

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
Jan 21-22, 2018
Agenda Item 23(a)

Applicant & Grantee: Eagle County Conservation District
Water Activity Name: CoAgMet Station #2
Water Activity Purpose: Agricultural Implementation
County: Eagle
Drainage Basin: Colorado
Water Source: N/A
Amount Requested: \$10,000 Colorado Basin Account
Matching Funds: Applicant Match (cash & in-kind) = \$10,000

- 100% of the Basin Account request (meets 25% min)
- 50% of the total project cost of \$10,000

Staff Recommendation:

Staff recommends approval of up to \$10,000 from the Colorado Basin Account to help fund the project titled: CoAgMet Station #2.
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Water Activity Summary: WSRF grant funds, if approved, will help Eagle County Conservation District (ECCD) order and install a CoAgMet (Colorado Agricultural Meteorological Station) on land centrally located in Eagle County for the benefit of the entire farming community and the general population. The CoAgMet machines are in high demand and ECCD plans to purchase another unit in March of 2018. A second station will vastly expand the regional network of data and how Eagle County can report for upcoming growing seasons and irrigation scheduling recommendations. There are currently 75 existing stations in the state of Colorado. The majority of these stations have continued support from local conservation districts (CD). The closest stations supported by other conservation districts are the Carbondale station (Mt Sopris CD) and the Silt station (Bookcliffs CD). Data gathered from this second device will be used to educate residents of Eagle County on water efficiency; the information gathered, such as soil and weather data, will make for better water use throughout ECCD's community, including for crop farming, private gardens, lawns, irrigation control and weed management. Eagle County will also host a workshop to educate the community on how to access and use the data via an online portal for improving irrigation practices.

Discussion: As described in the Colorado basin roundtable (BRT) chair's recommendation letter, the project was supported and recommended for approval by the roundtable in September 2017. The project scored 8.25 of a possible 14.25 points on the Colorado BRT scoring matrix which measures how grants address roundtable objectives. This project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in Chapter 10.3, D. Agriculture: Support Agricultural Conservation and Efficiency.

Issues/Additional Needs: Staff will work cooperatively with the grantee to further develop a project budget and schedule that meets the needs of the applicant and State Controller's Office.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
Eagle County Conservation District	\$10,000	\$0	\$10,000
WSRF Colorado Basin Account	\$10,000	n/a	\$10,000
Totals	\$20,000	\$0	\$20,000

CWCB Project Manager: Megan Holcomb

THE COLORADO BASIN ROUNDTABLE
C/O P.O. BOX 1120
GLENWOOD SPRINGS, COLORADO 81602

Oct. 17, 2017

Colorado Water Conservation Board

WSRF Grants

1313 Sherman Street

Denver CO

(303) 866-3441

megan.holcomb@state.co.us

Dear Staff:

The Colorado Basin Roundtable voted unanimously by email balloting in September 2017 to approve a WSRF Basin Grant of \$10,000 to the Eagle River Conservation District to cost share a new CoAgMET station in Eagle County.

The project comports with objectives in our Basin Implementation Plan relating to the sustaining of agriculture and improving efficient water use. It could also be a mechanism for advancing water education.

The project scored 8.25 of a possible 14.25 points on our scoring matrix, which measures how grants address our various Roundtable objectives.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Jim Pokrandt", with a long, sweeping horizontal stroke extending to the right.

Jim Pokrandt
Chair, Colorado Basin Roundtable

Attachment: CBRT Grant Matrix Scoring Sheet

Last Update: August 3, 2017

Colorado Water Conservation Board
Water Supply Reserve Fund Grant Application

Instructions		
<p>All WSRF grant applications shall conform to the current 2016 WSRF Criteria and Guidelines.</p> <p>To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) AND the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.</p> <p>If you have questions, please contact the current CWCB staff Roundtable liaison:</p>		
<p>Arkansas</p> <p>Ben Wade ben.wade@state.co.us 303-866-3441 x3238</p>	<p>Gunnison North Platte South Platte Yampa/White</p> <p>Craig Godbout craig.godbout@state.co.us 303-866-3441 x3210</p>	<p>Colorado Metro Rio Grande Southwest</p> <p>Megan Holcomb megan.holcomb@state.co.us 303-866-3441 x3222</p>

WSRF Submittal Checklist (Required)	
X	I acknowledge this request for funding was recommended for CWCB approval by the sponsoring Basin Roundtable(s).
X	I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines .
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract . ⁽¹⁾
Exhibit A	
X	Statement of Work ⁽²⁾ (Word – see Exhibit A Template)
X	Budget & Schedule ⁽²⁾ (Excel Spreadsheet – see Exhibit A Template)
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
Exhibit C	
	Map ⁽²⁾
	Photos/Drawings/Reports
	Letters of Support
X	Certificate of Insurance ⁽³⁾ (General, Auto, & Workers' Comp.)
Contracting Documents	
	Certificate of Good Standing ⁽³⁾
	W-9 ⁽³⁾
	Independent Contractor Form ⁽³⁾ (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form ⁽³⁾

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

(2) Required with application if applicable.

(3) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

Last Update: August 3, 2017

Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

Desired Timeline	
Desired CWCB Hearing Month:	January 2018
Desired Notice to Proceed Date:	March 2018

Water Activity Summary		
Name of Applicant	Eagle County Conservation District	
Name of Water Activity	CoAgMet Station #2	
Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾	
Colorado Basin Roundtable	\$10,000	
Basin Account Request Subtotal	\$10,000	
Statewide Account Request ⁽¹⁾	\$	
Total WSRF Funds Requested (Basin & Statewide)	\$10,000	
Total Project Costs	\$20,000	

(1) Please indicate the amount recommended for approval by the Roundtable(s)



Last Update: August 3, 2017

Grantee and Applicant Information	
Name of Grantee(s)	Eagle County Conservation District
Mailing Address	PO BOX 360 Eagle CO 81631
FEIN	
Grantee's Organization Contact ⁽¹⁾	Scott Jones
Position/Title	Board President
Email	Scottjonesroping@gmail.com
Phone	970-376-5822
Grant Management Contact ⁽²⁾	<u>Laura Pliske</u>
Position/Title	District Manager
Email	EagleCountyCD@gmail.com
Phone	970-512-8478
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

(1) Person with signatory authority

(2) Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
<p>Our Goal is to protect and support the landowners of Eagle County, our mission is to promote the preservation and restoration of the natural resources of the District through education, cooperation and initiation of practices that fulfil these goals.</p>

Last Update: August 3, 2017

Type of Eligible Entity (check one)	
X	Public (Government): municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
	Public (Districts): authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
	Private Incorporated: mutual ditch companies, homeowners associations, corporations
	Private Individuals, Partnerships, and Sole Proprietors: are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	Non-governmental organizations: broadly, any organization that is not part of the government
	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

Type of Water Activity (check one)	
	Study
X	Implementation

Category of Water Activity (check all that apply)		
	Nonconsumptive (Environmental)	
	Nonconsumptive (Recreational)	
X	Agricultural	
	Municipal/Industrial	
	Needs Assessment	
X	Education & Outreach	
	Other	Explain:

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Eagle County CO
Latitude	39.6469° N
Longitude	106.9517° W

Last Update: August 3, 2017

Water Activity Overview

Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, area of habitat improvements. If this project addresses multiple purposes or spans multiple basins, please explain. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.

Our water activity project is to order and install an additional CoAgMet (Colorado Agricultural Meteorological Station) on land centrally located in Eagle County for the benefit of the entire farming community and the general population.

A second station will vastly expand our network of data and how we can report for the upcoming growing seasons and irrigation trends. We are focused on the expansion of the information network these CoAgMet stations provide. We will use the data gathered from this second device to educate our community on how to improve their water use. The goal in collecting localized soil data in irrigated agricultural areas will help us provide information regarding plant pathology which can be used for prediction of disease outbreaks in high volume crops, and it can be used to provide irrigation scheduling recommendations.

This machine is in high demand and we plan to purchase another unit in March of 2018. The device is crucial in increasing the awareness of water use efficiency and the information gathered from the unit, such as soil and weather data, will make for better water use throughout our entire community, including for crop farming, private gardens, lawns, irrigation control and weed management.

Measurable Results

To catalog measurable results achieved with WSRF funds please provide any of the following values.

	New Storage Created (acre-feet)
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
	Existing Storage Preserved or Enhanced (acre-feet)
	Length of Stream Restored or Protected (linear feet)
X	Efficiency Savings (indicate acre-feet/year OR dollars/year)
	Area of Restored or Preserved Habitat (acres)
	Length of Pipe/Canal Built or Improved
	Other Explain:

Last Update: August 3, 2017

Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) ⁽¹⁾. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

This project will encourage better management of water use and therefore decrease water expenditures. Long term benefits include the collection of data, such as water use and soil data on various crops, and how producers determine actual irrigation needs. We are eager to report on the success of the workshop we plan to host in order to educate the community on how to access and use the data for improving irrigation practices. We are looking forward to providing the CWCB with regular progress reports to describe the status of our dual station project installation is complete.

(1) Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.

Last Update: August 3, 2017

Matching Requirements: Basin Account Requests	
Basin (only) Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3 rd party and shall be accompanied by a letter of commitment as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind)
Eagle County Conservation District	\$10,000
Total Match	\$10,000
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

Matching Requirements: Statewide Account Requests	
Statewide Account grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3 rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3 rd party) and shall be accompanied by a letter of commitment . Attach additional sheet if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
Total Match	\$
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	

Last Update: August 3, 2017

Related Studies

Please provide a list of any related studies, including if the water activity is complimentary to or assists in the implementation of other CWCB programs.

There are currently 75 existing stations in the state of Colorado. The majority of these stations have continued support from local Conservation Districts. The closest stations supported by other CDs are the Carbondale station, Mt Sopris CD and the Silt station, Bookcliffs Conservation District they have already seen incredible change in their water use since the install of CoAgMet units. Please find more measurable data at (<http://www.mountsopriscd.org/>). This CoAgMet Station program is also part of two Roundtable studies, The Yampa/White/Green River Roundtable and the North Platte Roundtable. Both studies are being used to develop better, more accurate crop coefficients for mountain grass hay. The hope with these studies is to have a more accurate estimate of the reference evapotranspiration and proper irrigation use.

Previous CWCB Grants

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order

Tax Payer Bill of Rights

The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

N/A



Last Update: May 19, 2017

Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A - Statement of Work</u>	
Date:	11/29/17
Water Activity Name:	CoAgMet Station #2
Grant Recipient:	Eagle County Conservation District
Funding Source:	WSRF and Eagle County
Water Activity Overview: (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for.)	
<p>The Eagle County Conservation Districts water conservation project is to expand the network of coverage in our community so we may provide accurate agricultural farming and irrigation data by purchasing an additional CoAgMet Station. (Colorado Agricultural Meteorological Station). We are focused on obtaining a second CoAgMet unit within our county for the benefit of the entire farming community and the general population. This device is crucial in increasing the awareness of water use efficiency and the information gathered from the unit, such as soil and weather data, will make for better water use throughout our entire community, including for crop farming, private gardens, lawns, irrigation control and weed management.</p> <p>The main goal of CoAgMET is to calculate evapotranspiration (ET) from meteorological measurements a standard CoAgMet station collects the elements needed to calculate this data. Having another station in our county will provide this incredibly valuable information to our landowners via a live online portal that reports and creates updates every 5 min so changes can be implemented right away. This will increase our user base and help to create a more productive process of all water use. In addition to the many incredible tools the CoAgMet device has to offer it features technology to gauge real time numbers on soil moisture levels and soil temperature. Having the temperature of the soil aids in knowing when the soil has warmed enough to plant and the moisture levels will aid in the instant improvement of irrigation practices.</p>	
Objectives: (List the objectives of the project)	



Last Update: May 19, 2017

To reserve and install a second CoAgMet Station from CSU Denver for a potential scheduled install of March 2018. This additional station will provide another powerful network of information regarding weather and crop water use data. It is our goal to utilize this data for better water use and irrigation scheduling. We are requesting \$10,000 towards the project. We will match the funds by covering the yearly \$2,000 fee, for the next 5 years for a total of \$10,000 to cover the cost of maintenance.

With the installation of this device we will be able to promote, protect, and develop our Colorado River Water resources by enhancing the efficiency of our water use and reduce over-irrigation. CoAgMet Station data will also be available to the public via our district website. Furthermore, the installation of a second Station in Eagle County would fill a much-needed void regarding opportunities for producers in all areas of Eagle County region to implement proper irrigation scheduling.

Tasks
Provide a detailed description of each task using the following format:
<u>Task 1 - CoAgMet Station #2 order</u>
Description of Task:
Our plan is to place the order for the second CoAgMet Station from the CSU Extension office in Fort Collins the total cost of the station includes the delivery and installation fees. We will then research the most ideal location and create a lease for use of Land to the Eagle County Conservation District for this purpose. A written contract between the landowner and the Conservation District has already been approved. This will allow us to coordinate the installation of the Station and allow for the maintenance of the unit. We are extremely excited to obtain a second device, for the level of highly useful information it provides will be uploaded to the CoAgMet website and will be readily available to landowners.
Method/Procedure:



Last Update: May 19, 2017

Tasks
Once the final installation is complete the Eagle County Conservation District will host a detailed workshop to educate the community on how to access and use the data to improve all irrigation practices. This will encourage better management of water use and therefore decrease water expenditures. Long term benefits include the collection of data, such as water use on various crops, and how producers determine actual irrigation needs.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Provide a report on the success of the workshop held to educate the community on how to access and use the data for improving irrigation practices. Provide reports of the factual data collected that improved the use of all water in the area. Provide the website and how it is used to share information with the public, not only regarding data from the Station but also educational information regarding workshops and how to access and utilize the data.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Please see deliverables above.

Tasks
Provide a detailed description of each task using the following format:
<u>Task 2 - Yearly Maintenance Fees</u>
Description of Task:



Last Update: May 19, 2017

Tasks
Provide matching funds for annual maintenance of station.
Method/Procedure: It will be our pleasure to coordinate the maintenance of the units for optimum performance of the stations data collection. This includes inspections of entire unit and its modems, as well as a sensor replacement program which is recommended to change out sensors every 2 years ... the total per year is \$2000 we will contribute this amount for the next 5 years for a total of \$10,000.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
To track and report the inspections of the unit and its modems, as well as any and all sensor replacements.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Create log book and keep records of all updates and replacements to insure optimum performance of the unit.

Repeat for Task 3, Task 4, Task 5, etc.

Budget and Schedule
Budget: This Statement of Work and Schedule shall be accompanied by a Budget that reflects the Tasks identified in the Statement of Work and Schedule and shall be submitted to CWCB in an excel format.



Last Update: May 19, 2017

Budget and Schedule

Schedule: This Statement of Work and Budget shall be accompanied by a Schedule that reflects the Tasks identified in the Statement of Work and Budget and shall be submitted to CWCB in an excel format.

Reporting Requirements

Reporting: The grantee shall provide their respective Roundtable(s) and the CWCB a Progress Report every 6 months, beginning from the date of executed contract. The Progress Report shall describe the status of the water activity, the completion or partial completion of the tasks identified in the Statement of Work including a description of any major issues that have occurred and any corrective action to address these issues. The CWCB may withhold reimbursement until satisfactory Progress Reports have been submitted.

Final Deliverable: At the completion of the water activity, the grantee shall provide their respective Roundtable(s) and the CWCB a final report on the grantee's letterhead that:

- Summarizes the water activity and how the water activity was completed
- Describes any obstacles encountered, and how these obstacles were overcome
- Explains the Proposed Budget versus the Actual Budget
- Confirms that all matching commitments have been fulfilled
- Includes photographs, summaries of meeting and engineering reports/design, if appropriate

The CWCB will withhold the last 10% of the entire water activity budget until the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

Last Update: May 19, 2017



COLORADO

Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

**Water Supply Reserve Fund
Exhibit A - BUDGET AND SCHEDULE**

Date: 11.29.17

Water Activity Name: CoAgMet Station Project

Grantee Name: Eagle County Conservation District

<u>Task No.</u>	<u>Description</u>	<u>Start Date</u> ⁽¹⁾	<u>End Date</u>	<u>Matching Funds</u> (cash & in-kind) ⁽²⁾	<u>WSRF Funds</u> (Basin & Statewide combined) ⁽²⁾	<u>Total</u>
<u>1</u>	CoAgMet Station #2 order	3/5/2018	5/1/2018		10,000	10,000
<u>2</u>	Yearly Maintenance Fees (\$2000 per year x 5 years)	3/5/2018	5/1/2018	10,000		10,000
Total				\$10,000	\$10,000	\$20,000

(1) Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.

(2) Round values up to the nearest hundred dollars.

Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal NTP if prior to the listed "Start Date"

CWCB will withhold the last 10% of the entire grant budget until the Final Report (Deliverable) is completed and accepted (2016 WSRF Criteria & Guidelines).

Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution