



# ◆ Weeds and Reclamation on Three Sites in Garfield County

Garfield County Energy Advisory Board  
Rifle, CO Sept. 4 2008

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Garfield County Vegetation Management

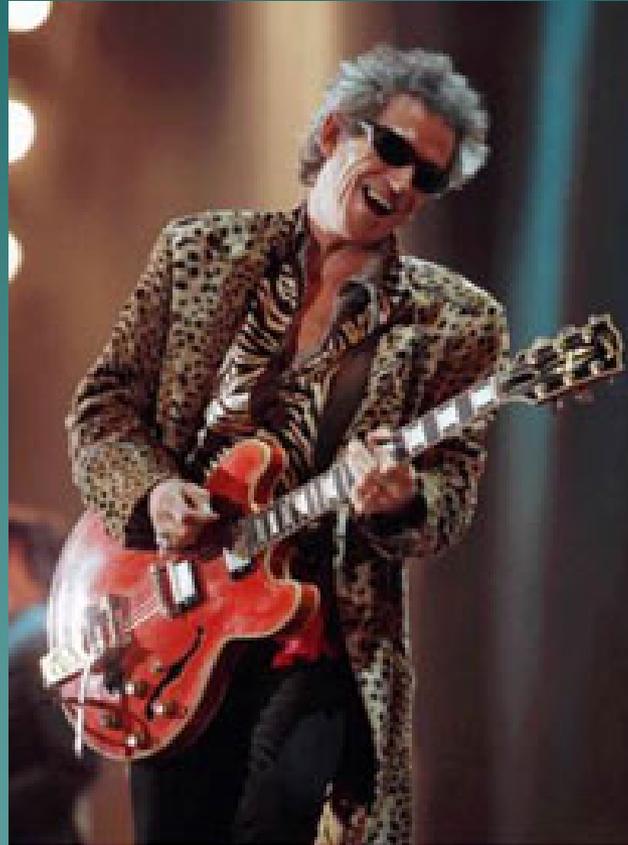
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# Garfield County Vegetation Management

- ◆ County Roadside Vegetation Management  
Noxious Weed Treatments-1000 roadside  
miles

Mowing

- ◆ Education Programs

Site Visits, Weed meetings, educational material, partner with neighboring counties, CSU Coop. Ext., NRCS and Conservation Districts

# Garfield County Vegetation Management

- ◆ West Nile Virus Program-countywide, all towns participate, 2008 will be 6<sup>th</sup> year
- ◆ Weed Cost Share Programs
- ◆ Regulatory
  - Review Building & Planning land use permits
  - Weed Law Enforcement

# Colorado Noxious Weed Act

- ◆ Defines "noxious weeds"
- ◆ Non-native and harmful to agriculture and environment
- ◆ May be poisonous to livestock
- ◆ Spells out responsibilities for property owners
- ◆ Enforcement capabilities
- ◆ [www.ag.state.co.us/CSD/Weeds/statutes/weedlaw.PDF](http://www.ag.state.co.us/CSD/Weeds/statutes/weedlaw.PDF)

# Noxious Weed List-Garfield County

- ◆ Canada thistle
- ◆ Chicory
- ◆ Common burdock
- ◆ Dalmation Toadflax
- ◆ Diffuse knapweed
- ◆ Hoary Cress (whitetop)
- ◆ Houndstongue
- ◆ Jointed Goatgrass
- ◆ Leafy spurge
- ◆ Musk Thistle
- ◆ Oxeye Daisy
- ◆ Plumeless thistle
- ◆ Purple loosestrife
- ◆ Russian knapweed
- ◆ Russian-olive
- ◆ Saltcedar (tamarisk)
- ◆ Scotch thistle
- ◆ Spotted knapweed
- ◆ Yellow toadflax
- ◆ Yellow starthistle

# Weed Lists

- ◆ Colorado Noxious Weed Act
  - A List: 18 plants, eradicate when found
  - B List: 40 plants, eradicate, contain, or suppress
  - C List: 13 plants, suppress
- ◆ County List: 21 plants



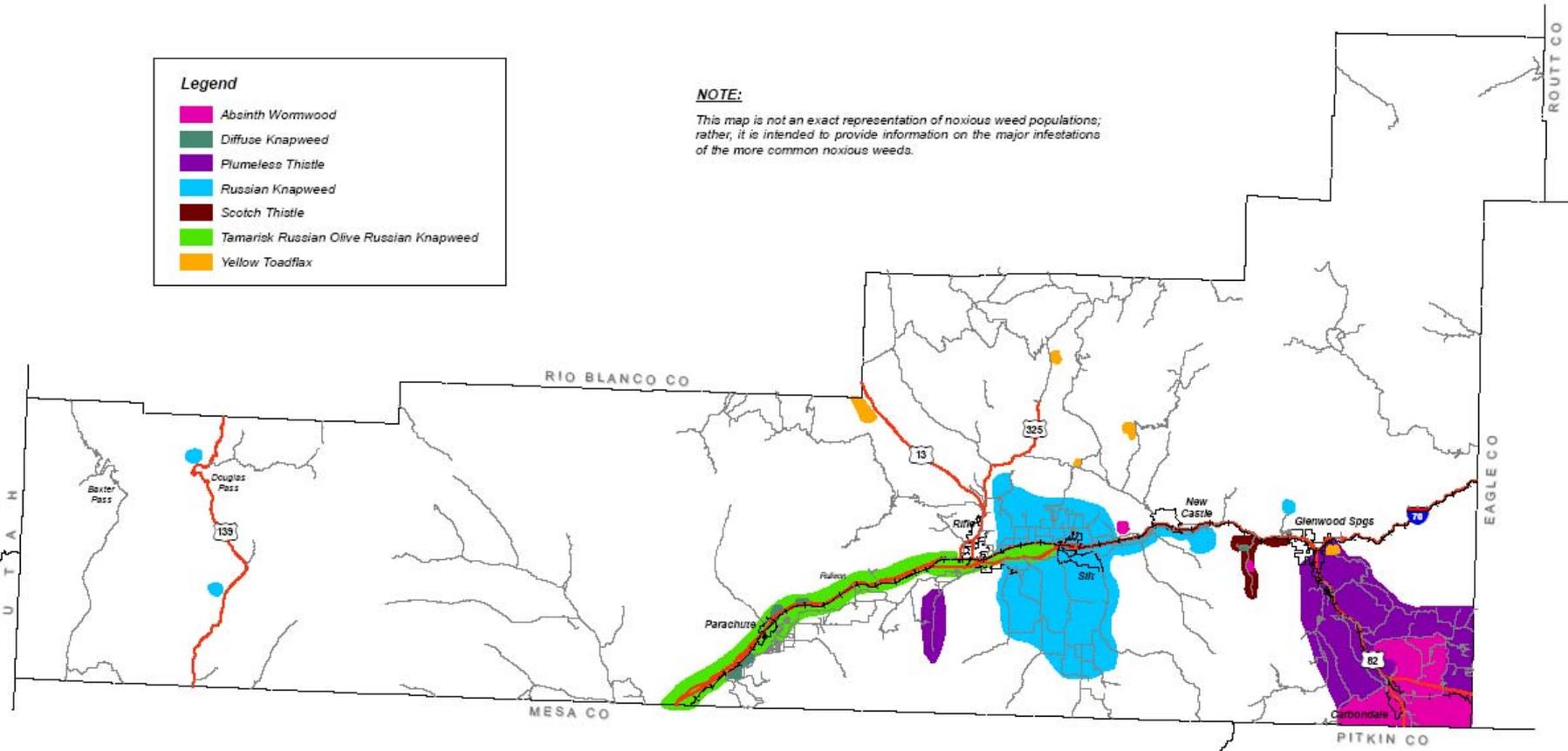
I wish I knew!

Where do these weeds come from?

**Legend**

- Absinth Wormwood
- Diffuse Knapweed
- Plumeless Thistle
- Russian Knapweed
- Scotch Thistle
- Tamarisk Russian Olive Russian Knapweed
- Yellow Toadflax

**NOTE:**  
 This map is not an exact representation of noxious weed populations; rather, it is intended to provide information on the major infestations of the more common noxious weeds.



## Common Noxious Weeds, Garfield County, Colorado



**NOXIOUS WEEDS SOURCE:**  
 1. Garfield County Vegetation Management files (2005).

**BASE MAP SOURCE:**  
 1. U.S.G.S. 1:24,000 7.5' quadrangle maps and 1:50,000 county series.  
 2. Colorado Department of Transportation GIS data (1992).  
 3. Garfield County Road & Bridge Department GPS centerline data (2002, revised 2005).

**DISCLAIMER:**  
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# Musk thistle

*Carduus nutans*

- ◆ Life cycle: Biennial



# Saltcedar

*Tamarix parviflora* or *Tamarix ramosissima*



## Permits

Vegetation Management Plan

Weeds & Reclamation

Weed Inventory

Weed Plan

Followup

Reclamation

Plan

Plant list

Establish security

Followup

- ◆ Site #1
- ◆ Pipeline southwest of Battlement Mesa
- ◆ Reclaimed Spring 2007











## ◆ Problem

Work crew didn't know difference  
between willows and tamarisk

- ◆ Site #2
- ◆ Well pad, south of Silt-Gibson Gulch
- ◆ Earthwork done circa 2004



**ANTERO RESOURCES**

CSF 14-09-07-91  
COC 066578  
SWSW Sec. 09 - T09S - R31W  
Garfield County, Co.  
In Case of Emergency 970-625-9922











- ◆ Problem

Earthwork created disturbance on BLM  
outside of pad

- ◆ Solution

BLM working with Antero and weed  
contractor

◆ Site #3

◆ Pipeline-Battlement Mesa/Rulison





# Musk thistle

*Carduus nutans*

- ◆ Life cycle: Biennial



















◆ Problem

Coordination/Communication

Multi-players-companies/consultants

Lack of Pre-treatment per Weed Management Plan

◆ Solution

Landowner awareness

Cooperation

Best Management Practices

- ◆ If working on sites with weed-seed contaminated soil, equipment should be cleaned of potentially seed-bearing soils and vegetative debris prior to moving to uncontaminated terrain







Are you overloaded yet???





- ◆ Weed Cost Share Programs

Noxious Weed

Cheatgrass/Plateau

Russian-olive/tamarisk w/SWIFT Crew

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