

COLUSA AND GLENN GROUNDWATER AUTHORITIES

Colusa Subbasin Public Workshops

December 9, 2020: 5:30 - 8:30 PM

December 10, 2020: 1:00 - 4:00 PM

Outline

- Groundwater Sustainability Plan Overview and Timeline
- Basin Setting and Conditions
- Water Budgets
- Sustainable Management Criteria
- Projects and Management Actions
- Well Monitoring Pilot Program
- Schedule and Next Steps

Zoom Input Methods

We will use the "Raise Hand" feature to add you to the queue. To do so, click on the raise hand in the "Participants" window.

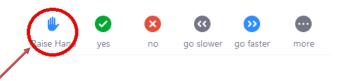
To get in the queue from your phone, press "*9"

You can also use the "Chat" feature to write a question (see image below)

We will keep everyone muted until it is your turn to speak

We will do our best to get to all questions and comments







If you need assistance you can use the chat window to Dave or Danaka

Groundwater Sustainability Plan Overview and Timeline

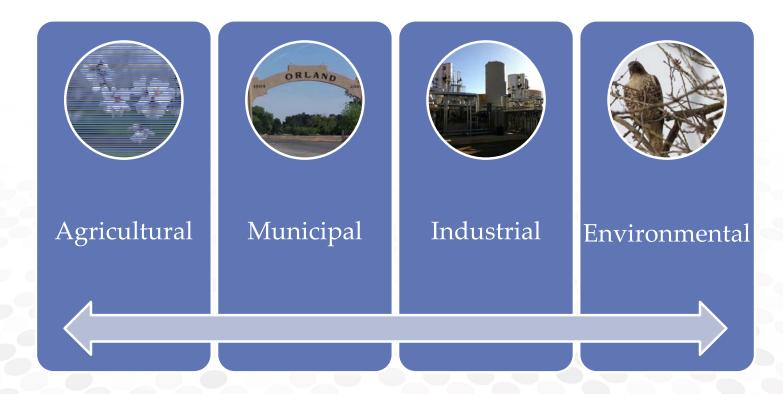
Byron Clark, PE Davids Engineering

Sustainable Groundwater Management Act (SGMA)

- Enacted by State of California in 2014
- Establishes Groundwater Sustainability Agencies (GSAs)
- Groundwater Sustainability Plan (GSP)
 - Due January 31, 2022
 - Annual reporting and GSP Update every 5 years
 - 20 years to achieve Sustainability (2042)
- Allows for Local Management of Groundwater
- Risk of State Intervention if Sustainable Management not Achieved

Sustainable Groundwater Management Act (SGMA)

Who is affected?



Potential Implications of State Intervention

- Trigger: Department of Water Resources (DWR) determines GSP is <u>Inadequate</u>
- Potential State Water Board Actions
 - Designation as a "Probationary Basin"
 - Required extraction reporting by groundwater users for individual wells
 - State develops interim plan, including corrective actions, timeline to make the basin sustainable, and monitoring plan to ensure corrective actions are working
 - Fees
 - Current fee \$300 per well plus \$40 per acre-foot (~ \$21 million per year)
 - Potential for additional costs and fee increases over time

Colusa Subbasin

- 1130 square miles (723,000 acres)
- Colusa Groundwater Authority
 - 12 Member Agencies
 - Cities, County, Water Districts, and
 Private Pumper Representatives
 - https://colusagroundwater.org/
- Glenn Groundwater Authority
 - 10 Member Agencies
 - Cities, County, and Water Districts
 - https://www.countyofglenn.net/dept/planningcommunity-development-services/waterresources/glenn-groundwater-authority

Subbasin Sacramento Valley Subbasin (Modified 2018) Vina Subbasin Glenn Groundwater Authority Glenn Co. Colusa Subbasin Butte Subbasin Colusa Co. Colusa Groundwater Authority Subbasin O VALLEY Lake Co Sutter Co. Yolo Subbasin

12/9/2020, 12/10/2020

Public Workshop

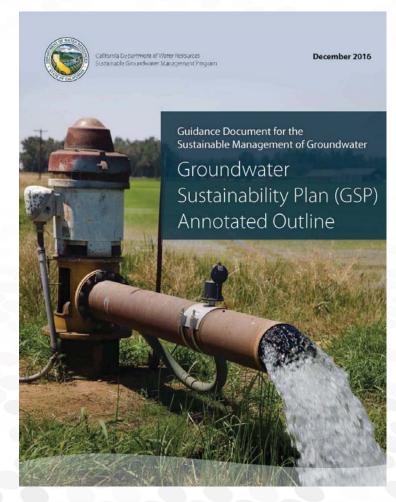
Sustainable Groundwater Management Act (SGMA)

Sustainability Indicators

Sustainability	Lowering	Reduction	Seawater	Degraded	Land	Surface Water	
Indicators	GW Levels	of Storage	Intrusion	Quality	Subsidence	Depletion	
Metric(s) Defined in GSP Regulations	Elevation Volu	• Total Volume	Chloride concentration isocontour	Migration of Plumes Number of supply wells Volume Location of isocontour	Rate and Extent of Land Subsidence	Volume or rate of surface water depletion	

Groundwater Sustainability Plan (GSP)

- 1. Agency Information
- 2. Plan Area
- 3. Basin Setting
 - Hydrogeologic Conceptual Model
 - Groundwater Conditions
 - Water Budgets
 - Management Areas
- 4. Monitoring Network
- 5. Sustainable Management Criteria
- 6. Projects and Management Actions
- 7. Plan Implementation



Groundwater Sustainability Plan (GSP)

- Initial Hydrogeologic Conceptual Model (HCM) and Monitoring Network Sections Completed in 2018
 - Available at https://www.countyofglenn.net/resources/water/grant-project-data-management-and-hydrogeologic-conceptual-modeling-support
- Currently Being Updated to Reflect Recent Conditions and Incorporate Basin-Wide Groundwater Conditions and Water Budgets
- Draft Basin Setting for TAC and Public Review Anticipated in early 2021
 - Posted to GSA websites
 - Links sent to email lists, posted on social media (Facebook, Twitter)

Colusa Subbasin GSP - Draft Timeline

GSP Component	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22
Basin Setting		Condit	ift HCM, ions, and et GSP Se	l Water	TAC Review		Public Review	GSA Board Review	Mana	gement A	reas						
Basin Setting Outreach				\Rightarrow		*			$\stackrel{\wedge}{\Rightarrow}$								
Sustainable	Draft	t Sustainability Draft M		1in. Thresholds & Upda		Undat	ted MTs Public		Updated Sustai		inable						
Management	Goal a	nd Unde	Hndesirahle I		able Objectives		and MOs			eview Yield							
Criteria	Resu	lts State			i abie Obj	C Objectives		and Mos									
SMC Outreach				\Rightarrow		7			\bigstar								
Monitoring			Draft Representative		ntative	Updated Representative		Public									
Network				MN			MN		Review								
Monitoring Outreach									\Rightarrow								
Projects and			Initial PMA Identification and Assessment		Screening Alte		Δlterr	natives Identify PMA mi			ix and						
Management					n and	Analysis		Analysis		analyze uncertainty							
Actions					nt							diricy					
PMA Outreach				\Rightarrow													
GSP Document								Admin. I	nfo., Plan	Exec. Sur	n., SMC,	Public	Review				
Preparation and								Area, N	lotice &	PMAs,	Plan	Public Review Draft GSP		Final GSP			
Adoption								Coi	mm.	Impleme	ntation	Diai					
GSP Outreach												\nearrow					
Funding		Initial Review and Comparison					Detailed Evaluation										
Mechanisms			militari	veview a	ma comp	Detailed		LValuation									
Hydrogeologic		Diaming				Data Callestian		Analysis and Incorporation									
Investigation		Planning			Data Collection		into GSP										
Well Monitoring	Dura	rogram Development		Advertising and Enrollment		Level and a state of a state of the state of											
Pilot Program	Pro					Implementation and Analysis											
Well Mont. Outreach					*												

More Information

- GSA Contacts
 - Colusa Groundwater Authority: Mary Fahey, Program Manager
 - (530) 458-0719; Mfahey@countyofcolusa.com
 - Glenn Groundwater Authority: Lisa Hunter, Program Manager
 - (530) 934-6540; Lhunter@countyofglenn.net
- GSA Websites
 - Glenn Groundwater Authority: https://www.countyofglenn.net/dept/planning-community-development-services/water-resources/glenn-groundwater-authority
 - Colusa Groundwater Authority: https://colusagroundwater.org/
- Social Media
 - Facebook: https://www.facebook.com/ColusaSubbasin
 - Twitter: https://twitter.com/ColusaSubbasin
- Other Resources
 - California DWR: https://water.ca.gov/Programs/Groundwater-Management/SGMA-Groundwater-Management
 - Farm Bureau: https://www.cfbf.com/top-issues/?tab=Water

Questions and Answers

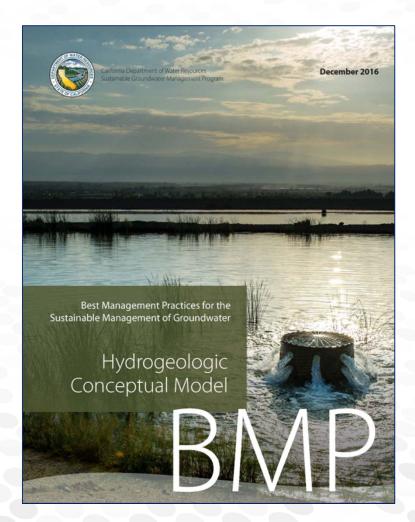
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Basin Setting and Conditions

Ken Loy, PG, CEG, CHG West Yost Associates

Basin Setting and Conditions

- Hydrogeologic
 Conceptual Model
- Groundwater Conditions
- Prop 68 Additional Hydrogeologic Investigation

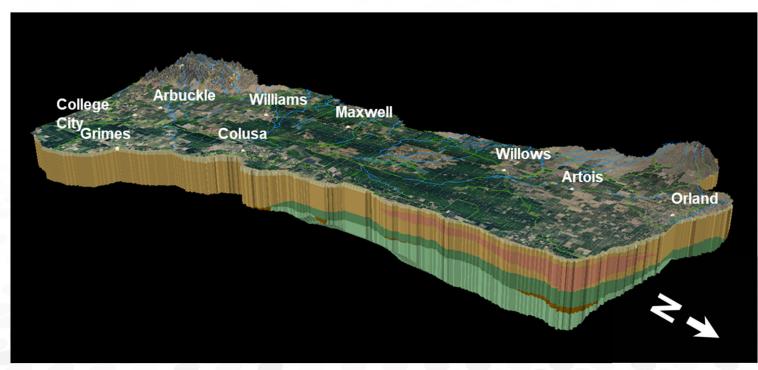


Colusa Subbasin

- Largest Subbasin in the Sacramento Valley
- 724,000-acre Area
- 60 miles North-South
- 20 miles East-West
- 1,500 ft Thickness



Water Movement Through the Hydrogeologic Conceptual Model (HCM)



Vertical Exaggeration=10x

Major Water Budget Components

Precipitation

Surface Water Inflows

Groundwater Pumping

Evapotranspiration

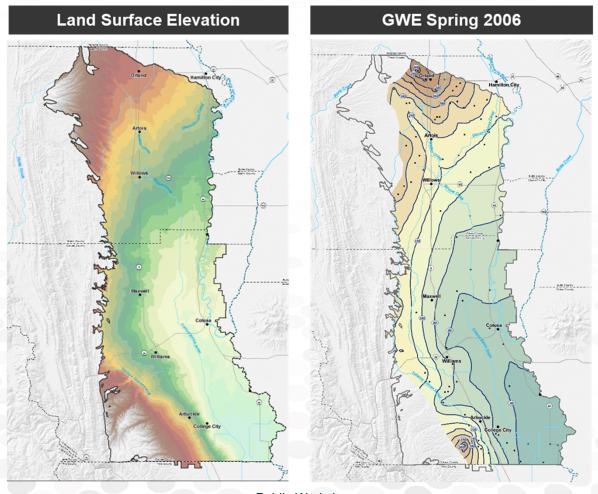
Surface Water Outflows

Percolation

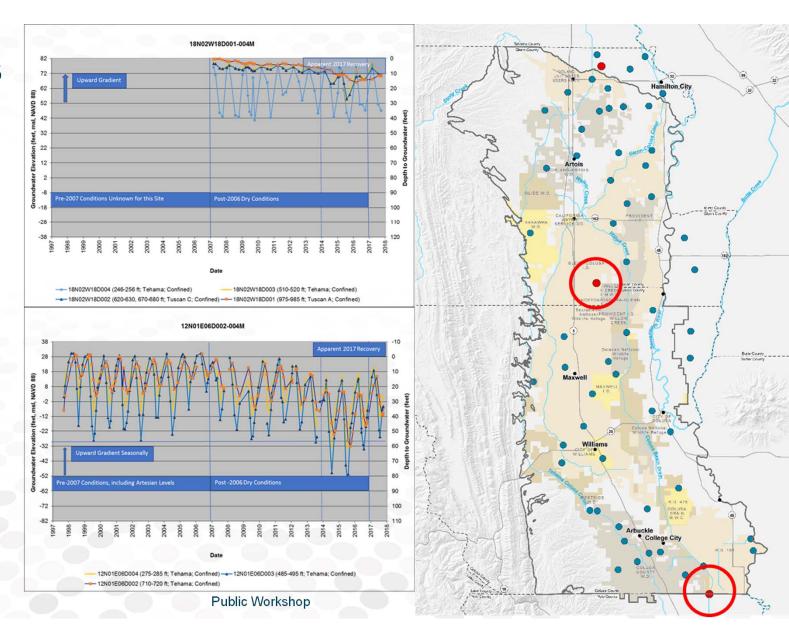
Stream - Aquifer Interactions

Interbasin Subsurface Flow

Groundwater Flow Trends



Hydrographs

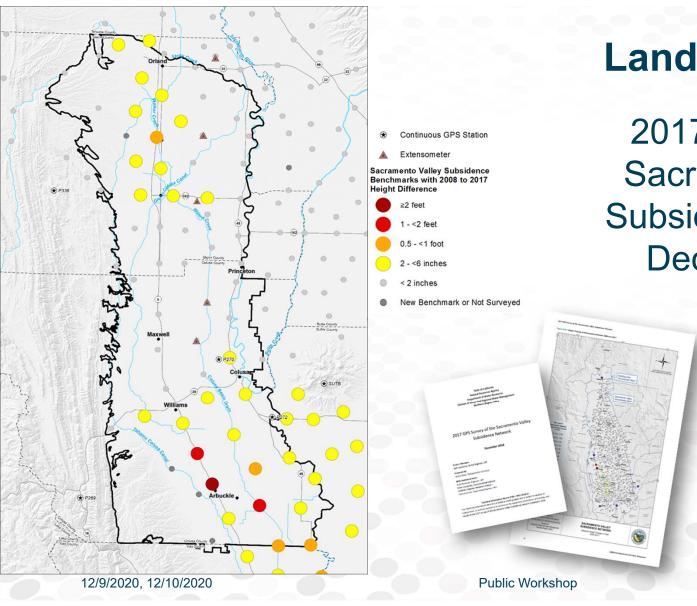


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Groundwater Quality

- Current groundwater quality is generally "good" with potential for some isolated issues.
- GSP focus will be on impacts to groundwater quality due to pumping and potential recharge activities.
- GSP will address salinity.
- Existing water quality monitoring programs are sufficient and not expected to change due to GSP implementation.



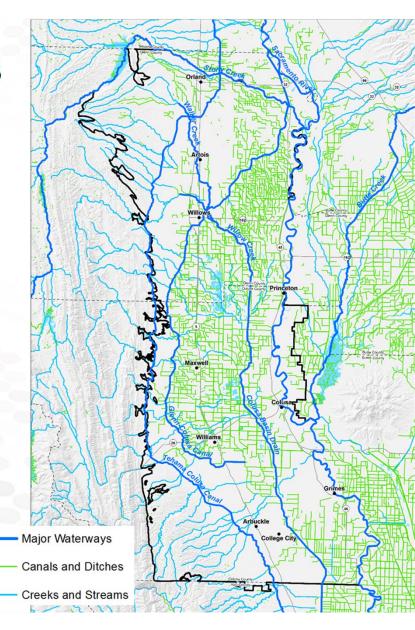


Land Subsidence

2017 GPS Survey Sacramento Valley Subsidence Network, December 2018

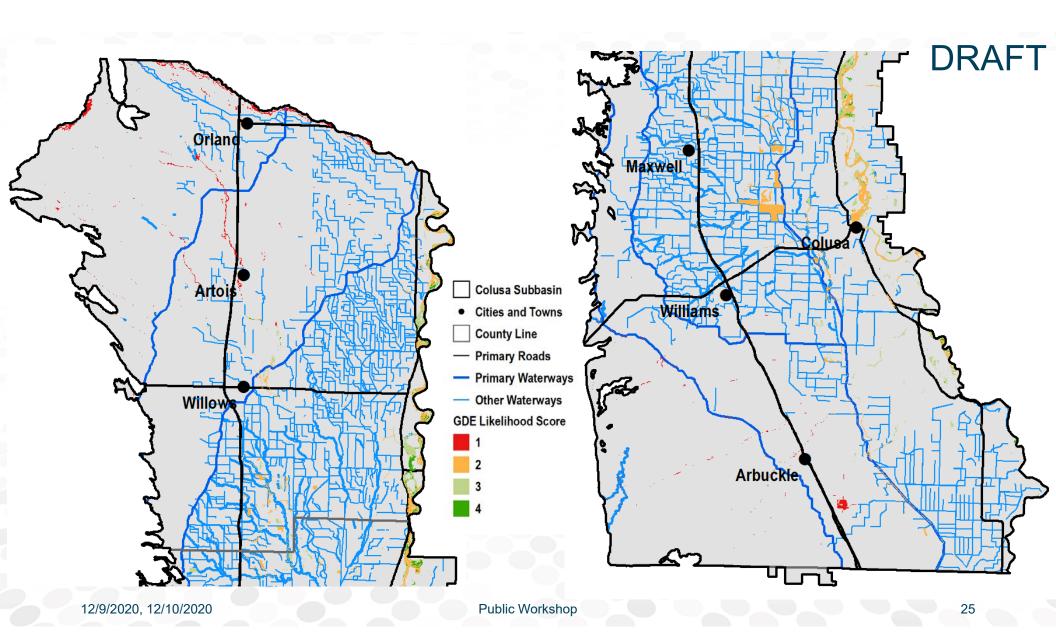
Interconnected Surface Waters

- Interconnected surface waters exist within the Colusa Subbasin.
- Changes in groundwater could impact these surface waters.
- Numerical modeling for water budgets used to evaluate impacts to interconnected surface waters.
 - Opportunity for additional monitoring in the future



Groundwater Dependent Ecosystems (GDEs)

- Ecological communities or species that depend on groundwater emerging from aquifers or on groundwater occurring near the ground surface
- Potential GDEs identified by DWR/The Nature Conservancy
 - Wetlands and vegetation
 - 2,795 polygons, 17,748 acres
- Draft scoring developed
 - Scored from 1 4 (1 = less likely, 4 = more likely)
 - Recent historical spring depth to groundwater
 - Proximity to surface water sources
- Potential additional refinement supported by DWR Prop 68 grant



Prop 68 Hydrogeologic Investigation

- Purpose
 - Fill data gaps to reduce uncertainty in GSP development
- Currently preparing an investigation work plan and coordinating with DWR
 - Discussions ongoing with GSA Technical Advisory Committee
 - Public participation welcome and encouraged
- Complete before October 2021

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Water Budgets

Byron Clark, PE Davids Engineering

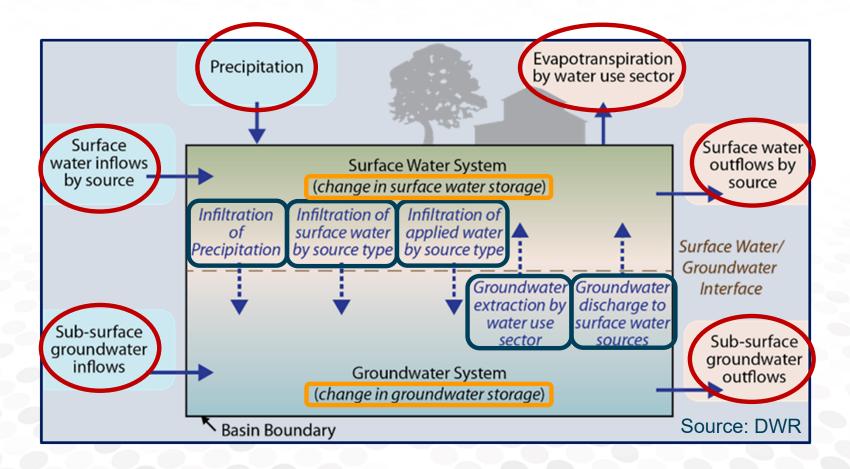
Water Budgets

- Overview
- Historical
- Baseline and Projected

Water Budget Overview

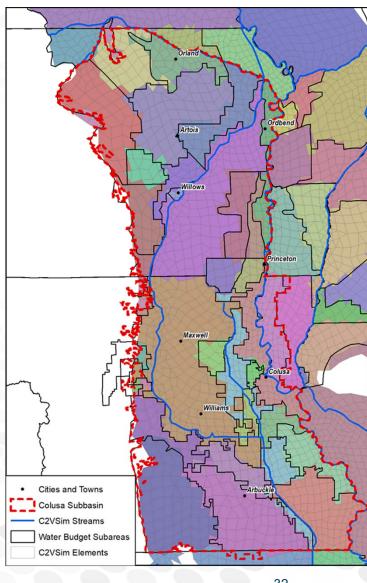
- Required for inclusion in the GSP
- Complete accounting of inflows, outflows, and change in storage (just like a checking account)
 - Deposits Withdrawals = Balance Change, or
 - Inflows Outflows = Change in Storage
- Developed for historical, current, and potential future conditions

Water Budget Structure



Water Budget Approach

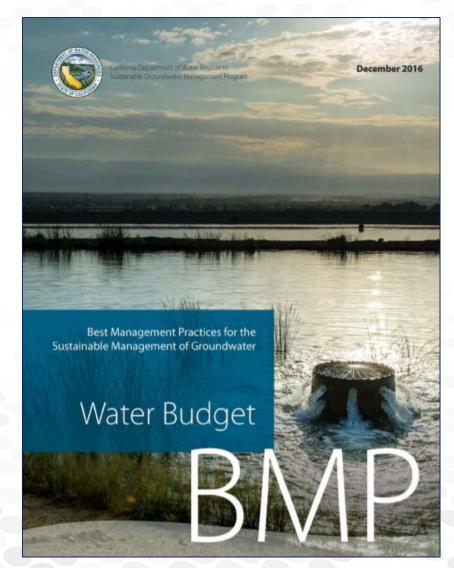
- Estimated using DWR's Integrated Hydrologic Model (C2VSimFG Beta2), with local refinements
- 38 Subareas in Colusa Subbasin
 - Water Suppliers/ Diverters
 - Counties
 - GW-Only Areas
- Ability to Report Out Water Budgets to Support Intrabasin Discussions



Additional Water Budget Information

- Water Budget Fundamentals
- Technical Assistance
- Key Definitions
- Related Materials

https://water.ca.gov/Programs/Ground water-Management/SGMA-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents



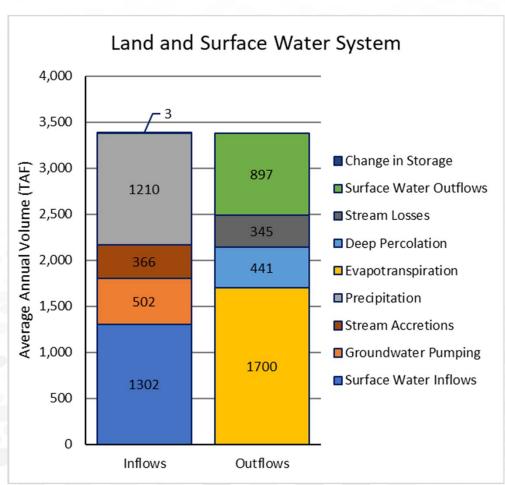
DRAFT Historical Water Budget

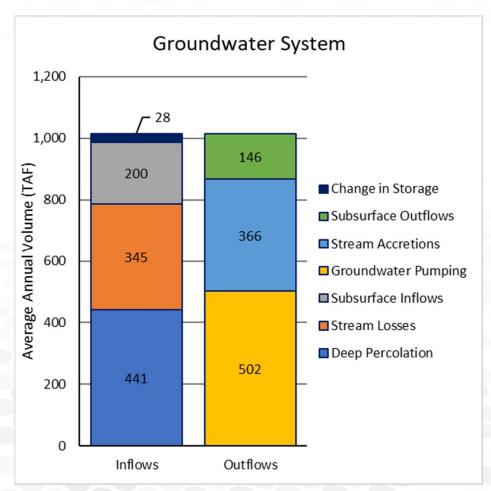
- Provides Basis for Understanding how the Basin has Responded Historically to Changing Conditions
 - Precipitation
 - Land Use
 - Surface Water Supplies
- Supports Model Calibration to Estimate Baseline and Projected Water Budgets
- Focus on water years 1990 2015*

^{*} A "Water Year" is defined as the period from October 1 of the previous year to September 30 of the current year.

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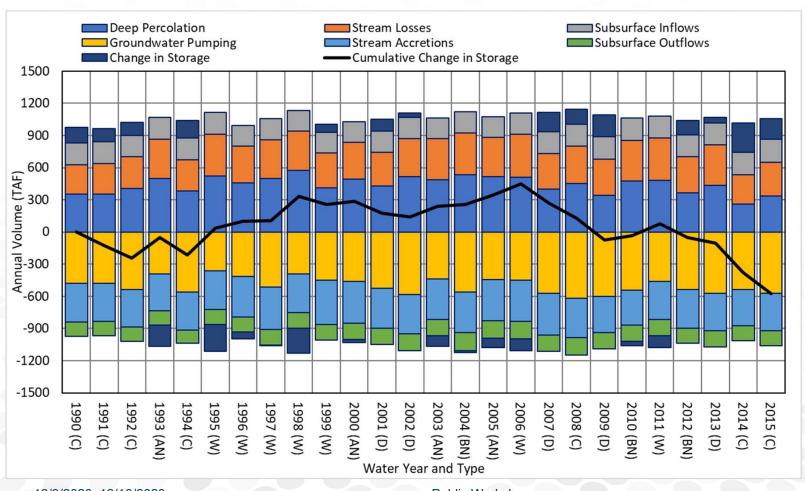
Average Historical Water Budget





DRAFT

Historical Annual Groundwater Budget



Water Year Type:

W - Wet

AN - Above Normal

BN - Below Normal

D – Dry

C - Critical

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Historical Water Budget Takeaways

- Conditions Have Changed over Time
- Surface Water Supplies Represent Primary Irrigation and Domestic Supply (~72%)
- Recent Historic Drought Suggests Possible Supply-Demand Imbalance
- Baseline and Projected Water Budgets Provide Broader Basis for Understanding Potential Future Conditions

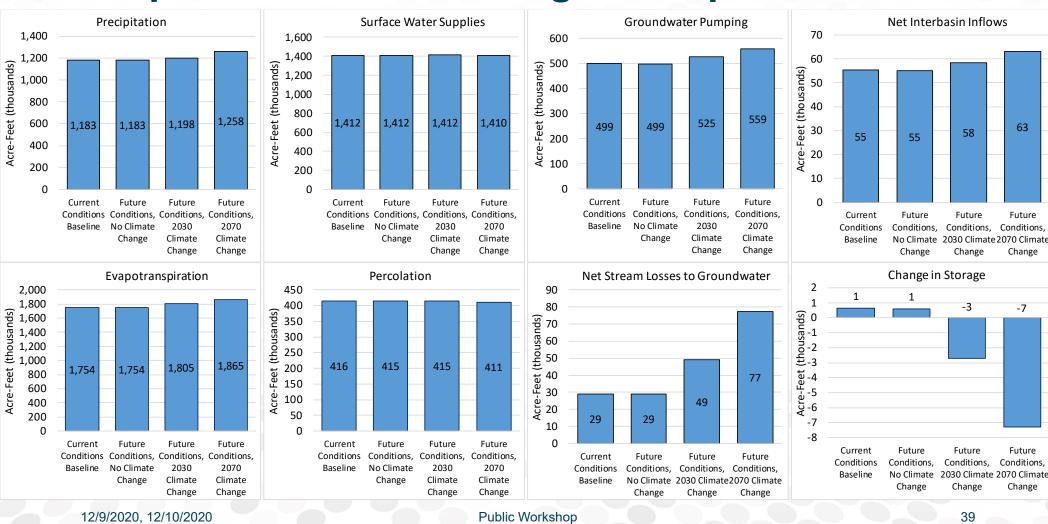
Baseline and Projected Water Budgets

- Provide Basis to Understand Potential Uncertainty in Future Groundwater Conditions
- Support Evaluation of Potential Projects and Management Actions
- Not Used to Determine Sustainability
- Consider 50 Years of Hydrology
- Scenarios
 - Current
 - Future, no Climate Change
 - Future, 2030 Climate Change
 - Future, 2070 Climate Change

Public Workshop

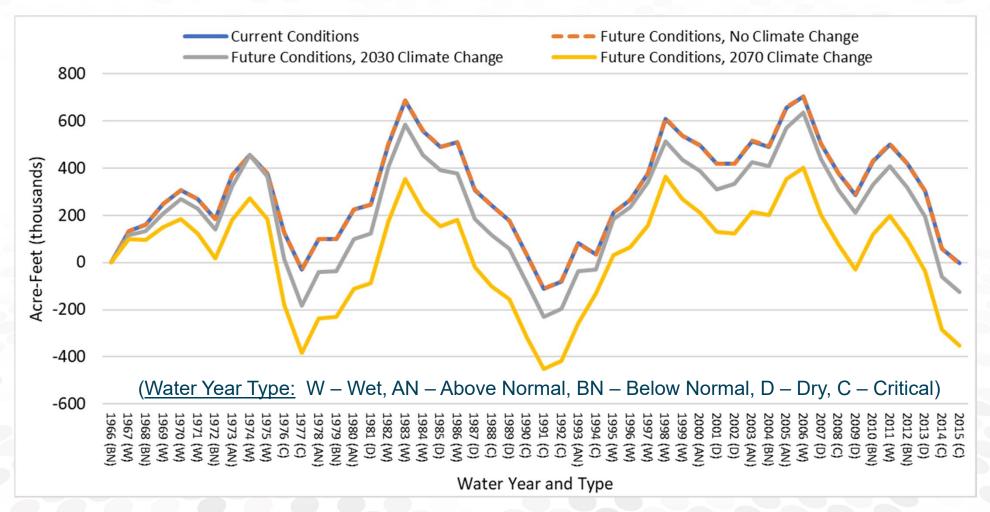
Comparison of Water Budget Components

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Cumulative Change in Groundwater Storage

DRAFT



Baseline and Projected Water Budget Observations

- Average annual change in storage differs between scenarios
 - Increase in groundwater pumping under climate change scenarios (+26 TAF/yr to +60 TAF/yr)
 - Modest decrease in storage under 2030 and 2070 conditions
 (-3 to -7 TAF/year)
 - Decrease in storage less than increased pumping due primarily to increased recharge from streams (+20 TAF to +48 TAF/yr) and increased interbasin inflows (+3 TAF/yr to +8 TAF/yr)
- Changes in storage (and groundwater levels) substantial over multi-year wet and dry cycles

Baseline and Projected Water Budget Takeaways

- Multi-year wet and dry cycles should be considered in establishing Sustainable Management Criteria
- Projects and management actions should consider
 - Toolbox of options to provide flexibility to implement based on observed conditions (surface water supply augmentation, increased recharge, demand management)
 - Accrual of benefits over time, in anticipation of dry cycles and associated impact on groundwater conditions

Questions and Answers

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Sustainable Management Criteria

John Ayres, PG, CHG Woodard & Curran

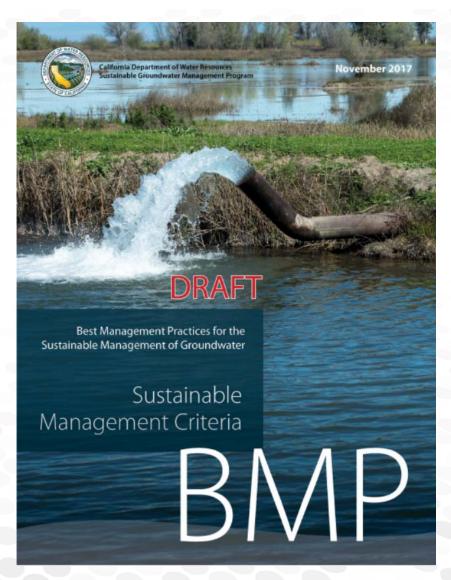
Sustainable Management Criteria

- Overview
- Sustainability Goal
- Undesirable Results
- Minimum Thresholds, Measurable Objectives, and Interim Milestones

SMC Component Parts

- Sustainability Goal
- Undesirable Results
- Minimum Thresholds, Measurable Objectives, and Interim Milestones
- Additional Information

https://water.ca.gov/Programs/Ground water-Management/SGMA-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents



Overview: Sustainability Goal

- Overarching Goal of the Entire Groundwater Sustainability Plan (GSP)
- Qualitative Description of Objectives and Desired Conditions in the Subbasin
- Supported by Undesirable Results, Minimum Thresholds,
 Measurable Objectives and Interim Milestones

Draft Sustainability Goal

The sustainability goal for the Colusa Subbasin GSP is to maintain, through a cooperative and partnered approach, locally managed sustainable groundwater resources to preserve, and enhance the economic viability, social well-being and culture of all Beneficial Uses and Users without experiencing undesirable results.

- Undesirable results statements and how they are detected are a key component of the GSP, and require careful wording
- Approach:
 - -Considers stakeholder input
 - Phrased broadly to meet regulations "significant and unreasonable effects...caused by groundwater conditions"
 - Drives monitoring network, thresholds, projects, and management actions portions of GSP

- Set for each sustainability indicator
- Not required for sustainability indicators where undesirable results are not present and not likely to occur (e.g. Seawater Intrusion)
- Can be updated adaptively over time
- Are required to be updated as part of 5 year GSP updates

Levels

-The undesirable result for the chronic lowering of groundwater levels is a result that would cause significant and unreasonable reduction in the long-term viability of beneficial uses and users over the planning and implementation horizon of this GSP.

Seawater Intrusion

–Seawater intrusion is not an applicable sustainability indicator, because seawater intrusion is not present and is not likely to occur in the Colusa Subbasin due to the distance from the Pacific Ocean, bays, deltas, or inlets.

- Quality
 - The undesirable result for degraded water quality is a result stemming from a causal nexus between groundwater quantity related activities, such as groundwater extraction or groundwater recharge, and groundwater quality that causes significant and unreasonable effects to Beneficial Uses and Users including reduction in the long-term viability of these uses over the planning and implementation horizon of this GSP.
- "Causal Nexus" is used to limit GSA's responsibility where it overlaps with existing issues, is naturally occurring, or is being covered by other programs

What Does it Mean? (Groundwater Levels Version)

Sustainability Goal

Overarching objective of GSP

Undesirable Result Statements

 Describes what/who can be affected by negative conditions

Minimum Thresholds

 How far down groundwater at a particular monitoring well indicate conditions near that well are negative

What Does it Mean?

Local Control:

- -We decide how deep groundwater has to be (minimum thresholds) before we have a significant and unreasonable problem (and have to interact with State regulators)
 - If we decide that's shallower, we're less likely to see problems like dry domestic wells happen, but more likely to force the GSA to take actions, which have costs
 - If we decide that's deeper, we're more likely to see problems like dry domestic wells, but less likely to see the GSA forced to take actions
 - –GSA may choose to mitigate dewatered domestic wells as part of its management
- -GSA may also take actions without exceedances below thresholds, is not limited to only acting when levels are below thresholds

What is Undesirable?

- Groundwater Levels
 - Wells going dry
 - Increased pumping costs
 - Perennial/Intermittent streams staying dry longer
 - **??**
- Subsidence
 - Damage to infrastructure (bridges, wells, etc.)
 - Water conveyance capacity
 - Flood protection
 - -??
- Groundwater Quality
 - Upwelling salinity
 - Drinking water
 - Irrigation uses
 - **-??**



Overview: Minimum Thresholds (MTs)

Minimum Thresholds refer to numeric values for each sustainability indicator used to define undesirable results.

- Quantitative value representing groundwater conditions at a representative monitoring site
- When exceeded individually or in combination with other monitoring sites, are used to detect an undesirable result

Overview: Adaptive Management Threshold (AMTs)

Adaptive Management Thresholds are a non-regulatory threshold under consideration by the GSA to guide the GSA's management of groundwater to avoid reaching minimum thresholds

- Quantitative value representing groundwater conditions at a representative monitoring site
- When exceeded individually or in combination with other monitoring sites, may be used to trigger groundwater management by the GSA

Overview: Measurable Objectives (MOs)

Specific, quantifiable goals for the maintenance or improvement of specified groundwater conditions that have been included in an adopted GSP to achieve the sustainability goal for the basin.

- Uses same measurement tools as minimum thresholds
- Provides a buffer above minimum thresholds for drought periods

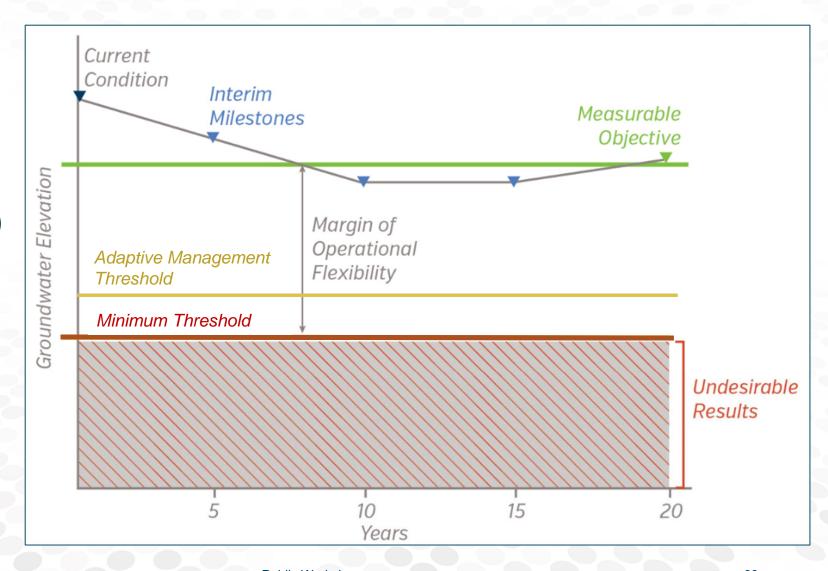
Overview: Interim Milestones (MOs)

Interim Milestones track progress toward meeting the basin's sustainability goal. Interim milestones must be coordinated with projects and management actions.

- Uses same measurement tools as minimum thresholds
- Set in 5-year intervals, corresponding to required GSP updates

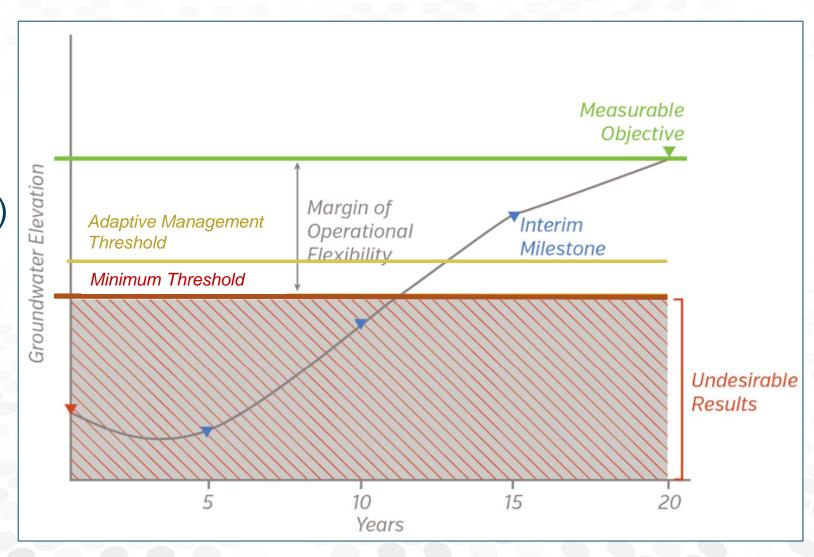
Example:

(Current Conditions Sustainable)



Example:

(Current
Conditions
Unsustainable)



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Projects and Management Actions

Byron Clark, PE Davids Engineering

Projects and Management Actions (PMAs)

- PMAs required to meet the sustainability goal over the planning and implementation horizon must be included in GSP
- Can be implemented adaptively, as needed
- Information Required:
 - Benefits and Costs
 - Implementation trigger(s) and schedule
 - Required permitting and regulatory process
 - Funding mechanism(s)
 - Etc.

PMA Examples

- Supply Augmentation
 - Incentivize use of available (but unused) surface water supplies
 - Storage (e.g. Sites Reservoir)
- Recharge
 - Winter recharge (e.g. capturing flood flows)
 - In-lieu recharge (e.g. dual source irrigation systems)
- Demand Reduction
 - Water conservation (e.g. delivery infrastructure modernization, increased reuse)
 - Invasive species removal (e.g. Arundo)
 - Pumping allocations
- Monitoring programs
 - Groundwater pumping, Groundwater levels, Stream flows, etc.

PMA Development Process

- Stakeholder engagement to develop initial inventory for discussion and evaluation
- Hydrologic, engineering, and economic analysis to screen initial PMAs
- Create and assess combinations of PMAs and evaluate potential impacts on groundwater conditions
- Rank, select, and perform final assessment of proposed PMAs for inclusion in GSP

Draft Template to Gather PMA Ideas

- To be made available through GSA websites, mailing lists, etc. by late December
- Requested Information
 - Project Name and Contact Information
 - Project Description and Status
 - Supporting Information
- O.K. if not all requested information currently available

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Well Monitoring Pilot Program

Byron Clark, PE Davids Engineering

Well Monitoring Pilot Program

- Voluntary, Incentive-Based Program
- Equip Participants with Near Real-Time Information on Pumping and Water Levels
- Provides GSAs with Information to Support GSP Development
- Funded through DWR
 Prop 68 Grant



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Program Eligibility

- Potential Participants Agree to:
 - Allow GSAs to make information collected publicly available
 - Allow GSA representatives to make site visits
 - Participate for a period of three years
 - Install approved flow meter and access tube for pressure transducer in well casing, if not already present
 - Maintain cellular service for monitoring equipment telemetry during threeyear enrollment period
 - Manually report pumping data during three-year enrollment period, in the event of device failure

Selection Criteria

- Selection will Consider
 - Location within the subbasin (desire to enroll participants in both Glenn and Colusa counties)
 - Water source (fields relying primarily on groundwater preferred)
 - Presence of an existing flow meter installed per manufacturer specifications

Incentives and Funding

- GSAs to Cover Costs of:
 - Flowmeter, if needed (up to \$2,500)
 - Purchase and installation of pressure transducer
 - Datalogger, solar panel, cellular modem, and a 3-year subscription for web and mobile access to data
- For Pilot Program, Funding Available for Approximately 6 Sites



Anticipated Timeline

- Solicit Applications: Early January
- Landowner Workshop: Mid-Late January
- Selection and Deployment: February April
- Implementation: 2021 2023 Growing Seasons

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Schedule and Next Steps

Byron Clark, PE Davids Engineering

GSP Development Schedule

- Big Picture
 - Public Review Draft Anticipated August 2021
 - Adopt in late 2021
 - Submit to DWR by January 31, 2022
- Near-Term
 - Draft Basin Setting released for comment early 2021
 - Well Monitoring Pilot Program workshop January 2021
 - GSA board and Joint TAC meetings (approximately monthly)
 - Next Public workshops late February early March 2021

Basin Setting Public Review Draft

- Sections
 - Hydrogeologic Conceptual Model
 - Current and Historical Groundwater Conditions
 - Water Budgets
- Distribution
 - Post to GSA websites
 - Links sent to email lists, posted on social media (Facebook, Twitter)
- Comment Process
 - Specific instructions to be provided with distribution

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 - Use *9 from your phone, or
 - Write a question / comment in the "Chat" feature.
- To provide written input on any topic:
 - Glenn Groundwater Authority
 - glennsgma@countyofglenn.net
 - Colusa Groundwater Authority
 - mfahey@countyofcolusa.com
 - https://colusagroundwater.org/contact-us/

More Information

- GSA Contacts
 - Colusa Groundwater Authority: Mary Fahey, Program Manager
 - (530) 458-0719; Mfahey@countyofcolusa.com
 - Glenn Groundwater Authority: Lisa Hunter, Program Manager
 - (530) 934-6540; Lhunter@countyofglenn.net
- GSA Websites
 - Glenn Groundwater Authority: https://www.countyofglenn.net/dept/planning-community-development-services/water-resources/glenn-groundwater-authority
 - Colusa Groundwater Authority: https://colusagroundwater.org/
- Social Media
 - Facebook: https://www.facebook.com/ColusaSubbasin
 - Twitter: https://twitter.com/ColusaSubbasin
- Other Resources
 - California DWR: https://water.ca.gov/Programs/Groundwater-Management/SGMA-Groundwater-Management
 - Farm Bureau: https://www.cfbf.com/top-issues/?tab=Water

Parking Lot

The Workshop is Currently on a Short Break

For General Information:

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