

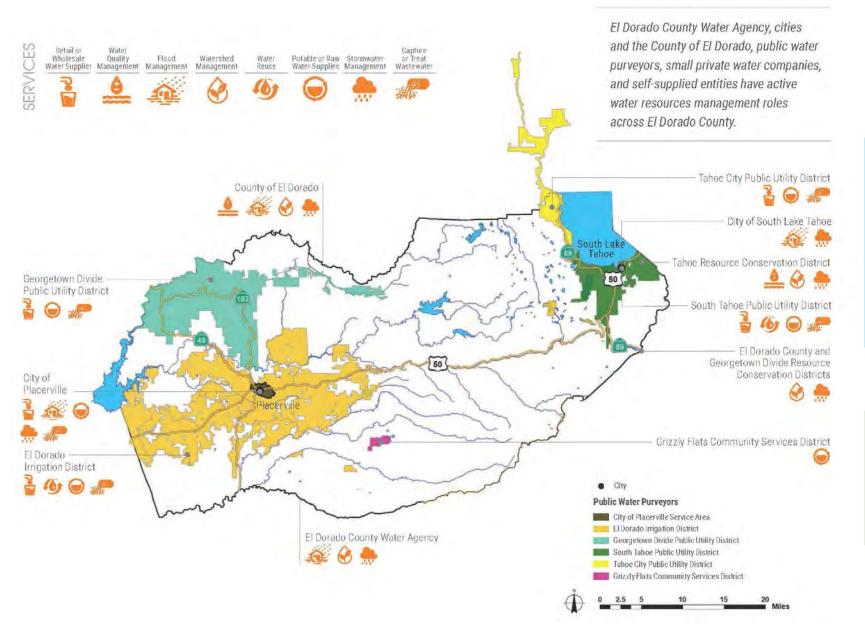
El Dorado County Planning Commission December 8, 2022



El Dorado Water Agency Mission Statement

"Ensuring that El Dorado County has adequate and affordable water to maintain economic prosperity, protect the environment, and support the rural-agriculture way of life for today and in the future."





6 Main Water Purveyors

- 1. El Dorado Irrigation District
- Georgetown Divide PUD
- 3. City of Placerville
- 4. Tahoe City PUD
- 5. South Tahoe PUD
- 6. Grizzly Flats CSD

- Over 140 Small Water Systems
- Resource Conservation Districts



Chapter 96 - 1959 El Dorado County Water Agency Act

The Agency primary assignments include:

- Countywide water plan
- Storage, Conservation, Appropriate Water and Water Rights
- Power Development & Flood Control
- Participate in statewide Water Planning.
- Cooperation with the DWR, the U.S.B.R. and other local, state and federal agencies for water management and facility construction

The Agency is distinguished from Retailers:

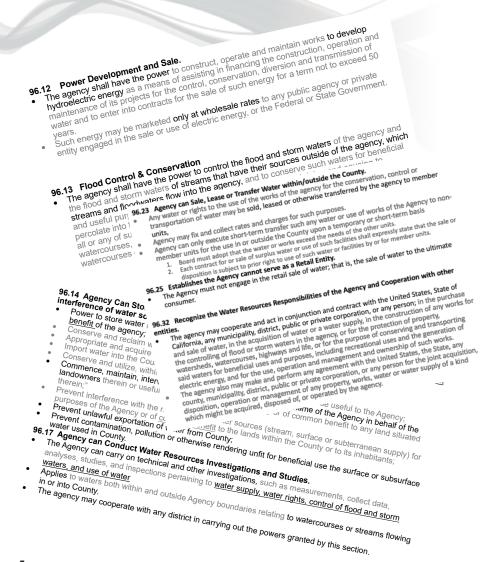
- EDWA is <u>not</u> a Retail Water Agency
 - Primary Role is Water Resources
 Management
- Countywide perspective for best interest of County to <u>economically consider and</u> <u>manage resources</u>

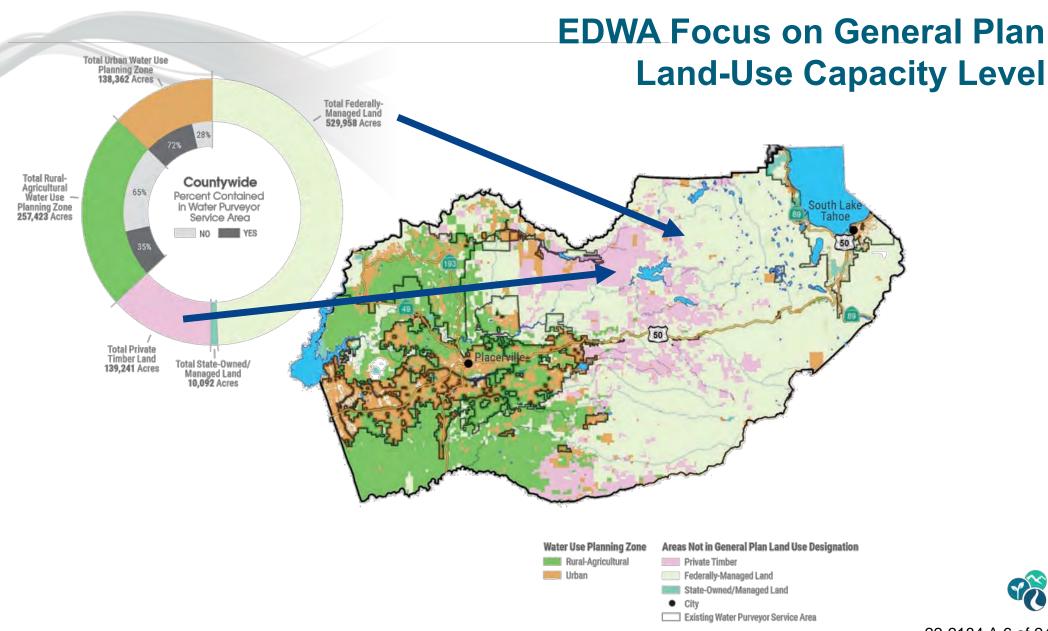


1959 Water Act Outlined Roles & Responsibilities

Authorization

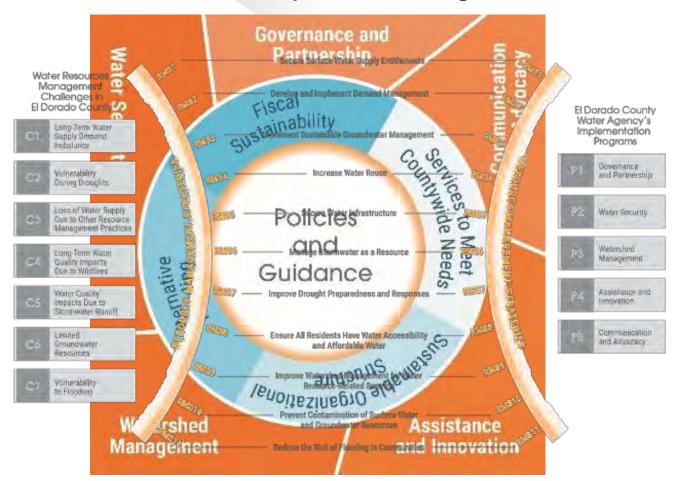
- 96-11. Acquire sufficient water for beneficial use of properties within the Agency
- 96-12. Generate and sell hydroelectric power
- **96-13. Flood and storm** water inside and outside of Agency
- **96-14. Water run-off** into creeks and streams & use of **reclaimed water**
- 96-14. Prevent contamination & pollution creeks and streams
- **96-17.** Conduct water resources investigations & studies





EDWA Priorities

Water Resources Development and Management Plan



WRDMP Advisory Groups

Plan Advisory Group



- Plan content and recommendations
- General Plan consistency and capacity level focus
- Countywide focus (Tahoe Basin and West Slope)
- Participation by water purveyors and County

Agricultural Advisory Group



- Opportunity and water use for agricultural economics
- Following the County General Plan policies and practices
- Participation by growers, County, and subject matter experts

M&I Advisory Group



- Opportunity and water use for community and business development
- Following County General Plan policies and practices
- Participation by water purveyors and County





Plan Advisory Group Members



Brian Mueller – El Dorado Irrigation District
Charlene Carveth (LeeAnne Mila: Alternate) – County of El Dorado
Lodi Louther – Crizzly Eleta Community Carvinga District

Jodi Lauther – Grizzly Flats Community Services District

Kenneth Payne – El Dorado County Water Agency

Sean Barclay - Tahoe City Public Utility District

Shannon Cotulla (John Thiel: Alternate) — South Tahoe Public Utility District Steve Palmer (Adam Brown: Alternate) — Georgetown Divide Public Utility District Tiffany Schmid (Anne Novotny, Brenden Ferry: Alternates) — County of El Dorado

Agricultural Advisory Group Members

Brian Mueller - El Dorado Irrigation District

Charlene Carveth (LeeAnne Mila: Alternate) – County of El Dorado

Christa Campbell (Tom Heflin: Alternate) – Rainbow Orchards, El Dorado County Chamber of Commerce



Dave Pratt - El Dorado County Farm Bureau

Dedrian Kobervig – El Dorado Agricultural Water Quality Management Corporation

Doug Leisz – Citizens for Water; El Dorado County Chamber of Commerce

Greg Boeger – Boeger Winery, El Dorado Wine Grape Growers Association

Kenneth Payne - El Dorado County Water Agency

Lloyd Walker - Walker Vineyard, El Dorado Wine Grape Growers Association

Lynn Wunderlich - University of California Cooperative Extension

Merv de Haas – El Dorado County Farm Bureau

Municipal and Industrial Advisory Group Members



Brian Mueller – El Dorado Irrigation District Jodi Lauther – Grizzly Flats Community Services District

Kenneth Payne - El Dorado County Water Agency

Sean Barclay (Matt Homolka: Alternate) - Tahoe City Public Utility District

Shannon Cotulla - South Tahoe Public Utility District

Steve Palmer (Adam Brown: Alternate) – Georgetown Divide Public Utility District Tiffany Schmid (Anne Novotny, Brendan Ferry: Alternates) – County of El Dorado

EDCWA Board of Directors

Brian Veerkamp Shiva Frentzen Lori Parlin Kelly Sheehan/Jim Jones George Osborne/Lori Anzini County Board of Supervisors County Board of Supervisors County Board of Supervisors Tahoe Basin Purveyor West Slope Purveyor

Topic-Specific Consultations

Cynthia Freeland – County of El Dorado
Frederic Schaefer – El Dorado County Water Agency
Greg Stanton – County of El Dorado
Jeffrey Warren – County of El Dorado
Jose Crummett – County of El Dorado
Kathryn Jeanfreau – County of El Dorado
Olivia Byron-Cooper – County of El Dorado

Plan Development Team

Patty Moley-Dunn - County of El Dorado

Kenneth Payne – El Dorado County Water Agency Maritza Flores Marquez – Stantec Rebecca Guo – Stantec Vanessa Nishikawa – Stantec Yung-Hsin Sun – Stantec

Technical Support

Brandon Ertis – Davids Engineering
Duncan MacEwan – ERA Economics
Grant Davids – Davids Engineering
Harriett Ross – ESA
Kimberly Clyma – Stantec
Kristen Hunter – EN2
Leslie Moulton-Post – ESA
Raymond Hoang – Stantec
Rick Lind – EN2
Robert Eckard – ESA
Sachi Itagaki – Kennedy Jenks
Samuel Price – Stantec

Tracey Eden-Bishop - EN2



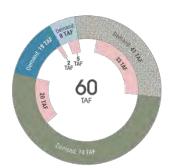
WRDMP Summary

Identified Water Resource-Related Challenges

		Water-Resource I	Related Challenges i	n the West Slope		
Water Supply			Water Quality			Public Safety
C1 Long-Term Water Supply-Demand Imbalance (3.1)	C2 Vulnerability During Droughts (3.2)	C3 Loss of Water Supply Due to Other Resource Management Practices (3.3, 3.4, 3.5)	C4 Long-Term Water Quality Impacts Due to Wildfires (3.3)	C5 Water Quality Impacts Due to Stormwater Runoff (3.5)	C6 Limited Groundwater Resources (3.6)	C7 Vulnerability to Flooding (3.7)

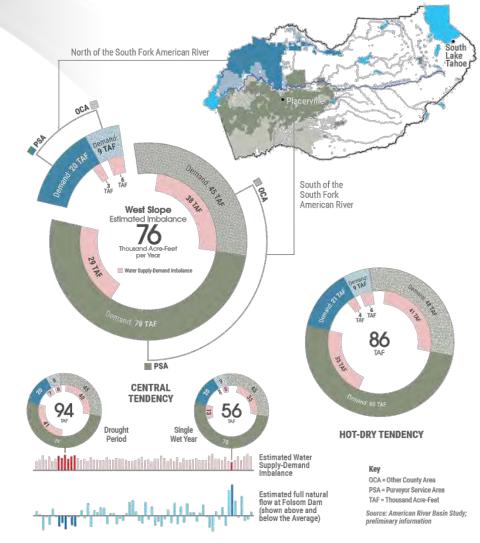
		Water-Resource R	Related Challenges in	n the Tahoe Basin		
Water Supply			Water Quality			Public Safety
C1 Long-Term Water Supply-Demand Imbalance (3.1)	C2 Vulnerability During Droughts (3.2)	C3 Loss of Water Supply Due to Other Resource Management Practices (3.3, 3.4, 3.5)	C4 Long-Term Water Quality Impacts Due to Wildfires (3.3)	C5 Water Quality Impacts Due to Stormwater Runoff (3.5)	C6 Limited Groundwater Resources (3.6)	C7 Vulnerability to Flooding (3.7)

Evolving Changes - Water Supply- Demand Imbalance (West Slope)



WARM-WET TENDENCY

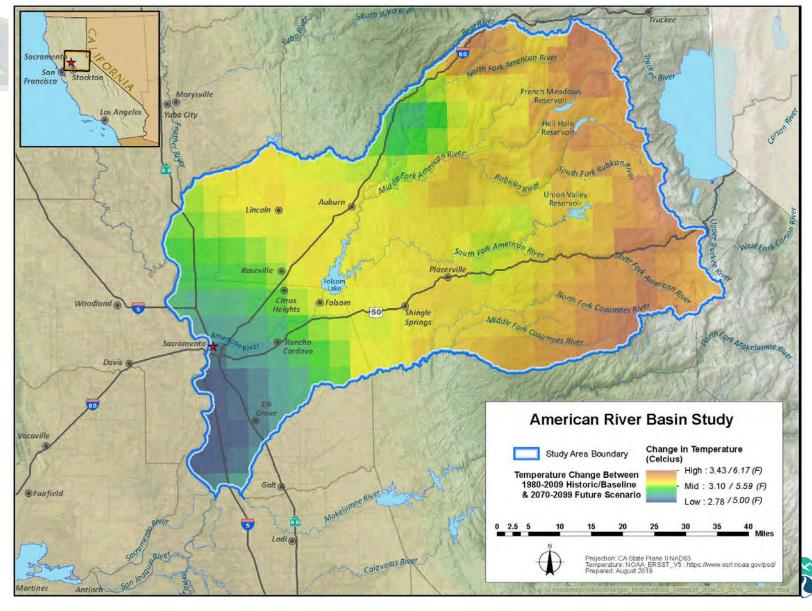
The preliminary results from applying the demand projection and climate hydrology in 2070 suggest a significant water supply-demand imbalance, especially during drought conditions, based on existing facilities and operations. Additional adaptation strategies are required for sustaining the socioeconomic conditions and way of life in the West Slope.



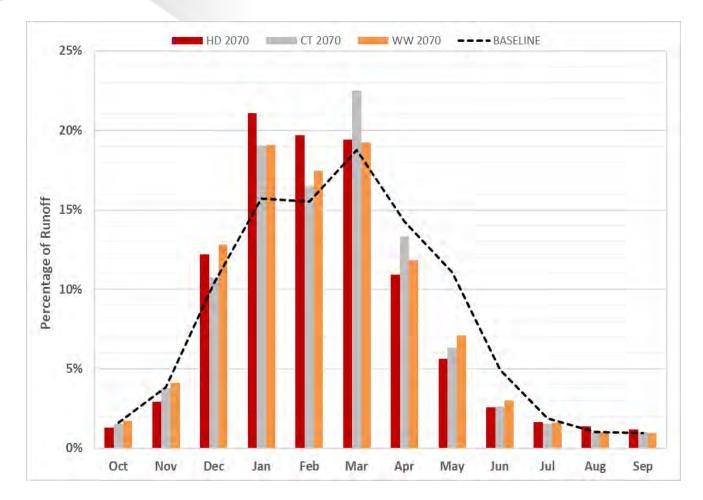


ARBS Results: Future Changes in Temperature

5 to 6 °F increase in temperature by end of the century (central tendency scenario).



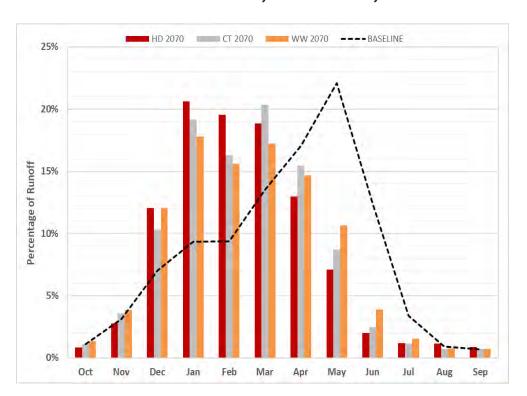
Monthly Distribution of Total Runoff in the Study Area for Elevations Less than 3,000 Feet Under 2070 Climate Scenarios (Hot-Dry, Central Tendency, Warm-Wet) Compared to Baseline Historic Conditions



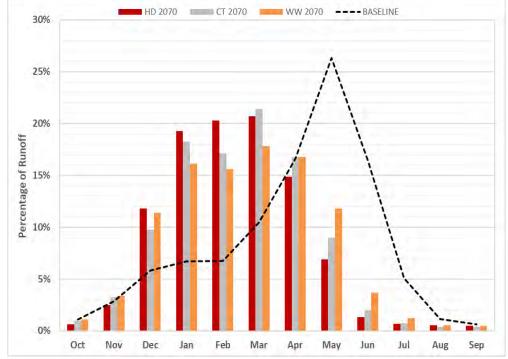


Monthly Distribution of Total Runoff (Hot-Dry, Central Tendency, Warm-Wet) Compared to Baseline Historic Conditions for 2070 Scenario

Elevations Between 3,000 and 5,000 Feet

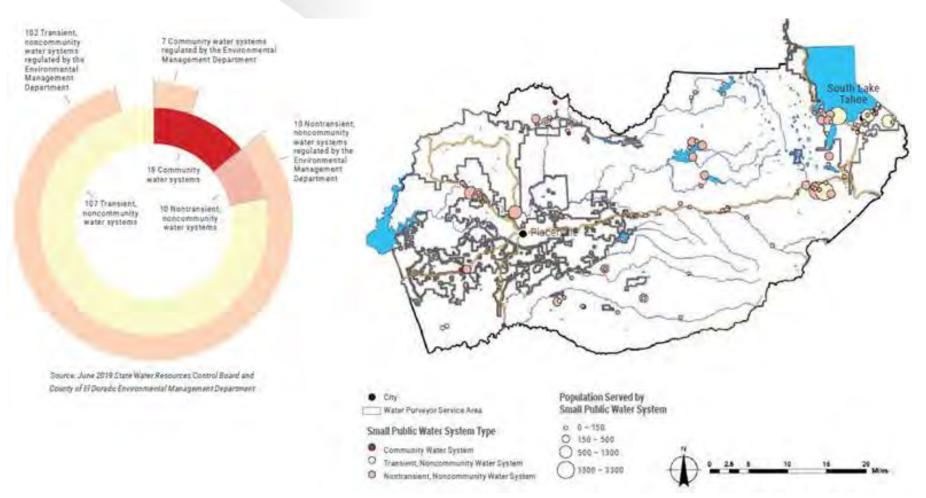


Elevations Greater than 5,000 Feet

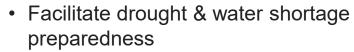




Small Water Systems



SB552 Requirements



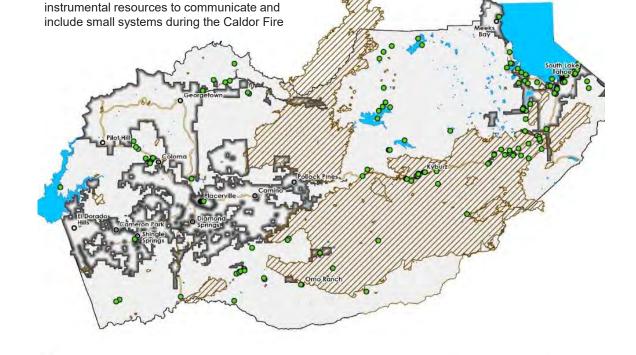
- · State small water systems
- Domestic wells within the county's jurisdiction

Establish a standing task force

- Alternative process to facilitate drought and water shortage preparedness
- Deemed in compliance with these requirements as long as the task force continues to exist.

Plan for drought and water shortage risk & proposed interim and long-term solutions

- Build on Findings of 2019 WRDMP (Tahoe)
- Build on RDCP (West Slope)
- Build on Advisory Group & Plenary from WRDMP
- Build on GIS Portal investment

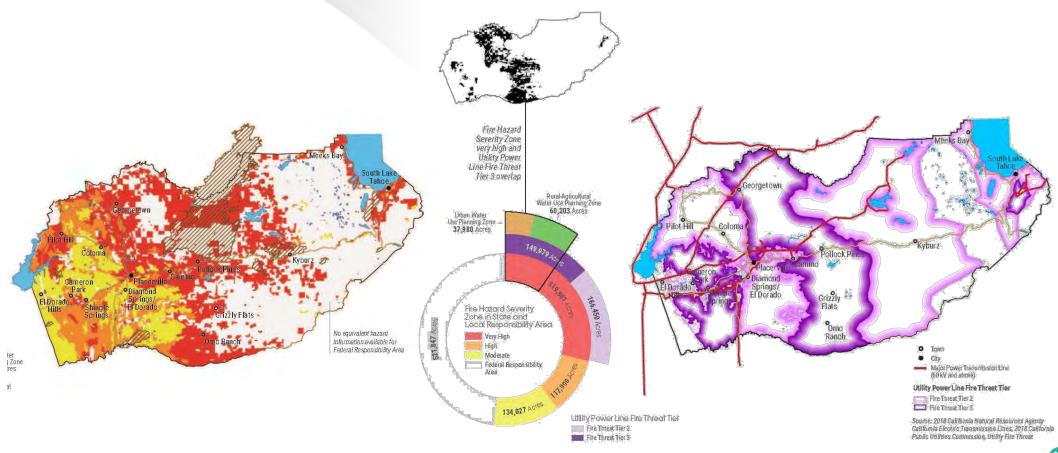


County/EDWA Small System database was



Water Purveyor Service Area

Concise Display of Countywide Conditions – Wildfire Example



The Problems of Today are not New

"In planning the use of land, therefore, it is necessary to keep in mind the different points of view represented by:

- the landowners,
- the resident farmers,
- the local business and industrial organizations,
- the holders of bonds and mortgages secured by local properties,
- the taxpayers of the county and state,
- the users of water having its source in El Dorado County, and
- the motoring, fishing, hunting and recreation-seeking public."

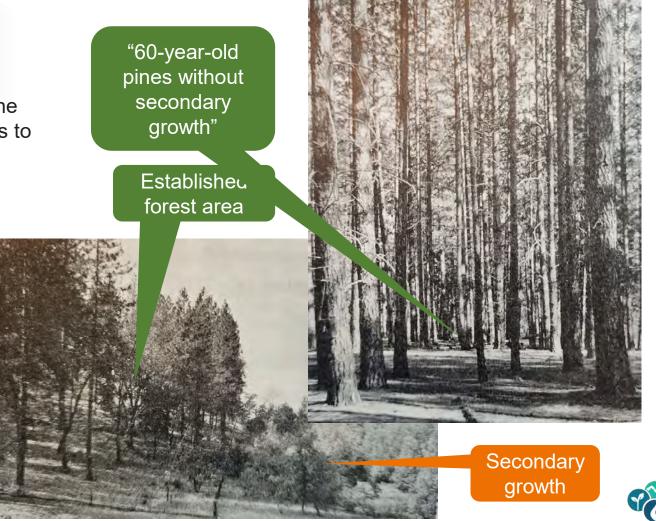
"... If it can be denied that the lovers of beauty have a real vested interest in the esthetic values of the forested hillsides, estimates of material economic values of future lumber supplies are sufficiently great to convince the more sober-minded citizen that there is a public interest in the maintenance and protection of the forest."



The Problems of Today are not New

" ... in California, of land utilization and of the complex problems arising out of its relations to the economic and social structure."

- Need to work with National Forest to address brush growth
- Secondary growth will continue to threaten forest lands
- Reconcile the conflicting interests
 - Preserve forest lands
 - Recreation
 - Agriculture
 - Communities
- Financial support from government institutions
- "Hasten the restoration of the land ..."

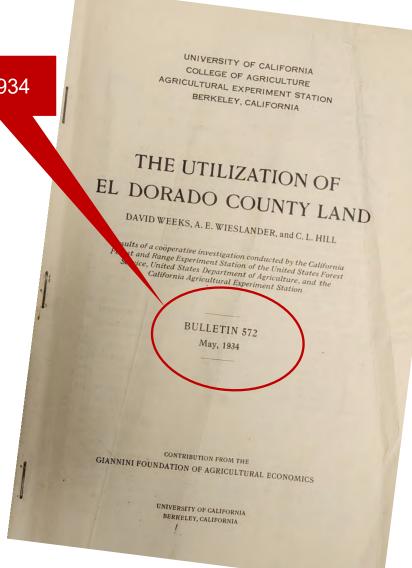


May 1934

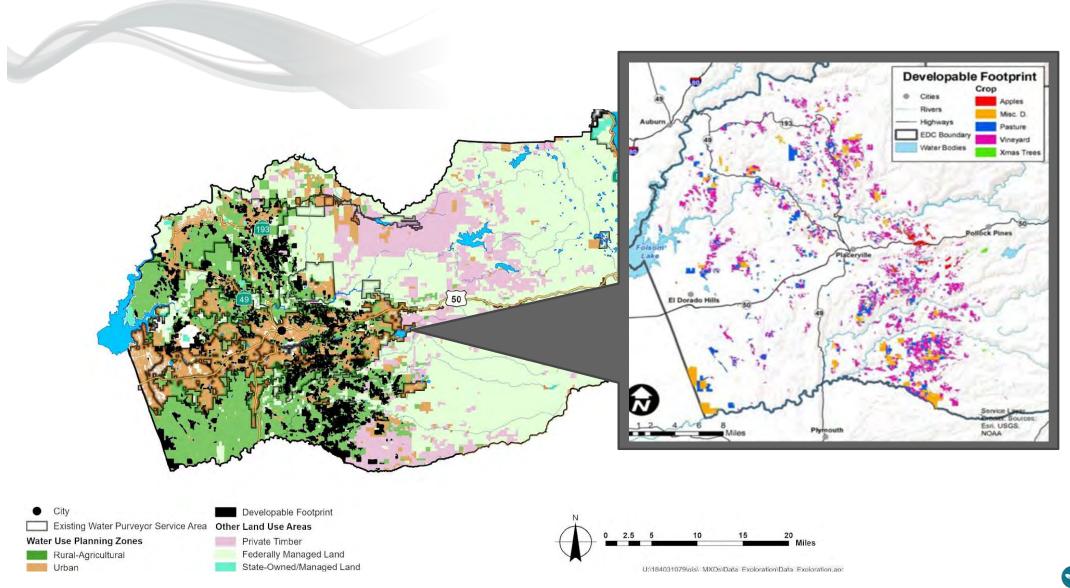
Bulletin 572: The Utilization of El Dorado County Land

"Results of a cooperative investigation conducted by the California Forest and Range Experiment Station of the United States Forest Service, United States Department of Agriculture, and the California Agricultural Experiment Station

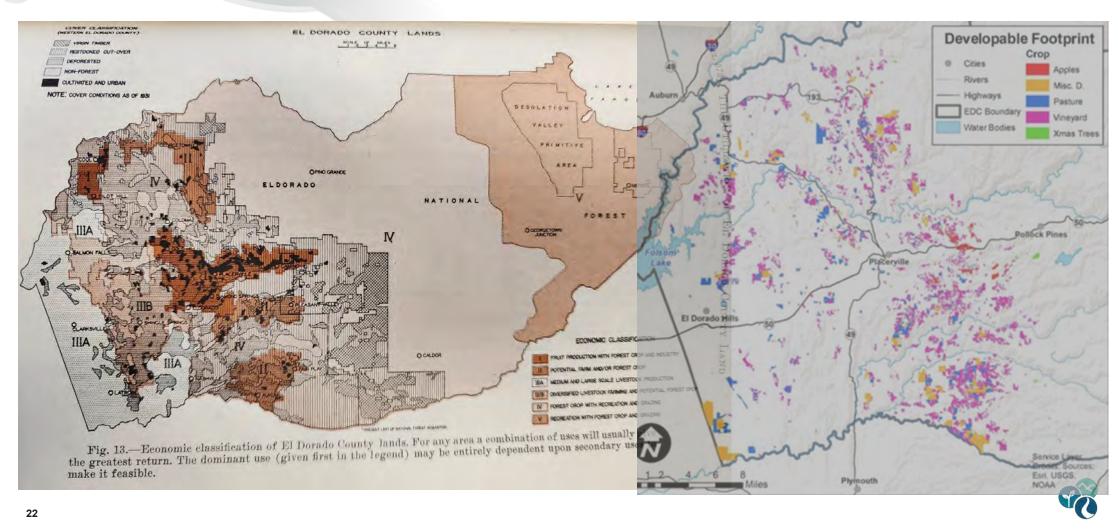
University of California Berkley, California College of Agriculture, Agricultural Experiment Station

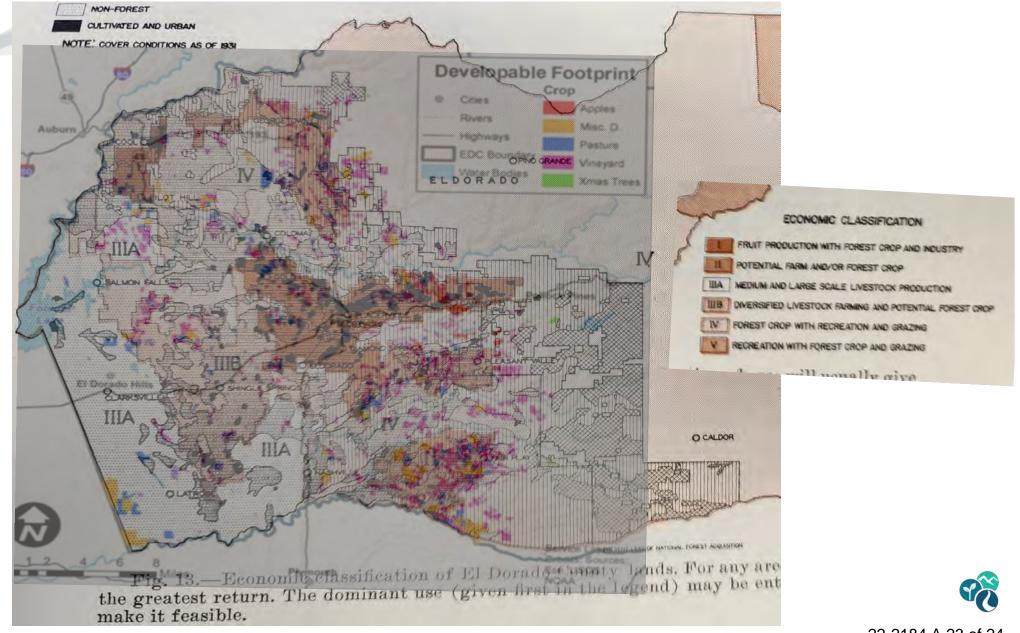


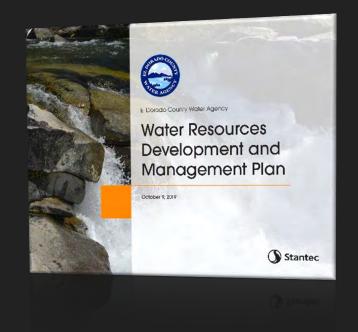












More Information:

https://edcgov.us/Water

Contact: Kenneth V. Payne, P.E. @ ken.payne@edcgov.us

