

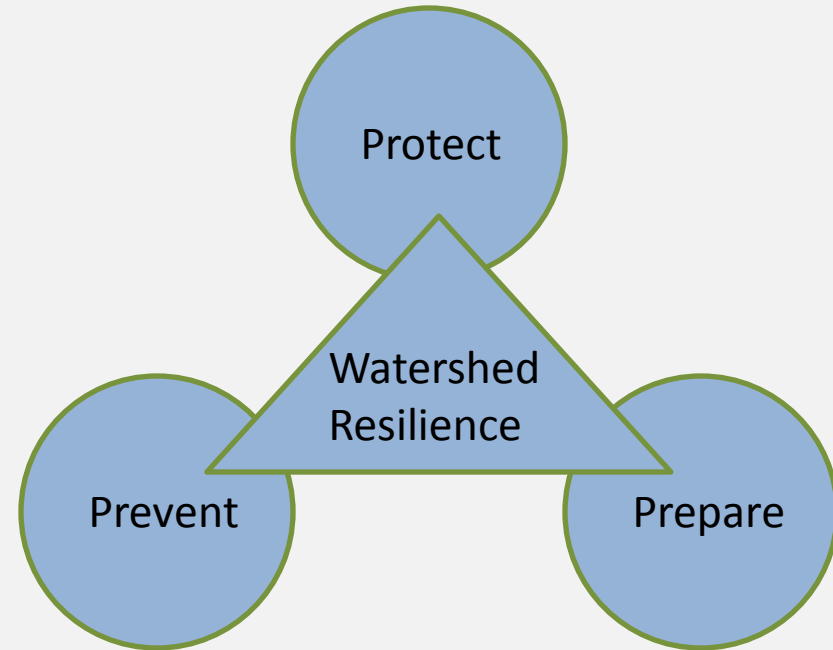


# WATERSHED HEALTH SUBCOMMITTEE

“Forested watersheds are the natural forebays of Colorado’s water supply” - Colorado Water Plan

Established subcommittee to provide structure and leadership and maintain momentum of working group

Seek funding to support and develop watershed collaboratives and implement watershed health projects



# CWCB – WSRA GRANT APPLICATION

## STATEMENT OF WORK

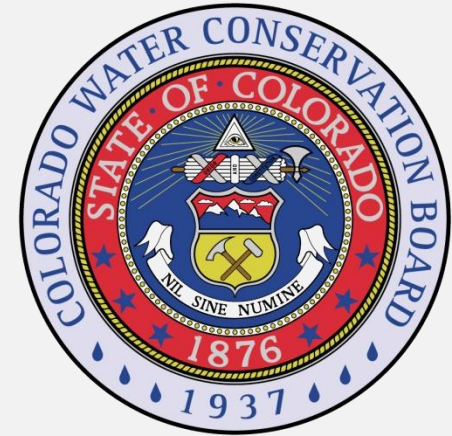
Task 1: Collaborative Development

Task 2: Data Review, Mapping and Data Sharing

Task 3: Strategic Plan

Task 4: Public Outreach

Task 5: Watershed Health Projects



# CWCB – WSRA GRANT APPLICATION

## TASK 1: Collaborative Development

- Structure for Arkansas River Watershed Collaborative (ARWC)
- Coordinator
- Formalize partnerships

## TASK 2: Data Review, Mapping and Data Sharing

- Identify data gaps
- Maps for strategic plan
- Process for integrating into decision support systems (DSS)
- GPS and add one small water provider data to DSS

## TASK 3: Strategic Plan

- Basin-wide watershed health strategic plan for years 1-5
- Prioritization and projects through 2020

# CWCB – WSRA GRANT APPLICATION

## TASK 4: Public Outreach

- Website and e-newsletter
- Link and coordination with ABRT and ABWF
- Attend 5 community events
- Educational program with 200 student participation

## TASK 5: Ambassador Watershed Health Projects

- Cucharas Watershed Protection Projects
- Purgatoire Invasive Species and Habitat Restoration
- Tennessee Creek Fuels Mitigation

# Cucharas Watershed Protection Projects

## Project Objectives:

- Fuels reduction on private lands.
- Advance treatment acres on National Forest.
- Conduct field assessments and preliminary design and planning documents for sediment control structures.

Forest Treatment Cost = \$1500/acres

Sediment Control Structure Cost = \$3,450

Grant =\$80,000; Match = \$20,000

## Committed Project Partners:

Huerfano County

Huerfano County Water Conservancy District

Cuchara Sanitation & Water District

City of Walsenburg

Town of La Veta

U.S. Forest Service

U.S. Natural Resources Conservation Service

Colorado State Forest Service

Division of Water Resources – Water Division 2 District 16

Private water users

Private Property Potential = over 2350 acres

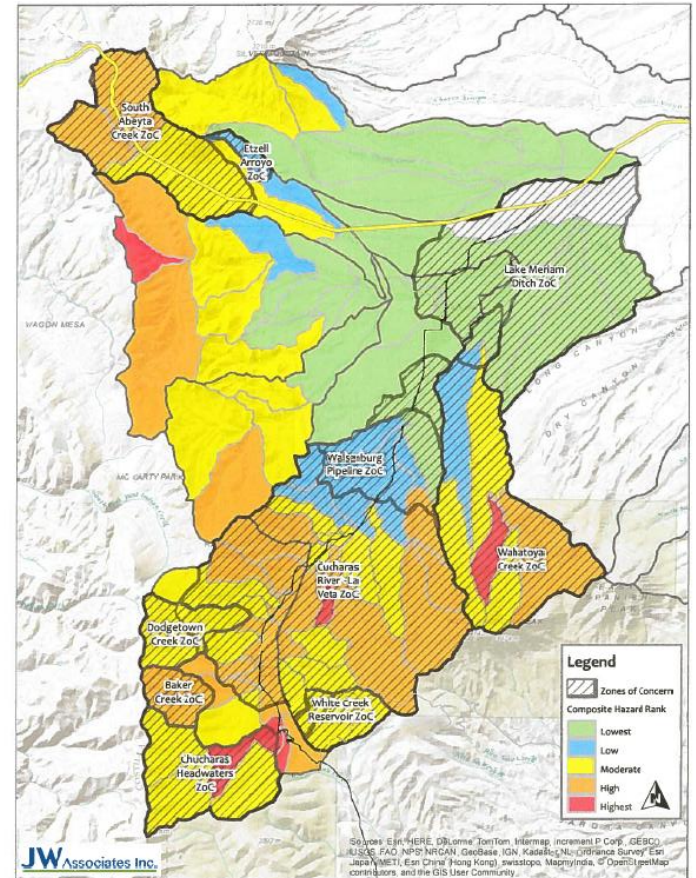


Figure 1. Cucharas River Watershed Zones of Concern



# Purgatoire Invasive Species Removal and Habitat Restoration

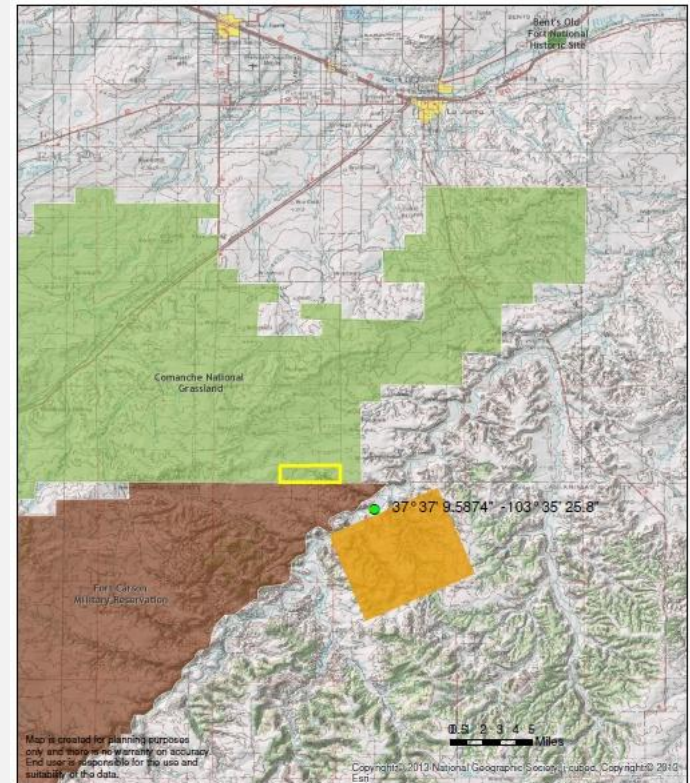
## Project Objectives (Minnie Canyon)

- Ecological restoration and habitat improvements on 20 acres of private and public land by removing invasive tamarisk species.
- Reduce sediment and improve water quality by preventing livestock grazing and unmanaged overland OHV travel by fencing 3.5/miles of riparian resource areas and removing an existing water impoundment.

Invasive Removal Cost = \$600/acre  
Fencing Cost = \$7,000 per mile  
Grant = \$20,000; Match = \$20,000

## Project Partners

Purgatoire Watershed Group  
Purgatoire Watershed Partnership  
The Nature Conservancy  
Comanche National Grasslands  
Tamarisk Coalition  
Private ranchers



**Legend**  
NG\_ProjectBoundary  
Private\_Ranches

Purgatoire Invasive Species Removal  
and Habitat Restoration  
National Grasslands and Private Ranches  
Near La Junta, CO



# Purgatoire Invasive Species Removal and Habitat Restoration

## Project Objectives (Boulevard Park)

- Mechanically and manually remove at least 10 acres of Russian-olive species along the river corridor and throughout the park in order to improve water quantity and habitat.
- Chemically treat Russian-olive tree and shrub stumps, as well as foliar regrowth, to prevent further infestations.
- Re-vegetate removal areas with native species of grasses and forbs (flowers), to provide improved wildlife habitat and recreational access and opportunities.

Russian-olive removal and re-vegetation = \$1500/acre.  
Grant =\$10,000; Match = \$5,000

## Project Partners:

City of Trinidad

Purgatoire Watershed Partnership

Spanish Peaks-Purgatoire River Conservation District

Colorado State Forest Service



Computer File Information	Sheet Numbers	City of Trinidad	As Constructed	AERIAL PHOTOGRAPHS	Project No./Code
Project No. 2010001	1000	135 N. Arden St. Trinidad, CO 81082 (719)-846-9843	No Issues	DATE: 06/10/10 SCALE: 1:10000 DATE: 06/10/10	TRN-1000
Project Name: 2010001	1000				
Project Description: 2010001	1000				
Project Location: 2010001	1000				
Project Status: 2010001	1000				



# Tennessee Creek Project

## 2015 Project Objectives

- Fuels reduction on 179 acres on federal lands
- Expand project acres to include 50 acres of private property in 2015.

Treatment Cost = \$1500/acre

Grant = \$60,000

Match = \$283,000

## Committed Project Partners

Bureau of Reclamation

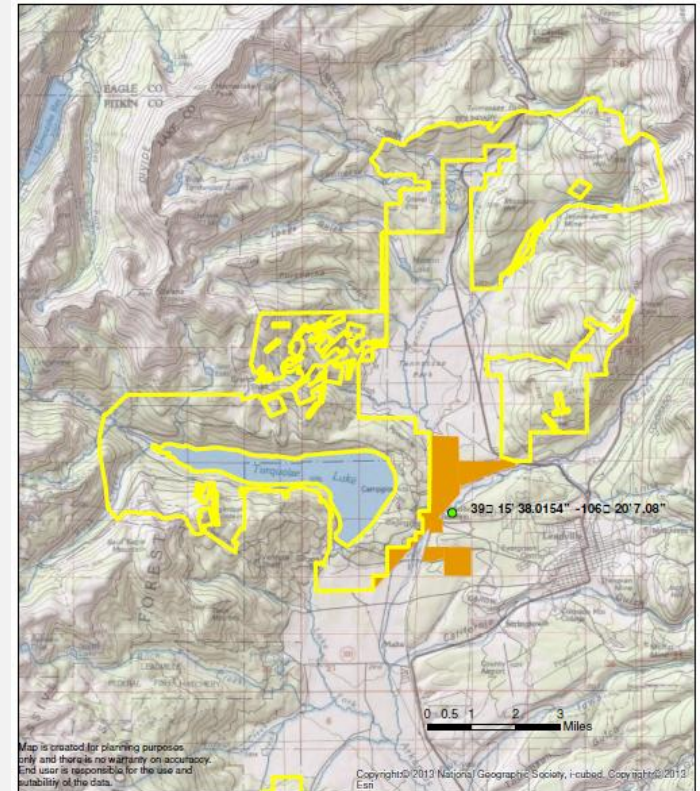
USDA Forest Service

Colorado Springs Utilities

Pueblo Board of Water Works

Aurora Water

Private Property Interest- opportunity for 700 additional acres over project term



### Legend

- NF Project Boundary
- Private Lands

Tennessee Creek Project  
National Forest and Private Lands  
Leadville, Colorado



# CONCLUSION

<b>Total Costs</b>					
	Labor	Other Direct Costs: printing, web, mileage,	Direct Costs: Contractor	Matching Funds & In-kind	Total Task Costs
	Grant Funds				
Task 1 - Collaborative Development	\$14,640.00	\$1,320.00		\$28,000.00	\$43,960.00
Task 2 - Data Review, Mapping and Data Sharing	\$25,000.00			\$11,000.00	\$36,000.00
Task 3 - Strategic Plan	\$16,000.00	\$1,320.00		\$40,000.00	\$57,320.00
Task 4 - Public Outreach	\$5,000.00	\$6,160.00		\$5,000.00	\$16,160.00
Task 5 - Watershed Health Projects	\$20,000.00	\$560.00	\$175,000.00	\$472,000.00	\$667,560.00
<b>Total Project Costs</b>	<b>\$80,640.00</b>	<b>\$9,360.00</b>	<b>\$175,000.00</b>	<b>\$556,000.00</b>	<b>\$821,000.00</b>