



Riparian Restoration in the Context of Change

Sponsored by Cross Watershed Network for:



To RSVP: Register [online](http://tamariskcoalition.wildapricot.org/event-2200049) at: <http://tamariskcoalition.wildapricot.org/event-2200049>

Date: April 21, 2016

Location: Colorado River Corridor in Utah - Cisco to Mayberry Plant Center

Time: 9:00 am convene at Cisco; end at Mayberry Plant Center at 3:30 pm
(See below for carpooling options and travel times)

Purpose:

1. Provide an opportunity for dialogue between practitioners and researchers.
2. Increase understanding of ecosystem effects of invasive species and tamarisk beetle defoliation on future plant community composition.
3. Share management approaches to direct desirable future ecosystem conditions.
4. Provide input to researchers such that future research projects can be tailored towards informing management goals and objectives.

Schedule:

- 7:30 **Moab Participants** - Meet at the Lions Park Travel Hub to carpool to Cisco
Grand Junction Participants – Meet at [Canyon View Park](#) to carpool to Cisco; please park near the entrance off of 24 Rd.
- 9:00 Overview and Introductions Cisco
 - Overview of the day/objectives/logistics
 - Brief overview of partnerships (DRC & SURP) and Cross Watershed Network
 - Participant introductions
- 9:30 Effects of Tamarisk Defoliation on Future Plant Communities Fish Ford
Presenter: Dr. Sasha Reed, USGS
 - Plant community and soil chemistry changes after tamarisk defoliation
 - Desirable future conditions – how do we work in altered sites
- 10:30 Use of Biocontrols in Riparian Restoration Nielson Ranch
Presenters: Tim Higgs, Grand County & Dr. Dan Bean, Palisade Insectary
 - Gall wasp and gall midge

Space is limited; register today!

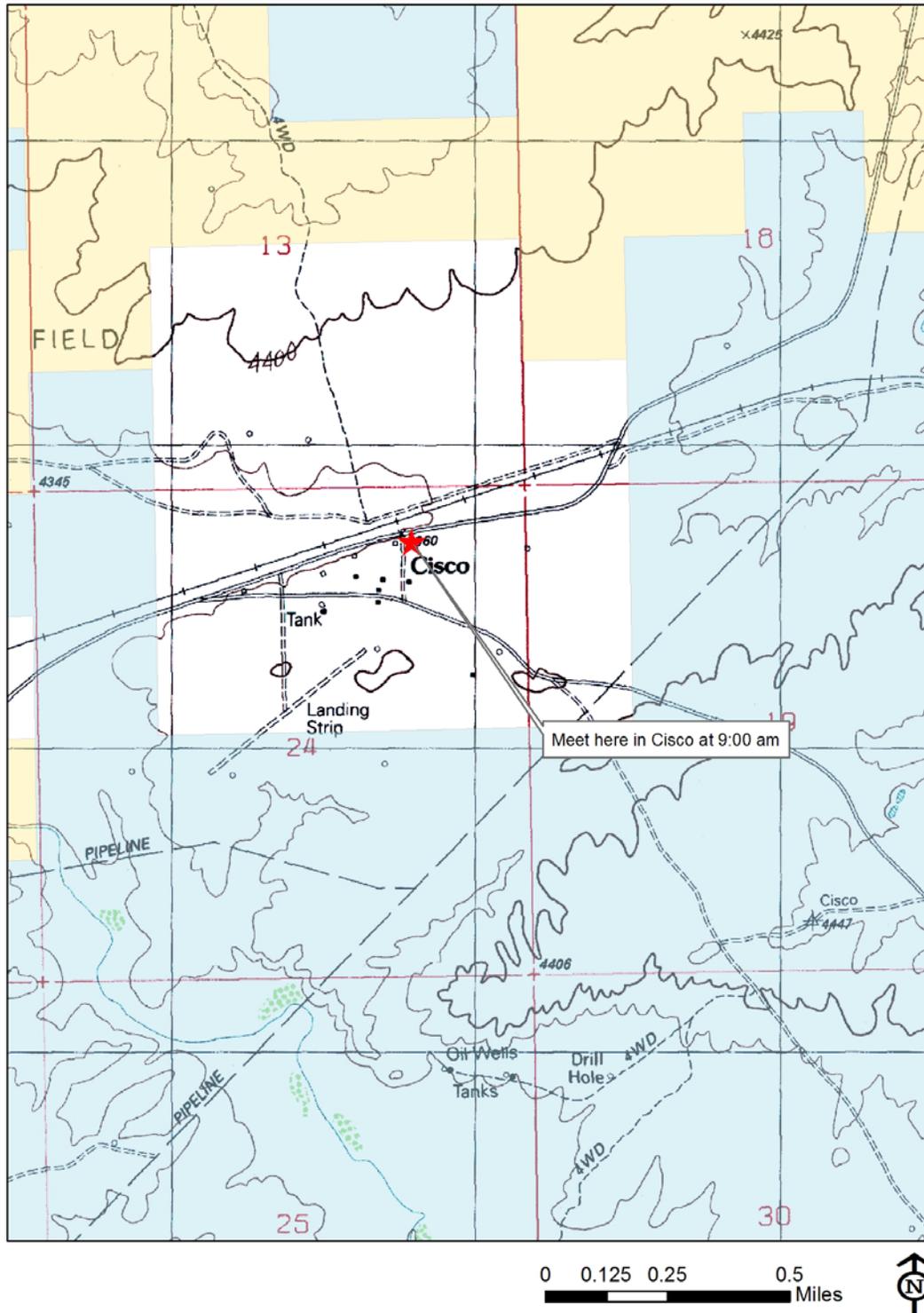
- 11:15 UT and CO Noxious Weeds – Continued and emerging concerns Nielson Ranch
Presenters: Tim Higgs & Teresa Nees, Mesa County Noxious Weed & Pest
- Priorities
 - Opportunities for continued collaboration
- 12:30 Lunch (provided by Southeast Utah Riparian Partnership) Mayberry Plant Center
- 1:30 Plant Materials for Restoration Success Mayberry Plant Center
Presenter: Kara Dohrenwend, Rim to Rim Restoration
- Planning for restoration needs; management & training needs
 - Non-traditional seeding options
- 2:30 Understanding the Role of Geomorphology in Restoration Mayberry Plant Center
Presenter: Dr. Jack Schmidt, Utah State University
- Riparian ecosystem response to altered flows and sediment imbalance
 - Restoration Objectives - treating symptoms or causes
- 3:30 Wrap Up and Depart
- 4:00/5:00 Arrive back in Moab/Grand Junction

Attachments:

- Map
- Presenter bios

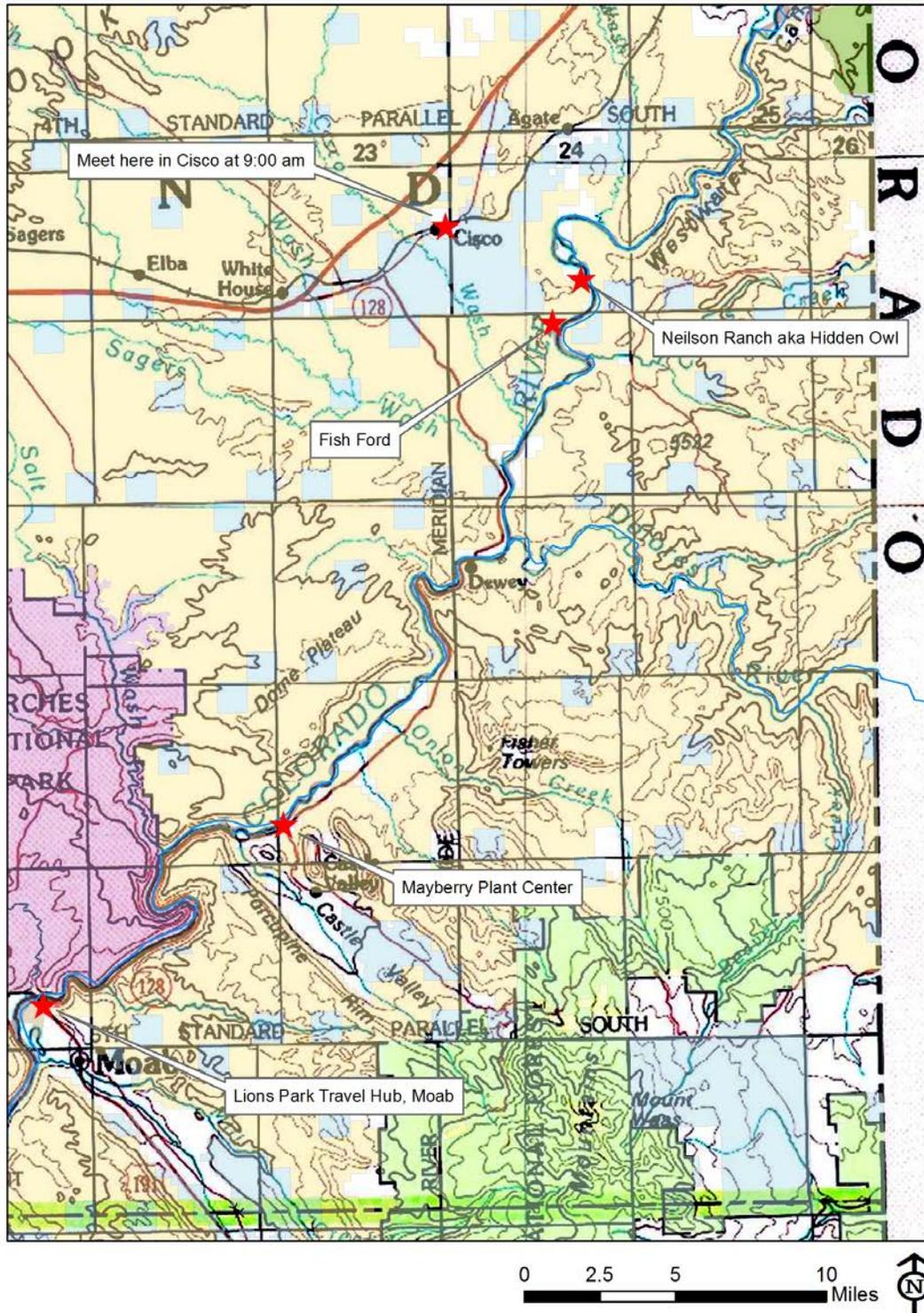
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Presenters' Bios

Dr. Sasha Reed

Scientist, U.S. Geological Survey, Canyonlands Research Station

Sasha is a scientist with the U.S. Geological Survey (USGS) and a member of the Southwest Biological Science Center. Her research interests are centered within the fields of biogeochemistry and ecosystem ecology. Currently, Sasha studies terrestrial ecosystems in Utah, Arizona, New Mexico, California, Colorado, Hawaii, Puerto Rico, Bolivia, Perú, and Costa Rica. Beetles (*Diorhabda elongata*) are affecting plant communities across the western U.S., causing major Tamarisk (*Tamarix* spp.) defoliation events. Understanding how this defoliation and likely death of Tamarisk will affect future riparian communities is at the heart of Sasha's Utah research. Sasha is part of a multi-Center USGS team working to assess the consequences of defoliation on exotic plant invasion, biogeochemical cycling, hydrology, plant-water interactions, and bird and mammal communities. The central goals are to understand what aspects of defoliation and mortality help determine the trajectory of future community composition and what management approaches might take advantage of this understanding to reduce exotic plant invasion.

Tim Higgs

Weed Supervisor, Grand County, Utah

Tim has worked as Grand County's Weed Supervisor since 1990. He received his B.S. from Utah State University in 1985 in Forest Biology with 17 credits in plant identification. He uses an integrated approach to weed management including biological, mechanical and chemical control methods. For the past decade Tim has been a Board member of the North American Invasive Species Management Association. He was in the past the President of the Weed Supervisor's Association for the State of Utah.

Dr. Dan Bean

Director of Biological Pest Control, Conservation Services, Colorado Department of Agriculture

Dan has been director of Colorado's biological pest control program for 11 years. The program is centered at the Palisade Insectary in western Colorado and the mission is to provide safe and effective biological control agents for use against weeds and insect pests. Current projects include the biological control of tamarisk, field bindweed, Canada thistle, leafy spurge and Russian knapweed. Dan is particularly interested in the ecology, physiology and behavior of biocontrol agents and how these elements impact the safety and efficacy of biocontrol. Dan studied insect physiology and a PhD in entomology from the University of Wisconsin.

Teresa Nees

Coordinator, Mesa County Noxious Weed & Pest Management

Teresa has been with Mesa County Weed & Pest nearly 2 years, starting as a seasonal field tech and moving to a full-time position as Coordinator in fall 2014. MCNWP fills a niche in the area by dedicating a majority of the field time toward the treatment of approximately a dozen low-occurrence noxious weed species listed for eradication in Mesa County including; purple loosestrife, diffuse and spotted knapweeds, toadflaxes, spurges, and yellow starthistle. Teresa

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maintains administrative duties related to the Upper Grand Valley Pest Control District, county ROW weed control, obtaining funding for seasonal fieldwork, as well as being involved with fieldwork and frequent public education events. Teresa has lived in Grand Junction since 1990, has a BS in chemistry from Fort Lewis College and has years of work experience in an analytical lab and teaching from the elementary through college levels.

Kara Dohrewend

Program Manager, Rim to Rim Restoration

Kara's training started with creek restoration work in urban areas in the East Bay of the SF Bay Area. She has lived and worked in SE Utah for over 25 years focusing on upland and riparian restoration projects including large scale invasive plant removal, bioengineering of disturbed and cleared areas including creek banks and exposed slopes subject to wind and water erosion, and regionally sourced native plant propagation. A current project is converting the old Mayberry Orchard 16 miles from Moab into a Native Plant Propagation Center focusing on Colorado Plateau sourced materials development and production and related research opportunities.

Dr. John C. Schmidt

Professor, Utah State University

Jack is Professor of watershed science in the Department of Watershed Sciences at Utah State University. Jack has devoted 30 years of research to studying the effects of dams and diversions on the geomorphology of streams, especially in the Rio Grande and Colorado River systems, and he has actively worked on translating his research findings into strategies to improve the native ecosystems of rivers of the Southwest. He was one of the scientists who conceived of the role controlled floods might play in rehabilitation of the Colorado River in Grand Canyon. In 2009, he received the National Park Service's Director's Award for his career-long research program focused on the large, regulated rivers of the National Park system. Between 2011 and 2014, he served as Chief of the U.S. Geological Survey Grand Canyon Monitoring and Research Center. Throughout his career, Jack has worked to encourage collaboration among federal and state agencies, tribes, non-governmental organizations, and academic institutions in the rehabilitation of rivers throughout the Southwest.

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