

Tamarisk Coalition Native Plant Materials Program



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Tamarisk Coalition
March 9th, 2011

Outline

- What does the Tamarisk Coalition do?
- Goals of the Native Plants Materials Program
- Why was the Program created?
 - ✧ Watershed planning efforts
 - ✧ Biological control effects
- Program specifics



Tamarisk Coalition

The Tamarisk Coalition's mission is to provide education and technical assistance in the restoration of riparian lands.



- Watershed planning efforts
- Research and management symposiums/conferences
- Volunteer program
- Complete inventory & mapping
- Biocontrol monitoring
- Native plant materials program

Native Plant Materials Program

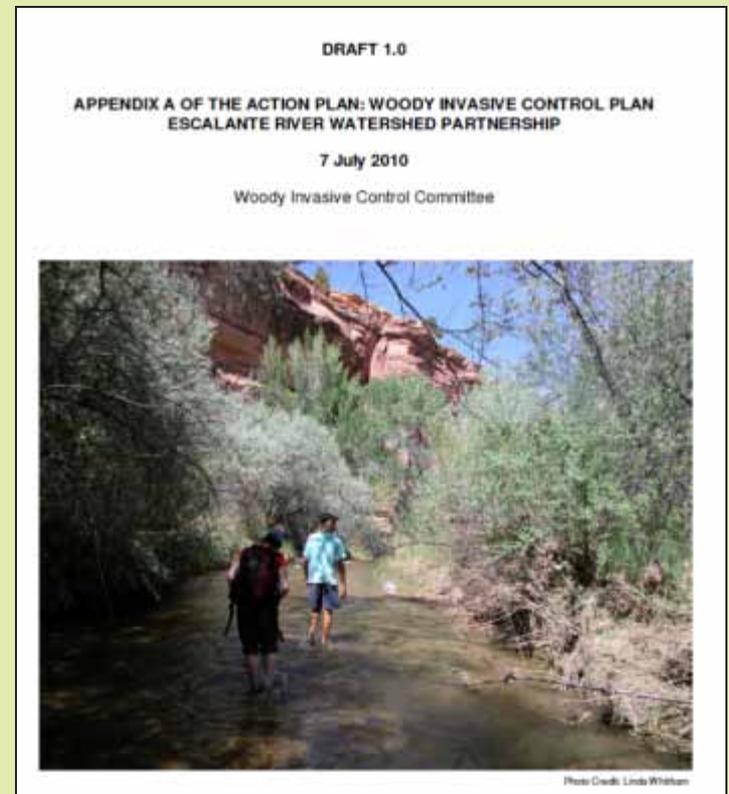
Programmatic Goals Include:

- Assist in the development of appropriate plant materials for restoration work
- Provide training opportunities
- Connect product with practitioners

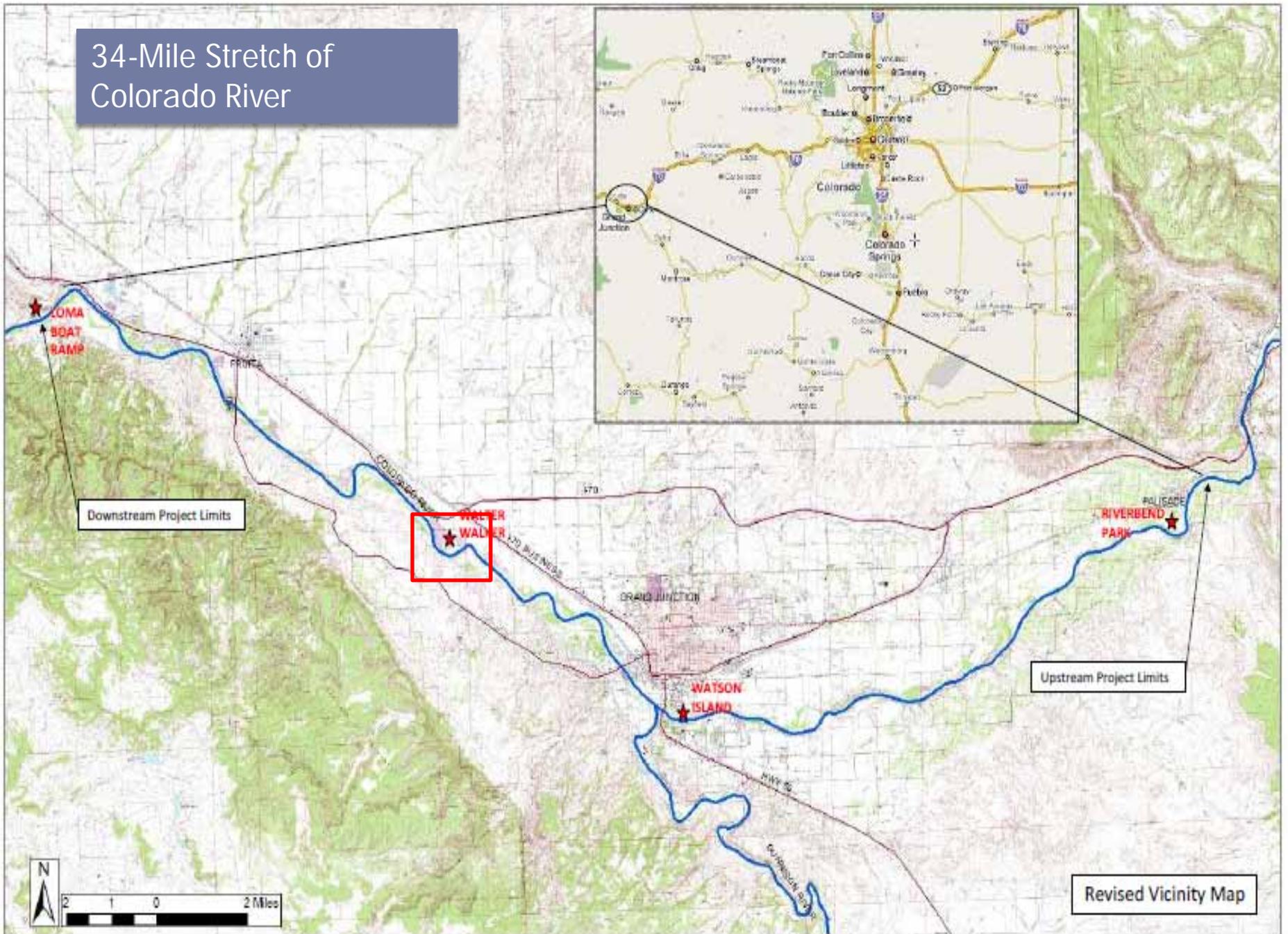


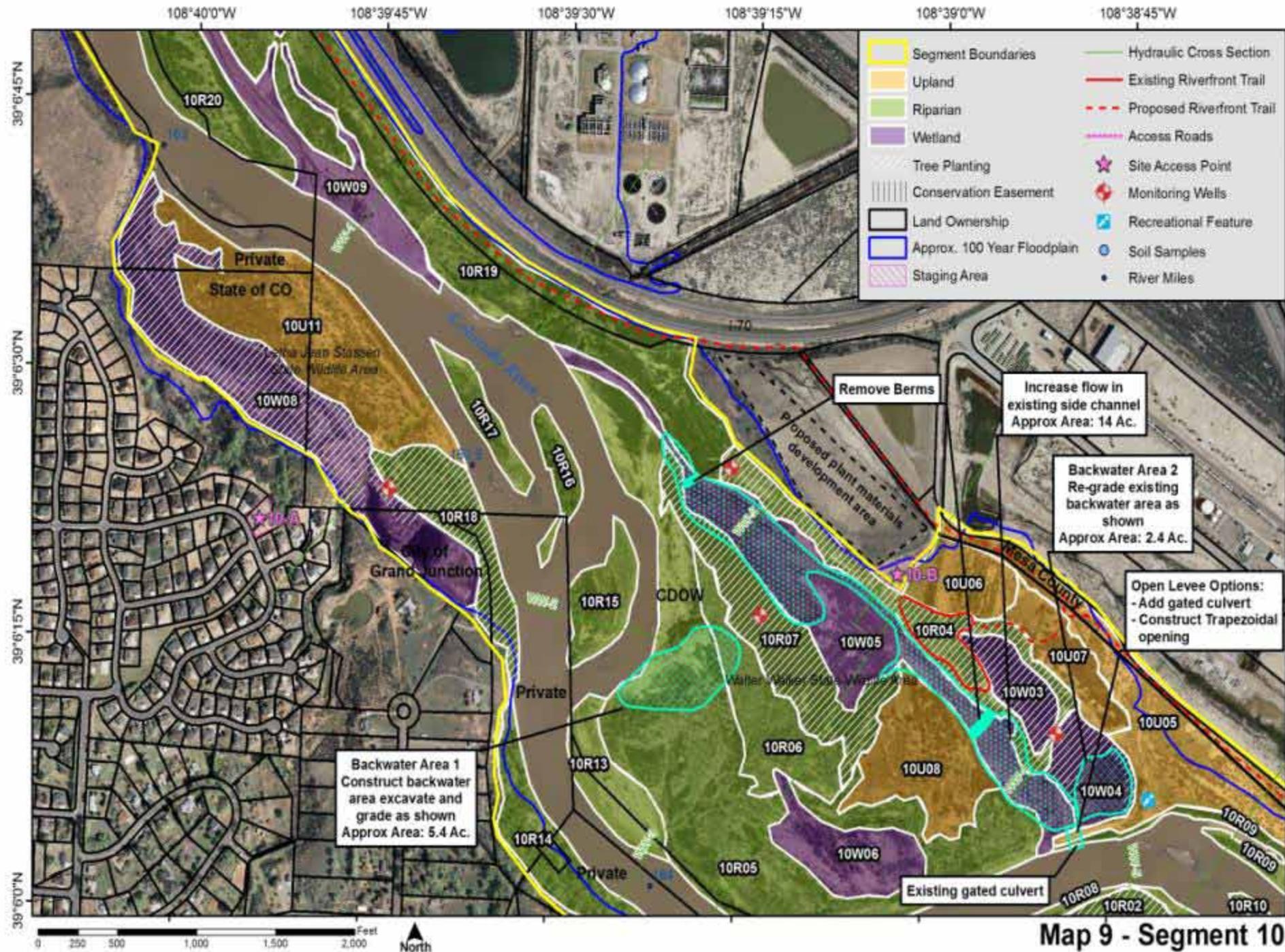
Watershed Planning Efforts

- .. Comprehensive Watershed Planning Efforts
 - ✧ Arkansas River
 - ✧ Dolores River
 - ✧ Escalante River
 - ✧ Northwest Colorado
 - ✧ SE Utah Tamarisk Partnership
 - ✧ Colorado River mainstem in W. Colorado
- .. Objectives include riparian restoration
 - n Both passive and active
 - n Emphasis on native plants



34-Mile Stretch of Colorado River





Restoration Plans based on Tamarisk and Russian Olive Densities

Number of Revegetation Species for Colorado River, Mesa County, CO

Segment	Acres	No. of Riparian Replacement Shrub Species				No. of Upland Replacement Shrub Species				No. of Replacement Tree		Total Plants
		Three-Leaf Sumac	Golden Current	Woods Rose	Silver Buffaloberry	Rubber Rabbitbrush	Fourwing Saltbrush	Big Sagebrush	Winterfat	Cottonwood	Box Elder	
10 Walter Walker State Wildlife Area	296	2,533	2,533	2,533	1,266	610	610	610	610	1,362	495	13,162
Totals for 16 Segments	2,102	28,661	28,361	28,661	12,912	6,709	6,709	6,709	6,709	7,717	2,811	135,959

Planning Level Estimates:

- One site – Over 13,000 plants
- Entire 34-mile stretch – Over 135,000 plants

Distribution of: Tamarisk Leaf Beetle (*Diorhabda carinulata*)

Colorado Plateau - 2010

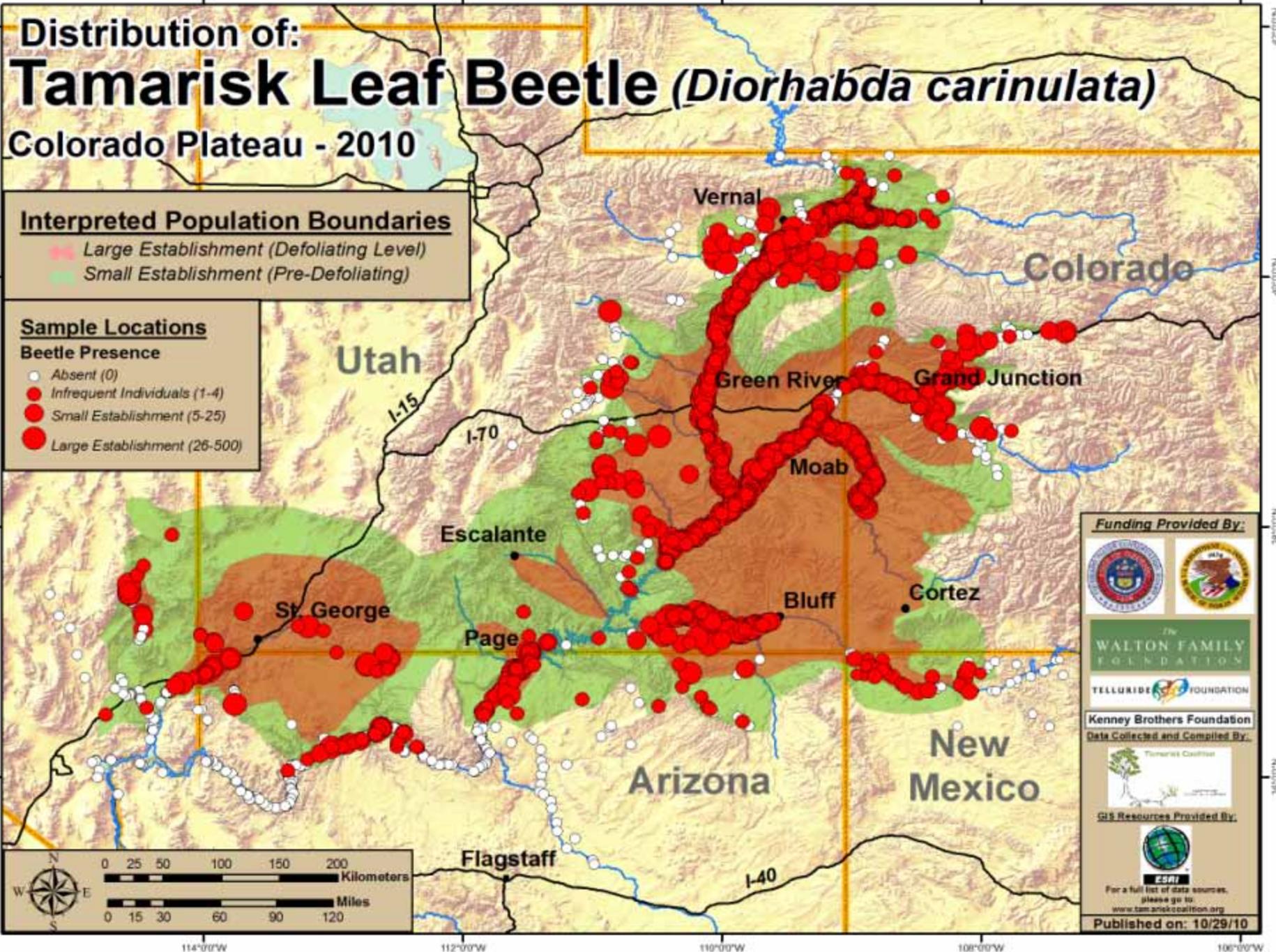
Interpreted Population Boundaries

- Large Establishment (Defoliating Level)
- Small Establishment (Pre-Defoliating)

Sample Locations

Beetle Presence

- Absent (0)
- Infrequent Individuals (1-4)
- Small Establishment (5-25)
- Large Establishment (26-500)



Mack, Colorado

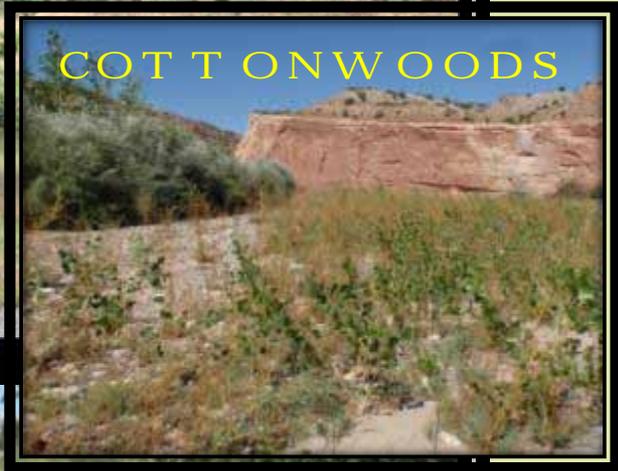


Potash boat launch near Moab, Utah; photo taken 8/15/2006, two years after release

THE GOOD
THE BAD
and
THE UGLY



W I L L O W



C O T T O N W O O D S

THE GOOD
THE BAD
and
THE UGLY

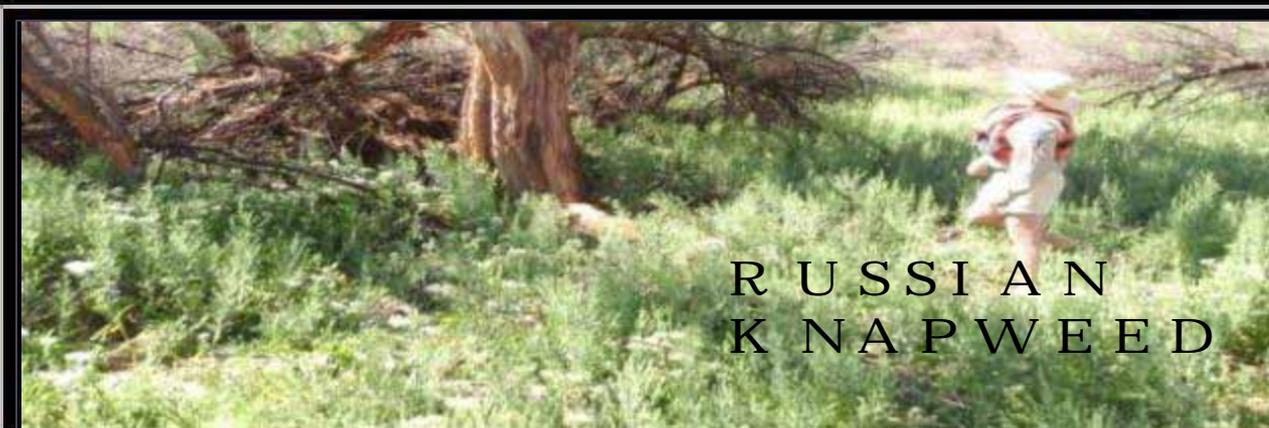


K O C H I A

N 39° 03' 10.85"
W 108° 33' 43.71"

356° N
WGS-84

9/14/2010 12:58:09 PM

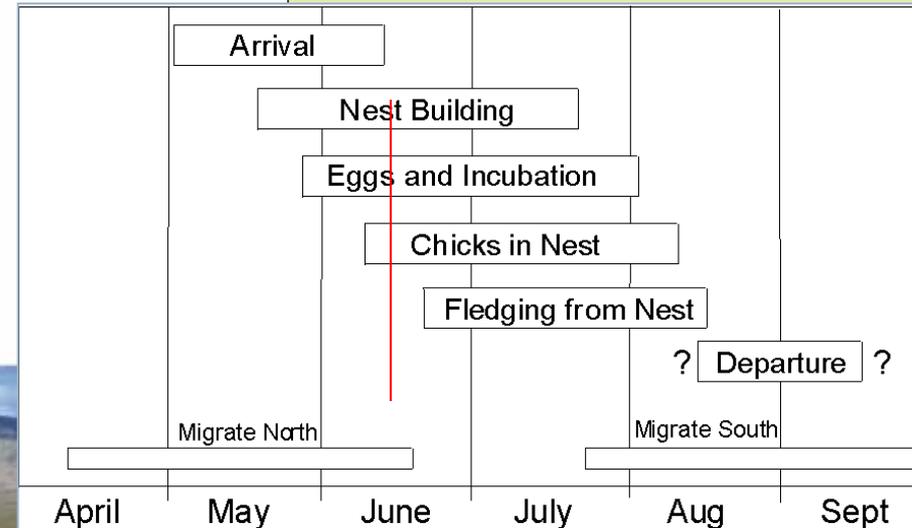
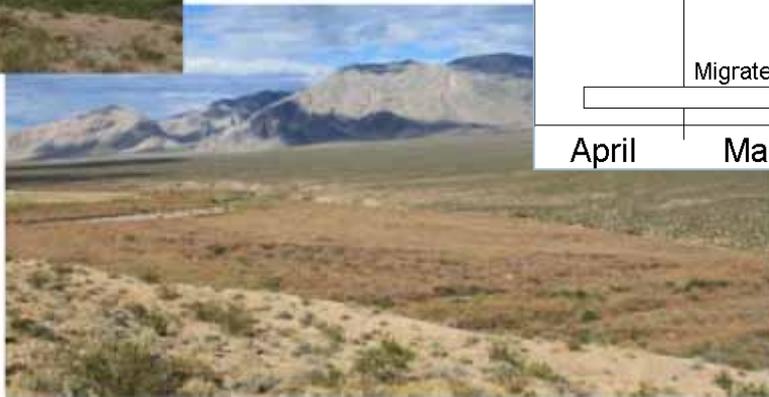


R U S S I A N
K N A P W E E D

THE GOOD
THE BAD
and
THE UGLY

Southwestern Willow Flycatcher Habitat Improvement Efforts

Virgin River Valley 2010 – Before
Biocontrol (June 1) and After (June 20)



Southwestern Willow Flycatcher Habitat Improvement Efforts



- Passive and active restoration techniques
 - ✧ Patchwork manner
 - ✧ Propagule islands
 - ✧ Grazing modification
 - ✧ Maintain/improve water availability

Native Plant Materials Program

-Current Projects



- Cottonwood pole plantation
 - Longstem development
 - ✧ Seed collection
- Training/collaboration opportunities

Cottonwood Pole Plantation

- Goal: Grow cottonwood poles for revegetation efforts on Dolores and Colorado Rivers
 - ✧ 5,000 cottonwood 2011-2012
 - ✧ Harvest in three years
- Local landowner/nursery involvement



Photo: Bruce Ause



Longstem/Deep Planting Product Development

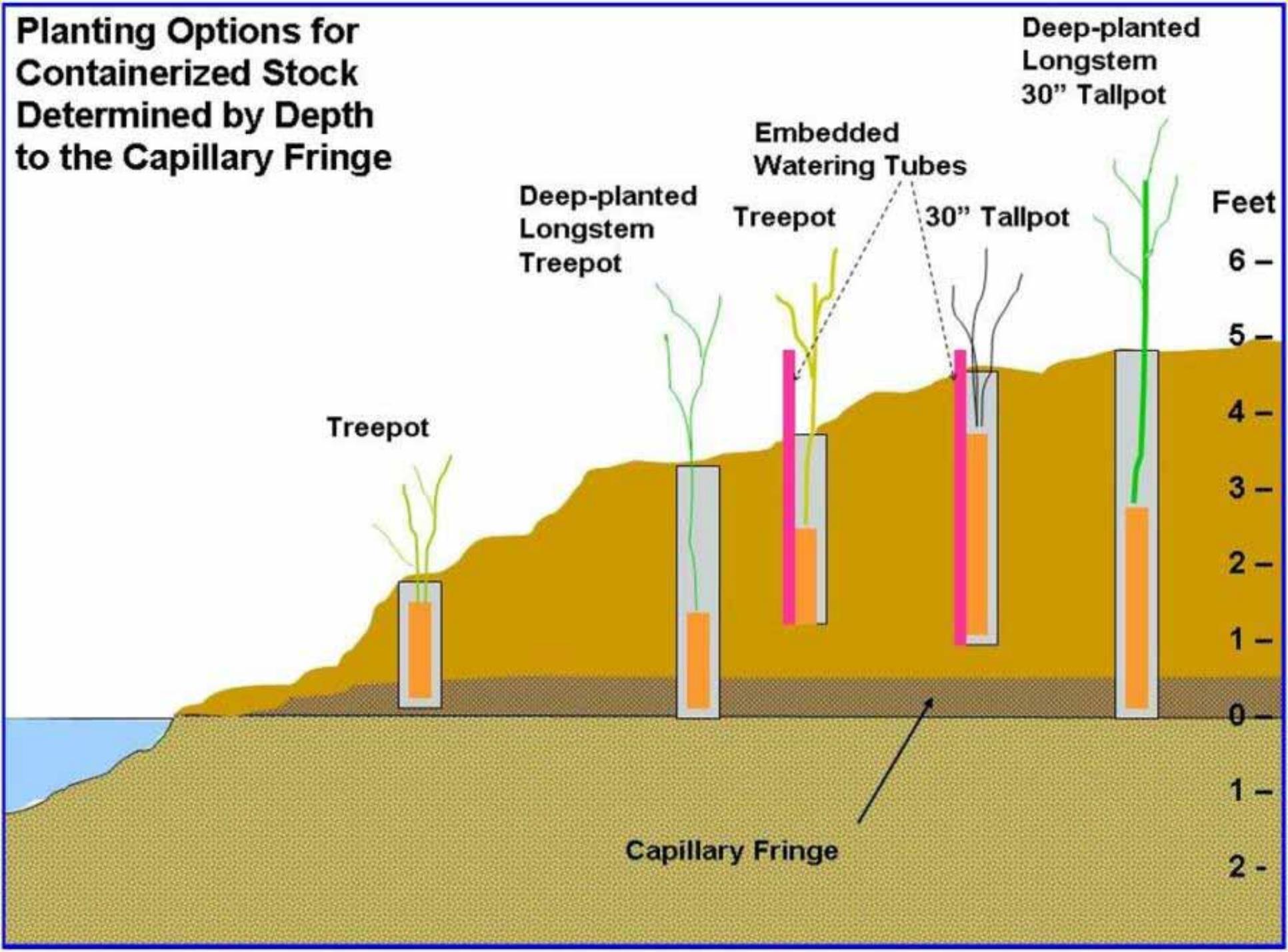
- High shoot to root development
 - ⊗ Roots extend into capillary fringe
 - ⊗ Reduced irrigation
 - ⊗ **Success rates ~ 90%**
(Sample size of more than 6,000 during a 4-year period)
- Limited availability



Skunkbush sumac grown in 30-inch tallpots (3:1 shoot-to-root ratio).



Planting Options for Containerized Stock Determined by Depth to the Capillary Fringe



Longstem/Deep Planting Product Development

- .. Working with Upper Colorado Environmental Plant Center (UCEPC)
 - ⊗ Tall sock method
- .. Local nurseries to begin propagation spring 2012 for select species
- .. Funding for Dolores & Escalante Rivers
- .. Installation....



Seed Collection



- Targeted species for longstem development
- Big learning curve
 - ✘ Seeds hard to find!
 - ✘ Viability
 - ✘ Timing
 - ✘ Species



Training



- Seed Collection Training
- Riparian Restoration Training
 - q Partner with NRCS
 - q Plant Materials Center
 - q Upcoming:
Escalante, Moab



Thank You!

- Central Utah Project Completion Act
- Colorado Healthy Rivers Fund
- Walton Family Foundation

- NRCS
- Los Lunas Plant Materials Center
- Upper Colorado Environmental Plant Materials Center

- Stan Young

