



COLUSA AND GLENN GROUNDWATER AUTHORITIES

Colusa Subbasin Well Monitoring Pilot Program

January 25, 2021

Well Monitoring Pilot Program



- Program Overview and Funding
- Program Objectives
- Program Activities and Timeline
- Eligibility Criteria and Selection Process
- Next Steps
- Questions and Discussion

Overview and Funding



- Overview
 - Collect Groundwater Extraction Volumes
 - Collect Water Levels
- Current Funding
 - Funded through DWR Proposition 68 Grant
 - Estimated Budget ~\$66k*



Program Objectives



- Encourage Stakeholder Engagement/Involvement in Groundwater Sustainability Plan (GSP) Development
- Test Program Design and Equipment
- Learn about Irrigation Management Technologies
- Incorporate Available Data into GSP Development
- Identify and Evaluate Options for Basin-Wide Implementation

Program Activities and Timeline



- Application and Selection: January March
 - Application Deadline: February 26, 2021
- Participant Agreement: March April
- Deployment: March April
- Monitoring: Three years following deployment

Flow Meters

COLUSA SUBBASIN

- McCrometer
 - Water Specialties
 - McPropeller
- SeaMetrics
 - Ag3000
- Others, As Approved





Telemetry



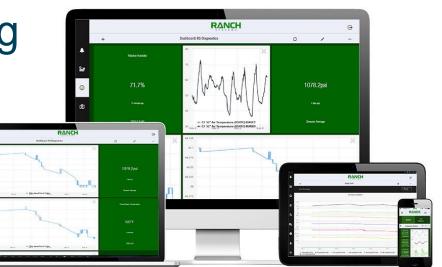
- Components
 - Datalogger
 - Solar power supply
 - Cellular modem
 - Online data platform
- Provider
 - Ranch Systems (<u>www.ranchsystems.com</u>)
 - Others, as approved

Ranch Systems (www.ranchsystems.com)



- RS130 Telemetry Node
- Two Input Sensors
 - Flow Meter
 - Pressure Transducer
 - Expandable to Add Others
- Optical Sensor for Existing Mechanical Meters
- Mobile, Tablet, and Computer Access







Incentives

COLUSA SUBBASIN

- Eligible Costs
 - –Data Logger and Telemetry
 - -Pressure Transducers
 - -Flow Meters (up to \$2,500)
- Grant Funds Cannot Be
 Paid to Participants
 Directly









Eligibility Requirements



- Potential Participants Agree to:
 - Allow Groundwater Sustainability Agencies (GSAs) to make information collected publicly available
 - Allow GSA representatives to make site visits
 - Participate for a period of three years

Eligibility Requirements (continued)



- Potential Participants Agree to:
 - 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 three-year enrollment period (~\$15/month)
 - 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)
 - Presence of an existing flow meter installed per manufacturer specifications
 - Water source (fields relying primarily on groundwater preferred)
- Other Considerations
 - Number of wells per participant
 - First come first served

Other Considerations



- Number of Wells per Participant
 - Limit to one well per participant, unless funding remains after initial selection is complete
 - For participants submitting multiple applications, highest scoring well included in initial round of selection
- First Come First Served
 - If more than one well has the same score, and only one can be funded, select first application submitted

Informational Flyer

- Background
- Program Description
 - Activities
 - Incentives
 - Equipment Providers
 - Timeline
- Contact Info. for Questions
- Funding Acknowledgement





Colusa Subbasin Well Monitoring Pilot Program

BACKGROUND

The Colusa Subbasin Groundwater Sustainability Agencies (GSAs) are implementing an incentive-based pilot program to The Colusa Suboasin Groundwater Sustainability Agencies (GSAS) are implementing an incentive-Gased prior program to work with interested growers and landowners to continuously monitor groundwater use and water levels at participating wells. This voluntary, non-regulatory program is intended to support the GSAs in gathering information regarding wens, this voluntary, non-regulatory program is intended to support the GSAs in gathering information regarding groundwater use in the subbasin while providing participants with near-real time access to information on well production

Interested parties are invited to submit a brief application describing contact information, location, cropping, and other information related to the proposed groundwater well. Following the receipt of applications, participants will be selected considering certain criteria. Participants agree that the well location and information collected may be made publicly available. Participants also agree that GSA representatives may make site visits to inspect wells, verify installation, and collect manual measurements as needed.

The program will cover the purchase cost of a flowmeter or upgrades to an existing flow meter (up to \$2,500), if needed, purchase and installation of a pressure transducer (to monitor groundwater levels), datalogger, solar panel, cellular modem, and a 3-year subscription for web and mobile access to data gathered. Program participation may be extended beyond 3 years, as mutually agreed. Participants will be responsible for:

- Installation of flow meter per manufacturer specifications Installation of access tube for pressure transducer in
- Monthly cellular modern costs (approx. S15 per month)
- Manual reporting of pumping data, in the event of

- January 2021: Applications Accepted February – March 2021: Participants Selected, Agreements Executed, Wells Inspected, and
- April 2021 October 2023: Wells Monitored





For more information, please contact Colusa Groundwater Authority

Mary Fahey, CGA Program Manager 530-458-0719 • mfahey@countyofcolusa.com

Glenn Groundwater Authority Lisa Hunter, GGA Program Manager

Participant Application

- Simple, 1-Page
- Information Requested
 - Applicant Contact
 - Location
 - Acreage, Crop(s) Served, Irrigation Method
 - Presence of Flow Meter
 - Estimate of Relative Reliance on Groundwater vs. Surface Water
 - Willingness to Share Information Collected
- Participant Agreement under Development





COLUSA SUBBASIN WELL MONITORING PILOT PROGRAM APPLICATI

Thank	Deadline: For
following for your interes	est in the Coluce Care
onowing information. No	oto at
Participant.	that landowner must be a Monitoring Pilot Pro-
Address:	est in the Colusa Subbasin Well Monitoring Pilot Program. Please provide the that landowner must be up to date with their GSA operations fee.
Contact Name: Contact Phone: Contact Email:	
	(piease also provide a man
	map showing well location
Acreage Seguett	Section and field(s)
TOWN;	
rrigation Method (
rrigation Method (drip, microspra the well currently equipped with	y, sprinkler, etc.}:
50, is it installed per manufacture	a flow meter (circle one)?
If surface water	served by the wall (-)
by groundwater?	average ut. (Circle one)? Yes / No
Additional	what is the estimated persons
Additional Information:	Properties of the well (circle one)? Yes / No average, what is the estimated percent of crop irrigation needs met
agree to allow information	
Igree to allow GSA representation	ted to be shared by the GSAs (circle one)? Yes / No s to visit your well site (circle one)? Yes / No
19, 2021	s to visit your well site (circle one)? Yes / No
	onej/ Yes / No
	1

Next Steps and Contact Information



- Application, Selection, and Enrollment
- Equipment Deployment
- Initiate Monitoring Activities

GSA Contacts

- Colusa Groundwater Authority: Mary Fahey, Program Manager
 - (530) 383-4625; Mfahey@countyofcolusa.com
- Glenn Groundwater Authority: Lisa Hunter, Program Manager
 - (530) 934-6540; Lhunter@countyofglenn.net



Questions and Discussion