



COLORADO WATER CONSERVATION BOARD
WATER SUPPLY RESERVE ACCOUNT
APPLICATION FORM



Agricultural Economics and Water Resources: Methods, Metrics and Models – A Specialty Workshop

Name of Water Activity/Project

Colorado Water Institute

Name of Applicant

Dr. Perry E. Cabot
830 N. Main St., Suite 200
Pueblo, CO 81003

Amount from Statewide Account:

Amount from Basin Account(s):

Total WSRA Funds Requested:

\$9,746

\$9,746

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

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Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

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Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCBC). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCBC staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCBC website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Greg Johnson – WSRA Application
Colorado Water Conservation Board
1580 Logan Street, Suite 200
Denver, CO 80203
gregory.johnson@state.co.us

If you have questions or need additional assistance, please contact Greg Johnson at: 303-866-3441 x3249 or gregory.johnson@state.co.us.

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Part I. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Colorado Water Institute		
	Mailing address:	Colorado Water Institute E119 Engineering Bld. Fort Collins, CO 80523-2033		
	Taxpayer ID#:	846000545		
	Primary Contact:	Perry E. Cabot	Position/Title:	Water Res Specialist
	Email:	perry.cabot@colostate.edu		
	Phone Numbers:	Cell: (719) 334-2558	Office:	(719) 545-1845
	Alternate Contact:	Nancy Grice	Position/Title:	Assistant to Director
	Email:	Nancy.Grice@ColoState.EDU		
	Phone Numbers:	Cell:	Office:	(970) 491-6724

2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☒ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. 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 defined as any organization that is not part of the government.

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3. Provide a brief description of your organization

The project applicant is the **Colorado Water Institute (CWI)**. The CWI, an affiliate of Colorado State University, exists for the express purpose of focusing the water expertise of higher education on the evolving water concerns and problems being faced by Colorado citizens. The Colorado Water Institute (CWI) is authorized and funded by Congress and the Colorado Legislature. CWI is accountable to Congress via its annual appropriation, a required annual report, and a thorough congressionally mandated peer review conducted every five years under the auspices of the U.S. Geological Survey. Copies of CWI's Federal and State authorizing legislation are attached to the Annual Report PDF. CWI is operated, by law, as a state-wide water research institute, obligated to connect all water expertise in Colorado's higher education system with research and education needs of Colorado's water managers and users.

Collaboration on this project will be provided by **CSU Extension**, which provides office space and secretarial support to Dr. Cabot in Pueblo, CO. CSU Extension was originally authorized through the United States Congress by the Smith-Lever Act (1914) as the Cooperative Extension Service. The USDA's National Institute of Food and Agriculture (NIFA) administers supportive funding for Smith-Lever Act services (including Extension) under the auspices of state and county governments and each state's designated land-grant universities. Extension is a public educational entity for providing research-based outreach to solve problems and improve the lives of US citizens. More simply, *the purpose of Extension is to provide a link between the university and the citizens of the state*, and our philosophy is that the entire state is our campus, and its residents are our students. Extension in Colorado is headquartered at CSU, and our system of county offices also puts Extension resources within easy reach of Colorado's 64 counties. Examples of educational courses provided by CSU Extension include 4-H Youth Development, Healthwise for Life, and Value-Added Agriculture.

Colorado State University is a Public Institution of Higher Education and an 1862 land grant university.

4. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.
5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

☒ **XX**

The Applicant will be able to contract with the CWCB using the Standard Contract

☐

The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

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6. 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.

TABOR Issues. Taxpayer Bill of Rights (TABOR) issues are not anticipated to be relevant to these demonstration projects because the project will not affect governmental revenues or expenditures.

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Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☐ Nonconsumptive (Environmental or Recreational)

☐ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☒ Education

☐ Other

Explain:

2. If you feel this project addresses multiple purposes please explain.

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐ Study

☐ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

☒ Other – Explain: Number of workshop attendees; archived proceedings from event

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4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Latitude:

Longitude:

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

The project will convene a Specialty Workshop in Colorado Springs, CO to gather experts on the subject of Agricultural Economics and Water Resources. The venue for the Workshop will most likely be at the University of Colorado in Colorado Springs. Experts will be paid travel expenses and an honorarium for their participation. Particular attention will be paid to the presentation of methods, metrics, and models for valuing agriculture and its relationship to water supplies, both consumptive and non-consumptive.

The Specialty Workshop will be formal in nature. The Colorado Water Institute will research prominent experts in the field of Agricultural and Resource Economics. The most notable of these experts will be invited on the basis of their interest and potential contribution to an “informed dialogue” on the manner by which agriculture can be assessed in terms of its value within a basin-wide, regional, or state economy.

The two basic groups of questions to be considered at the workshop are:

1. How do we talk about the economics of agriculture? Is there a conventional dialogue that can be used to maintain an informed discussion on this subject? What are the available metrics and methods that exist in the body of research on this topic?
2. How do we translate metrics and methods into a model that relates agriculture’s value to larger statewide economy? How do these metrics and methods help us understand the economic relationship between agriculture and water resources?

The Specialty Workshop will be moderated by faculty at the Colorado State University Department of Agricultural and Resource Economics (Prof. James Pritchett and/or Prof. Chris Goemans). A moderated “long-panel” format is suggested for the workshop. The program structure will be designed to maximize interaction with the panelists. The project deliverable will be a Proceedings Document available from the Colorado Water Institute in *.pdf format. The event is expected to be presented in June of 2013.

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Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

- a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

This project will in not affect or injure water rights. Pilot project collaborators and future participants are workshop attendees.

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRTs evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

See attached letter dated January 16, 2013 from Roundtable Chairperson Gary Barber.

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

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- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

See attached letter dated January 16, 2013 from Roundtable Chairperson Gary Barber.

- d) Matching Requirement: For requests from the Statewide Fund, the applicants is required to demonstrate a **20 percent** (or greater) match of the request from the Statewide Account. Statewide requests must also include a minimum match of **5 percent** of the total grant amount from Basin Funds. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the application was submitted to the CWCB. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

See Budget Table 1 above. Salary matching is provided from Colorado State University for Dr. Perry Cabot and Prof. James Pritchett to assist with coordinating and facilitating the event.

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

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2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.
- j. The water activity is complimentary to or assists in the implementation of other CWCB programs.

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Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary.

No funding is sought from Statewide Account.

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Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

The project will partner with statewide print media suppliers, radio stations, irrigators, conservancy districts and municipal water suppliers to advertise the event. It will focus only on the assessment of water's value. No supply source or body of water will be affected in the course of this project.

2. Please provide a brief narrative of any related studies or permitting issues.

Specialty workshops are common in many of the sciences. This particular workshop will be coordinated in part with the Agricultural & Applied Economics Association (AAEA). The AAEA (www.aaea.org) is a not-for-profit association serving the professional interests of members working in agricultural and broadly related fields of applied economics. Members of the AAEA are employed by academic or government institutions, as well as in industry and not-for-profit organizations, and engage in a variety of teaching, research, and extension/outreach activities. Their work addresses a broad range of topics such as the economics of agriculture, international and rural development, resources and the environment, food and consumer issues, and agribusiness.

3. Statement of Work, Detailed Budget, and Project Schedule

Table 1. Detailed Budget

Category	Year 1 - 2013	Total
LABOR COSTS		
Colorado Water Institute Assistant	\$ 400	
TRAVEL EXPENSES (for Speakers) - 8	\$ 4,075	\$ 4,075
HONORARIUM (for Speakers) - \$350	\$ 2,800	\$ 2,800
FACILITY RENTAL (UC-CS)	\$ 1,200	\$ 1,200
OTHER DIRECT COSTS	\$ 0	\$ 0
TOTAL COSTS:	\$ 8,475	\$ 8,475
INDIRECT COSTS (15% Negotiated Rate)	\$ 1,271	\$ 1,271
TOTAL WSRA FUNDING REQUEST:	\$ 9,746	\$ 9,746
Matching Funds (Colorado Water Institute)		
Perry Cabot (Salary + Fringe)		
James Pritchett (Salary + Fringe)		
TOTAL MATCHING FUNDS	\$ 2,154	
Matching Fund Rate	22%	

Project Schedule. The event is expected to be presented in June of 2013. Planning and coordination between Dr. Cabot and Prof. Pritchett will begin in March 2013. A student assistant from the CWI will also be assigned in March 2013. An internet web presence of the workshop and call for presenters will commence in early April 2013 in order to seek the best available experts for the event. Planning

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will continue between April 2013 and June 2013 in coordination with Andreanna Romero from the University of Colorado – Colorado Springs Facilities Planning.

TASK 1 – Organization and Presentation of Specialty Workshop (\$9,746)

Description of Task. a Specialty Workshop in Colorado Springs, CO to gather experts on the subject of Agricultural Economics and Water Resources. Particular attention will be paid to the presentation of methods, metrics, and models for valuing agriculture and its relationship to water supplies, both consumptive and non-consumptive. The Colorado Water Institute will research prominent experts in the field of Agricultural and Resource Economics. The most notable of these experts will be invited on the basis of their interest and potential contribution to an “informed dialogue” on the manner by which agriculture can be assessed in terms of its value within a basin-wide, regional, or state economy.

Method/Procedure. The venue for the Workshop will most likely be at the University of Colorado in Colorado Springs. Experts will be paid travel expenses and an honorarium for their participation. The Specialty Workshop will be moderated by faculty at the Colorado State University Department of Agricultural and Resource Economics (Prof. James Pritchett and/or Prof. Chris Goemans). A moderated “long-panel” format is suggested for the workshop. The program structure will be designed to maximize interaction with the panelists.

Deliverable. The project deliverable will be a Proceedings Document available from the Colorado Water Institute in *.pdf format. The event is expected to be presented in June of 2013. The PI is also investigating the potential to create a video proceedings of the event.