

Solano Subbasin Snapshot

This Solano Subbasin snapshot has been developed to characterize groundwater user communities and identify potential socioeconomic vulnerability indicators. Vulnerability indicators and more information about wells and public water systems within the Solano Subbasin can also be explored at groundwaterguide.com/map. Through discussions with community stakeholders, the Snapshot also captures recommended community outreach channels, distribution networks, and outreach barriers for engagement in groundwater sustainability planning.

The Solano Subbasin Community

- **Population:** ~120,000 people with an estimated 25% population growth by 2030¹. There are an estimated 25,993 households and 74 estimated Tribal households within the Subbasin².
- **Drinking Water Supply:** Approximately 50,000 residents depend on groundwater for their drinking water.
- **Median Household Income (MHI):** MHI ranges from \$38,420 to \$129,132, based on census tract.³ An estimated 30% of the subbasin population is within Disadvantaged (80% of statewide MHI) and Severely Disadvantaged (60% of statewide MHI) communities definition.
- **Healthcare Access:** Communities (defined by census tracts) across the subbasin range from having 2% to 25% of the adult population within the community without access to health insurance⁴.
- **Affordability:** Communities (defined by census tracts) across the subbasin range from having 29% to 59% of homeowners and renters spending greater than 30% of their household income on housing⁵ within the community.
- **Linguistic Isolation:** Linguistic isolation, which is defined as any household in which all members aged 14 years and older speak a non-English language at home and speak English less than “very well”, ranges from 2 to 15% throughout communities within the subbasin.⁶

Water Supply at a Glance

<p>Groundwater is an important part of the Solano Subbasin’s water supply. It provides drinking water, irrigation water, water for commercial uses, and supports critical ecosystems. The Solano Subbasin has a total of ~4,086 wells, an estimated 130 public supply wells for drinking water⁷, and an estimated 1,400 domestic wells.⁸ ~ 50,000 residents in the subbasin use groundwater as their drinking water source.⁹ Groundwater is the primary source of drinking water for Dixon and Rio Vista and it provides a portion of the City of Vacaville’s water supply as well. Groundwater provides ~24% of the total irrigation supply in the Solano Subbasin, for an estimated ~170,000 irrigated acres of farmland use.¹⁰</p>	<p>Groundwater Sustainability Agencies (GSA)</p> <ol style="list-style-type: none"> 1. Solano Subbasin GSA 2. Solano Irrigation District GSA 3. City of Vacaville GSA 4. Northern Delta GSA 5. Sacramento County GSA
---	--

¹ [SGMA Basin Prioritization Process, Department of Water Resources, 2019](#)

² American Community Survey, 2012-2016

³ American Community Survey, 2014-2018. Communities assessed at the tract, block group, and place levels.

⁴ [California Healthy Places Index, Public Health Alliance of Southern California, 2014](#)

⁵ American Community Survey, 2010-2014

⁶ American Community Survey, 2012-2016

⁷ [SGMA Basin Prioritization Process, Department of Water Resources, 2019](#)

⁸ [Drought and Water Shortage Risk Explorer for Self-Supplied Communities, Department of Water Resources, 2020](#)

⁹ [SGMA Basin Prioritization Process, Department of Water Resources, 2019](#)

¹⁰ [SGMA Basin Prioritization Process, Department of Water Resources, 2019](#)

Public Water Systems: There are **55** public water systems that use groundwater to provide drinking water to the public. These water systems range from municipal water supplies— like the City of Rio Vista and Dixon that provide over **2,000** water service connections, to schools, mobile home parks, churches, businesses and marinas that provide drinking water to community members¹¹.

Cities and Communities

- California Water Service Co.- Dixon
- CALAM - Isleton
- CALAM - Walnut Grove
- City of Dixon
- City of Rio Vista
- City of Vacaville
- East Walnut Grove
- Rural North Vacaville
- SIDG - Gibson Canyon
- SID - Elmira

Marinas and Resorts

- B&W Resort
- Happy Harbor
- Korth's Pirates Lair
- Rancho Marina
- River's Edge Marina
- Snug Harbor Resort
- Spindrift Marina
- Vieira's Resort
- Willow Berm Marina

Mobile Home Parks and RV Parks

- Edgewater Mobile Home Park
- Midway RV Park
- Tunnel Trailer Park
- Vineyard RV Park

Churches

- Faith Baptist Church
- Vacaville Seventh Day Adventist Church
- Valley Evangelical Free Church

Schools

- Jean Harvie School

Recreation

- Hastings Island Hunting Preserve
- Lake Solano Park

Businesses/Organizations

- Campbell Ranch
- Campbell Soup Supply Co. - Dixon Canning
- Delta Conservation Camp
- Dixon 76
- Dixon Fruit Market
- Dixon Migrant Center
- Double G Dairy
- EB Stone
- Gill Sidhu Chevron
- Gorgri State Small Water System
- Harris Moran Seed Company
- Hines Nurseries Winters South
- Mariani Packing Company
- Midway Foods
- Moose Lodge 1967
- Naval Communication Radio Station
- Neil's Service Center
- Northbay Logistics Center FKA Save Mart
- Pedrick Produce
- Punjabi Dhaba
- Self-Serve Petroleum
- Superior Packing Co.
- Stocking Ranch Deepwell
- Vaca-Dixon Substation

¹¹ California Environmental Health Tracking Program’s Drinking Water System Geographic Reporting Tool and County of Sacramento Environmental Health Division

Outreach and Local Community Channels

Active organizations & potential distribution networks recommended by stakeholders

Active community organizations and local governments within the Solano Subbasin that have been recommended by community stakeholders to help share information about groundwater and the SGMA process.

Local Government

- City of Dixon
- City of Isleton
- City of Rio Vista
- City of Vacaville
- City of Walnut Grove
- Dixon Resource Conservation District
- Solano Resource Conservation District
- Vacaville Community Service Center
- Workforce Board of Solano County

School Districts

- Dixon Unified School District
- River Unified School District
- Solano Community College Student Clubs
- Vacaville Unified School District

Non-profits

- Center for Land-Based Learning
- Delta Chambers and Visitor Bureau
- Dixon Family and Children Services
- Dixon Lion's Club
- Dixon Migrant Center
- Dixon Migrant Childcare Development Center
- Dixon Migrant Farm Labor Camp
- National Center for Appropriate Technology
- North Delta CARES
- Opportunity House
- Rio Vista CARE
- Rio Vista Chamber of Commerce
- Rio Vista Food Pantry
- RioVision
- Rural Vacaville Preservation Alliance
- Soroptimist International of Rio Vista
- Sustainable Solano
- University of California Agriculture and Natural Resources - Small Farms Programs
- Vaca Fish Food Pantry
- Walnut Grove Rotary Club

Religious Institutions

- Covenant Community Church
- Saint Joseph Catholic Church
- Shepherd of the Hills Lutheran Church
- Walnut Grove Community Church

<p>Local Distribution Network</p> <p><i>Stakeholder recommended distribution opportunities in the Solano Subbasin.</i></p> <p><i>Digital Distribution*</i></p>	<p>Local Newspapers</p> <ul style="list-style-type: none"> ● Dixon newspaper: The Tribune* ● Solano County newspaper: The Reporter* <p>Community Locations for Meeting Announcements & Flyer Distribution</p> <ul style="list-style-type: none"> ● Back-to-school tabling events in the subbasin* ● County Ag Commissioner Office ● Dixon Patch* ● Dixon 411 facebook group* ● Laundromats ● Local churches ● Nextdoor* ● Post offices ● Public libraries ● Restaurants ● Rio Vista Community Bulletin facebook group* ● School districts ● Taco Trucks ● Training centers partnered with the Workforce Development Board of Solano County ● Vacaville Community Center
<p>Local Outreach Events</p> <p><i>Virtual Event*</i></p>	<ul style="list-style-type: none"> ● Delta Protection Commission Flood Awareness Fair in Walnut Grove* ● Dixon's Grillin & Chillin Car and Truck Show ● Dixon May Fair ● Isleton Earth Day Citywide Cleanup ● Isleton Summer Fest ● Hog August Bites in Rio Vista ● Lambtown Festival ● Pear Fair ● Rio Vista Turkey Trot ● Solano County Fair ● Solano RCD Earth Day Clean Up Events ● Second Saturday events in Isleton ● Vacaville Fiesta Days (Festival) facebook group ● Walnut Grove Buddhist Bazaar
<p>Potential Outreach and Communication Barriers</p>	<ul style="list-style-type: none"> ● Broadband access ● COVID-19 impacts (at-home schooling, social distancing, public health impacts) ● Lack of awareness/knowledge of SGMA and groundwater planning ● Language barriers ● Meeting times and locations

Funding for this project has been provided in full or in part from the Water Quality, Supply, and Infrastructure Improvement Act of 2014, through an agreement in 2018 with the California Department of Water Resources. The Freshwater Trust received a Proposition 1 Groundwater Sustainability Planning Grant to provide tools and resources for community participation in support of the Solano Subbasin's groundwater sustainability efforts.