



**AGRICULTURAL WATER QUALITY MANAGEMENT PROGRAM  
 AGRICULTURAL WATER QUALITY MANAGEMENT AREA  
 BIENNIAL REVIEW SUMMARY REPORT TO THE BOA & DIRECTOR  
 SUBMITTED BY THE LOCAL ADVISORY COMMITTEE**

<b>Management Area:</b> Klamath Headwaters
<b>Meeting Date(s):</b> September 26, 2019
<b>LAC Members Present:</b> Tom Mallams, John Hyde, Greg Bulkley, Bill Lehman, Kevin Newman
<b>Progress Measurement: <u>Upper Sprague SIA Evaluation Results:</u></b> 332 assessed agricultural tax lots, 2 Potential Violations, 11 Opportunities for Improvement, 23 Limited Opportunities: Low Concern, 296 Limited Opportunities: No Concern
<p><b>Actions/Implementation Summary:</b></p> <p><b>Outreach and Education:</b> <u>Klamath SWCD:</u> Contacted 112 landowners, 8 Workshops/presentations, 720 Newsletters distributed, outreach materials developed. <u>Klamath Watershed Partnership:</u> community meetings, flyers, landowner site visits to discuss irrigation efficiency and riparian restoration opportunities. <u>Trout Unlimited:</u> restoration tours, direct landowner meetings, outreach through direct contact and emails <u>Klamath Tribes:</u> Presented restoration opportunities at 2 community meetings.</p> <p><b>Technical Assistance:</b> <u>Klamath SWCD:</u> Provided over 500 landowners with technical assistance, conducted 165 site visits. <u>Klamath Watershed Partnership:</u> Ongoing technical assistance regarding watershed health, irrigation efficiency, and modernization. <u>Trout Unlimited:</u> Technical assistance, engineering, and other technical consultant resources. <u>Klamath Tribes:</u> Technical Assistance was provided to 12 landowners through site visits, project development, and implementation.</p> <p><b>Plans:</b> <u>Klamath SWCD:</u> Currently working with landowners around Upper Klamath Lake to develop plans to reduce pumping tailwater returns to the lake. <u>The Klamath Tribes, Trout Unlimited, USFWS, ODEQ, Klamath Watershed Partnership,</u> and consultants worked together to develop the Upper Klamath Basin Watershed Action Plan. A draft Plan was completed in July 2019 along with a Restoration Prioritization Framework web-based tool. <u>Klamath Watershed Partnership:</u> Continued development of the Modoc Point Irrigation District Modernization Plan.</p> <p><b>Projects implemented to improve water quality on ag lands:</b> <u>Klamath SWCD:</u> No-till planting (drill): 700+ acres, Aerator: 155 acres <u>NRCS:</u> Helped convert pasture ground in the Sprague River watershed to a dryland pasture mix. Secured 8 contracts that will provide off stream watering to the agricultural landowners within RCPP boundary <u>Klamath Watershed Partnership:</u> Completed 800' of riparian fencing project. ~0.5 miles riparian fencing. Installed seven log and wood structures on the South Fork Sprague to decrease erosion and enhance instream habitat. <u>Trout Unlimited:</u> Working with landowners and ODA to monitor water quality and develop a nutrient budget on two UKL farms. Constructed a diffuse source treatment wetland on a ranch in the Wood River Valley to treat irrigation tailwater. Installed several off-stream stock water wells and troughs and completed several miles of riparian fencing. <u>Klamath Tribes:</u> Riparian fencing: 2 miles; Riparian planting sites: 3; wetland planting sites: 3; Off-stream livestock water facilities: 1;</p> <p><b>Funding and Grants:</b> <u>Klamath SWCD:</u> ODA support to LMA: \$100,000. Two grant applications submitted. <u>Klamath Watershed Partnership:</u> NFWF grant for riparian fencing \$70,000. USFWS Partners and RCPP funding. Submitted a grant to provide Technical Assistance at Lakeside Farms to address water quality concerns along Upper Klamath Lake. Submitted a grant to provide outreach to landowners in support of the Upper Klamath Watershed Action Plan. <u>Trout Unlimited:</u> Secured and implemented with partners a RCPP grant to improve water quality in the Upper Klamath Basin. Collaborated to secure funding for various riparian restoration and protection projects and for the installation of tailwater treatment pilot studies. Have submitted and secured funding for future projects: two miles of stream returned to the historic channel, engineering design work to address water quality issues in West Canal in the Wood River Valley. <u>Klamath Tribes:</u> Grants received: NFWF \$100,000; PCSRF \$142,500.</p> <p><b>Monitoring:</b> <u>SWCD/NRCS/ODA:</u> Deming Creek - long-term temperature monitoring <u>Klamath Watershed Partnership:</u> Working with ODF and ODFW to monitor stream presence and fish bearing status; streams surveyed in 2018 and 2019 were tributaries to Klamath River below Keno; areas for 2020 include upper Sprague and Sycan watersheds; restoration opportunities, such as un-hardened cattle crossings will be the focus of future restoration efforts. <u>Trout Unlimited:</u> Water quality monitoring on Walker Farms and in Wood River Valley; project implementation monitoring. <u>Klamath Tribes:</u> Water temperature monitoring – 60 sites throughout Upper Klamath Basin; Upper Klamath Lake tributary water quality monitoring – 16 sites (physical parameters, nutrients, sediment) – Upper Klamath Lake (2017-2018 - physical parameters, nutrients, zooplankton, phytoplankton, algal toxins)</p>
<b>Summary of Impediments:</b> The LAC would like to acknowledge that agriculture in the Upper Basin has been devastated by water restrictions. The water restrictions are also viewed as an enormous impediment to restoration.
<b>Recommendations for Modifications:</b> The LAC would like information compiled and presented related to the water quality and aquatic species benefits that have or have not been observed as a result of irrigation restrictions. The LAC would like more resources invested in water storage in the Klamath Headwaters Area.
<b>DEQ Recommendations:</b> Update progress toward achieving measurable objectives at 2021 Biennial Review.
<b>Compliance:</b> Letter of Compliance - 0 Pre-Enforcement Notification - 2 Notice of Noncompliance - 0 Civil Penalty - 0