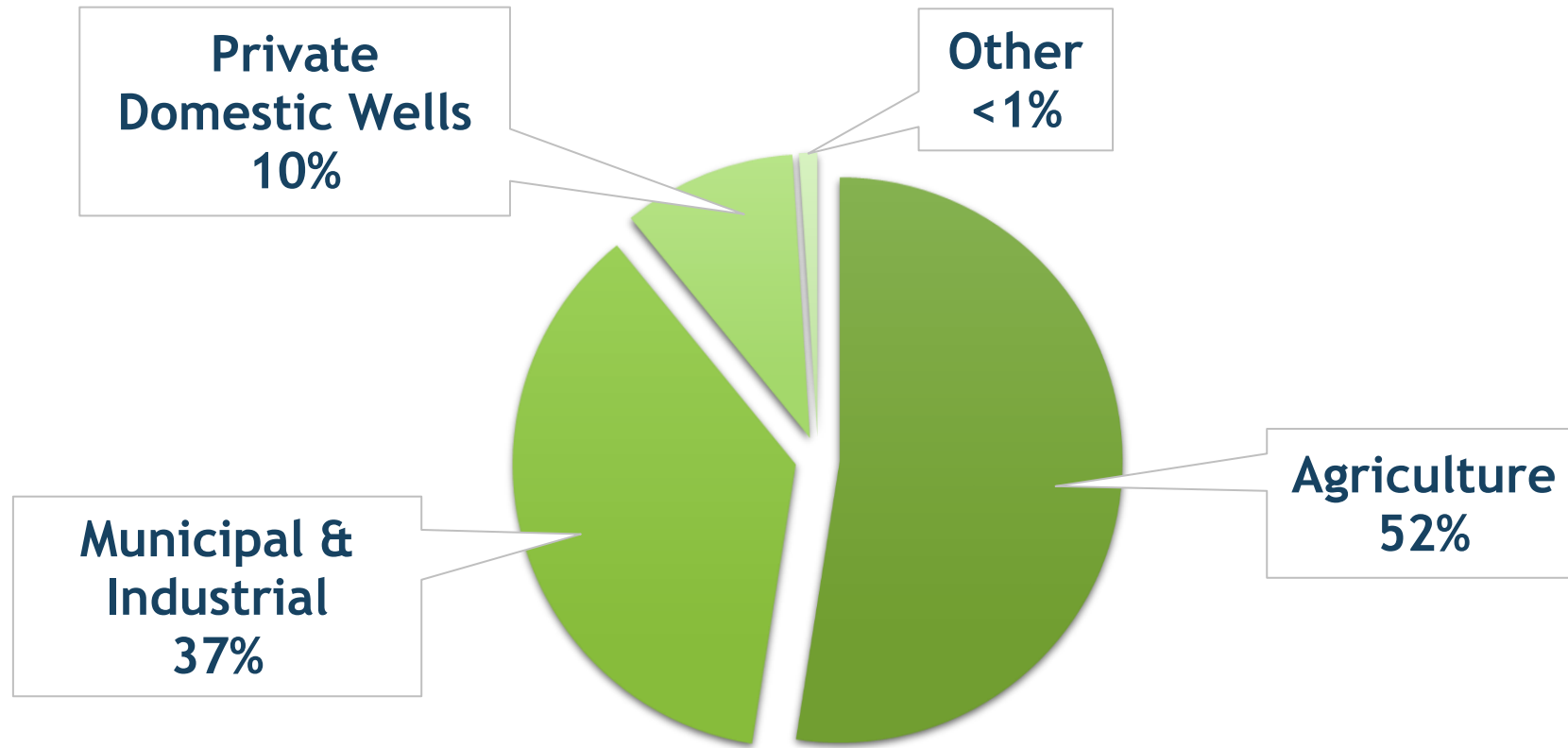


# Watershed Redline Channels



# Water Supply and Demand Study 2020

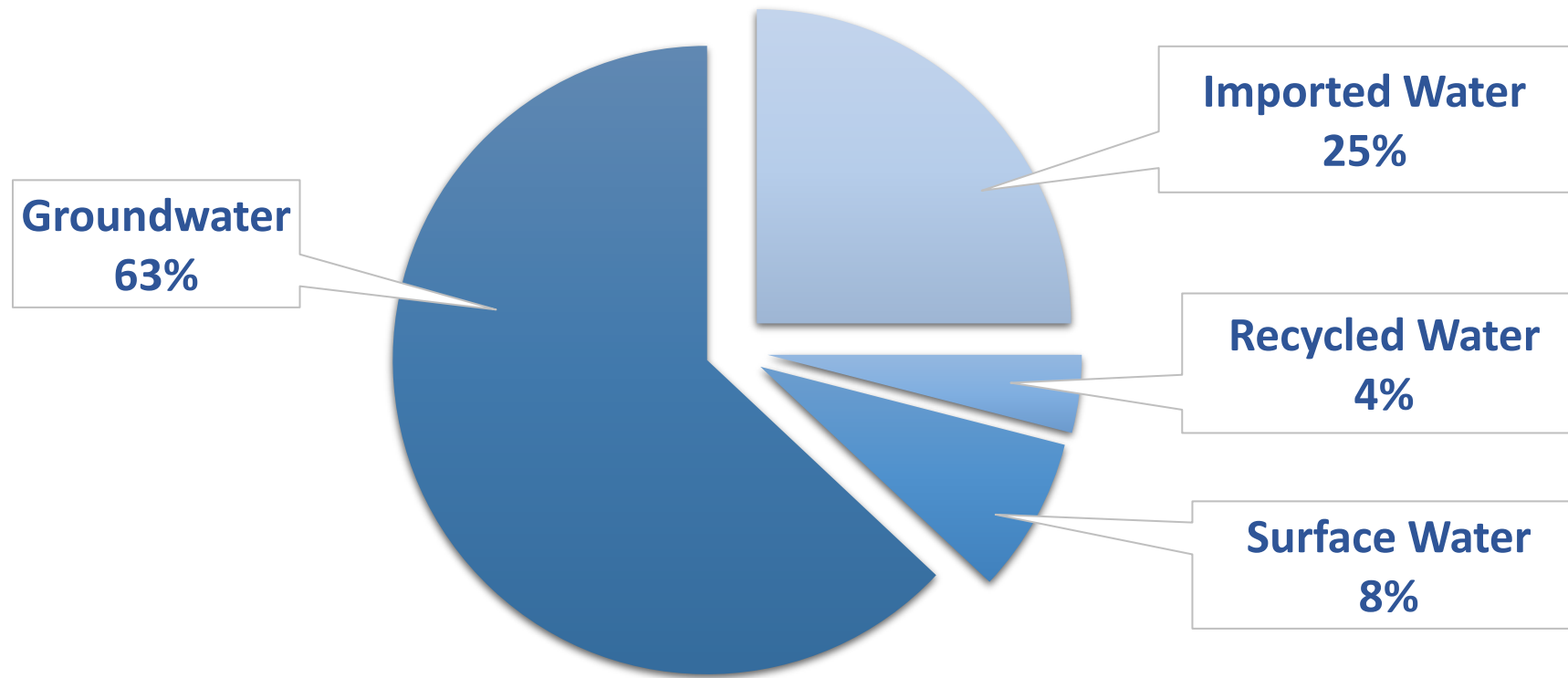
## Countywide Water Demand by Sector





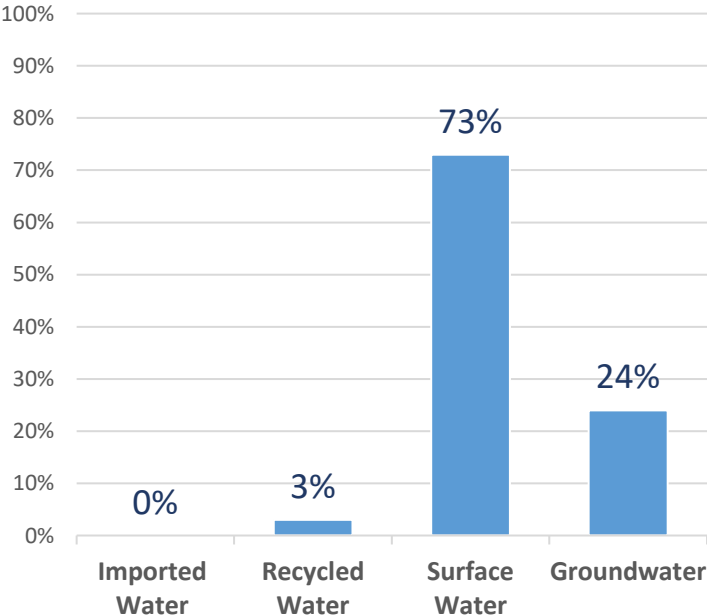
# Water Supply and Demand Study 2020

## Countywide Water Supplies by Source

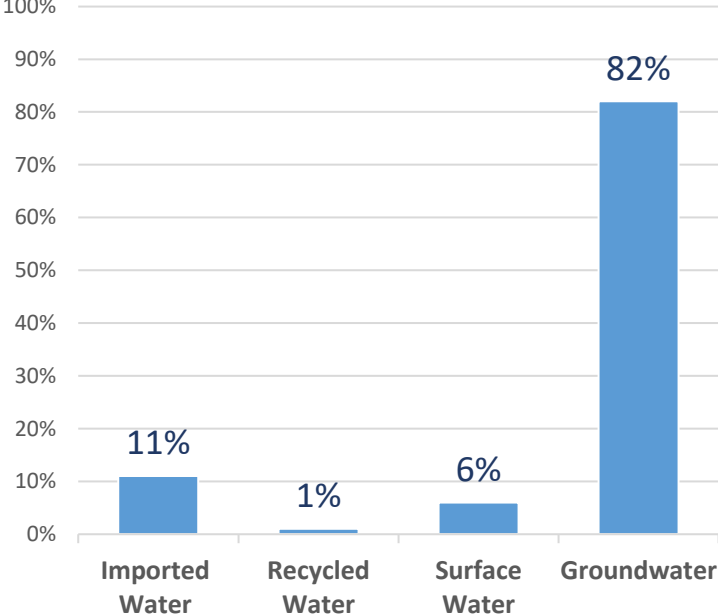


# Water Supply by Watershed

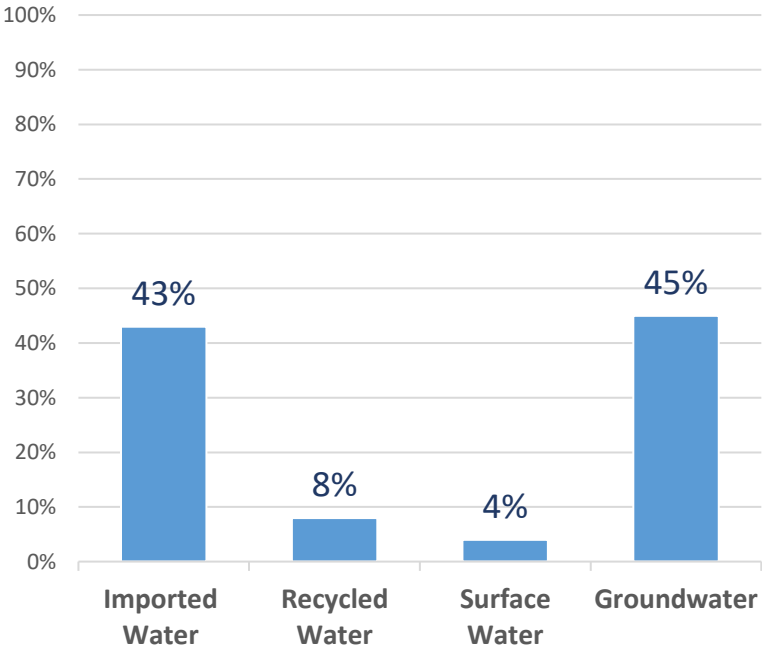
Ventura River Watershed



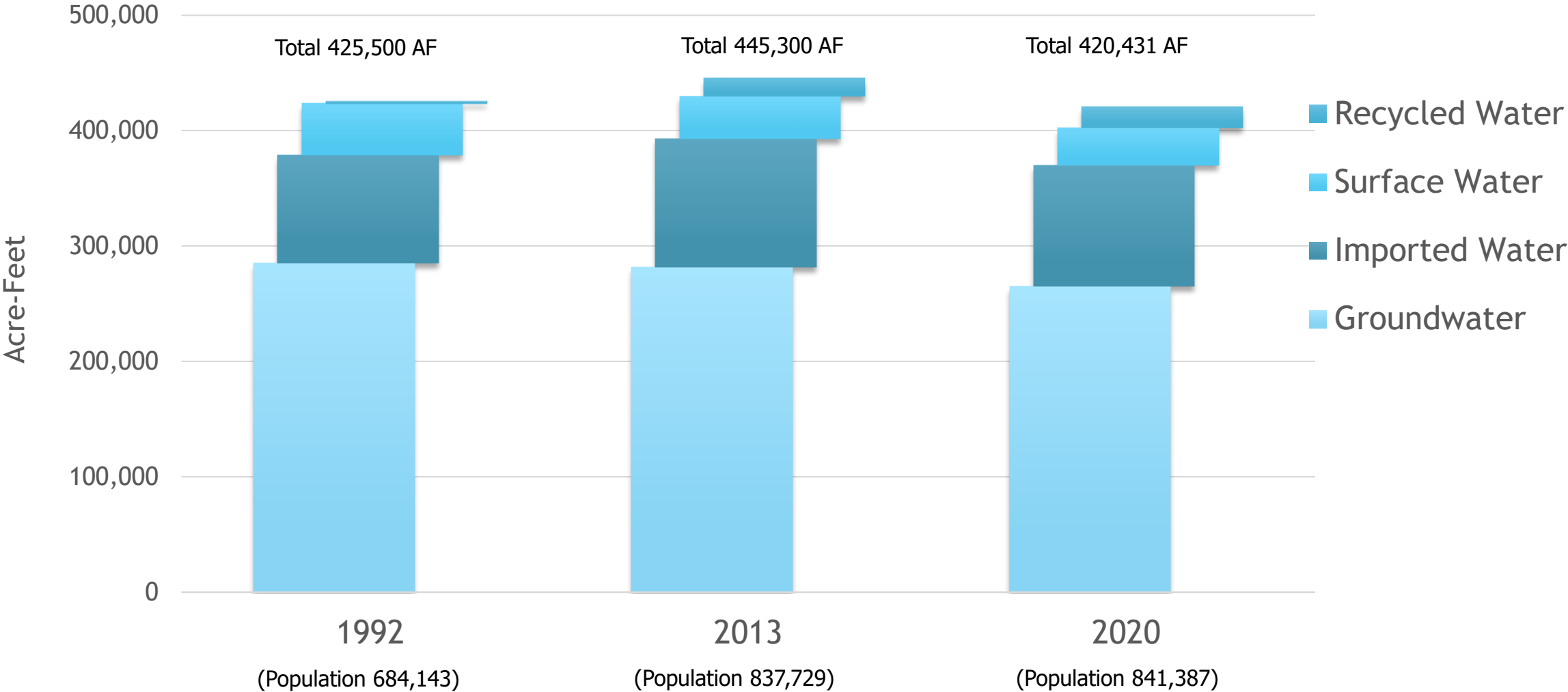
Santa Clara River Watershed



Calleguas Creek Watershed

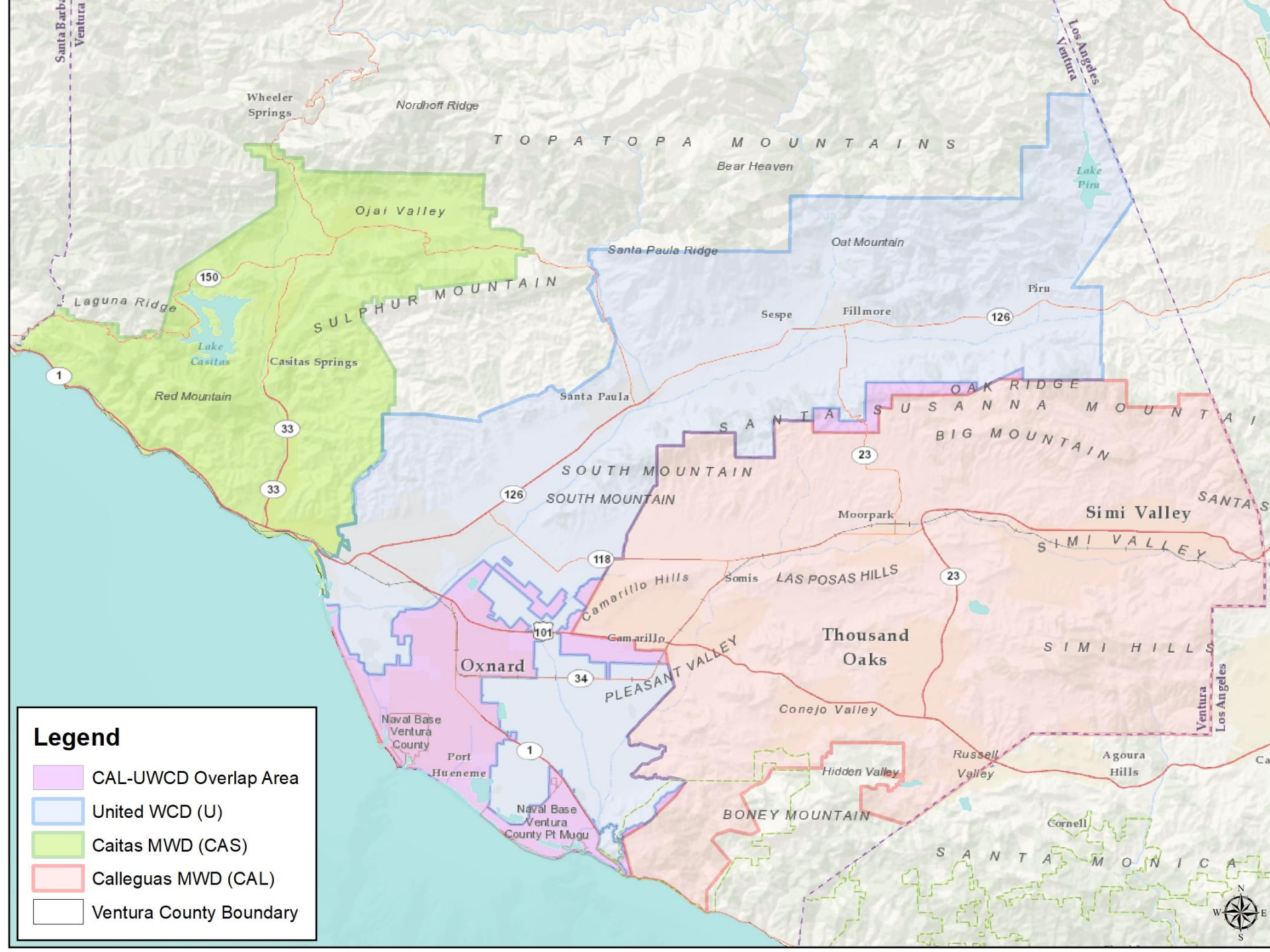


# Countywide Water Sources Over Time



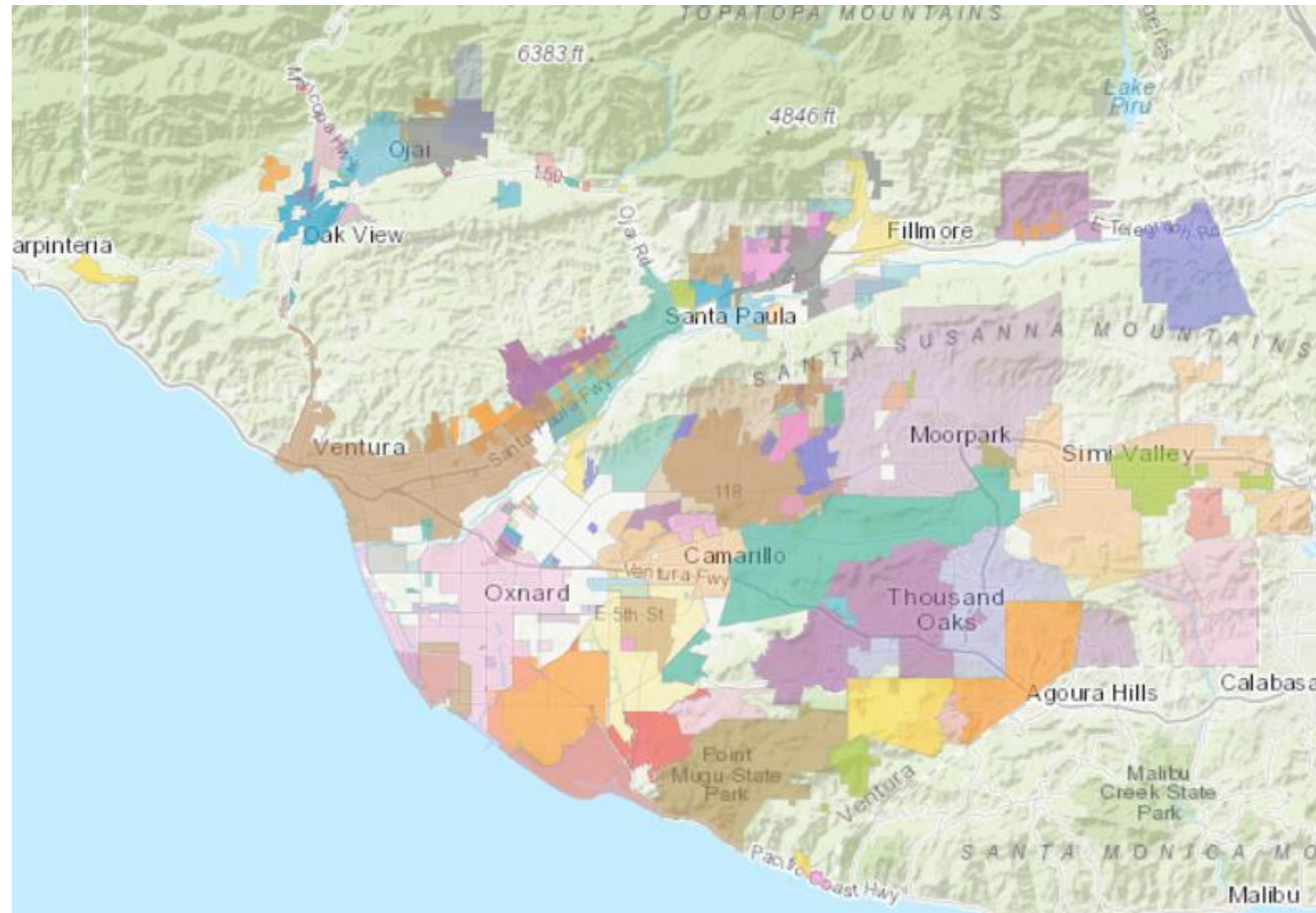
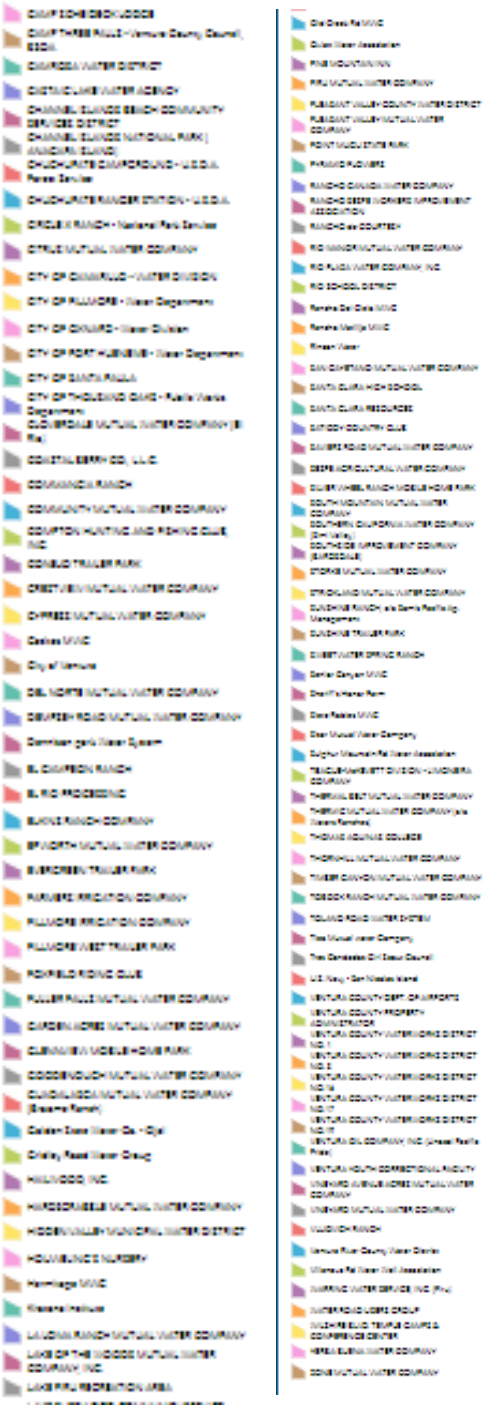


# Water Wholesalers



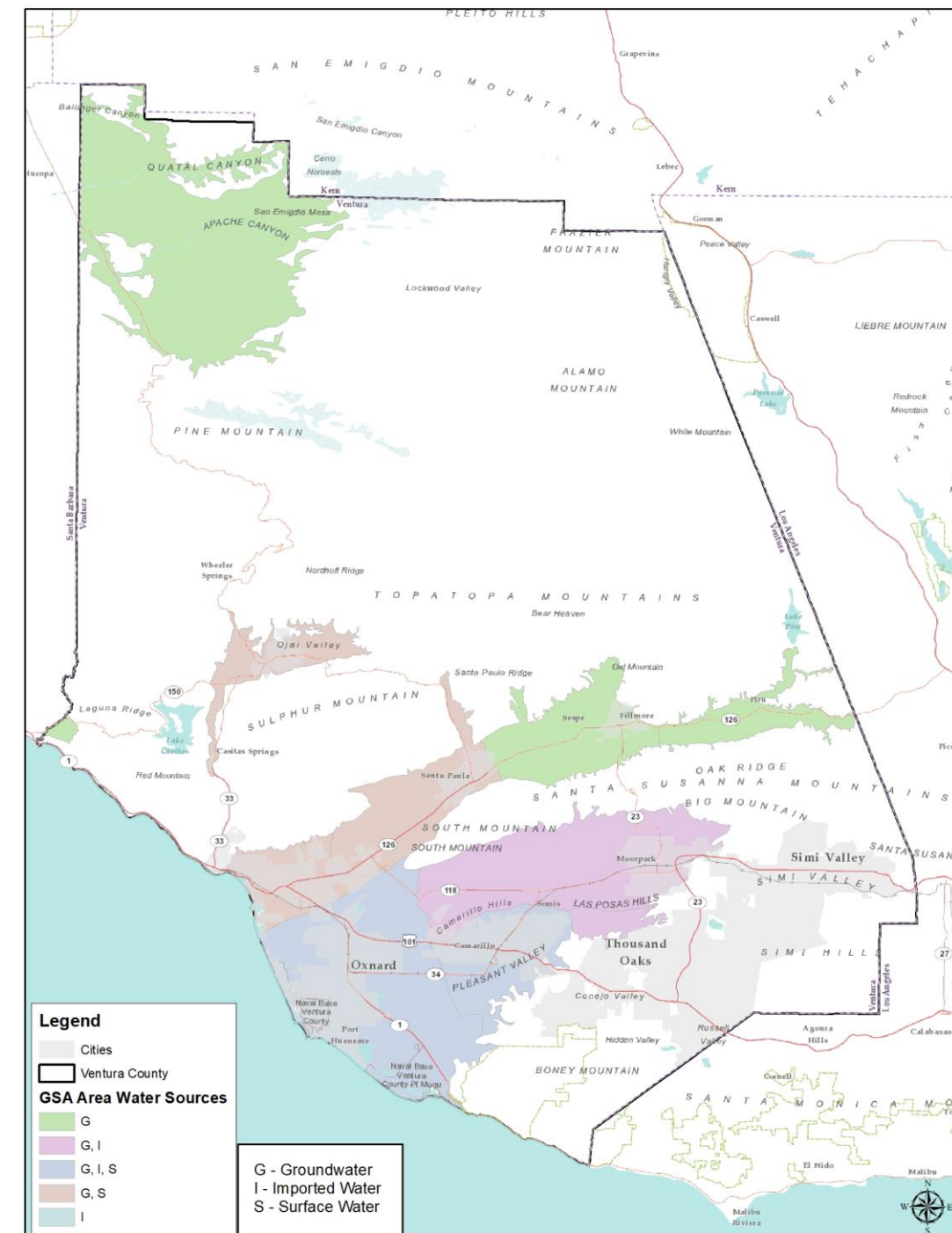


# Water Purveyors



# Groundwater Sustainability Agencies

Groundwater Sustainability Agency	Supervisor District
Cuyama	District 1
Carpinteria	District 1
Upper Ventura River	District 1
Fillmore and Piru	District 3
Mound	Districts 1 and 5
Arroyo Santa Rosa	District 2
Fox Canyon	All Districts

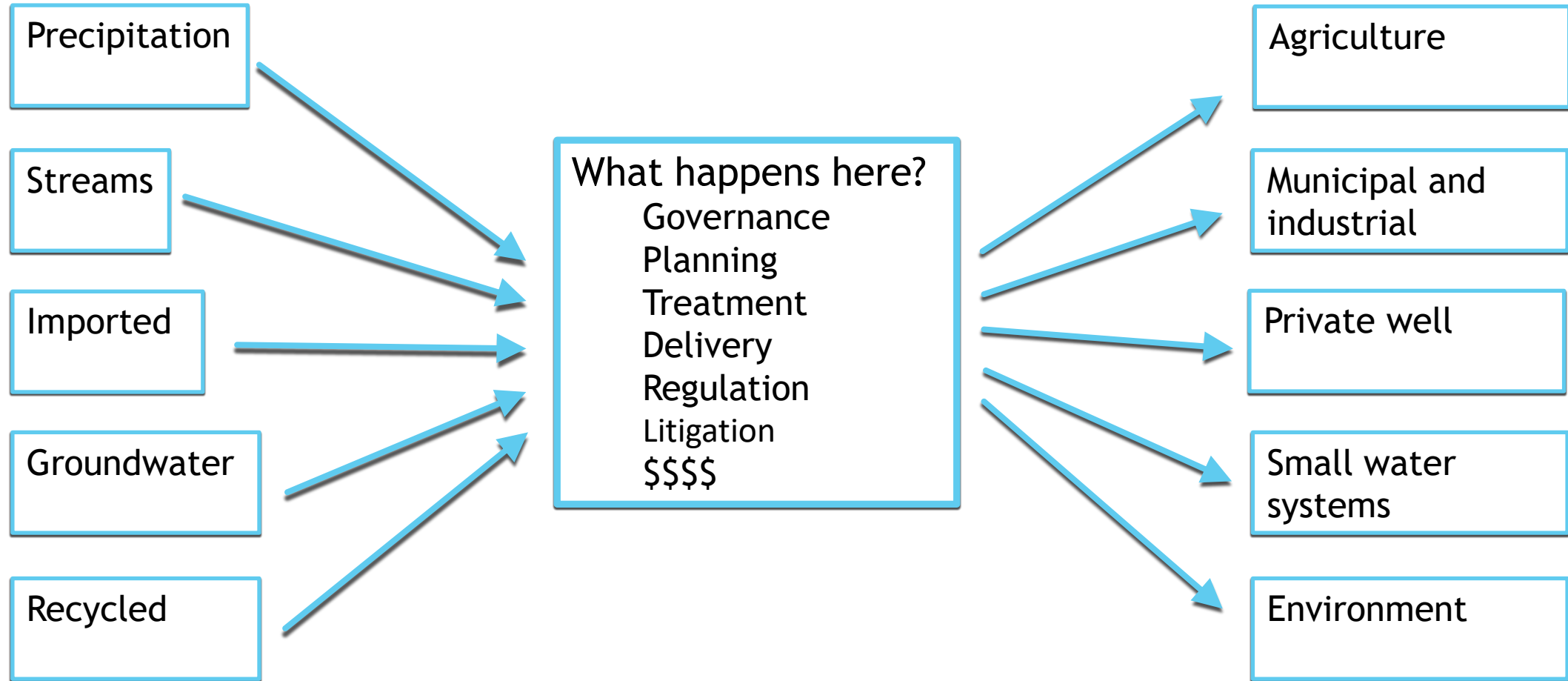




# Supply



# Demand



# Second BOS Presentation – Governance

- ▶ California Constitution - “reasonable and beneficial”
  - ▶ Water rights
  - ▶ Water quality
  - ▶ Drought restrictions
- ▶ VC County Land Use
  - ▶ General Plan,
  - ▶ SOAR
  - ▶ Conditions of development
- ▶ Sustainable Groundwater Management Act
  - ▶ Groundwater Sustainability Agencies

# Third BOS Presentation – Ventura County

## Major Water Issues

- ▶ Economic Vitality
  - ▶ Agriculture
  - ▶ Landuse/SOAR
  - ▶ Oil/gas industry
- ▶ Quality of Life
- ▶ Public Health and Safety
- ▶ Water Quality
- ▶ Disadvantaged Communities



# Fourth BOS Presentation – Stormwater Permit

- ▶ Stormwater Permit Requirements:
  - ▶ Watershed Management Program
  - ▶ Capital Improvement Projects
  - ▶ Monitoring
- ▶ Countywide Coordination and Implementation Agreement
- ▶ Costs and Resources
- ▶ External drivers - Drought
- ▶ Education and Outreach



# Questions

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Ventura County

July 26, 2022