



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

Management Area: Goose & Summer Lakes Basin

Meeting Date(s): November 7, 2017

LAC Members Present: John Taylor, Bob Elder, Justin Miles, John O’Keefe, Pete Talbott and Leon Baker.

Progress Measurement – Measurable Objectives: Baseline data for two Focus Areas: riparian condition classification

Class I	Class II	Class III	Class IV
Vegetation likely sufficient to moderate solar heating, stabilize streambanks, and filter out pollutants consistent with site capability.	Agricultural activities not impairing riparian growth, but vegetation likely insufficient to moderate solar heating, stabilize streambanks, or filter out pollutants consistent with site capability.	Agricultural activities likely not allowing vegetation to moderate solar heating, stabilize streambanks, or filter out pollutants consistent with site capability.	Non-agricultural activities, e.g. state highway, likely not allowing vegetation to moderate solar heating, stabilize streambanks, or filter out pollutants consistent with site capability.

Buck Creek					
Class	Assessment Results (stream miles)				% change 2010-2017
	2010	2013	2015	2017	
I	3.7	3.55	3.7	3.8	3%
II	2.1	2.75	2.6	2.8	33%
III	1.3	0.8	0.8	0.5	-62%
IV	0.9	0.9	0.9	0.9	n/a

Crooked Creek				
Class	Assessment Results (stream miles)			% change 2013-2017
	2013	2015	2017	
I	3.0	4.1	4.8	60%
II	4.7	4.7	4.0	-15%
III	1.4	0.3	0.3	-79%
IV	1.9	1.9	1.9	n/a

Thomas Creek			
Class	Assessment Results (stream miles)		% change 2015-2017
	2015	2017	
I	17.3	18.1	+5%
II	6.73	7.3	+8%
III	2.57	1.2	-55%
IV	12.9	12.9	n/a

Bridge and Silver Creeks			
Class	Assessment Results (stream miles)		% change 2017-2019
	2017	2019	
I	1.6	To be determined	To be determined
II	.9		
III	.5		
IV	.3	.3	.3

The landowners, SWCDs, and watershed council completed projects and achieved their measurable objective (0.6 or less of agricultural stream miles in Class III) in Buck Creek Focus Area. All project work has been completed in the Crooked Creek Focus Area; as the riparian plantings mature it is anticipated that the measurable objective of 8.2 agricultural stream miles in Class I will be met by June 30, 2025. Work in Thomas Creek Focus Area continues with a goal to increase agricultural stream miles in Class I to 22.1 miles by June 2019. Drought conditions impeded the growth of riparian plantings in Crooked Creek and Thomas Creek Focus Areas between 2015 and 2017; however, both focus areas still showed improvement in Class I. Bridge and Silver Creek Focus Area was just started this biennium (July 2017); goal to increase Class I agricultural stream miles to 2.8.

Actions/Implementation Summary:

Outreach and Education:

- Newspaper articles local paper
- Annual Watershed Gathering presentation of projects
- Educational kiosk – Crooked Creek Restoration projects – Chandler State Park
- Two Forest Health Workshops
- Booth at the Lake County Fair
- 2-day Outdoor Education Program for all K-6th graders at North Lake Elementary (140 students)
- 8 newsletters distributed to 400 landowners with articles on pasture management, streamside vegetation, weeds, and conservation

Planning and Projects:

- Installed 1 riparian fencing project along 1.7 miles from Dry Creek to Goose Lake
- Installed a hardened crossing to allow cattle to cross from pasture 1 to 2 for drinking water access
- Working with the CWMA on a stream recon plan and a Goose Lake basin stream recon plan
- Honey Creek Sage-Steppe Focused Investment Partnership (FIP)
- 12 acres decadent willow removal
- Working on Honey Creek design and project cost comparisons for another diversion

- Completed the Cottonwood diversion replacement, riparian and streambank stabilization, fish passage and ladder and wildlife habitat
- Completed all 15 Site Specific Plans for Lake County Candidate Conservation Agreement with Assurances enrollees
 - Honey Creek Sage-Steppe FIP (616.5 acres juniper removed, 222.6 acres planned exotic, annual grass treatment, 5 planned spring develop, and 100,320 ft of fence marked for sage grouse)
 - Twelvemile Creek FIP (all planned: 1,403.7 acres juniper removal, 139.3 acres decadent bitter-brush removal, 2 spring developments, 1 well completion project (solar & troughs), 7,920 ft fence construction, 46,992 ft fence marking for sage grouse, and 4 wildlife escape ramps)
- Collected survey information on Buck Creek to determine diversion design
- 1 spring development project – Dry Creek Watershed
- Riparian fencing project 1 mile – Thomas Creek
- 2 livestock crossings and 1 water gap installed -Thomas Creek (Lakeview School District and Flook Ranch)
- Crooked Creek Channel Realignment – Historical channel
- Pond and Plug Restoration Crooked Creek - .5 miles
- Headcut Stabilization – Crooked Creek Linton and Shoulders Property
- Headcut Stabilization – Rosa Creek
- Upper Thomas Creek – Cox Flat Channel Realignment - .5 miles
- Goose Lake Stream Reconnaissance and Design Concept Plan (Joint Project)
- Completed design for Mesman Crossing Fish passage – Upper Thomas Creek
- Riparian Fencing and Water Gaps – 2 miles Silver Creek
- Currently working on the Warner Basin Aquatic Habitat Plan for the Warner Watershed (Joint Project)
- Currently owning on design concepts and a reconnaissance plan for Cogswell Creek (Joint Project)
- Currently working on a design plan for restoration on lower Muddy Creek
- Simms Fish Passage and Diversion Modification project – Crooked Creek
- Twentymile Creek MC Diversion Fish Passage
- Elder Creek Culvert Replacement Fish Passage
- Upper Deep Creek Design Completion Diversion Modification and Fish Passage
- Designs prepared for the Deep Creek Diversions Fish Passage
- Paisley Town Weir Screen Baffle Installation

Monitoring: none other than the riparian condition monitoring in focus areas

Funding and Grants:

- Grants totaled over \$400,000 in Crooked Creek alone

Summary of Impediments:

- Projects with a federal component that may require an archeological review may hold up project implementation
- DEQ water quality monitoring sites do not necessarily reflect stream conditions as relates to agricultural activities

Recommendations for Modifications:

- Improve monitoring site distribution to add sites that are more reflective of agricultural land management activities
- Have a meeting with LAC and other interested parties to review current and future monitoring

DEQ Recommendations: Minor edits to the Area Plan were made per DEQs review.

Compliance: *Letter of Compliance -0* *Water Quality Advisory -0* *Letter of Warning -1*
 Notice of Noncompliance -0 *Civil Penalty -0* *Alternative Measures -0*

Total Complaints/Notifications: 0

Notes: None