Upper Feather River Integrated Regional Water Management (IRWM) Plan Performance Annual Report Years 2016-2021

Plan Performance is evaluated in terms of the Plan-level benefits (UFR IRWM Plan, Chapter 10 *Impacts and Benefits*), the Plan objectives (UFR IRWM Plan, Chapter 5 *Goals and Objectives*), and additional measures described in this Annual Report.

Each project approved under the IRWM Plan addresses at least one of the Plan objectives. Plan Performance in terms of those objectives depends largely on the success of individual projects.

The following table presents the 5 Plan-level benefits, 18 Plan objectives, and 6 additional measures by which the IRWM Plan Performance are assessed along with metrics to quantify success and a summary of accomplishments during the reporting period (2016 through 2021).

Many IRWM Plan Performance measures are assessed using metrics defined for individual projects (project-specific criteria) that cannot be defined at the Plan level. Other measures are assessed in terms of the number and variety of projects approved under the Plan (project selection). Finally, some measures are quantified directly, such as local and regional planning agency efforts, number of public outreach programs, tracking attendance and participation in public meetings, public opinion surveys, cooperation and workload sharing among agencies, and the amount of grant funding obtained.

The Annual Report to the RWMG on Plan Performance summarizes progress made in the preceding years in terms of each of the 29 measures in the table below.

PE	RFORMANCE MEASURE	METRICS	REPORTING
Pla	nn-level Benefits		Years 2016 - 2021
1.	Fostering understanding and information sharing within the Region	Conduct RWMG public meetings Update Featherriver.org website Data Management Standard	 Hosted 9 RWMG public meetings (quarterly) Provided 3 semiannual reports in 2020 and 2021 in lieu of public meetings, due to COVID-19 pandemic Updated and maintained the website
		Determine qualitative perceptions of participating stakeholders	 Participated in the Sierra Valley Groundwater Sustainability Plan project Participated in IRWM Roundtable of Regions quarterly stakeholder meetings and Disadvantaged Community Involvement TAC meetings Coordinated with the IRWM Roundtable of Regions to develop a UFR Region Fact Sheet, which was posted on the featherriver.org website, distributed to stakeholders, and shared with the State legislature
2.	Opportunities to collaborate on project development and solving regional issues	Coordinate with stakeholder agencies (including staff) Involve the public in project selection Involve DACs and Tribal representatives	 Regular email updates and quarterly reports sent to stakeholders Prop 1 IRWM Implementation Grant Round 1 project selection at July 2019 RWMG public meeting Prop 1 IRWM Grant Round 1 application preparation and subsequent award for two implementation projects within the region Participated in the Sierra Valley Groundwater Sustainability Plan project Outreach to DACs and Tribes through the Prop 1 Disadvantaged Communities and Tribal Project Participated in IRWM Roundtable of Regions quarterly stakeholder meetings and Disadvantaged Community Involvement TAC meetings
3.	Identification of diverse funding sources	Track the number and diversity of successful grant applications Assemble and disseminate lists of grant opportunities targeted to various stakeholder groups	 Prop 1 IRWM Implementation Grant Round 1 – funding award for 2 water supply and storage projects (\$1,002,536) Regular distribution of grant opportunities to stakeholder distribution lists Participated in IRWM Roundtable of Regions quarterly stakeholder meetings and Disadvantaged Community Involvement TAC meetings

PERFORMANCE MEASURE	METRICS	REPORTING
Plan-level Benefits		Years 2016 - 2021
4. Capacity building	Coordinate with stakeholder agencies, including staff (organizational capacity-building trainings) Contact UC Davis Extension – Agriculture, NRCS, and other programs to provide funding and assistance to private land owners Improve efficiency and reduce redundancy	 Coordinated with SNC staff regarding grant writing workshops Coordinated with Plumas County Environmental Health regarding potential funding opportunities through SB 200 and AB 1688 DACI Technical Assistant Grant project – Plumas County Environmental Health developed a Water Shortage Preparedness and Contingency Plan as a pilot project for the region Participated in the Sierra Valley Groundwater Sustainability Plan project
5. Venue to address policy- related and regulatory processes	Conduct RWMG public meetings Update Featherriver.org website Evaluate Plan Performance annually	 9 RWMG public meetings (quarterly) and 3 quarterly reports distributed to stakeholders Maintained an updated website Maintained an updated contact list of stakeholders in the region Annual Plan Performance Report, January 2022 (covering 2017-2021)
Plan Objectives		
Restore natural hydrologic functions	Implement 3 Plan projects that restore natural hydrologic functions Update the project list and technical and scientific studies at the annual RWMG meeting	 The project list has been updated three times since the Plan's adoption in 2016 Open project solicitation posted on website; new projects reviewed at next RWMG meeting Participated in the Sierra Valley Groundwater Sustainability Plan project

PERFORMANCE MEASURE	METRICS	REPORTING
Plan-level Benefits		Years 2016 - 2021
Reduce potential for catastrophic wildland fires in the Region	Implement 3 Plan projects that reduce catastrophic wildfire potential Update the project list and technical/scientific studies at the annual RWMG meeting	 The Plumas County Fire Safe Council implements hazardous fuels reduction projects throughout the County including, but not limited to, the Senior/Disabled Defensible Space Assistance Program, Community Chipping Program, Greenhorn Hazardous Fuel Reduction (149 acres), Lakes Basin Forest Health (1,542 acres), Plumas Collaborative Forest Health Project (4,988 acres since 2019), Quincy Wildfire Protection Project (151 acres), and Mohawk Valley Project (Firewise community).
		 Plumas Underburn Cooperative is a volunteer-based group of individuals who share skills, time, and equipment to help community members burn green waste.
		 Biomass Working Group is a committee of the Plumas County Fire Safe Council that is exploring options for green waste disposal for Plumas County residents.
		 The Feather River Resource Conservation District is leading The Emergency Forest Restoration Team (EFoRT) that will provide assistance to landowners impacted by the North Complex (2020), Beckwourth Complex (2021), and Dixie (2021) fires.
		 In June 2016 the Sierra Nevada Conservancy awarded \$465,500 to complete approximately 500 acres of forest fuels thinning on National Forest lands around Lake Davis and Round Valley Reservoir. This municipal water source protection and enhancement project benefiting the areas around like Lake Davis, within the Grizzly Creek watershed, is particularly beneficial as Lake Davis is the primary water source for the city of Portola.
		 In June 2018 the Sierra Nevada Conservancy awarded \$500,000 to treat 455 acres. The Butterfly Twain Fuels and Forest Health Project is part of a comprehensive large-scale forest restoration project at the headwaters of the Upper Feather River Watershed affecting water quality and availability for the SWP.
		Two water supply and storage projects have been awarded funding through the DWR Prop 1 Round 1 funding opportunity (\$1,002,536)
		The project list has been updated three times since the Plan's adoption in 2016

PE	RFORMANCE MEASURE	METRICS	REPORTING
Pla	an-level Benefits		Years 2016 - 2021
3.	Balance the needs of forest health, habitat preservation, fuels reduction, forest fire prevention, and economic activity in the Region	Continue to support the integration of biomass electrical generation biofuels development with 1) forest and habitat conservation in US Forest Service (USFS) plan updates, 2) in the carbon sequestration and conservation plan for forests (CA Air Resources Board [ARB]), and 3) by implementing projects UF-12 and TAC-6	11 letters of support for wildfire resilience related projects implementing and/or supporting objectives of the UFR IRWM Plan have been provided
4.	Build communication and collaboration among water resources stakeholders in the Region	Continue MOU development with water and land management entities in the Region Develop a process for supporting and endorsing collaborative projects, studies, and actions sponsored by MOU signatories Develop a review process for monitoring information and needs Develop a process for updates on conflicts identified in the Plan during public meetings, on the featherriver.org website, and through Inter-agency coordination/consultation	 3 new organizations and agencies have signed the MOU since the initial 2016 adoption of the IRWM Plan 11 letters of support for projects implementing and/or supporting objectives of the UFR IRWM Plan have been provided Proposition 50 IRWM project post performance reports coordinated and posted on the website; final reports submitted in 2021 Participated in development of the Sierra Valley Groundwater Sustainability Plan project Coordinated with the IRWM Roundtable of Regions to develop a UFR Region Fact Sheet, which was posted on the featherriver.org website, distributed to stakeholders, and shared with the State legislature

PE	RFORMANCE MEASURE	METRICS	REPORTING
Pla	an-level Benefits		Years 2016 - 2021
5.	Work with DWR to develop strategies and actions for the management, operation, and control of State Water Project (SWP) facilities in the watershed in order to increase water supply and recreational and environmental benefits to the Region	Review proposals and management planning for lands, habitat, and cultural/historical resources within and downstream from SWP facilities in the watershed May develop an informational item that updates inter-agency and interregional planning efforts at a specific RWMG meeting every year	 SWP reservoirs that are operated for water supply, recreation, and flood control in Plumas County include Frenchman Reservoir, Lake Davis, and Antelope Reservoir Participated in the Sierra Valley Groundwater Sustainability Plan project
6.	Encourage municipal service providers to participate in regional water management actions that improve water supply and water quality	Get involved in inter-agency, intra- regional planning efforts Participate in project selection Develop project-specific criteria	 Prop 1 IRWM Implementation Grant Round 1 grant award benefits two municipal service providers: Indian Valley CSD and Sierraville PUD RWMG Coordinator assisted municipal service providers to develop project-specific criteria for grant applications Distribution of funding opportunities to municipal service providers in the region

	RFORMANCE MEASURE	METRICS	REPORTING
Pla	nn-level Benefits		Years 2016 - 2021
7.	Continue to actively engage in Federal Energy Regulatory Commission (FERC) relicensing of hydroelectric facilities in the Region	Obtain an annual progress report from FERC regarding its implementation of hydroelectric license conditions as scheduled for FERC No. 2100, 2107, 699, 2105	 Annual progress reports for FERC License No. 2107 (Poe), 1962 (Rock Creek-Cresta), 619 (Bucks Creek), and 2105 (Upper North Fork Feather River) were obtained
		Obtain a 'letter of intent' from FERC on fish and amphibian passage improvements, wildfire recovery projects, the James Lee and Indian Jim visitors and outdoor recreation and education and events center, the Rock Creek Bench river access project, and the accidental spill response plans. These are implementation priorities for water stakeholders in the North Fork Feather River Canyon	
8.	of municipal service providers	Determine Plan-level efforts of participating entities	Successful IRWM Prop 1 Round 1 grant award (\$1,002,536) to support the DAC communities of Sierraville (SPUD) and Greenville (IVCSD)
	to serve customers	Obtain outside funding	Successful reprogramming and completion of Prop 50 grant funds to support
		Review efforts by regional and local planning agencies	municipal service providers serving DAC communities (Greenville, Taylorsville, Quincy)
		. 3 3	 Coordinating with Plumas County Environmental Health to leverage efforts and funds to position and pursue SB 200 and AB 1688 funding
			DACI Technical Assistant Grant project – Plumas County Environmental Health developed a Water Shortage Preparedness and Contingency Plan pilot project for replication within the region

PE	RFORMANCE MEASURE	METRICS	REPORTING
Pla	an-level Benefits		Years 2016 - 202 1
9.	Protect, restore, and enhance the quality of surface and groundwater resources for all beneficial uses, consistent with the Basin Plan	Implement 2-3 Plan projects that address surface and groundwater resource conservation and quality	 Supported the SVGMD successful application for Prop 68 funding to prepare a Sierra Valley GSP, an implementation project included in the UFR IRWM Plan (\$2m) Participation in Sierra Valley GSP TAC team meetings
10.	Address water resources and wastewater needs of	Implement 4 Tribal benefit and 17 DAC benefit Plan projects	 2 water supply and storage projects benefitting DACs awarded grant funds through Prop 1 IRWM Implementation Grant Round 1
	Disadvantaged Communities (DACs) and Native Americans	Update the DAC water needs inventory every five years, or as needed by the RWMG	 Successful reprogramming and completion of Prop 50 grant funds to support water and wastewater projects in the DAC communities of Greenville, Taylorsville and Quincy
			 1 groundwater sustainability plan project for the Sierra Valley Subbasin benefitting Tribal and DACs completed through Prop 68 grant
			 A UFR Region DAC Water and Wastewater Needs Assessment and Community Needs Assessment was prepared by Sierra Institute funded by the Prop 1 DAC Involvement grant
11.	Coordinate management of recharge areas and protect groundwater resources	Implement 3 Plan projects that include recharge area and groundwater conservation efforts Assess whether inter-agency, intraregional planning efforts include implementation of the region-wide LIDAR project (UF-13)	Supported the SVGMD successful application for Prop 68 funding to prepare a Sierra Valley GSP, an implementation project included in the UFR IRWM Plan (\$2m)

PERFORMANCE MEASURE	METRICS	REPORTING
Plan-level Benefits		Years 2016 - 2021
12. Improve coordination of land use and water resources planning	Incorporate the UFR IRWM Plan into updates of land, water, and natural resource planning for the three national forests in the Region Submit the UFR IRWM Plan as a planning reference for the Plumas, Lassen, and Tahoe National Forest Land and Resource Management Plan updates Support efforts by regional and local entities to participate in ARB's carbon sequestration and conservation plan for forest and agricultural landscapes Integrate TEK into USFS, ARB, and State Water Resources Control Board (SWRCB) plans Provide resource management strategy recommendations developed by the IRWM Plan workgroups for the next update of the California Water Plan	 The UFR IRWM Plan was incorporated into the 2020 Update to the Plumas County Local Hazard Mitigation Plan (LHMP) through data and information from the hazard profiles. The IRWM Plan concluded that within the UFR Plan area, wildfire, flooding, drought, and infrastructure failures are the primary water-related hazards and that the highest fuel hazard is along the Feather River Canyon. For example, IRWM Plan Objective 1, restore natural hydrologic functions, discusses reducing peak flood intensities that support potential benefits of reduced costs for flood damage repair; IRWM Plan Objective 2, reduce potential for catastrophic wildland fires in the region, seeks to implement projects that reduce forest fuels; and IRWM Plan Objective 11, coordinate management of recharge areas and protect groundwater resources, supports and offers strategies for the protection and monitoring of groundwater recharge areas for improving drought control and preparedness within the watershed. Submitted the UFR IRWM Plan to the Plumas, Lassen, and Tahoe national forests as a planning reference Plumas County supports participation in ARB's carbon sequestration and conservation plan for forest and agricultural landscapes Awareness and improved coordination with the Maidu Summit Consortium regarding TEK (Traditional Ecological Knowledge) and school watershed educational programming Plumas County Coordinating Council (PCCC) met to coordinate the plans, policies, and priorities concerning land use and water resource planning in Plumas County with those of federal and state agencies, particularly the United States Forest Service
13. Maximize agricultural, environmental and municipal water use efficiency	Implement 2-3 Plan projects that address water use efficiencies	 Bachand, P.A.M., Burt, K.S., Carlton, S. and Bachand, S.M., 2020. Sierra Valley, CA–A white paper on the opportunities and challenges for management of groundwater under SGMA Bachand, P.A.M. and Burt, K.S. and Carlton, S. and Bachand, S.M. 2020. Groundwater relationships to pumping, precipitation and geology in high-elevation basin, Sierra Valley, CA. Davis, CA, Bachand & Associates, 58pp

PERFORMANCE		METRICS	REPORTING
Plan-level Benef	fits		Years 2016 - 2021
14. Effectively add change adapta mitigation in v management		Implement 3-4 Plan projects that address GHG reductions, and climate adaptation and mitigation in water and watershed management Update the project list and technical and scientific studies at the annual RWMG meeting	 Successful grant application and funding award for two water supply and storage projects under Prop 1 Round 1, both of which address climate adaptation and mitigation (\$1,002,536): SPUD and IVCSD The project list has been updated three times since the Plan's adoption in 2016, all projects address climate adaptation and mitigation
15. Improve efficient reliability of worker water-resinfrastructure	ater supply and	Implement 2-3 Plan projects that address water use efficiencies	 Successful grant application and funding award for two water supply and storage projects under Prop 1 Round 1 (\$1,002,536): SPUD and IVCSD
16. Enhance publi and understan management needs	nding of water	Implement 4 Plan projects that enhance public awareness and public education about water issues and needs Update the project list and technical and scientific studies at the annual RWMG meeting Support MOU signatory proposals for public outreach/education, public workshops and meetings, and water and watershed education in school programs	 9 RWMG public meetings (quarterly) and 3 quarterly reports distributed to stakeholders Maintain an updated website Maintain an updated contact list of stakeholders in the region Annual Plan Performance Report, June 2021 (covering 2017-2020) Two special districts were awarded Prop 1 Round 1 funding for water storage projects, both of which will address water supply needs of customers (DACs) Coordinated with the IRWM Roundtable of Regions to develop a UFR Region Fact Sheet, which was posted on the featherriver.org website, distributed to stakeholders, and shared with the State legislature
17. Address econo of agricultural		Encourage agricultural producers to participate in potential funding opportunities through IRWM and other sources Obtain outside funding	 Provided a letter of support for the SVGMD application for Prop 68 funding to prepare a Sierra Valley GSP, an implementation project included in the UFR IRWM Plan Participation in Sierra Valley GSP TAC team meetings

PERFORI	MANCE MEASURE	METRICS	REPORTING
Plan-level Benefits			Years 2016 - 2021
to ma exists admii	ities/communities/groups ake sure staff capacity s for actual inistration and ementation of grant	Implement 2 to 3 Plan projects that include capacity building for project development, implementation, and evaluation Update the project list and technical/ scientific studies at the annual RWMG meeting	 Coordinate with Plumas County Environmental Health regarding potential funding opportunities through SB 200 and AB 1688 DACI Technical Assistant Grant project – Plumas County Environmental Health developed a Water Shortage Preparedness and Contingency Plan as a pilot project for replication within the region
Additiona	al Measures		
proce	robust the IRWM Plan ess has been after Plan lopment	List the number of RWMG meetings held vs. identified benchmarks Quarterly RWMG meetings RWMG meetings will be cohosted with member organizations when appropriate	Hosted 9 RWMG public meetings (quarterly) and provided 3 quarterly reports in lieu of in person meetings due to COVID-19 pandemic conditions
_,	ic outreach and gement	List the number and variety of attendees compared to what was targeted by the RWMG	 Attendees to quarterly RWMG public meetings has remained fairly consistent at approximately 20 Attendance sheets provided at each meeting and contact information added to stakeholder email lists Coordinated with the IRWM Roundtable of Regions to develop a UFR Region Fact Sheet, which was posted on the featherriver.org website, distributed to stakeholders, and shared with the State legislature

PERFORMANCE MEASURE	METRICS	REPORTING
Plan-level Benefits		Years 2016 - 2021
3. Economic benefits	Develop a process for quantifying and assessing the amount of funding and local job creation associated with the implementation of projects identified in the Plan Retain and grow water management and watershed stewardship job opportunities Develop volunteer water management positions on regional boards and commissions for community health, education, and improvement activities, including school programs	 Process to be developed Lake Almanor Watershed Group, created in 2005, is active in watershed stewardship The South Lassen Watersheds Group (SLWG) began meeting in 2017 and includes a powerfully diverse mix of local partners interested pursuing high priority, large-scale, multi-jurisdictional projects to improve forest and watershed health, reduce wildfire risk, protect critical habitat, and support local contractors and industry. Born from Lake Almanor Watershed Group strategic planning meetings, the group also adopted a number of guiding principles from the IRWM Plan. SLWG participants include IRWM planners as well as representatives from local, state, and federal agencies; nonprofits; and community groups. Plumas Corporation is an active participant in the Watershed Awareness Through Education, Recreation, and Stewardship (WATERS) Committee, which facilitates education efforts through the implementation of community and school-based education programs and stewardship events throughout the Feather River Watershed. WATERS meets quarterly to coordinate watershed education efforts throughout the watershed. Plumas Corporation annually hosts the Great Sierra River Cleanup along Spanish Creek in Quincy and has hosted numerous community watershed stewardship activities in the upper Feather River Watershed.
4. Reduction of conflicts identified in the Plan	Develop a process for evaluating improved collaboration that includes responding to stakeholder participants and their qualitative perceptions	Process to be developed

PE	RFORMANCE MEASURE	METRICS	REPORTING
Pla	an-level Benefits		Years 2016 - 202 1
5.	Overall effectiveness of the planning process	List the number of funded and implemented Plan projects List the number of DAC needs and projects that have advanced to implementation readiness List the number of tribal partnership projects funded and implemented Develop administrative capacity for the RWMG and for MOU signatories and project partners List the number of RMS recommendations that are incorporated into the next California Water Plan update	 9 implementation projects identified in the Plan have been funded 4 DAC projects have been advanced to implementation readiness The RWMG has maintained a Coordinator under annual contract since 2017 to provide planning and administrative support to the RWMG and MOU signatories
6.	Up-to-date understanding of climate change vulnerability	Review the most current climate change projections, every five years Review actions to address priority climate change vulnerabilities, annually Re-prioritize climate change vulnerabilities, every three years	 Regional representatives of DWR's Climate Program provide updates at the quarterly RWMG meetings Implementation project proposals required to include worksheets identifying GHG emission quantification and climate vulnerabilities and adaptations