Creeks and Communities:
A Continuing Strategy for Accelerating Cooperative Riparian
Restoration and Management

Creeks and Communities Network
Annual Accomplishments
FY 2018

By
THE NATIONAL RIPARIAN SERVICE TEAM
February 2019

USDI, Bureau of Land Management
In Partnership With USDA, Forest Service and USDA, Natural Resources Conservation Service
Creeks and Communities Network

The interagency Creeks and Communities Strategy is an effort of the Bureau of Land Management (BLM), in cooperation with the USDA Forest Service (FS) and the Natural Resources Conservation Service (NRCS). The strategy is implemented by the Creeks and Communities Network (CCN) which includes the National Riparian Service Team (NRST), State Riparian Teams and Agency Coordinators, with personnel from federal and state agencies, universities, industry and conservation interests, and the private sector.

**Purpose**

To advance cooperative riparian stewardship as a diverse and dedicated network representing various agencies, organizations, disciplines, and interests.

**Vision**

Sustainable riparian resources as a foundation for resilient ecosystems and communities.

**Mission**

To empower landowners, managers, specialists, practitioners, policymakers, and other interested and affected individuals and organizations to work together to achieve sustainable riparian resources by providing guidance, information, tools, training, coaching, and problem-solving assistance.

**Operating Principles and Practices**

To operate as effective catalysts for riparian stewardship, the CCN will:

- Promote a sequenced, integrated, and adaptive approach to riparian management by linking physical function and the sustainable production of values.
- Work across ownerships and jurisdictions and recognize ecological and social factors while engaging affected interests.
- Enhance awareness, knowledge, skills, relationships, and trust to foster collective, on-the-ground action.
- Assist in developing and providing the state-of-the-art tools; clear and current direction; and training, coaching, and review necessary to ensure effective application and results.
- Serve as a communication link between field needs and policy development and implementation;
- Ensure CCN effectiveness through ongoing evaluation and adaptation.

**National Riparian Service Team**

- **Steve Smith**, Team Leader, Rangeland Management Specialist/Riparian Ecologist, BLM
- **Mark Gonzalez**, Ph.D., Ecologist/Soils Scientist, BLM
- **Laura Van Riper**, Ph.D., Social Scientist, BLM
- **Carol Connolly**, Public Affairs Specialist, Budget & Contracting, BLM
- **Adjunct Team Members** with specialized skills in Ecology, Fisheries, Wildlife, Hydrology, Forestry, Rangelands, and Conflict Management
Agency Program Coordinators

- Vacant, BLM, Washington D.C.

- BLM State Office Riparian Program Leads
  - AK Matt Varner
  - AZ Aaron Wilkerson
  - CA Christina Lund
  - CO Jay Thompson
  - ID Bryce Bohn/Peggy Redick
  - MT Alden Shallcross
  - NM John Sherman
  - NV Sarah Peterson
  - OR/WA Mike Brown/Scott Lightcap
  - UT Justin Jimenez
  - WY Brad Jost

- Allen Rowley, Barbara Schrader, Linda Spencer, USDA-FS, Washington, DC

- Forest Service Regional Office Riparian Program Managers
  - Northern Region, Mary Manning
  - Rocky Mountain Region, Vacant
  - Southwest Region, Judith Dyess/Gary Ziehe/Roy Jemison
  - Intermountain Region, Terry Padilla
  - Pacific Southwest Region, Vacant
  - Pacific Northwest Region, Robert Garcia
  - Southern Region, Suzanne Krieger
  - Eastern Region, Ted Geier
  - Alaska Region, John Lane

- Sid Brantly, NRCS, Washington, DC; Shaun McKinney and Gene Fults, NRCS, West National Technology Support Center

- NRCS State Riparian Coordinators
  - AK Calvin Steele
  - AZ Byron Lambeth/Stu Tuttle
  - CA Steve Hill
  - CO Eugene Backhaus
  - ID Brendan Brazee
  - KS Jon Ungerer
  - MT Vacant
  - ND Vacant
  - NM Vacant
  - NV Patti Novak-Echenique
  - OR Bob Gillaspy
  - SD Stanley Boltz/Jerry Jasmer
  - TX Russ Castro
  - UT Shane Green
  - WA Kevin Guinn
  - WY Brian Jensen
State and Provincial Team Coordinators

- Arizona: Vacant
- British Columbia: Cori Barracough & Patrick Lucey, Aqua-Tex Scientific Consulting Ltd.
- California: Scott Lusk, Plumas National Forest
- Colorado: Jay Thompson, BLM Colorado State Office
- Idaho: Bryce Bohn, BLM Idaho State Office, and Brenda Mitchell, USDS FS
- Montana: Alden Shallcross, BLM Montana State Office
- New Mexico: John Sherman, BLM New Mexico State Office
- Nevada: Sherm Swanson, University of Nevada Cooperative Extension, Reno
- Oregon: Jimmy Eisner, BLM Prineville Field Office
- Texas: Russell Castro, NRCS Texas State Office
- Utah: Justin Jimenez, BLM Utah State Office, and Mark Petersen, Consultant
- Washington State: Tip Hudson, Washington State University Extension, Ellensburg, WA
- Wyoming: Vacant, BLM Wyoming State Office
High quality training is a foundation for successful riparian restoration and management. Training provided by the NRST and the Creeks and Communities Network has increased understanding of how riparian-wetland areas function, how to monitor stream channels and streamside vegetation, how to apply innovative and effective management strategies and how to effectively engage people and manage conflict. This knowledge is fundamental for managing for resilient streams and wetlands and protecting water resources. Over 130 people attended NRST-led training sessions in 2018.

- **Proper Functioning Condition (PFC) for Resource Professionals:** This is an in-depth field course for resource professionals for conducting PFC assessments in accordance with BLM Technical Reference 1737-15. One four-day training session was completed in 2018 (25 participants).
  - **Arizona** – Springerville. Course sponsored by Southwest Region, USDA Forest Service and the Apache-Sitgreaves National Forest.

- **Multiple Indicator Monitoring (MIM) of Stream Channels and Streamside Vegetation:** This is an in-depth field course for designing, gathering, and using MIM monitoring in accordance with BLM Technical Reference 1737-23. Two four-day training sessions were completed in 2018 (65 participants).
  - **Idaho** – Salmon. Course co-sponsored by the Salmon-Challis National Forest and the BLM Salmon District
  - **Nevada** – Elko. Course sponsored by the BLM Elko District Office and BLM Nevada State Office

- **Nevada Low-Stress Stockmanship School:** This is a four-day course that combines classroom instruction and hands-on coaching to train ranchers, particularly federal grazing permittees, in the fundamentals of effectively moving and placing cattle herds to implement sound riparian and upland management in a manner that is also beneficial to ranching operations.
  - **NRST** partnered with NV Bureau of Land Management (BLM), NV Department of Agriculture (NDA), NV Fish and Wildlife Service (FWS), University of NV Cooperative Extension (UNCE), NV Association of Conservation Districts (NVACD), the Intermountain West Joint Venture (IWJV) and others to host the second annual four-day workshop at the Cottonwood Ranch (Wells, NV) (25 participants).
  - **NRST** partnered with NV BLM, NDA, IWJV, UNCE and others to sponsor a one-day Stockmanship Training (Reno, NV) primarily for agencies. People participated in person and via a livestream webinar, which was recorded by the National Training Center and is available to view online (60 participants).
Information Sharing – National Riparian Service Team

Increase awareness, knowledge, and skills regarding the management of riparian areas by providing information sharing activities.

- **BLM CADR Community of Practice Webinars**
  - Panelist on BLM’s Collaborative Action and Dispute Resolution (CADR) Coordinator Webinar (50 participants) and co-authored CADR Coordinator (NRST) Spotlight Article
  - Led and presented as part of a panel for the Results Oriented Grazing for Ecological Resilience (ROGER) Webinar (100+ participants).

- **The Society for Range Management Annual Meeting, NV**
  - Co-presented on Winecup-Gamble National Outcome Based Grazing (OBG) Demo (50 participants).
  - Organized and presented as part of the Producer’s Forum Panel on Collaborative Efforts in NV, namely the Nevada Collaborative Conservation Network (NvCCN) and ROGER (75 participants).
  - Presented on NRST’s Situation Assessment Process (25 participants).
  - Provided NRST update at BLM Family Meeting (25 participants).

- **Coordination with Universities**
  - Michigan State University: Serving on PhD committee and mentoring student who is researching collaborative approaches to public land management in the west. Presented to two graduate level classes on NRST’s approach and their work with the Klamath Basin and ROGER (40 participants).
  - University of Nevada, Reno: Provided presentation to class on NRST approach and ROGER. (25 participants).

- **Publications**
  - NRST Partnered with IWJV to author two articles
    - ‘Outcome Based Grazing at the Winecup Gamble Ranch’ (published in Nevada Rancher Magazine Jan 2019) highlighting the ROGER group and Winecup-Gamble as one of the OBG Demos.
    - ‘School Teaches Stockmanship with a Light Touch’ (published in the NV Farm Bureau’s Agriculture and Livestock Journal Jan 2019) highlighting the ongoing annual Cottonwood Ranch Schools and the upcoming Roaring Spring Ranch school.
• **Coordination Partners for Conservation**\(^1\)
  
  - NRST served on the instructor cadre for the two workshops held in Boise, ID designed to help landowners and their partners build or enhance conservation partnerships. The goal of each training was to engage a diverse group of partners from several western landscapes (Colorado, Idaho, Montana, Nevada, Washington, California, and Utah) to increase knowledge and potential of broad-based public/private partnerships in achieving lasting conservation solutions. The first session focused on newer partnerships and collaborative efforts that are getting underway, while the second session focused on the challenges associated with sustaining collaborative conservation efforts.

In addition to work listed above, the **NRST responded to numerous requests for information, advice, or assistance from a variety of sources.** Inquiries included questions about the Creeks and Communities approach as well as riparian assessment, monitoring, restoration, adaptive grazing management, and collaboration/conflict resolution. In addition, several referrals were made to help people locate assistance and information.

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**Resolve Issues through Tailored Assistance and Collaboration – National Riparian Service Team**

The Creeks and Communities Strategy represents an innovative and adaptive approach aimed at building capacity of land managers and stakeholders to address complex and often contentious issues inherent in managing riparian resources. Site specific or “placed-based assistance” can include multiple phases involving training and problem solving efforts designed to address both the technical and social dimensions of riparian related issues. Over 150 people participated in NRST-led place-based, collaborative problem-solving efforts, with many others on group mailing lists.

**Assistance Projects**

**Results Oriented Grazing for Ecological Restoration (ROGER) Collaborative**

As a member of the DOI/BLM Collaborative Action and Dispute Resolution (CADR) Program’s Facilitation Roster, the NRST has been coordinating and facilitating this Nevada rancher-led collaborative group since 2016. ROGER is a forum for bringing State and Federal agency partners and other stakeholders together to develop and incentivize flexible, adaptable, outcome-based grazing management and monitoring to meet both ecological and livestock operation sustainability objectives in conjunction with Greater Sage Grouse (GRSG) plan amendments. NRST assistance is ongoing (35 participants, 90+ person mailing list).

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\(^1\) Partners for Conservation is a private landowner-led organization that communicates and collaborates on conservation partnerships for working landscapes to benefit present and future generations.
The ROGER Collaborative is focused on the following strategic actions:

**Outcome-Based Grazing (OBG) Term Permit Renewals**
- Two of the eleven BLM National OBG Demos are currently part of ROGER (Horseshoe and Winecup-Gamble Ranches). As a foundation, the group is working to develop a common understanding of on-the-ground conditions and flexibilities needed to meet rangeland health and GRSG habitat objectives.

**Remote Sensing, Threat-Based Modeling & Vegetation Mapping**
- ROGER ranchers are experimenting with assessment and monitoring of rangeland health and GRSG habitat at multiple scales. ROGER and partners are exploring the use of Remote Sensing (RS), Threat-Based Modeling and Vegetation Mapping to assess and monitor rangeland health and sage grouse habitat. ROGER convened an interdisciplinary science team along with various agency partners and ranchers to develop a multi-year research proposal for the use of these tools. Two OBG demos (Winecup-Gamble and Smith Creek Ranch) will serve as study sites to develop and incorporate recommendations from the tool into grazing decisions on public and private land. To date, the FWS and BLM have contributed $800k to this effort.

**Fire & Invasive Species Management**
- Two ROGER ranchers are currently implementing the first BLM National Targeted Grazing for Fuel Reduction Demonstration Project. The project is focused on using (and monitoring the results of) grazing to reduce fine fuels in areas dominated by invasive cheatgrass (and has a high fire frequency). Grazing management is adaptive and modified as needed using temporary fencing, herding, water hauls, supplements, etc. ROGER is also experimenting with dormant season grazing in post-burn areas to remove fine fuels that carry fire early in the season and to reduce the cheatgrass seed load. In addition, they are also experimenting with native and non-native seeding mixes as part of post-fire Emergency Stabilization and Recovery plans. These tools were recently used in recovery and post-fire grazing plans for the 2018 440,000+ acre Martin Fire.

**Planning & Adaptive Management**
- Four ROGER ranchers are working with UNCE and agency partners (BLM, FS, NRCS) as part of a Western SARE funded project to explore the effectiveness of the Grazing Response Index and other adaptive planning tools to meet rangeland health objectives by focusing on grazing distribution (timing, duration and intensity) and opportunity for plant recovery. Results will be shared through training programs, curriculum development and peer-reviewed publications.

**2018 Activities**

**Nevada Collaborative Conservation Network (NvCCN)**
The NRST, as a member of the DOI/BLM CADR Facilitation Roster, has been working with the NvCCN since 2016 and has served as the group’s facilitator/coordinator beginning in 2018. NvCCN is a statewide effort to build a network that serves to promote, coordinate, and support locally-led conservation efforts. The primary objective of NvCCN is to promote effective conservation of Nevada’s ecosystems and economic viability of Nevada’s communities through grassroots conservation. NvCCN provides structure to support local, diverse stakeholder groups working to achieve conservation by incorporating best science and local knowledge through a collaborative planning and implementation approach. NvCCN serves as a bridge between various groups that are already operating at the local, state and federal levels as a way to enhance and expand locally-led conservation efforts to the rest of Nevada (35 active participants, 50+ person mailing list).
The NvCCN is focused on the following strategic actions:

**Establish NvCCN Coordinating Group to provide vision, momentum, and capacity**
- The Coordinating Group is composed of approximately 35 individuals representing over 15 local, state, federal and non-profit agencies and organizations who provide guidance and spearhead larger initiatives that support community based conservation efforts across Nevada.

**Support locally-led collaborative conservation groups and bridge state-wide efforts**
- Assist groups currently operating across the state (approximately 10) and support Conservation Districts focused on completing Resource Needs Assessments (RNAs) as a foundation for collaborative conservation planning and project prioritization and implementation (7 RNAs initiated in 2018).
- Provide information sharing, networking and educational opportunities.
  - Hosted workshop for representatives from community-based groups in Nevada to encourage peer-to-peer learning and networking with adjacent states.
  - Developed communication and outreach plan and products, including the launch of a NvCCN website to serve as an information repository.
- Establish state-wide facilitation roster to assist groups with organizing meetings, developing strategic action plans, and formulating goals and objectives.
- Develop a database of funding sources for project implementation and administration.
- Assist in the communication of successes by connecting project proponents through tracking and reporting of conservation activities.
- Explore the potential to develop a state-wide strategic conservation framework that links local, state and federal conservation priorities and projects.

**Establish sustainable political and financial support for locally-led conservation efforts in Nevada**
- Secure support from partners and legislative bodies. The Nevada Legislative Committee on Public Lands recently provided NvCCN with a letter declaring their support for efforts that prioritize community-based conservation of public lands and integrates local knowledge of natural resources.
- Develop a structure for securing and administering funding from various agencies. NvCCN is looking for financial support for locally-led conservation groups and efforts that implement a collaborative approach to planning, as well as funding for project implementation to address locally identified conservation challenges in Nevada.

- Work with University of Nevada, Reno to bring additional capacity to local groups. Exploratory conversations with the College of Agriculture are underway to develop and incorporate community-based planning and facilitation training for local groups into cooperative extension programs and instructional curriculum.

**2018 Activities**

- Led peer-to-peer workshop: May 2018 (25 participants).
- Participate in monthly coordination calls.

**Jordan Meadows (JM) Allotment Collaborative**

Since the fall of 2016, NRST (technical and social support) has been facilitating/coordinating a collaborative effort associated with the Jordan Meadows allotment in the Winnemucca District. The group consists of BLM, permittees, State and Federal agency partners, and other stakeholders focused on developing an interim grazing system that protects critical Lahontan Cutthroat Trout (endangered species) and sage-grouse habitat, while also allowing for an economically viable ranching operation.

Allotment management has been contentious, with relationships and interactions between BLM, NDOW, FWS and the permittees characterized by conflict, lack of trust, and litigation. In preparation for the development of a new grazing term permit renewal (TPR), a facilitated dialogue process that involved various parties in collaborative problem-solving and conflict resolution was initiated. The intent was to rebuild relationships, develop a common understanding of what is needed to improve/maintain upland and riparian conditions, and experiment with various grazing strategies to inform the collaborative development of alternatives. The group meets three times a year: pre-season to discuss the planned grazing management, mid-season to review on-the-ground conditions, and post season to discuss annual success (monitoring results) and develop a grazing plan for the next year (15 active participants).

**2018 Activities**

- Provided technical review, support and recommendations.

**Kings River (KR) Allotment Collaborative**

Drawing upon the success of the JM Collaborative, a second collaborative group has formed to address similar issues on a neighboring ranch/allotment. Many of the players are the same as those in the JM Collaborative; the process is also very similar (15 active participants).

**2018 Activities**

- Led kick-off meeting: December 2018.
- Provided technical review, support and recommendations.
Argenta Allotment Cooperative Management Group (CMG)
NRST led the development and implementation of a three-year settlement agreement to address ongoing, national-level controversy regarding the Argenta allotment beginning in 2015. The court-approved settlement agreement (June 2015) outlined an adaptive management plan/approach that served as an interim management strategy while a longer-term strategy is developed through the grazing permit renewal process. Plan implementation is overseen by the CMG, which includes all appellant parties and other State/Federal agencies. NRST served as the convener and independent third party on the allotment; they facilitated/coordinates the CMG and provided technical review, guidance and recommendations as needed. NRST assistance officially ended on Aug 1, 2018 with the expiration of settlement agreement (15 active participants).

2018 Activities
- Provided technical review, support and recommendations to CMG

PFC Assessments -- Borders Field Office, Washington
NRST provided guidance on pre-assessment reach stratification and one-week of field coaching to the riparian assessment team of the Borders Field Office in June 2018 (10 participants).

Colorado River Valley Field Office Riparian Assistance
Provided a 3-day technical assistance trip to the BLM Colorado River Valley Field Office to assist resource specialists with riparian-wetland areas on the Roan Plateau. Assistance focused on sites with both lotic and lentic properties. NRST recommended monitoring approaches/techniques, helped estimate ecological potential and prescribed appropriate riparian objectives. Also met with concerned permittees (stakeholders) to share expertise and information on riparian area functions, management, and monitoring (15 participants).

Prineville District BLM Spotted Frog Habitat Assistance
Assisted the Prineville District in developing a monitoring approach and techniques for the listed spotted frog habitat. Helped specialists understand riparian potential and recommended the most appropriate lotic and lentic monitoring techniques. Attended multiple meetings and a field trip to assist specialists tasked with gathering information and data on frog habitat (12 participants).

OR/WA BLM and Prineville District BLM Mid-Columbia River Steelhead Recovery Plan
NRST participated with the BLM OR/WA Office and Prineville District Office on an interagency review of restoration projects designed to enhance recovery of steelhead populations in the Mid-Columbia River watersheds (particularly John Day River and Crooked River; 25 participants).

Northwest Interagency Coordination Center Assistance
The NRST provided management and staffing to the Regional Fire Management Media Desk.
NRST advances the field of riparian science and management by leading and assisting with the development of state-of-the-art information and tools. This includes developing, revising, and reviewing technical references and other documents, tools, and other products.

- **Riparian Area Management: Monitoring Lentic Areas**
The BLM National Operations Center (NOC) and the NRST initiated development of a lentic riparian monitoring protocol for BLM and FS in 2014. A draft of the protocol was completed in April of 2018. The NRST serves as primary technical specialists on the core writing team and tested the draft protocol on 19 lentic sites during the field season. Following field-testing, NRST prepared a testing and literature review of the draft protocol. Revisions are underway and the protocol will go to publishing in the near future.

- **Riparian Area Management: A User Guide to Assessing Proper Functioning Condition (PFC) and the Supporting Science for Lentic Areas**
The NRST initiated a revision of the Lentic PFC TR (TR 1737-16), conducted field work in 2018 to incorporate into the technical reference, and are presently working on a draft.

- **Riparian Complex Ecological Site Descriptions (ESDs) Development**
The NRST serves on an interagency (NRCS, BLM, FS, University) group for the development of unity and site concepts of riparian complex ESDs. The interagency group developed site concepts for riparian complex ESDs.

- **NRST provided detailed advice and/or review comments for the following projects:**
  - NRCS Draft Riparian Complex ESDs for Lotic Riparian Complex Guidance.

- **Technical support to BLM and Forest Service field units for Multiple Indicator Monitoring (MIM) of Stream Channels and Streamside Vegetation**
NRST assisted several field units, sometimes repeatedly, on the use and troubleshooting of the MIM modules, data interpretations, and related MIM applications.
Link Field-Based Activities and Policymakers – National Riparian Service Team

NRST serves as a communication link between field needs and policy development and implementation. The NRST is contributing to efforts aimed at establishing roles and priorities for integrating programs that address water, riparian-wetland, aquatic resources, and collaboration.

- **BLM Policy for integrating the Proper Functioning Condition Assessment, Multiple Indicator Monitoring (MIM) of Stream Channels and Streamside Vegetation, AIM National Aquatic Monitoring Framework: Field Protocol for Lotic Systems**
  The NRST completed a second draft of an integration policy and are working to finalize the document in 2019 following coordination with the BLM Assessment, Inventory, and Monitoring Program (AIM), the BLM WO National Riparian Program, and a select group of reviewers.

- **BLM/DOI Collaborative Action and Dispute Resolution (CADR)**
  The NRST serves as a BLM CADR coordinator and on the DOI and BLM-CADR in-house facilitation roster.

- **BLM National Outcome-Based Grazing (OBG) Demos**
  The NRST coordinates with and supports OBG program leads (BLM and IWJV), as well as assists with individual OBG demos as requested.

- **Intermountain West Joint Venture (IWJV)**
  The NRST coordinates with the IWJV in the implementation of their MOU with BLM, FS, and NRCS to provide a collaborative framework to accomplish goals related to the conservation of GRSG and its habitat.

- **BLM Program Coordination/Integration**
  The NRST is contributing to efforts aimed at establishing roles and priorities for integrating programs that address water, riparian-wetland, aquatic resources, and collaboration.
Support the C&C Program and Cultivate the CCN

Maintaining and supporting the C & C program and cultivating a diverse learning and coordination network is an important component of implementing Creeks and Communities.

Products for Outreach and Strategy Implementation – National Riparian Service Team

- NRST/Creeks and Communities Website
- Creeks and Communities Network Directory
- Creeks and Communities Handouts and PowerPoint Presentations

Briefings, Meetings, Presentations, Key Contacts – National Riparian Service Team

- BLM Division of Forest, Rangeland, Riparian & Plant Conservation
- FS Range and Vegetation Ecology Staff
- FS Regions 3, 4 and 6 Range and Aquatics Staff

Work Planning, Operations, Coordination – National Riparian Service Team

NRST Coordination Calls and Work Planning Meetings
BLM OC-570 Conference Calls, Work Plans, Budget and Staffing Coordination
IDIQ Contract for Creeks and Communities Professional Services
BLM Riparian, Range Soil-Water-Air and Fisheries Program Conference Calls
BLM National Operations Center Planning and Coordination
BLM National Training Center Planning and Coordination
DOI and BLM Office of Collaborative Action and Dispute Resolution Coordination
NRCS WO Rangelands and West National Technical Support Center Coordination
BLM National Outcome-Based Grazing Demos
Intermountain West Joint Venture (IWJV) MOU with BLM, USFS, NRCS for collaborative GRSG conservation

Leveraging Resources – National Riparian Service Team

Several NRST activities were accomplished through leveraging the NRST operating budget with additional funding and in-kind contributions.

Reporting

State Riparian Team Activities

The Creeks and Communities Network (CCN) is a valuable learning network that creates opportunities for members to share riparian related information and experiences so that they may learn from each other. The following reports submitted by state teams and their colleagues are intended to facilitate that goal.

Alaska

Training Sessions – Alaska Stream Team
The Alaska Stream Team coordinates a variety of training events focused on stream functional assessments, application of Natural Channel Design on placer-mined streams, and monitoring of stream restoration/reclamation projects. In 2018, over 50 individuals representing various State and Federal agencies attended these workshops.

- **Monitoring and Adaptive Management Workshop:**
  Weeklong workshop focused on the evaluation of stream reclamation projects completed by the BLM. This workshop instructed BLM and NPS staff on how to monitor project performance and develop adaptive management plans (20+ participants).

- **Stream Assessment and Restoration Potential Workshop:**
  This workshop provides intensive instruction on watershed condition assessments, baseline functional assessment based on the Stream Functions Pyramid Framework (SFPF), and the determination of restoration potential. The workshop is a mix of classroom lectures and fieldwork on a project reach. The information generated by the workshop can be used to complete the design criteria, which is used to develop a natural channel design in the second workshop.

- **Natural Channel Design Workshop**
  This workshop utilizes information collected during the Stream Assessment and Restoration Potential Workshop to develop a restoration design based on the Natural Channel Design approach.

Technical Assistance Projects – Alaska Stream Team
- Collaboratively developed stream reclamation designs for upper Franklin Creek and Jack Wade Creek (87-Mile) with the mine operators
- Provided layout and construction guidance to miners at both sites for the duration of the projects to teach various construction techniques, sequencing, and adaptive strategies to address uncertainty in the field.
- Assisted a miner with baseline data collection necessary for stream reclamation planning on a mine site adjacent to a large anadromous water body.
- Provided on-the-ground advice to a miner regarding site preparation for stream reclamation work planned for 2019.
- Provided on-the-ground construction guidance to a miner to stabilize a stream bypass channel.

Information and Tools – Alaska Stream Team
- **Open File Report #169**
  With the help of the NOC, BLM Alaska completed the first assessment of wadeable streams across an area managed by the Eastern Interior Field Office. This report also provided insight into the recovery of placer mined streams using two different approaches (natural recovery driven vs Natural Channel Design). This report is available at [https://www.blm.gov/download/file/fid/26392](https://www.blm.gov/download/file/fid/26392)
- **Regional Hydraulic Geometry Curves**
  These curves are important tools for stream restoration planning. The curves are log-log plots of variables like bankfull discharge, width, cross sectional area, and mean depth against watershed area. BLM Alaska currently has draft curves developed for Denali (Kantishna), Interior AK, and the Fortymile region.
Stream Reclamation Video Series
This video provides an overview of placer mining and stream reclamation using various perspectives. The video can be found at https://youtu.be/2ZhRnwcCfd8

Link Field-Based Activities and Policymakers
- Interagency Agreements
  In 2018, the BLM established an interagency agreement with the Fish and Wildlife Service (FWS) and National Park Service (NPS) to accomplish mutual goals related to watershed level management of aquatic resources. This agreement also serves as the foundation for working through current and legacy land use impacts (e.g., placer mining) within the stream and floodplains that exist on DOI lands in Alaska.

Arizona

Training and Coaching
- Served as PFC training cadre member on the National Riparian Service Team for a PFC for Professionals training on the Apache-Sitgreaves National Forest (25 participants).
- Assisted with PFC training on the BLM Ukiah Field Office.
- Trained Phoenix District Interns on Multiple Indicator Monitoring.
- Applied PFC training expertise with both a Rangeland Management Specialist and Range Technician.

Riparian Assessments and Monitoring
- Monitored 50 miles of the San Pedro River on the San Pedro Riparian National Conservation Area alongside The Nature Conservancy, Community Watershed Alliance, Friends of the San Pedro River, NPS, AZ Department of Forestry among others for the annual Wet/Dry Walk.
- Monitored 13 miles of Cienega Creek in the Las Cienegas National Conservation Area with the Cienega Watershed Partnership and The Nature Conservancy.
- IDT performed a PFC assessment as part of the Land Health Evaluation on the White Canyon Wilderness.

Place-based Issue Resolution
- Riparian monitoring and assessment to ensure compliance with section 7 consultations on the Sky Arrow Complex of grazing allotments and the JV Bar grazing allotment.
- IDT team participation to inform travel management planning in the Black Canyon Corridor Travel Management Planning Area.
- Worked in partnership with the Arizona OHV Coalition to build and maintain vehicle barriers to protect riparian habitat from unauthorized use from off-highway vehicles, and to provide public outreach to teach motorized recreationists principles of wise use of public lands.
- Developed Coordinated Resource Management Plan in the Agua Fria National Monument with a livestock permittee, Tonto National Forest, Arizona Game and Fish Department, and multiple stakeholders, which includes various collaboratively, developed riparian objectives and management actions.

Outreach/Collaboration
- Partnered with Arizona Audubon to implement River Pathways, which teaches students about riparian areas in central Arizona, resources found within riparian areas including birds, and about multiple use management of riparian areas on both BLM and Forest Service managed lands. Students were taught both in class lessons and conducted field trips to the BLM and Forest Service managed Lands.
• Begun initial phases of planning with partners a Smithsonian Water Ways exhibit for Black Canyon City, AZ. Partners include the Black Canyon City Heritage Park, Arizona State University, Sierra Club, Friends of the Agua Fria National Monument, Friends of the Tonto National Forest, Salt River Project, Yavapai County Flood Control District, Arizona Audubon, Black Canyon City Historical Society, and the Smithsonian Institute. The exhibit will be on display in Black Canyon City, AZ on December 2019.
• Worked with a group of NAU students at Safford to produce a report evaluating the San Simon to determine hazard ratings for Gary. This report was the San Simon Barrier Dam Evaluation, published May 2018.

Multi-agency/multi-partner restoration projects
• Worked with The Nature Conservancy and the USGS, via an assistance agreement, to map mesquite bosques and sacaton grasslands, key riparian habitats, near Cienega Creek.
• Collaborated with Community Watershed Alliance on a restoration plan for St. David Cienega, an 80-acre wetland on the Northern end of the San Pedro Riparian National Conservation Area.
• Coordinated with the Community Watershed Alliance and Dr. Chris Eastoe, professor emeritus, University of Arizona to complete stable Isotope sampling at groundwater discharge points in and near the St. David Cienega, to understand water source components to the wetland.
• Wildlife Biologist and American Conservation Experience youth crews removed invasive riparian trees (Tamarisk) from portions of the SPRNCA.
• Coordinated with Cienega Watershed Partnership, University of Arizona, The Nature Conservancy, Arizona Antelope Foundation, and others to put on the annual Science on the Sonoita Plains Symposium, which includes presentations on the status of and emerging research in range, riparian, and cultural resources of the area.
• Coordinated with the Upper San Pedro Partnership, including The Nature Conservancy and USGS, to investigate a web-based information portal for all of the hydrologic and ecological data collected on the SPRNCA to be stored in one place.
• Coordinated with the Cienega Watershed Partnership and Watershed Management Group on their BOR grant to install Zeedyk structures, in primarily xeric riparian drainages and mesquite/sacaton lowlands on county and BLM lands.

Other Work Products
• Issued for public comment the Draft Resource Management Plan for the San Pedro Riparian National Conservation Area that includes riparian management goals and objectives.

Healthy Lands Focal Areas
• Western Arizona riparian project – Gila River: This project area is shared with the Colorado River and Phoenix Districts. As part of a 5 year project, Lidar and vegetation mapping of the Gila River has been underway as part of jointly funded partnership with the University of Arizona. In addition to the mapping, mechanical treatment of invasive species has been underway for the last two years. In FY17, Phoenix District utilized $75,000 towards purchase of a new mastication machine.
• Western Arizona riparian project – Mittry Lake: This project area includes multiple use projects including conversion of invasive saltcedar to native riparian habitat along the Colorado River. Funding this year went to chemical application to reduce salinity in the soils, herbicide application for bankline fishing access, and equipment charges for slash material removal. We also started working with partners to create additional access for the public. Minimal planning funding has been spent on this until all three agencies agree on how to move forward.
- **Western Arizona riparian project** – Wetlands: This project area is within the lower Colorado River between private and tribal lands that is managed as a recreation trail, threatened and endangered species habitat, fishing access, and incorporates fire breaks and hazardous fuels reduction. Funding this year went to maintain ADA access from the trail to the water, mechanical and chemical treatment of invasive species, and new signs for enforcement. Funding also purchased pipe rail gates to maintain a vehicle free trail.

**California**

**Training**
- CA Creeks and Communities held one Lentic PFC course in Susanville, CA August 22nd and August 23rd. (35 participants).

**Technical product**
- CA Creeks and Communities will hold a 2019 planning conference call in January to plan and coordinate 2019 trainings and coaching days. In 2019, CA Creeks and Communities will be involved in the NRST’s Lentic revision review with the inclusion of fens in the Lentic guide.

**Canada**

No report

**Colorado**

**Training**
- Lotic PFC Workshop, Gunnison, Colorado – July 24-25, 2018 (28 participants).
- Joint Lentic PFC Workshop, Grand Junction, Colorado – August 28-30, 2018. Workshop was taught by the Utah Riparian Team (Justin Jimenez, Mark Petersen, Justin Miner, Ken Bradshaw) with 4 members of the Colorado Riparian Team attending to observe the presentations and assist with the field sessions (24 participants).

**NRST Assistance**
- August 21-23, 2018: Steve Smith and Mark Gonzalez from the NRST traveled to Glenwood Springs, Colorado to assist the Colorado River Valley Field Office (CRVFO). Steve and Mark spent two days in the field with the CRVFO staff looking at riparian sites and conditions on the Roan Plateau near Rifle, Colorado. The final day of their visit was spent with both CRFFO staff and the grazing permittees about setting fair and realistic thresholds for livestock utilization in riparian areas and developing appropriate and achievable management objectives for the entire allotment. The CRVFO and Colorado State Office greatly appreciated the meaningful discussions and recommendations that resulted from Steve and Mark’s visit.

**Idaho**

**Training and Coaching**
- The Idaho riparian cadre conducted a 3-day lentic PFC calibration training in Challis this summer for the Challis field office. We practiced ways to define potential on a variety of wetland types from seasonal depressional wetlands to perennial springs that contribute water year round to a lotic system. Eight range, wildlife, and fisheries professionals participated in the training.
- Idaho BLM hosted and co-sponsored an NRST taught MIM training with Region 4 Forest Service in Salmon, Idaho in June 2018. There were 15 Forest Service and 15 BLM participants at this event.
• The Idaho riparian cadre conducted a 2-day lentic PFC calibration training in Salmon this summer for the Salmon field office. The training was well attended with 16 range, fish, wildlife, and Forest Service professionals. We looked at small sample of developed and undeveloped lentic sites within the field office. There may be interest in conducting a follow-up training in FY19 to evaluate an even wider range of lentic functional conditions within the field office.

Projects and Partnerships
• The Burley field office concluded a five-year study of riparian conditions in the Goose Creek watershed along the Idaho/Utah border with Trout Unlimited. The study was funded by the state office under a challenge cost share agreement. Five peer-reviewed publications came out of this work.

Montana/Dakotas

Assessments/Monitoring
• Assisted the Glasgow, Lewistown, and South Dakota Field Offices with riparian assessments and restoration planning.

Outreach/Collaboration
• Presentation on Prairie Stream Conditions & Management to the Nature Conservancy at their Annual Conference.
• Developed a mitigation plan and wrote the corresponding environmental analysis for an oil spill in a wetland that was recently acquired by the BLM for the purposes of birding/recreation.
• Partnered with the Montana Natural Heritage Program (i.e. Cooperative Agreement) to create unique layer files that depict the suite of information in the attribute tables of our riparian-wetland mapping products. The layers greatly simplify analysis of the data and help our specialists utilize the comprehensive suite of mapped/modelled attributes when evaluating resources and associated projects.
• The Lewistown Field Office continues to partner with the Sun & Teton Watershed group to collect water resource information that is used to ensure proper management of the resources.
• Finalized a Statement of Work with the Montana DEQ (via cooperative agreement and MOU) to analyze water quality and riparian-wetland data at a suite of reference sites throughout Montana. A report is forthcoming.

Multi-agency/multi-partner restoration projects
• Met with USGS, NRCS and watershed groups to develop a plan for monitoring the effectiveness of “low tech” restoration in Western Montana.
• Coordinated with state and federal agencies on the re-organization of the Montana Wetland Council and the upcoming 5-year plan.
• Assisted the Dillon Field Office and their partners (Beaverhead Watershed Committee, Ruby Watershed Council, NRCS, etc.) with the restoration of mesic meadows.
• Started a partnership with the USGS Water Science Center to model the Probability of Streamflow Permanence (PRoSPER), as well as establish an online interface that will utilize a suite of biophysical indicators and climatic variables to forecast the hydroperiod of streams for an upcoming field season. Kickoff meeting with agency partners hosted in September. This project was subsequently highlighted in a BLM Daily article.
• Received draft output from the Beaver Restoration and Assessment Tool (BRAT). After calibration and validation, this data will be shared with the partners across Montana/Dakotas and used to encourage Shared Conservation Stewardship. Furthermore, BLM will be contributing this data to the Greater Yellowstone Conservation Coalition, which is running the same model for the entire Greater Yellowstone Area and will combine our datasets to create a comprehensive/regional model to support future riparian-wetland management efforts.
Coordinated with Federal Highways and the ACOE to restore riparian-wetland areas in the South Dakota Field Office as compensatory mitigation for their regional projects. This included multiple conference calls that culminated in an interagency field tour to potential treatment sites on BLM land.

The Dillon Field Office worked with watershed groups, volunteers, and other agencies to restore hydrologic functions in several large meadow complexes. In total, ~180 small rock/wood structures were installed to stabilize vertical instabilities, reduce stream power, capture sediment, and increase infiltration in strategically prioritized meadow complexes.

The Lewistown Field Office partnered with the Friends of the Missouri River National Monument to plant and irrigate cottonwoods along sections of the Missouri River Floodplain that are both critical to recreation (i.e. shade for campsites) and adversely affected by upstream flow modifications (i.e. limited new recruitment).

Other Work Products

- The Dillon Field Office finalized a programmatic EA for “low tech” riparian-wetland restoration. This is streamlining NEPA and is expected to greatly increase their ability to implement simple, low risk restoration. Furthermore, it has increased the rate at which sub-optimal low water crossings are repaired.
- Partnered with the Montana Watershed Coordination Council (MWCC) to publish a watershed & organizational management guide for new watershed groups. This project ties directly to the Montana/Dakotas BLM’s objective of increasing local capacity for partnerships and shared conservation stewardship.

Nevada

Training and coaching and facilitate information sharing

- Provide field-based training and coaching related to the effective implementation of an integrated riparian management process.
- Swanson, S., Scott Lusk, John McCann, Carol Evans, and Jacob Burdick 2018. Riparian Proper Functioning Condition Assessment for Integrated Riparian Management. May 30-June 1. Carson City, NV.
- Swanson, S., J. McCann, C. Evans, J. Burdick, and S. Lusk. 2018. PFC Assessment for Integrated Riparian Management August 14-16, Battle Mountain, NV.
- Swanson, S. 2018. REM 499 Riparian Management and Restoration (three Credits). August 27-December 13. University of Nevada, Reno. (Students were taught the Nevada PFC for IRM class with embellishments).
• Create digital training modules and other products
  o The fourteen slide sets used by the Nevada Creeks and Communities team have been revised so that they are current, include more of the what can be done to improve management and cause restoration, and so that they are accessible to the disabled.

Share information on existing organizations, trainings, and other resources
• Our list serve for announcements about classes has more than 500 email addresses.

Connect and work with partners The following presentations per made by the Team coordinator:
• Swanson, S. 2018. Riparian Proper Functioning Condition Assessment & Integrated Management. International Conference – Workshop: the Role of Climate Change and Land Use in Landscape Dynamics -- July 8-9 Gravina, Puglia Italy.
• Sherman Swanson. 2018. Riparian PFC for IRM of Incised Streams Paradise Sonoma Conservation District. May 3, Paradise Valley, NV.
• *Swanson, Sherman. 2017. Use of the Grazing Response Index, NV-SRM Winter Meeting – Monitoring Nevada’s Rangelands, November 16, Winnemucca, NV.
• *Swanson, Sherman. 2017. Riparian Proper Functioning Condition vs. Serial Engineering USEPA Riparian Functions and Water Quality Research Meeting October 27, Reno, NV.
• * Swanson, Sherman. 2017. Riparian Proper Functioning Condition vs. Serial Engineering California and Nevada Section Soil and Water Conservation Society. October 20, Reno, NV.

Resolve issues through tailored assistance and collaboration
• Provide customized, site-specific assistance using an integrated riparian management process and involving interested and affected individuals and organizations to address issues and conflicts in a collaborative manner
  o Nevada Collaborative Conservation Network 2016-present
  o Results Oriented Grazing for Ecosystem Restoration (ROGER) 2016-present
  o Nevada Division of Forestry Advisory Committee 2016-present
  o Range 454 Series Taskforce 2016-present
  o Jordan Meadows (JM) Allotment Collaborative, 2016-present
  o ANVS Committee to revise curriculum for agriculture and natural resources majors 2015-present
  o Sagebrush Ecosystem Council appointed by the Governor to represent the general public 2014-present
  o National Association of Rangeland Program Leads 2013-present
  o Nevada Partners for Conservation and Development 2010-present
  o Rangeland Science Education Council 2008-present
  o Cottonwood Ranch and then Shoesole Holistic Management Team 1999-present
  o Carson River Coalition Research Monitoring and Education Committee, 1998-present, co-chair 1999
  o USDA Natural Resources Conservation Service State Technical Committee 1994-2001 & 2009-present
Nevada Conservation Commission Ex-officio Commissioner for CABNR 2013-present
Society for Range Management Annual Meetings in Reno, NV: Program Committee CoChair 2018
UNR Soil and Water Conservation Society Student Club Advisor 2018 – present

- The Team Coordinator participated in the following site visits or meetings
  - East Fork of the Walker River with Nevada State Parks Director.
  - Annie Overlin Riparian Meadow Grazing Thesis defense
  - Nevada Cattlemen’s Association
  - Heath Rush, Humboldt River landowner
  - California PFC Cadre Meeting
  - Nevada Silver Jackets Flood Mitigation Training
  - Lentic MIM conference call.
  - Cottonwood Creek and Salmon Falls Creek on Shoesole tour
  - Jordan Meadows allotment
  - Riparian Plant Identification class field day
  - Lisa Taylor re Lander County
  - NAES field day
  - Steamboat Creek wetlands restoration walk.
  - Strategies for outcome based Grazing on the Uhalde Ranch BLM Allotment

- Provide customized, site-specific assistance to technical specialists, interdisciplinary teams, and managers
  - PFC assessments at 12 lentic research sites with graduate students.
  - Lentic PFC coaching with Amanda Gearhart Susanville BLM Wild Horse Management Specialist.
  - PFC Assessments on Rough Creek for Nevada State Parks.
  - Planning for integrated riparian management with Nevada State Parks.
  - Incised channels and accelerated erosion near Gravina, Puglia Italy.
  - Meeks Creek field assessment for the Washoe Tribe.

Develop state-of-the-art information and tools
- Develop and revise interagency technical documents and other products

- Provide input, review, and advice regarding technical documents, tool, and other products

Link field-based activities with policymakers
- Contribute to the FS, BLM, and NRCS accomplishments by linking to department, agency, and program strategic plans, focus areas, and initiatives
  - Coordinator represents the General Public on the Nevada Sagebrush Ecosystem Council and is an active participant in the discussions about the revisions to the BLM and FS sage-grouse Conservation EISs.
  - Coordinator participates with Results Oriented Grazing for Ecosystem Resilience (ROGER), which has two of the five Outcome based Grazing Management Demonstrations projects and our discussions have influenced the progress of these.

- Integrate, coordinate, and collaborate with FS, BLM, and NRCS agency riparian programs at the national, regional, state, and field levels
Conducting research funded through BLM and Forest Service to examine the effects of wild horse grazing on lentic riparian systems.

- Integrate, coordinate, and collaborate with other agency and partner programs – See above

**Support the Creeks and Communities program and cultivate the Creeks and Communities Network**

- Populate and maintain the existing network while evolving and expanding to include other agencies, partners, and a general membership.
  - See the NvCCT web site [http://naes.unr.edu/swanson/Extension/PFCTeam.aspx](http://naes.unr.edu/swanson/Extension/PFCTeam.aspx)
- Provide within-network information sharing, coordination, and collaboration opportunities.
  - The Nevada Team and Coordinator participates with the California Team to augment trainings.
- Create awareness and understanding of, and support for, the C&C program
  - This is part of our PFC for IRM classes and reflected in on-line slide sets and videos.
- Ensure effectiveness through ongoing evaluation and adaptation.
  - Participants evaluate classes and the results are shared with instructors.
- Effectively manage the program and network operations
  - The web site (link above) and announcements about classes are the primary contribution to this goal.

**New Mexico**

No report

**Oregon**

No report

**Texas**

There is no formal C&C Riparian Team in Texas, but there are a number of individuals, groups and agencies loosely working together to provide outreach, education and consultation on riparian function and riparian management. These groups include:

- Texas Parks and Wildlife Department (Melissa Parker)
- Texas Water Resources Institute (Nikki Dictson)
- NRCS (Russell Castro or Kyle Wright)
- Nueces River Authority (Sky Lewey)
- Mayben Riparian Services (Ken Mayben)

**Training**

- Texas Section SRM riparian function presentation, Uvalde
- Soil For Water Riparian Monitoring training, Wimberley
- Urban Riparian Conf - Understanding Riparian Vegetation, Houston
- Angelo State University - teach riparian class to senior range management class
- Frio River Riparian Workshop (TPWD) Understanding riparian function
- Hill Country Land Trust - Riparian Field Day, Honey Creek, Llano co
- Texas Tech Riparian Restoration Project (with TPWD and Mayben) April - June
- Sul Ross State Univ. - Riparian Field Trip associated with riparian course
- Dogwood Canyon Master Naturalist, Cedar Hill, approx. 30 attendees
- Highland Lakes Master Naturalist, Marble Falls, approx. 30 attendees
- Urban Riparian Symposium, Houston, approx. 50 attendees
- TPWD Frio River Landowner Workshop, Leakey, 40 attendees
Landowner Assistance
- Dileo Ranch - Riparian consultation, Blanco River
- Joanie Harris Ranch - Riparian consultation, Fredericksburg
- Dileo Ranch - Plant willow stakes and poles
- HEB Camp - Riparian consultation
- Porter Ranch - Riparian consultation, Gillespie County
- Texas Tech University - South Llano River Project
- Sabinal River, Utopia

Utah

Training and Coaching
- September 27, 2018 Utah Riparian Team members met with the Grand Mesa Uncompahgre and Gunnison National Forests and BLM CO Grand Junction Field Office to identify and select potential sites for upcoming lentic PFC training. The objective of this was to provide a diversity of lentic sites from higher elevation forested to lower elevation sage steppe spring systems and wetlands as well as assess sites that were of importance to the landowners.

- September 28-30, 2018 the Utah Riparian Service Team partnered with the Colorado (CO) Riparian Team cadre to put on a 3-day training session on the Process for Assessing Proper Functioning Condition (PFC) of Lentic Areas in Grand Junction, CO. This is the fifth year the Utah Riparian Team has offered this lentic training it was an opportunity to share it with the CO Team. Course evaluations determined the training was well-received (30 participants).

Riparian Assessment and Monitoring
- The Utah Riparian Team was requested by Zion National Park to complete PFC assessments and a report for the Hop Valley Watershed, Zion National Park. The Hop Valley watershed includes both lotic and lentic sites that the UT Riparian Team backpacked into and evaluated the week of September 24, 2018. Field assessments were conducted by an interdisciplinary (ID) team including three Utah Riparian Team members as well as three to five Zion National Park employees/interns. The Hop Valley stream was stratified into six (6) reaches. Reaches were stratified based on major tributary confluences, stream types, and land ownership boundaries. One wet meadow lentic site was also assessed. Following the TR 1737-15 protocol for assessing proper functioning condition of riparian areas, the ID team assessed the functionality of each of the six reaches. One reach was determined to be at PFC, four (4) reaches were determined to be FAR, and one (1) reach was determined to be NF. Following TR 1737-16 protocol, the wet meadow valley bottom lentic area was determined to be FAR due to the headcut at the valley and stream channel confluence. A report of this work is available and can be shared upon request.
- Worked to ensure all known collected PFC and MIM data that the Utah Riparian Team has been involved with collecting is housed within the PFC database and updated to meet MIM data analysis module requirements.

Collaboration/Outreach
- Utah Riparian Team Coordinator attended Utah Partners for Conservation and Development, Watershed Restoration Initiative meeting and shared information regarding the Utah Riparian Team and associated creeks and communities activities.
- Utah Riparian Team Coordinator attended and presented at the 2018 Utah Watershed Coordinators Counsel meeting and shared information regarding the Utah Riparian Team and associated creeks and communities activities.
- At each training and service trip listed below Utah Riparian Team outreach and marketing information was shared.
Other Work Products

- Submitted FY 18 BPS proposal and awarded funding to assist in providing funding for Utah Riparian Team Co-coordinator position and Wetland Ecologist position. Worked with NRST to utilize existing in place contract to ensure work was contractually documented and BLM UT funds were transferred. BLM CO assisted with funding and contract work associated with Grand Junction, CO Lentic PFC Training.
- Planned, documented and reported all activities of the Utah Riparian Team in 2018 including team brochure, training call letters, participant letters, participant contact lists, training agendas, course evaluations, etc.

Washington

No report

Wyoming

No report