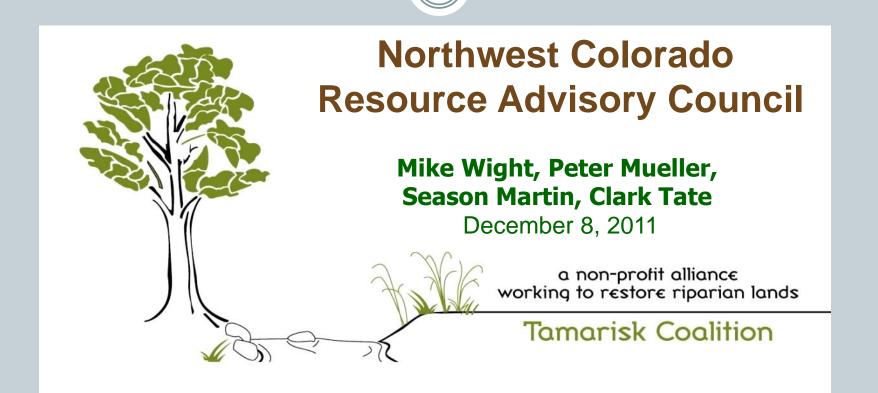
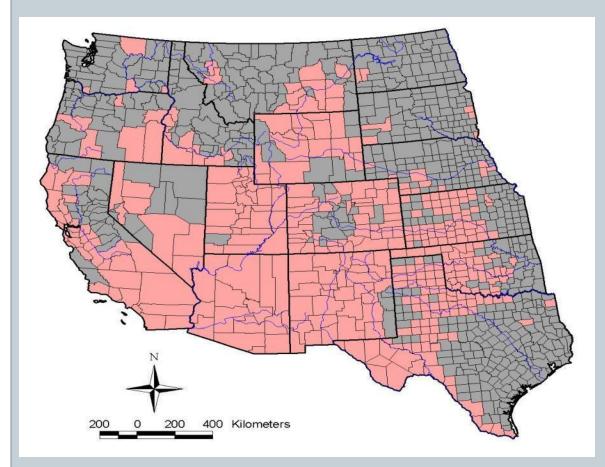
Tamarisk Dolores River Restoration Partnership Northwest Colorado Watershed Partnership





Distribution



Tamarisk covers
approximately
1.6 million
acres of
riverside lands
within the
western United
States

Courtesy of Fred Nibling, Bureau of Reclamation





News Release

April 28, 2010	Peter Soeth, Reclamation	303-445-3615	psoeth@usbr.gov
	Pat Shafroth, USGS	970-226-9327	shafrothp@usgs.gov
	Curt Brown, Reclamation	303-445-2098	cbrown@do.usbr.gov
	Catherine Puckett, USGS	352-278-0165	cpuckett@usgs.gov

Invasive Saltcedar and Russian Olive Trees Consume Similar Amounts of Water as Native Cottonwoods and Willows, Wildlife Effects Mixed

Long considered heavy water users and poor wildlife habitat, non-native saltcedar and Russian olive trees that have spread along streams and water bodies in the West may not be as detrimental to wildlife and water availability as believed.

In a U.S. Geological Survey report requested by Congress and released today, scientists conducted a review of the scientific literature to assess the existing state of the science on the distribution and spread, water consumption, and control methods for saltcedar (also called tamarisk) and Russian olive. They also assessed the considerations related to wildlife use and the challenges associated with revegetation and restoration following control efforts.

The report was a collaboration among the USGS, the Bureau of Reclamation, U.S. Forest Service, and

Tamarisk Induced Changes in Channel Structure and Associated Habitats



Floodplain and Channel Modified by Tamarisk into a Homogeneous, Narrow, Deep Run Habitat

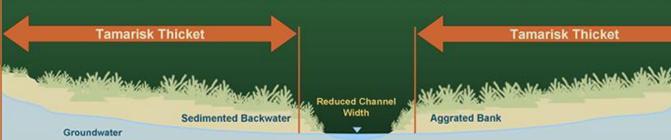
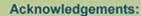


Figure 1



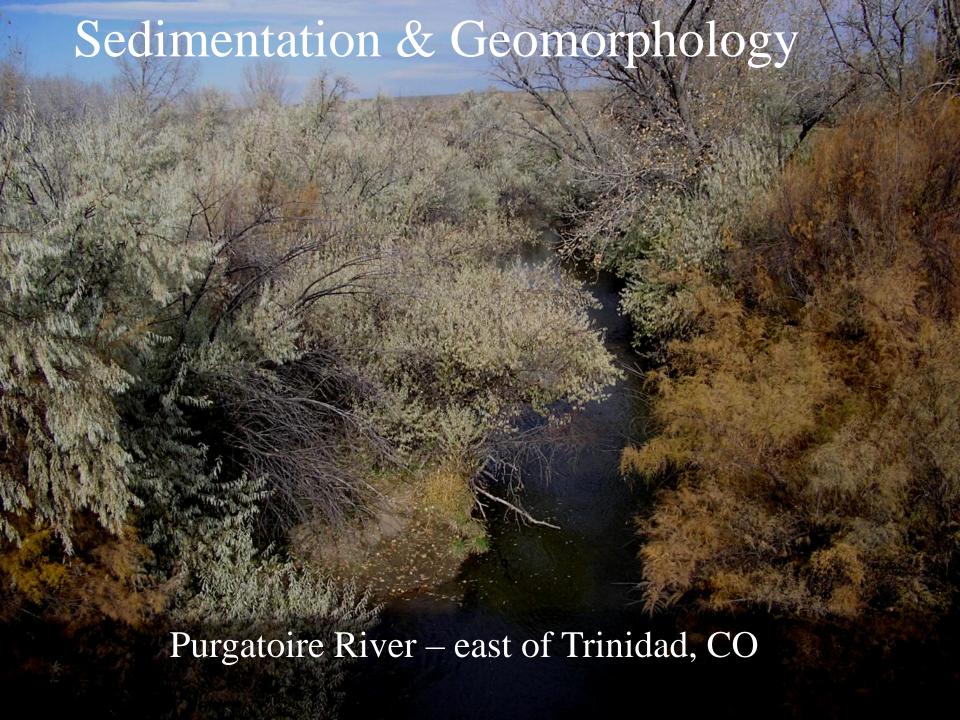












Tamarisk Induced Changes in Channel Structure and Associated Habitats



Floodplain and Channel Modified by Tamarisk into a Homogeneous, Narrow, Deep Run Habitat

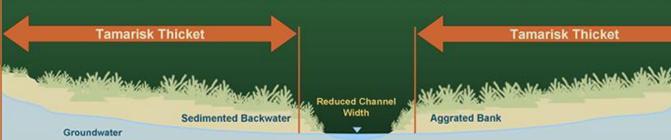
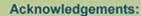


Figure 1



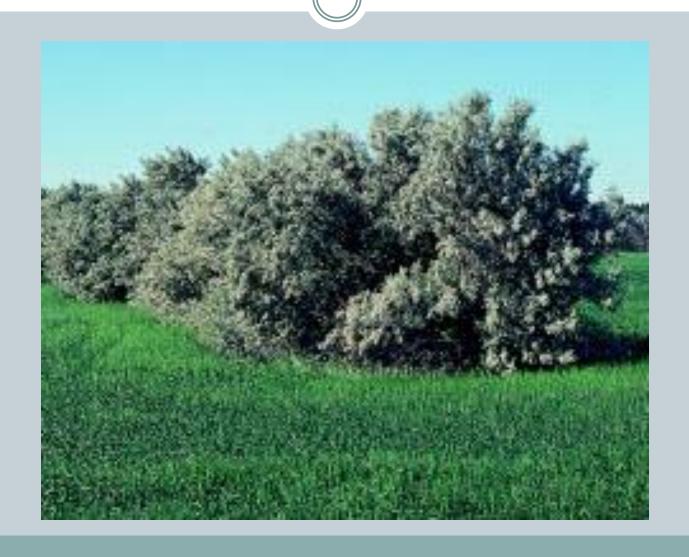




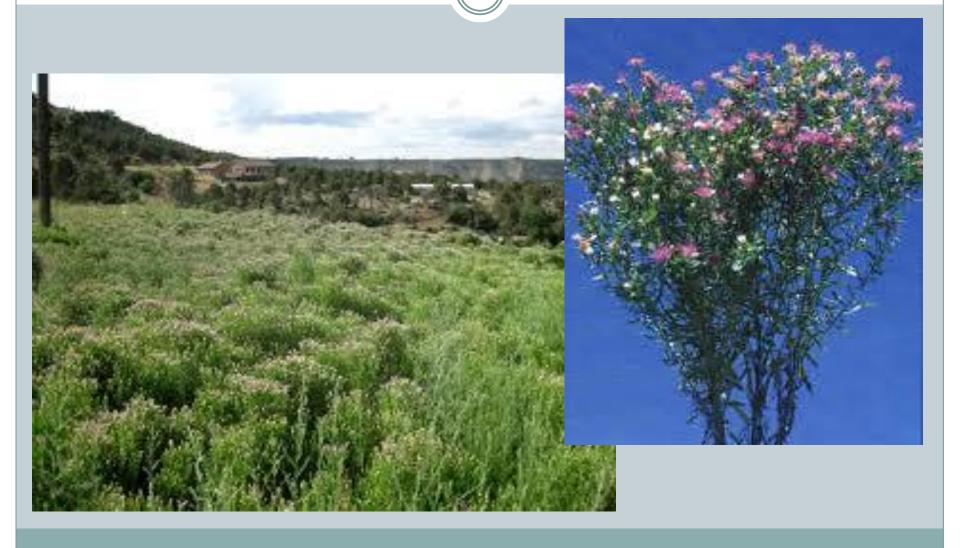




Other Invasive Species: Russian Olive



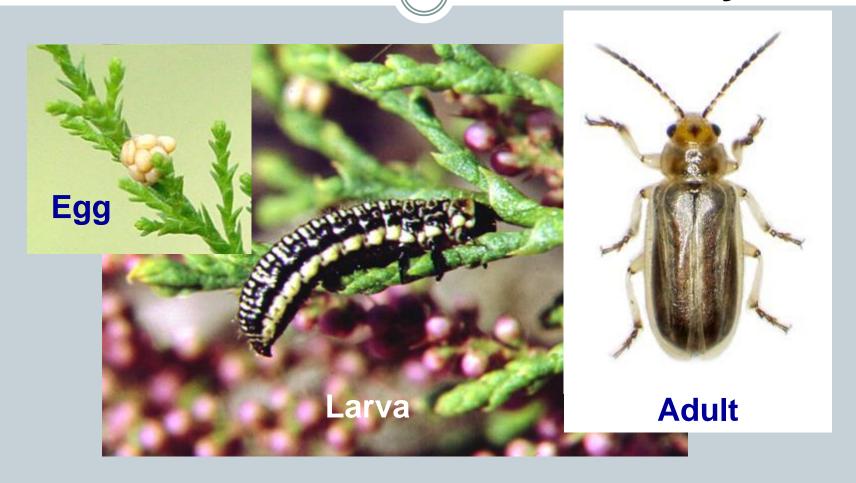
Russian Knapweed







First Saltcedar Biological Control Agent Released in North America in May 2001



Saltcedar Leaf Beetle, Diorhabda elongata deserticola from China

The results of weed biocontrol are a new equilibrium between plant and herbivores





















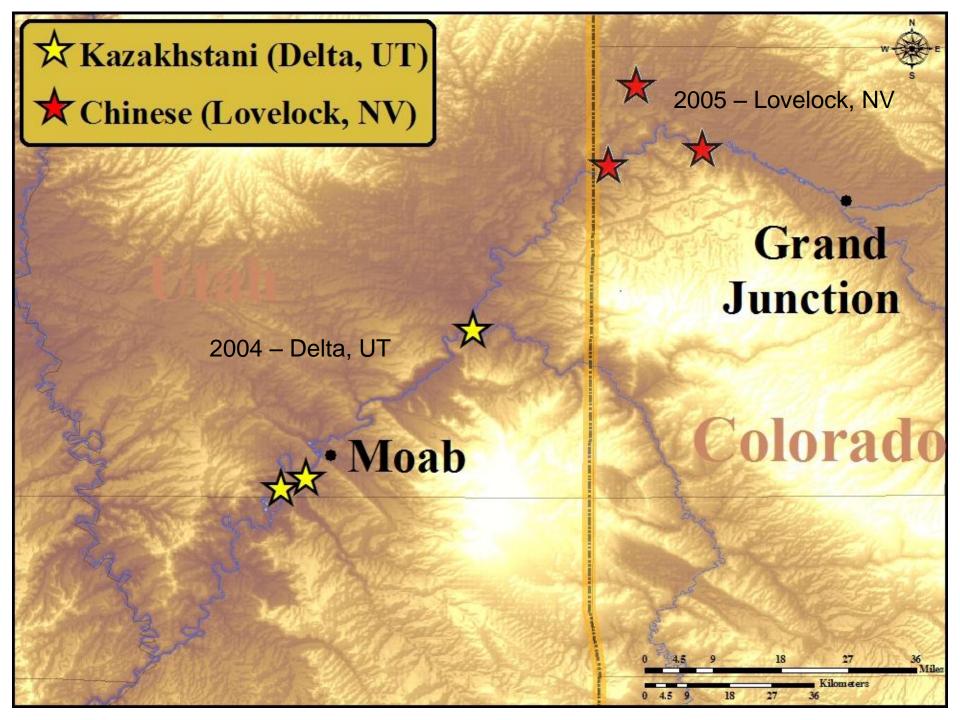


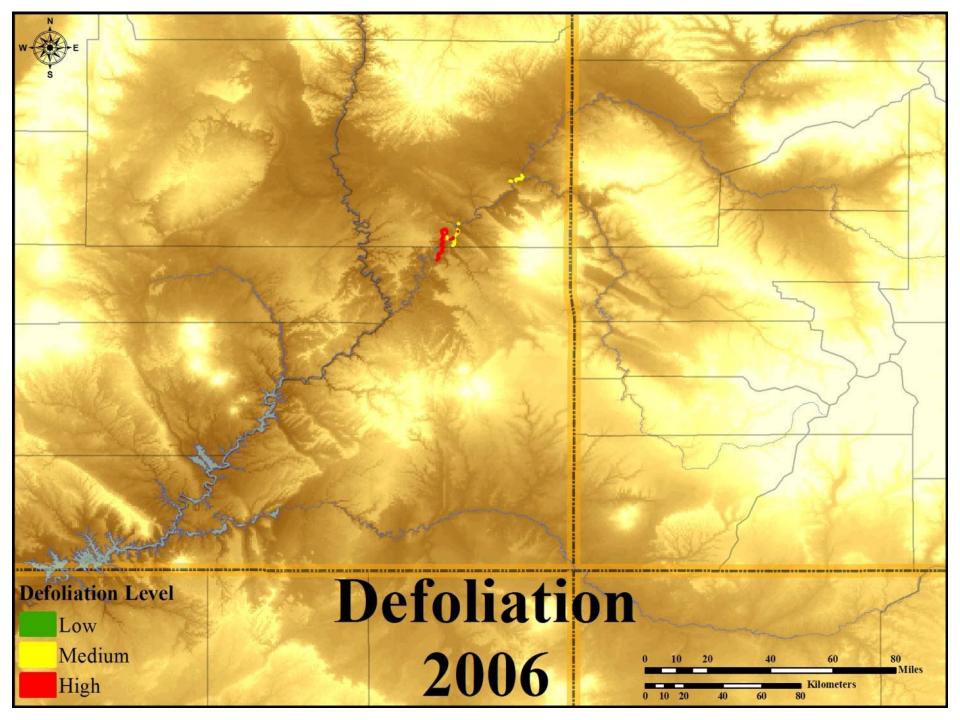




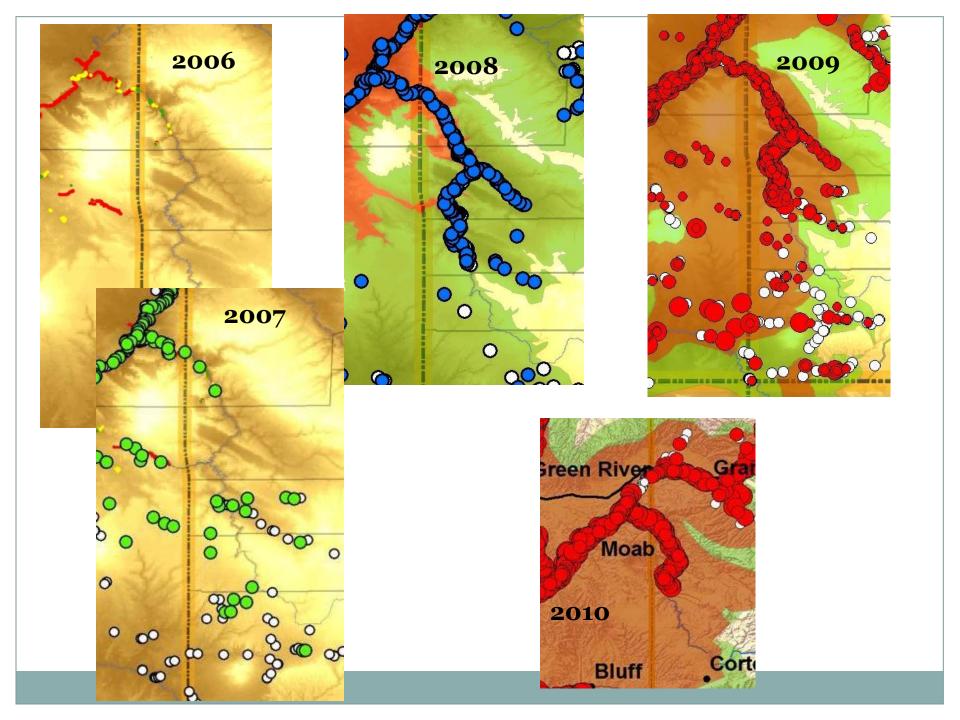














A PUBLIC - PRIVATE COLLABORATION

Partners (MOU)

- -The Nature Conservancy
- -The Tamarisk Coalition
- -Bureau of Land Management:
- Tres Rios, Uncompangre, Grand and Moab Field Offices
- -Walton Family Foundation
- -Counties: Dolores, San Miguel, Montrose, Mesa, Grand (Utah)
- -Natural Resource Conservation Service CO
- -Colorado Association of Conservation Districts

- -Rocky Mountain Bird Observatory
- -Canyon Country Youth Corps
- -Southwest Conservation Corps
- -Western Colorado Conservation Corps
- -USFWS- PFW Colorado'
- -USFWS-PFW Utah
- -University of Utah, Rio Mesa Center
- -Colorado Department of Transportation
- -Colorado Parks and Wildlife
- -Utah Division of Wildlife Resources, Moab



DRRP Organizational Diagram - 2011



Dolores River Restoration Partnership

Public land managers, private landowners, resource agencies, nonprofits, technical experts, private foundations and other stakeholders

Advisory

Core Team

BLM, TNC, TC, Conservation Corps, Walton Family Foundation and Facilitator

Coordinates/
Facilitates

Subcommittees/
Ad Hoc Committees

Science and Monitoring
Funding
Outreach and Education
Private Lands
Grazing Management

Implementation

BLM and other land managers, with assistance and coordination from Core Team

Technical Experts

Dolores River Riparian Action Plan

Understanding the Problem Compile Mapping **Identify Stressors & Assumptions** Create Vision/Goals **Define Priorities** Identify Funding Implementation Monitoring/Adaptive Management

Vision:

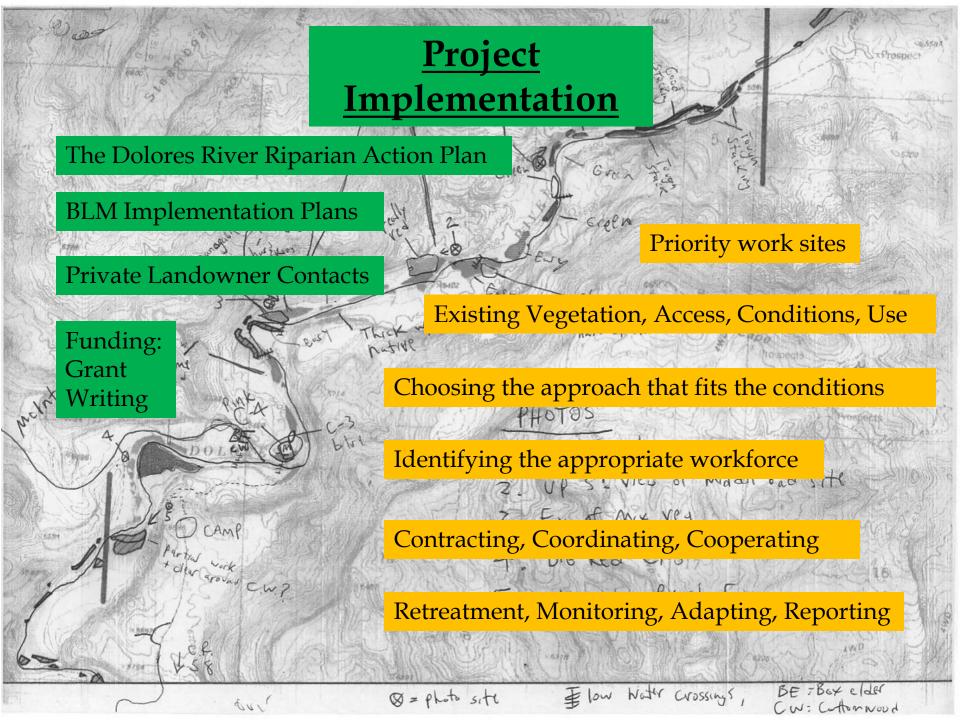
A Dolores River watershed dominated by native vegetation where threats from tamarisk and other invasive species have been mitigated and the riparian areas of the watershed continue to become more naturally functioning, self-sustaining, diverse and resilient over time.

Five Year Goals:

- A watershed wide approach to reduce tamarisk infestations to 5%
- Reduce other invasive species to 15% cover
- Increase Employment opportunities for youth and contractors in the area.
- Enhance visitor travel, aesthetic enjoyment for recreation
- Reduce the risk of wildfire
- Improve Wildlife Habitat
- Share lessons learned
- Monitor changes and incorporate adaptive management
- Use the Dolores Watershed and the partnership as a model for others

Getting the Work Done: Partnership Sub-Committees

- Science and Monitoring: Identifies Shared Methods, Shares Lessons,
 Adaptive Management, Contracting, Compiling
- Outreach and Education: Assist other subcommittees in reaching goals, Identify Audiences, Spread the Word, Events, News, Volunteer Projects...
- **Fundraising:** Assure Financial Support, Identify Grants, Match Funds with Projects
- **Implementation:** Assist BLM w/ Implementation plans, Identify Methods, Contractors, Approach, Get Work Done!
- Grazing: Identify How Grazing and Restoration can go Hand in Hand
- Private Lands: Connecting with landowners, NRCS,

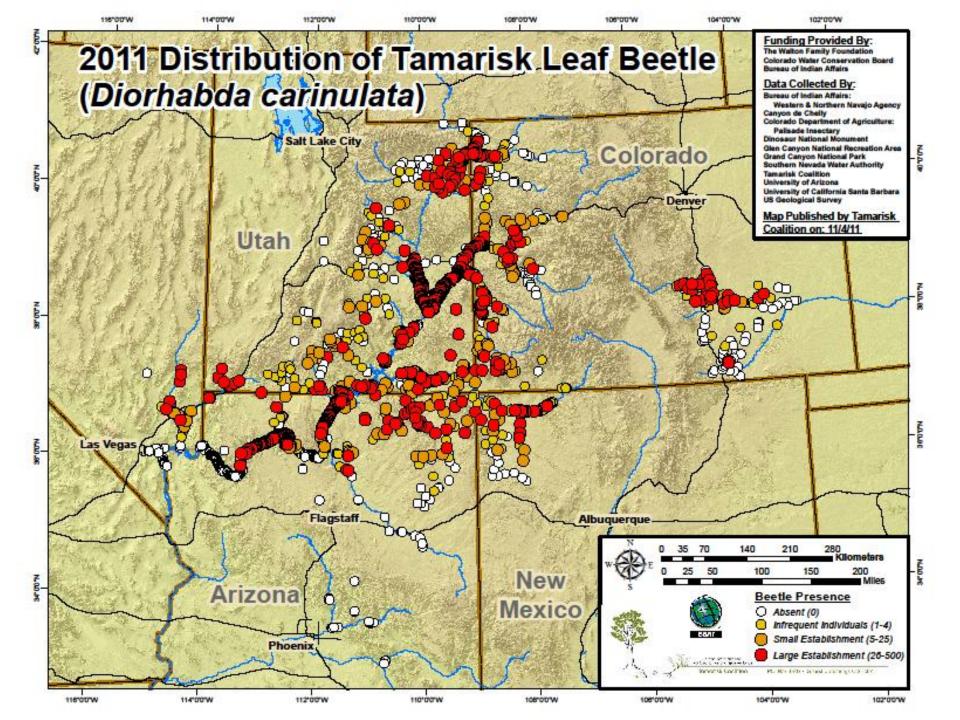


Progress

- Completion of Dolores River Restoration Action Plan, Spring 2010 (guiding document)
 - Completed 2012 Implementation plan with the four BLM Offices
 - Entering year three of on-the –ground implementation with Conservation Corps and Contractors.

- Treated over 400 Acres of Tamarisk, covering more than 40 river and tributary miles.
- Hired over 90 individuals to accomplish project work.
- Engaged Multiple new partners, funders, private land owners
- Awarded over \$35,000 in AmeriCorps Education Awards. 09/28/2010 08:37
- Established watershed wide and site specific monitoring protocols







The DRRP supports local contractors for mechanical removal projects

Matching Project Types with the Appropriate Workforce

<u>Biocontrol</u> - Inaccessible sites, Sites with High % of Natives & Low & of Tamarisk, Sites with High % of Tamarisk and No Natives (active restoration not feasible)

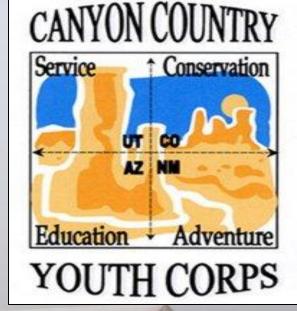
Mechanical- Access and terrain are appropriate, lower mix with natives

Hand Crews (Corps or other)- remote/difficult terrain, inaccessible for machinery, delicate work around natives, cultural or wildlife resources











Opportunities

- Corps Create Jobs and hire young adults.
- Train and teach skills
- Foster stewardship and work ethic through conservation projects
- Prepare members and leaders for positions with Land Management Agencies
- Improve communication skills, sense of community, team building
- Provide opportunities for scholarships, future education through AmeriCorps
- Healthy Lifestyle

Benefits to partnering with corps:

- Management of the logistical support to crews working in a variety of project types and terrain
- Job creation and training for <u>regional</u>, <u>local</u>, <u>diverse</u> youth and young adults.
- Ability to bring additional funding to the partnership through corps multi pronged approach to conservation (AmeriCorps dollars and education awards)
- Staff time that can contribute to grant research, outreach and education, and volunteer projects
- Empower young adults to care about the environment, create stewards through conservation projects
- Media attention
- Creates pathways for careers in public land management or conservation.

Riparian Restoration

Projects

Invasive Species

Trail and OHV

Construction













Fencing

Planting









Road Closures

Historical Restoration

Weatherization

Individual Placements





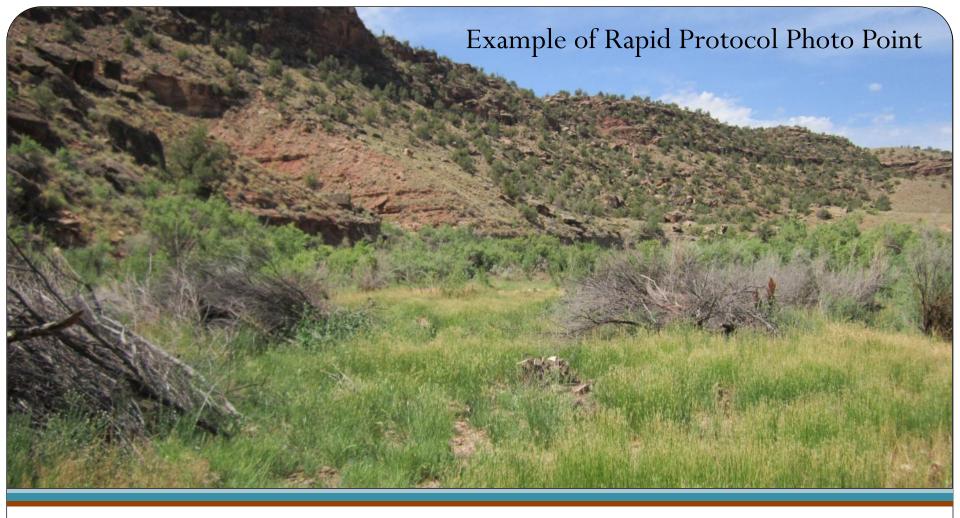


Determining Success

90% of Riverside Habitat Equals Approximately 1,900 acres to reduce non-native and promote native species.

Two Project Monitoring Protocols:

- Watershed-Wide: Intensively monitor 40 sites throughout the watershed (10 in each BLM) office to gauge overall, watershed response
- Site Specific "Rapid": Walk through and take pictures of every project site on a rotating basis



DRLG 1_2

UTM NAD-83: 684149 E, 4216926 N

Accuracy: 22 ft Date: 7-19-11

Time: 11:04 AM Bearing: 210 Photographer: Royce Young

Notes: Native grasses growing where tamarisk was cut

Determining Success

Adapting to Lessons Learned



- Annual meeting with the Science & Monitoring Subcommittee & Implementation Committee to Discuss Monitoring Results
- Implementation Committee meetings to Share Lessons Learned & to Produce an Annual Lessons Learned Presentation for the Website

Questions

