



ATTACHMENT 11

PROGRAM PREFERENCES



COSUMNES, AMERICAN, BEAR & YUBA RIVER
INTEGRATED REGIONAL WATER MANAGEMENT

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<p>Regional projects or programs</p>	<ul style="list-style-type: none">• Systematic outreach and coordination across the entire CABY region The CABY Planning Committee initiated the High-Priority Water Use Efficiency, Conservation, and Reliability Program in 2008 specifically as a regional outreach and project development activity. This program has been implemented at a regional level in two ways: 1) through outreach and, 2) through the development of pilot projects within three of the four CABY watersheds representing a diverse spectrum of rural infrastructure systems. • Focus on rural and disadvantaged communities in CABY region As part of this program, rural and disadvantaged water agencies and purveyors across the region were systematically identified and contacted. These outreach activities included meeting with agency and purveyors' staffs and boards, performing preliminary needs assessments for each entity, developing an overview of each system and its components and performance characteristics, confirming DAC and/or rural status, substantial direct technical assistance in the identification and development of infrastructure and planning needs, and assessing the capacity of the entity to participate in the project development and implementation process. <p>As a result of this regional outreach, two tiers of entities were identified: 1) those that had identified projects and sufficient organizational capacity to participate in detailed project development and, 2) those who were not yet ready to participate in project development due to lack of identified projects or insufficient capacity. CABY dedicated considerable staff time and energy</p>
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	<p>to assist project development in the second tier resulting in the initiation of 12 of the 16 projects in this proposal.</p> <ul style="list-style-type: none">• Outreach and project exportability throughout the CABY region and the Sierra Nevada <p>To ensure maximum regional benefit as a result of implementation of projects within small and disadvantaged communities, the developed project materials will serve as templates for project development in additional rural, disadvantaged communities across the CABY and Sierra Nevada region. Integrated drought and conservation plan strategies, methods, techniques, and materials resulting from this project will be made available to all appropriate entities within the CABY region, but will also be systematically exported to all of the other Sierra IRWMPs for their use in developing infrastructure system efficiency, conservation, and reliability projects.</p> <p>The introduction of professionally engineered and designed specifications, the development of water system assessment tools, and the creation of systematic work plans and budget templates will enable ongoing outreach and project development to rural and DAC communities across the CABY region. This program has resulted in an increased capacity across the region to identify and develop infrastructure projects, as well as an enhanced capacity to perform long-range drought and water conservation planning.</p> <ul style="list-style-type: none">• Increase region-wide protection of rivers and streams through the CABY Water Trust <p>The project's primary contributions will be ensuring long-term protection through systematic water acquisitions or shorter terms benefits through leasing of water fostering supportive policies, building capacity, facilitating</p>
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	<p>stewardship, and advancing restoration across the CABY region. Measuring and capturing the success of environmental water acquisitions is essential to building momentum for achieving broader regional and statewide support and funding for future projects.</p>
<p>Integrate water management programs/projects within hydrologic region (CA Water Plan, RWQCB, etc)</p>	<ul style="list-style-type: none"> • Develop Best Management Practices manual to be utilized in the Mountain Counties/Central Valley hydrologic regions and neighboring hydrologic regions, including: Sacramento River; San Joaquin River and, North Lahontan. <p>As discussed above, the program that has generated all but one of the projects in this proposal was designed specifically with the goal of exporting project methodologies, designs, specifications, and materials to other similar entities within the foothill and Sierra regions of the state. The development of a manual that describes the processes and Best Management Practices necessary to develop viable infrastructure and planning projects for rural and disadvantaged communities is an identified product of this proposal. Water conservation and system reliability and efficiency with a goal of reducing water wastage and ensuring the long-term viability of rural and disadvantaged water systems is consistent with all of the relevant hydrologic region plans.</p>
<p>Resolve significant water-related conflicts within or between regions</p>	<ul style="list-style-type: none"> • Increase water conservation and efficiency to meet local and regional water supply demand <p>By increasing the reliability and efficiency of existing systems and enabling these systems to engage in long-range waste reduction, conservation and planning, we are addressing a perceived long-term conflict in the region, ensuring reliable provisions of water to rural and remote communities while meeting the water supply and delivery demands of the larger water agencies on which these rural entities rely.</p>

	<ul style="list-style-type: none"> • Enhance cooperation between and among water agencies, environmental groups and willing water rights holders <p>The CABY Water Trust provides a market-based framework to proactively address the existing pressure on the water supply that can place human consumptive needs in conflict with the ecological health of streams and rivers. By taking a voluntary, non-regulatory approach that economically benefits willing water rights holders, the CABY Water Trust establishes a new level of cooperation between and among water agencies, environmental groups and individual water rights holders that has regional and statewide implications.</p>
<p>Contribute to objectives of CALFED Bay-Delta Program</p>	<p style="text-align: center;"><i>Consistency with CALFED Bay-Delta Program Objectives</i></p> <p>The CABY goals, objectives and project development support three critical aspects of the CALFED Bay-Delta Program Objectives: Water Quality, Water Supply and Ecosystem Restoration.</p> <p>Water Quality: By replacing decrepit water storage and delivery systems, the projects will minimize water quality safety concerns associated with these antiquated systems.</p> <p>Water Supply: The water delivery systems of the project communities are vulnerable to system performance problems as a result of substandard infrastructure. Infrastructural upgrades and improved planning efforts will help these disadvantaged and rural communities to proactively identify and address system vulnerabilities, while increasing reliability and reducing substantial water wastage. These improvements will thereby build these communities' capacity to meet their water supply needs while increasing the efficiency of the regional and statewide water delivery systems.</p> <p>Additionally, in the face of climate change the CABY Water Trust will</p>

	<p>increase systemic flexibility and resiliency by exporting water at critical times without compromising the ability of the region to serve its growing population.</p> <p><i>Ecosystem Restoration:</i> While the CABY region is not contiguous with the Delta, the efforts at improving water quality and supply that occur in region will have far reaching effects. For example, greater water conservation and water rights acquisitions through the CABY Water Trust could provide fish habitat restoration to ensure that anadromous fish that pass through the Delta have dedicated in-stream flows that not only provide habitat at the base of rivers and streams that are blocked by dams, but also in the low-elevation headwater creeks of the western CABY region, which have supported sustainable populations of salmon and trout.</p>
<p>DAC water supply or quality issues</p>	<ul style="list-style-type: none"> • Build the capacity of DAC and rural communities through CABY integrated regional planning efforts <p>As discussed above (under Regional Projects and Programs), the CABY high-priority program focus for 2009 and 2010 was the development of infrastructure and conservation planning specifically targeted at disadvantaged and rural communities across the region. Initial interviews with identified disadvantaged communities clarified that the lack of institutional capacity to assess system needs, identify infrastructure solutions, develop design and engineering specifications, and implement infrastructural improvements were constrained and, in several cases, a severe impediment to participation in the CABY project development process. As a result, the CABY Planning Committee directed staff to provide a comprehensive technical assistance to the identified communities to ensure their ability to fully participate in the Proposition 84 bond funding opportunity. CABY staff also provided inter-organizational</p>

	<p>coordination and idea exchange to enhance the individual solutions for each entity. With the exception of Colfax, the disadvantaged and rural communities that are part of the proposal would not have had the ability to develop projects to a sufficient level of detail to meet the requirements of Prop 84 IRWM funding.</p>
<p>SWFM</p>	<p>Not applicable.</p>
<p>State-wide priorities</p>	<ul style="list-style-type: none"> • The critical importance of Mountain Counties Area watersheds to statewide water supply Although the Mountain Counties hydrologic region only comprise about 10% of the total land mass and a mere 2% of the state’s population, the CABY region’s impact on the state’s water supply cannot be overstated. This hydrologic region contributes over 60% of California’s domestic water supply. Therefore, the management of the region’s watersheds and the infrastructure of the water delivery system play a major role in the well being of all Californians. These disadvantaged communities’ make a disproportionate contribution to the state’s water supply demands while struggling to provide a safe and efficient water delivery and storage system for local residents and visitors. This project addresses statewide priorities by improving the infrastructure for water delivery and storage while significantly enhancing water conservation measures through leak detection and repair, water meter installation, and through market-based incentives to reallocate conserved water for in-stream benefits.
<p>Drought Preparedness</p>	<ul style="list-style-type: none"> • Focus on drought preparedness using two integrated strategies As discussed above under Regional Projects and Programs, the entire focus of this proposal is on drought preparedness using two integrated strategies: 1) infrastructure system efficiency, reliability and conservation and, 2)

	<p>preparation of integrated drought and water conservation plans, which include a drought action plan, revision of institutional capital improvement plans to integrate drought preparedness-related infrastructure, and the institution of community-wide consumer-oriented water conservation activities and support. All of the rural and disadvantaged community systems included in this proposal have sub-standard and in some cases functionally obsolete components that contribute to substantial water loss within in each system. Further, these jurisdictions have extremely limited capacity to assess their system’s capacity to provide for basic water needs during periods of low flow or chronic drought.</p> <p>The infrastructure improvements and long-range planning will result in immediate water savings and conservation as well as system efficiency. The long-range drought and conservation planning will enable each jurisdiction to proactively prepare for predicted water supply impacts of climate change. Finally, the documents prepared in support of the long-range planning tasks will be readily exportable to other rural and disadvantaged jurisdictions within CABY and across the Sierra region, directly enhancing and building the capacity of water suppliers who would otherwise be unable to engage in such long-range planning.</p> <p>The CABY Planning Committee was committed to addressing not only municipal water needs but also to addressing environmental water requirements. The CABY Water Trust is a pioneering project in the region that seeks to connect willing water rights holders with the extensive CABY region water distribution infrastructure to assure that beneficial instream flows exist during periods of low flow or extended drought.</p>
<p>Efficient Water Use/Reuse</p>	<p>All of the infrastructure improvements that are part of this proposal are specifically aimed at increasing system efficiency, reducing water wastage,</p>

	<p>and increasing reliability. In three of the four rural communities and all of the disadvantaged communities, much of the infrastructure dates from the mid- to late-1800s.</p>
<p style="text-align: center;">Climate Change Response Action</p>	<ul style="list-style-type: none"> • Demonstrated leadership in climate change planning efforts <p>As part of its planning activities over 2009 and 2010, CABY has developed the institutional capacity, in collaboration with UC San Diego, to develop detailed climate change projections based on the six state-approved climate change models. While this capacity will be greatly enhanced during the update of the CABY IRWMP and was part of the detailed work plan for that grant, preliminary calculations have been prepared and will serve as a basis for the Drought Action Plan included in each integrated drought and water conservation plan activity. CABY is noted for being a leader in the Sierra with respect to climate change and its integration of climate change calculations into the long-range planning associated with this proposal will further advance CABY's efforts. The one-of-a-kind modeling effort accomplished by CABY during preparation of its existing IRWMP will be expanded concurrent with the Drought Action Plan preparation; therefore, the results of expanded and enhanced (and DWR-approved) WEAP modeling will be available to inform long-range planning efforts.</p> <p>Two major water agencies that serve project sponsors in this proposal will be working actively to expand and refine the capacity of both their jurisdiction and CABY member capacity to characterize and prepare for future changes resulting from climate variability. The CABY Water Trust project will also benefit from these climate change calculations and will include, as appropriate, the outcomes of the Drought Action Plans in the development of the Water Trust methodology.</p>
<p style="text-align: center;">Expand Environmental Stewardship</p>	<ul style="list-style-type: none"> • Incentivize water conservation through infrastructure enhancements and create a mechanism for the creation of a model water trust

	<p>The CABY Water Trust Project will serve two important functions: 1) it will establish a mechanism for dedicating water rights to beneficial in-stream uses and 2) it will serve as an exportable model to the rest of the state. Modeled on extremely successful water trust organizations in Oregon, Washington, and Colorado, the CABY Water Trust will, for the first time, provide a proven and reliable method for willing water rights holders to dedicate both short- and long-term water allocations to beneficial in-stream uses. This capability increases in importance in the context of predicted climate changes.</p> <p>Additionally, the infrastructural improvements such as the installation of water meters will incentivize water conservation efforts in project communities leading to expanded environmental stewardship.</p>
<p>Practice Integrated Flood Management</p>	<p>Not Applicable</p>
<p>Protect Water Quality</p>	<p>One of the projects in the severely disadvantaged community of Washington involves a water system that is extremely susceptible to bacterial contamination due to fluctuating and inadequate water pressure in the lines. The improvements proposed as part of this project for this community will materially affect the health-related impacts associated with ground and surface water intrusion.</p>
<p>Improve Tribal Water and Natural Resources</p>	<ul style="list-style-type: none"> • Ecological and cultural benefits of the CABY Water Trust <p>Re-allocation of water rights for in-stream flows has the potential to restore anadromous fisheries, a totemic species and invaluable protein source for native peoples of the CABY region. In recent years, the local Maidu tribes have reinstated a centuries old ceremony Calling Back the Salmon to advocate for the return of salmon to their ancestral waters in the Yuba watershed.</p>
<p>Equitable Distribution of Benefits</p>	<p>The CABY project development process intentionally and specifically</p>

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	<p>sought to identify and collaborate with small, rural, and/or disadvantaged communities across the region. This proposal includes projects located in three of the four CABY watersheds, as well as communities ranging in population from 122 to 3,000. See Regional Projects and Programs and DAC Water Supply and Water Quality (above) for CABY's strategy for ensuring equitable distribution of benefits, both geographically and economically.</p>
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