2012 Rapid Monitoring Report
(or ‘Project Monitoring’ Report)

Prepared by
Audrey Butler & Jesse Lanci
August 2012

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jknudson@tamariskcoalition.org
2012 Rapid Monitoring Sites

- **Moab BLM Field Office**
  - MOR1
  - MOR2
  - MOR3
  - MOR4

- **Tres Rios (Dolores) BLM Field Office**
  - Big Gypsum (DRBG)
  - Little Glen 1 (DRLG1)
  - Little Glen 2 (DRLG2)
  - Nicholas Wash (DRNW)
  - Disappointment Creek (DRDC)

- **Uncompahgre BLM Field Office**
  - Dolores River Monitoring Stretch (DR)
  - San Miguel River Monitoring Stretch (SMR)
MOR1

BLM Office: Moab

Hike Time: 0 Min

Monitoring Time: 1.5 Hrs

Notes about Site:
Large site, sometimes difficult to navigate due to thick vegetation.
MOR1: Initial Observations

Relevant Observations

• New tamarisk resprouts from stumps (being defoliated)

• 4 living cottonwood plantings found (~15% survival rate), cages in good shape

Evidence of Beetle Presence

• Beetles & larvae present

• Defoliation ~90%

Evidence of Wildlife or Livestock Grazing

• Old cow patties

• Several cow skeletons
MOR 1_1 (2012)

UTM NAD-83: 666854 E 4291078 N Accuracy: 9 Feet Date: July 12, 2012
Time: 2:20 P.M. Bearing: 270 Photographer: Jesse Lanci
Notes: Repeat of MOR1_1 (2011); Overview of Sites MOR1 & MOR2
MOR 1_2 (2012)

UTM NAD-83: 666557 E 42910018 N  Accuracy: 9 Feet  Date: July 12, 2012
Time: 11:55 A.M.  Bearing: 60  Photographer: Jesse Lanci
Notes: Repeat of MOR1_2 (2011); cobble area, defoliated young tamarisk.
MOR 1_3 (2012)

UTM NAD-83: 666588 E  4291009 N    Accuracy:  9 Feet    Date: July 12, 2012
Time:  11:50 A.M.    Bearing:  150    Photographer: Jesse Lanci
Notes:  Repeat of MOR1_3 (2011); tall, defoliated tamarisk resprouts (~15’ tall); background has willows, native Phragmites and cattails.
MOR 1_4 (2012)

UTM NAD-83: 666595 E 4291013 N  Accuracy: 9 Feet  Date: July 12, 2012
Time: 11:47 A.M.  Bearing: 70  Photographer: Jesse Lanci
Notes: Repeat of MOR1_4 (2011); Defoliation of tamarisk, some Russian knapweed, lots of New Mexico privet and baccharis
MOR 1_5 (2012)

UTM NAD-83: 666685 E 4291203 N Accuracy: 9 feet Date: July 12, 2012

Time: 11:32 A.M. Bearing: 210 Photographer: Jesse Lanci

Notes: Large cobble area.
## MOR1 Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamarisk</td>
<td>Low</td>
<td>Mod-High</td>
<td>5-25%</td>
<td>5-10</td>
</tr>
<tr>
<td>Russian knapweed</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>1-2</td>
</tr>
<tr>
<td>Russian olive</td>
<td>High</td>
<td>Low</td>
<td>1-5%</td>
<td>5-15</td>
</tr>
<tr>
<td>Sweet clover</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Bindweed</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Flixweed</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Annual wheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Kochia</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
</tr>
<tr>
<td>Russian thistle</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
</tbody>
</table>
## MOR1 Native Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cottonwood</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>5-30</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>5</td>
</tr>
<tr>
<td>Cattail</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>5-6</td>
</tr>
<tr>
<td>Willows</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>6</td>
</tr>
<tr>
<td>Inland saltgrass</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>6-7</td>
</tr>
<tr>
<td>Baccharis</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>3-6</td>
</tr>
<tr>
<td>Greasewood</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Big sagebrush</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Phragmites*</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1%</td>
<td>5</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1%</td>
<td>5</td>
</tr>
<tr>
<td>Dogbane</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1%</td>
<td>2</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1%</td>
<td>2</td>
</tr>
<tr>
<td>Prickly pear cactus</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1%</td>
<td>1</td>
</tr>
</tbody>
</table>

*when possible, when Phragmites was present on a site it was checked to confirm that it was the native and not the exotic version of Phragmites.
MOR1: Additional Observations
Flixweed (*Descurainia sophia*)

UTM NAD-83: 0665248 E 4289841 N

Time: 8:12 A.M.

Accuracy: 10 Feet

Date: July 12, 2012

Photographer: Jesse Lanci

Notes:
M0R1: Overall Impressions

- Non-Natives
  - Lots of secondary weeds
  - Tamarisk treatment process looks to be good

- Natives
  - Healthy looking wetlands area (lots of cattails, baccharis and cottonwood saplings)

- Overall
  - Good, still lots of non-natives, but there are lots of natives in area
MOR2

BLM Office: Moab

Hike Time: 0 Min

Monitoring Time: 1.5 Hrs

Notes about Site:
Lots of tall Russian knapweed, wear long pants when visiting site
MOR2: Initial Observations

Relevant Observations
- Dry wash looks healthy (cattails & other natives)
- Untreated tamarisk have almost 100% Russian knapweed understory
- 1 live cottonwood planting found (w/ good cage)
- Nice cottonwood gallery

Evidence of Beetle Presence
- Beetles & larvae present
- Defoliation ~95%

Evidence of Wildlife or Livestock Grazing
- Old cow patties
- Cow skeleton
- Bear scat
MOR 2_1 (2012)

UTM NAD-83: 666854 E 4291078 N    Accuracy: 9 Feet    Date: July 12, 2012
Time: 2:20 P.M.    Bearing: 270    Photographer: Jesse Lanci
Notes: Repeat of MOR2_1 (2011); Overview of Sites MOR1 & MOR2
MOR 2_2 (2012)

UTM NAD-83: 0666534 E 4291162 N  Accuracy: 9 Feet  Date: July 12, 2012
Time: 1:14 P.M.  Bearing: 180  Photographer: Jesse Lanci
Notes: Repeat of MOR2_2 (2011); young defoliated tamarisk, lots of Russian knapweed in a nice cottonwood gallery.
MOR 2_3 (2012)

UTM NAD-83:  0666521 E  4291149 N         Accuracy:  9 Feet                 Date:  July 12, 2012
Time: 1:18 P.M.        Bearing:  120           Photographer: Jesse Lanci
Notes:  Repeat of MOR2_3 (2011); young defoliated tamarisk, lots of Russian knapweed in a nice cottonwood gallery.
MOR 2_4 (2012)

UTM NAD-83: 0666431 E 4291140 N Accuracy: 9 Feet Date: July 12, 2012
Time: 1:25 P.M. Bearing: 230 Photographer: Jesse Lanci
Notes: Repeat of MOR2_4 (2011); young defoliated tamarisk, lots of Russian knapweed in a nice cottonwood gallery.
MOR 2_6 (2012)

UTM NAD-83: 0666391 E 4291112 N  Accuracy: 9 Feet  Date: July 12, 2012
Time: 1:29 P.M.  Bearing: 310  Photographer: Jesse Lanci
Notes: Repeat of MOR2_6 (2011); nice cottonwood gallery. Large defoliated tamarisk in background
## MOR2 Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamarisk</td>
<td>Low</td>
<td>High</td>
<td>&gt;50%</td>
<td>6-25</td>
</tr>
<tr>
<td>Russian knapweed</td>
<td>High</td>
<td>High</td>
<td>&gt;50%</td>
<td>2-3</td>
</tr>
<tr>
<td>Sweet clover</td>
<td>High</td>
<td>Low</td>
<td>1-5%</td>
<td>4-5</td>
</tr>
<tr>
<td>Kochia</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Lambsquarter</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>2</td>
</tr>
</tbody>
</table>
## MOR2 Native Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cottonwood</td>
<td>High</td>
<td>High</td>
<td>&gt;50%</td>
<td>5-35</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>5-10</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Willow</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Baccharis</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Phragmites</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>6</td>
</tr>
<tr>
<td>Inland saltgrass</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Cattails</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1%</td>
<td>2</td>
</tr>
<tr>
<td>Dogbane</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1%</td>
<td>2</td>
</tr>
<tr>
<td>Indian ricegrass</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1%</td>
<td>1-2</td>
</tr>
<tr>
<td>Rushes &amp; sedges</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1%</td>
<td>4</td>
</tr>
</tbody>
</table>
MOR2: Additional Observations
Lambsquarter (Chenopodium sp.)
Sea of Russian knapweed just south of site.
MOR2: Overall Impressions

- Non-Natives
  - Russian knapweed is a major problem
  - Lots of new tamarisk regrowth/saplings (hit hard by beetles)
  - Lots of large untreated tamarisk (hit hard by beetles)
- Natives
  - Nice cottonwood gallery
MOR3

BLM Office: Moab

Hike Time: 0 Min

Monitoring Time: 1 Hr
MOR3: Initial Observations

Relevant Observations
- No plantings noticed on site
- Tamarisk regrowth is present, but hit hard by beetles
- Some very dense (and green) tamarisk regrowth

Evidence of Beetle Presence
- Beetles & larvae present
- Lots of defoliation (red in color)

Evidence of Wildlife or Livestock Grazing
- Old cow patties
- Deer poop
MOR 3_1 (2012)

UTM NAD-83: 0665751 E 4290478 N     Accuracy: 9 Feet     Date: July 12, 2012
Time: 9:56 A.M.     Bearing: 280     Photographer: Jesse Lanci
Notes: Repeat of MOR3_1 (2011); overview of site
MOR 3_2 (2012)

UTM NAD-83: 0665602 E 4290416 N   Accuracy: 9 Feet   Date: July 12, 2012
Time: 10:21 A.M.   Bearing: 40   Photographer: Jesse Lanci
Notes: Repeat of MOR3_2 (2011); lots of Russian knapweed with kochia in background, also major burn and cutting areas
MOR 3_3 (2012)

UTM NAD-83: 0665641 E 4290462 N  Accuracy: 10 Feet  Date: July 12, 2012
Time: 10:13 A.M.  Bearing: 20  Photographer: Jesse Lanci
Notes: Repeat of MOR3_3 (2011); nice native community (New Mexico privet, cottonwood, willow, baccharis, inland saltgrass)
MOR 3_4 (2012)

UTM NAD-83: 0665729 E  4290487 N     Accuracy: 21 Feet     Date: July 12, 2012
Time: 9:59 A.M.         Bearing: 20

Notes: Repeat of MOR3_4 (2011); tamarisk stumps, Russian knapweed and defoliated tamarisk regrowth

Photographer: Jesse Lanci
## MOR3 Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian knapweed</td>
<td>High</td>
<td>High</td>
<td>25-50%</td>
<td>1-2</td>
</tr>
<tr>
<td>Tamarisk</td>
<td>Low</td>
<td>Mod</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Sweet clover</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Kochia</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>1-3</td>
</tr>
<tr>
<td>Whitetop</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Lambsquarter</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Flixweed</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Poverty weed</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Wild asparagus</td>
<td>High</td>
<td>Low</td>
<td>&lt;1</td>
<td>7</td>
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</tbody>
</table>
## MOR3 Native Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inland saltgrass</td>
<td>High</td>
<td>High</td>
<td>5-25%</td>
<td>1</td>
</tr>
<tr>
<td>Cottonwood</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>25</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>4-5</td>
</tr>
<tr>
<td>Greasewood</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>4-7</td>
</tr>
<tr>
<td>Willow</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Wild asparagus</td>
<td>High</td>
<td>Low</td>
<td>&lt;1</td>
<td>7</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Baccharis</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>5</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
</tbody>
</table>
MOR3: Additional Observations
Whitetop (*Cardaria draba*)

UTM NAD-83: 685515 E, 4223308 N  
Accuracy: 9 ft  
Date: July 11, 2012

Time: 4:58 PM  
Bearing:  
Photographer: Jesse Lanci

Notes: ~1’ tall, brown/tan stems and pods, all simple smooth leaves
Lambsquarter (*Chenopodium* sp.)
Poverty weed (*Iva axillaris*)

UTM NAD-83: 0665546 E 4290478 N  
Accuracy: 9 Feet  
Date: July 12, 2012

Time: 10:26 A.M.  
Bearing:  
Photographer: Jesse Lanci

Notes: ~1’ tall, salty looking leaves
Flixweed (*Descurainia sophia*)

UTM NAD-83: 0665248 E 4289841 N  
Accuracy: 10 Feet  
Date: July 12, 2012

Time: 8:12 A.M.  
Bearing:  
Photographer: Jesse Lanci

Notes:
Wild asparagus (*Asparagus officinalis*)

UTM NAD-83: 665695 E  4290499 N  Accuracy: 9 Feet  Date: July 12, 2011

Time: 10:08 A.M.  Bearing: 300  Photographer: Jesse Lanci

Notes: 6’ tall, lots of green fruit, thin leaves (1/2” long), skinny branches
Dense tamarisk re-growth
MOR3: Overall Impressions

- **Non-Natives**
  - Tamarisk control is good
  - Secondary invasives are high in abundance

- **Natives**
  - New Mexico privet re-growth abundant
  - Natives seem to be responding well to the absence of tamarisk

- **Overall**
  - Lots of bare soil
MOR4

BLM Office: Moab

Hike Time: 0 Min

Monitoring Time: 1.25 Hr

Notes about Site:
Easy site access
MOR4: Initial Observations

**Relevant Observations**
- Some tamarisk re-growth
- Obvious camping area
- Lots of bare soil

**Evidence of Beetle Presence**
- Beetles & larvae present
- Defoliation ~80%

**Evidence of Wildlife or Livestock Grazing**
- Lots of cow patties
- Deer scat
- Camping area
MOR 4_2 (2012)

UTM NAD-83: 0665226 E 4289817 N  Accuracy: 9 Feet  Date: July 12, 2012
Time: 8:23 A.M.  Bearing: 200  Photographer: Jesse Lanci
Notes: Repeat of MOR4_2 (2011); Lots of Russian knapweed; dead cottonwood plantings
MOR 4_3 (2012)

UTM NAD-83: 0665200 E 4289827 N  Accuracy: 9 Feet  Date: July 12, 2012

Time: 8:23 A.M.  Bearing: 260  Photographer: Jesse Lanci

Notes: Repeat of MOR4_3 (2011); Cutting & burn area, tall Russian knapweed
MOR 4_4 (2012)

UTM NAD-83: 0675322 E 4289882 N
Time: 7:59 A.M.
Accuracy: 9 Feet
Bearing: 240
Date: July 12, 2012
Photographer: Jesse Lanci

Notes: Overview of site
## MOR4 Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian knapweed</td>
<td>High</td>
<td>High</td>
<td>&gt;50%</td>
<td>2-3</td>
</tr>
<tr>
<td>Tamarisk</td>
<td>Low</td>
<td>Low-Mod</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Kochia</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>1-3</td>
</tr>
<tr>
<td>Sweet clover</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>3-4</td>
</tr>
<tr>
<td>Russian thistle</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Flixweed</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1-2</td>
</tr>
<tr>
<td>Annual wheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Alfalfa</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
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</table>
# MOR4 Native Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inland saltgrass</td>
<td>High</td>
<td>High</td>
<td>5-25%</td>
<td>1</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>4</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>1</td>
</tr>
<tr>
<td>Cottonwood</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>30</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>High</td>
<td>Mod</td>
<td>1-5%</td>
<td>5-6</td>
</tr>
<tr>
<td>Willows</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Suaeda sp.</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>2-3</td>
</tr>
<tr>
<td>Broom snakeweeds</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Indian ricegrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Phragmites</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1-2</td>
</tr>
<tr>
<td>Greasewood</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>5</td>
</tr>
<tr>
<td>Fourwing saltbush</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Ragweed</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Alkali pepperweed</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2-3</td>
</tr>
</tbody>
</table>
MOR4: Additional Observations
Russian thistle (*Salsola tragus*)

UTM NAD-83: 685498 E, 4223287 N  Accuracy: 9 ft  Date: July 11, 2012

Time: 5:02 PM  Bearing:  Photographer: Jesse Lanci

Notes: ~ 1-2’ tall, stems have purple/green lines
Alkali pepperweed (*Lepidium crenatum*um*)

UTM NAD-83: 0665192 E 4289823 N  
Accuracy: 10 Feet  
Date: July 12, 2012

Time: 8:27 A.M.  
Bearing: 
Photographer: Jesse Lanci

Notes: 2.5’ tall, lobed leaves at towards the base of the plant, 4 petals
Ragweed (*Ambrosia tomentosa*)

UTM NAD-83: 0665171 E 4289820 N  
Accuracy:  
Date: July 12, 2012

Time: 8:51 A.M.  
Bearing:  
Photographer: Jesse Lanci

Notes: Found on this site growing at base of cottonwood planting and it’s cage.
Flixweed (*Descurainia sophia*)

UTM NAD-83: 0665248 E 4289841 N

Accuracy: 10 Feet

Date: July 12, 2012

Time: 8:12 A.M.

Bearing:

Photographer: Jesse Lanci

Notes:
MOR4: Overall Impressions

- Non-Natives
  - Lots of secondary invasives, tamarisk is not too bad
  - The problematic weeds are moderate overall

- Natives
  - 4 live willow plantings found (~50% survival rate seen)
  - New Mexico privet has ~40% survival rate
  - 3 live cottonwood plantings found (~20% survival rate seen)
  - Fourwing saltbush has ~40% survival rate

- Overall
  - Lots of plantings look like they just died
  - Some currently alive plantings look to be close to death
Big Gypsum (DRBG)

BLM Office: Tres Rios (Dolores)

Hike Time: 15 Min

Monitoring Time: 1.5 hrs

Notes about Site:
Very muddy river crossing
Big Gypsum (DRBG): Initial Observations

**Relevant Observations**
- Lots of stumps with moderate tamarisk re-growth (higher numbers along river’s edge)
- Lots of bare soil
- Slash piles still on site

**Evidence of Beetle Presence**
- Beetles & larvae present
- Defoliation ~20%

**Evidence of Wildlife or Livestock Grazing**
- Old cow patties
- Elk and deer poop
DRBG_1 (2012)

UTM NAD-83: 685543 E, 4223276 N  Accuracy: 9 Feet  Date: July 11, 2012

Time: 3:55 PM  Bearing: 300  Photographer: Jesse Lanci

Notes: Repeat of BG_1 (2011); lots of cuttings with little re-sprouts.
Notes: Repeat of BG_2 (2011); lots of stumps with burn area; site is quite open.
DRBG_3 (2012)

UTM NAD-83:  685435 E, 4223365 N  Accuracy:  9 Feet  Date: July 11, 2012
Time:  4:08 PM  Bearing:  270  Photographer: Jesse Lanci

Notes: Repeat of BG_3 (2011); lots of stumps with large burn area, lots of small re-sprouting tamarisk
DRBG_4 (2012)

UTM NAD-83: 685555 E, 4223355 N  Accuracy: 9 ft  Date: July 11, 2012
Time: 3:30 PM  Bearing: 230  Photographer: Jesse Lanci
Notes: Repeat of BG_4 (2011); overview of site; next to large boulders
DRBG_5 (2012)

UTM NAD-83: 685373 E, 4223335 N  Accuracy: 9 ft  Date: July 11, 2012
Time: 4:18 PM  Bearing: 120  Photographer: Jesse Lanci
Notes: Lots of Russian knapweed.
## DRBG Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian knapweed</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>1</td>
</tr>
<tr>
<td>Tamarisk</td>
<td>Low</td>
<td>Mod</td>
<td>1-5%</td>
<td>2-4</td>
</tr>
<tr>
<td>Kochia</td>
<td>Low</td>
<td>Mod-Low</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Whitetop</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Russian thistle</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
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</table>
# DRBG Native Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inland saltgrass</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>1</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>2</td>
</tr>
<tr>
<td>Greasewood</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>4</td>
</tr>
<tr>
<td>Fourwing saltbush</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>1-4</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Phragmites</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Cottonwood</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>25-30</td>
</tr>
<tr>
<td>Thick spike wheatgrass</td>
<td>High</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Willows</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
</tr>
<tr>
<td>Shadscale</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Suaeda sp.</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1-2</td>
</tr>
</tbody>
</table>
Big Gypsum (DRBG):
Additional Observations
Whitetop (*Cardaria draba*)

UTM NAD-83: 685515 E, 4223308 N  Accuracy: 9 ft  Date: July 11, 2012

Time: 4:58 PM  Bearing:  
Photographer: Jesse Lanci

Notes: ~1’ tall, brown/tan stems and pods, all simple smooth leaves
Russian Thistle (Salsola tragus)

UTM NAD-83: 685498 E, 4223287 N  Accuracy: 9 ft  Date: July 11, 2012
Time: 5:02 PM  Bearing:  Photographer: Jesse Lanci
Notes: ~1-2’ tall, stems have purple/green lines
Big Gypsum (DRBG): Overall Impressions

- Non-Natives
  - Lots of secondary weeds
  - Possible spraying? On Whitetop?
- Natives
  - Lots of grasses and new shrub re-growth
- Overall
  - Moderate
Little Glen 1 (DRLG1)

BLM Office: Tres Rios (Dolores)

Hike Time: 15 min with high clearance 4WD

Monitoring Time: 1.5 hr

Notes about Site:
Driving from Slickrock, on river right side. Park at top of knob to hike down the trail

Site Access: Solid line is road; dotted line is hiking trail
Little Glen 1 (DRLG1): Initial Observations

**Relevant Observations**
- Cut stumps (not too many re-sprouts)
- Burn piles with outer ring of cut tamarisk still present
- Lots of bare soil

**Evidence of Beetle Presence**
- Beetles present
- Defoliation 0%

**Evidence of Wildlife or Livestock Grazing**
- Old cow patties
- Masticated vegetation noticed
DRLG 1_1 (2012)

UTM NAD-83: 684013 E, 4216803 N

Accuracy: 9 Feet

Date: July 11, 2012

Time: 9:53 AM

Bearing: 40

Photographer: Jesse Lanci

Notes: Repeat of LG1_1 (2011); Site overview
DRLG 1_2 (2012)

UTM NAD-83: 684148 E, 4216925 N  Accuracy: 9 Feet  Date: July 11, 2012

Time: 10:15 AM  Bearing: 210  Photographer: Jesse Lanci

Notes: Repeat of LG1_2 (2011); Cut stumps with lots of foxtail and inland saltgrass.
DRLG 1_3 (2012)

UTM NAD-83: 684121 E, 4216888 N
Accuracy: 9 Feet
Date: July 11, 2012

Time: 10:12 AM
Bearing: 240
Photographer: Jesse Lanci

Notes: Repeat of LG1_3 (2011); cut tamarisk, little re-growth
DRLG 1_4 (2012)

UTM NAD-83: 684087 E, 4216845 N  Accuracy: 9 Feet  Date: July 11, 2012
Time: 10:06  Bearing: 170  Photographer: Jesse Lanci
Notes: Repeat of LG1_4 (2011); lots of Russian knapweed, some tamarisk.
DRLG 1_5 (2012)

UTM NAD-83: 684050 E, 4216835 N

Time: 10:00  
Bearing: 50

Accuracy: 11 Feet  
Date: July 11, 2012

Photographer: Jesse Lanci

Notes: Burn pile site; center area burned, out cut tamarisk not. Lots of Russian knapweed.
## DRLG1 Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian knapweed</td>
<td>High</td>
<td>Mod-High</td>
<td>25-50%</td>
<td>1-2</td>
</tr>
<tr>
<td>Tamarisk</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>3</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
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<tr>
<td>Musk thistle</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>3</td>
</tr>
<tr>
<td>Lambsquarter</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Curly dock</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
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<tr>
<td>Tall wheat grass</td>
<td>High</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
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</tbody>
</table>
## DRLG1 Native Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greasewood</td>
<td>High</td>
<td>Mod</td>
<td>25-50%</td>
<td>5-6</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>6</td>
</tr>
<tr>
<td>Phragmites</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Big sagebrush</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Inland saltgrass</td>
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<td>Low</td>
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<tr>
<td>Foxtail</td>
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<td>1-5%</td>
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</tr>
<tr>
<td>Wild licorice</td>
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<td>Low</td>
<td>&lt;1</td>
<td>2</td>
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<tr>
<td>Shadscale</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Indian ricegrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Wild rose</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
</tr>
<tr>
<td>Alkali pepperweed</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2-3</td>
</tr>
</tbody>
</table>
Little Glen 1 (DRLG1): Additional Observations
Alkali pepperweed (Lepidium crenatum)

UTM NAD-83: 0665192 E 4289823 N  Accuracy: 10 Feet  Date: July 12, 2012
Time: 8:27 A.M.  Bearing:  Photographer: Jesse Lanci
Notes: 2.5’ tall, lobed leaves at towards the base of the plant, 4 petals
Lambsquarter (*Chenopodium* sp.)
Curly dock (*Rumex crispus*)

UTM NAD-83: 684145E, 4216923N  Accuracy: 9 ft  Date: July 11, 2012

Time: 10:18 A.M.  Bearing:  Photographer: Jesse Lanci

Notes: At this site very low in numbers (~13 seen at this site). Plant with few leaves (that are broad & simple); ~2’ tall
Little Glen 1 (DRLG1): Overall Impressions

- Non-Natives
  - Secondary weeds may be a problem
  - Few tamarisk re-sprouts
- Overall
  - Overall progress seems good
Little Glen 2 (DRLG2)

BLM Office: Tres Rios (Dolores)

Hike Time: 45 min with high clearance 4WD (time taken from car to site)

Monitoring Time: 1 hrs

Notes about Site:
Follow along bank on opposite side of river (on a small, rough trail) to cross at site location. Watch for Bears!

Site Access: Solid line is road; dotted line is hiking trail
Little Glen 2 (DRLG2): Initial Observations

**Relevant Observations**
- Burn piles, cut stumps and slash piles notice on site
- ~50% re-growth on tamarisk stumps
- Some tamarisk not treated (~15’ tall)

**Evidence of Beetle Presence**
- Beetles & larvae present
- Defoliation ~20%

**Evidence of Wildlife or Livestock Grazing**
- Old cow patties
- Elk scat
- Bear tracks and scat
DRLG 2_1 (2012)

UTM NAD-83: 684009 E, 4217730 N  Accuracy: 9 Feet  Date: July 11, 2012

Time: 12:02 P.M.  Bearing: 10  Photographer: Jesse Lanci

Notes: Repeat of LG2_1 (2011); Overview of site from rock ledge.
Notes: Repeat of LG2_3 (2011); burn area and stumps. Nice plant diversity with some ~15’ tamarisk in background.
DRLG 2_4 (2012)

UTM NAD-83: 684082 E, 4217843 N  Accuracy: 9 Feet  Date: July 11, 2012
Time: 12:21 P.M.  Bearing: 280  Photographer: Jesse Lanci

Notes: Repeat of LG2_4 (2011); cut stumps with lots of Russian knapweed and inland saltgrass. New Mexico privet in background.
DRLG 2_5 (2012)

UTM NAD-83: 684023 E, 4217797 N  Accuracy: 9 Feet  Date: July 11, 2012
Time: 12:42 P.M.  Bearing: 240  Photographer: Jesse Lanci
Notes: Open area with lots of Russian knapweed and some grasses; cut area
DRLG 2_6 (2012)

UTM NAD-83: 684023 E, 4217797 N

Time: 12:42 P.M.  

Bearing: 60

Accuracy: 9 Feet

Date: July 11, 2012

Photographer: Jesse Lanci

Notes: Open area with lots of Russian knapweed and alkali sacaton; cut area
## DRLG2 Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian knapweed</td>
<td>High</td>
<td>High</td>
<td>25-50%</td>
<td>1-2</td>
</tr>
<tr>
<td>Tamarisk</td>
<td>High</td>
<td>Mod</td>
<td>1-5%</td>
<td>4-15</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
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</tbody>
</table>
## DRLG2 Native Species Response

<table>
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<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Mexico privet</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>10</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>4</td>
</tr>
<tr>
<td>Inland saltgrass</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>1</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>High</td>
<td>High</td>
<td>5-25%</td>
<td>2-3</td>
</tr>
<tr>
<td>Phragmites</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>5</td>
</tr>
<tr>
<td>Big sagebrush</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Willow</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Indian ricegrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Greasewood</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3-4</td>
</tr>
<tr>
<td>Three leaf sumac</td>
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<td>Low</td>
<td>&lt;1</td>
<td>4</td>
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<tr>
<td>Dogbane</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
</tbody>
</table>
Little Glen 2 (DRLG2): Overall Impressions

- Non-Natives
  - Lots of Russian knapweed
  - Lots of tamarisk growth/re-growth
- Natives
  - Decent amount of native vegetation
- Overall
  - Moderate progress
Nicholas Wash (DRNW)

BLM Office: Tres Rios (Dolores)

Hike Time: 20-30 min (including river crossing)

Monitoring Time: 2 hrs

Notes about Site:
Bring Sandals for river crossing.
Easiest place to cross is at the ripples on the north end of the site.
Nicholas Wash (DRNW): Initial Observations

**Relevant Observations**
- Slash piles around
- Tamarisk sprouts against the rock wall away from the river channel
- Lots of re-growth on tamarisk stumps (~8’ tall)

**Evidence of Beetle Presence**
- Beetles & larvae present
- No defoliation noticed

**Evidence of Wildlife or Livestock Grazing**
- Old cow patties
- Lots of ants!
DRNW_1 (2012)

UTM NAD-83: 688935 E, 4210640 N
Accuracy: 9 Feet
Date: July 10, 2012

Time: 3:57 P.M.
Bearing: 250
Photographer: Jesse Lanci

Notes: Repeat of NW_1 (2011); Site overview near fence.
DRNW_2 (2012)

UTM NAD-83: 688848 E, 4210644 N  Accuracy: 9 Feet  Date: July 10, 2012
Time: 4:27 P.M.  Bearing: 120  Photographer: Jesse Lanci
Notes: Repeat of NW_2 (2011); Healthy tamarisk w/ flowers and beetles present
DRNW_3 (2012)

UTM NAD-83: 688783 E, 4210550 N  Accuracy: 9 Feet  Date: July 10, 2012
Time: 4:47 P.M.  Bearing: 220  Photographer: Jesse Lanci
Notes: Repeat of NW_3 (2011); Russian knapweed
DRNW_4 (2012)

UTM NAD-83: 688805 E, 4210653 N
Time: 4:35 P.M.

Accuracy: 9 Feet
Bearing: 220
Photographer: Jesse Lanci
Date: July 10, 2012

Notes: Repeat of NW_4 (2011); Russian knapweed and kochia with lots of New Mexico privet in background
Notes: Looking at cut stumps; kochia and Russian knapweed with New Mexico privet.
DRNW_6 (2012)

UTM NAD-83: 688685 E, 4210550 N  Accuracy: 9 Feet  Date: July 10, 2012
Time: 4:54 P.M.  Bearing: 110  Photographer: Jesse Lanci
Notes: Small overview shot of south end of site; more sagebrush and rabbitbrush than any other site.
## DRNW Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian knapweed</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>1</td>
</tr>
<tr>
<td>Tamarisk</td>
<td>High</td>
<td>Low</td>
<td>1-5%</td>
<td>8-12</td>
</tr>
<tr>
<td>Kochia</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
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<tr>
<td>Russian olive</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>10</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Sweet clover</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
</tbody>
</table>
## DRNW Native Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Willow</td>
<td>High</td>
<td>High</td>
<td>25-50%</td>
<td>6-7</td>
</tr>
<tr>
<td>Phragmites</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>6</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>10-15</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>6</td>
</tr>
<tr>
<td>Big sagebrush</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>6</td>
</tr>
<tr>
<td>Greasewood</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>5</td>
</tr>
<tr>
<td>Narrow/broad leaf cottonwoods</td>
<td>High</td>
<td>Low</td>
<td>1-5%</td>
<td>5-25</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>High</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>High</td>
<td>Mod</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Inland saltgrass</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Horsetail</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
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<tr>
<td>Box elder</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>10</td>
</tr>
</tbody>
</table>
Nicholas Wash (DRNW): Overall Impressions

- Non-Natives
  - Lots of re-growth on tamarisk stumps
  - Non-natives have a presence

- Natives
  - More natives than non-natives!

- Overall
  - Good, site seems very bio-diverse
Disappointment Creek (DRDC)

BLM Office: Tres Rios (Dolores)

Hike Time: 10 min

Monitoring Time: 2 hrs

Notes about Site:
Drove on 4-wheel drive road until it became too rough. Continue on road by foot to site.
Disappointment Creek (DRDC): Initial Observations

**Relevant Observations**
- Moderate re-growth noted on tamarisk stumps
- Little green foliage on dead-looking uncut tamarisk
- Cages all look in good shape
- Many large burrows at base of cut tamarisk

**Evidence of Beetle Presence**
- Beetles present
- Defoliation ~10%

**Evidence of Wildlife or Livestock Grazing**
- Cow patties and tracks
- One cottonwood found showing signs of mastication
- Rabbit scat
DRDC_1 (2012)

UTM NAD-83: 691622 E, 4209378 N  Accuracy: 9 Feet  Date: July 10, 2012
Time: 12:49 P.M.  Bearing: 65  Photographer: Jesse Lanci

Notes: Repeat of DC_1 (2011); Overview of site on south slope.
Notes: Repeat of DC_2 (2011); Old cut tamarisk with new re-growth ~3-6’ tall; with rabbitbrush, native Phragmites and sagebrush.
DRDC_3 (2012)

UTM NAD-83:  691628 E, 4209416 N  Accuracy: 9 Feet    Date: July 10, 2012
Time:  1:05 P.M.       Bearing:  10    Photographer: Jesse Lanci
Notes: Repeat of DC_3 (2011); Hybrid cottonwood with cage in good condition; also can see sagebrush and rabbitbrush.
Repeat of DC_4 (2011); lots of tamarisk cuttings (not many re-sprouts); lots of tamarisk in background with little foliage.
Notes: Repeat of DC_5 (2011); lots of dead looking (un-cut) tamarisk with little foliage throughout site. Also can see cut and burn areas.
DRDC_6 (2012)

UTM NAD-83: 691822 E, 4209362 N    Accuracy: 9 Feet    Date: July 10, 2012
Time: 2:03 P.M.    Bearing: 250    Photographer: Jesse Lanci
Notes: Repeat of DC_6 (2011); Tamarisk cuttings; note the high Russian knapweed.
Notes: On this site, masticated cottonwood (only one like this found); cages in area all look good.
## DRDC Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian knapweed</td>
<td>High</td>
<td>Mod</td>
<td>25-50%</td>
<td>1</td>
</tr>
<tr>
<td>Tamarisk (untreated)</td>
<td>Low</td>
<td>Mod</td>
<td>1-5%</td>
<td>10-12</td>
</tr>
<tr>
<td>Tamarisk (re-sprouts)</td>
<td>High</td>
<td>Mod</td>
<td>1-5%</td>
<td>4-5</td>
</tr>
<tr>
<td>Sweet clover</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2-3</td>
</tr>
<tr>
<td>Halogeton</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Kochia</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Species</td>
<td>Overall Vigor</td>
<td>Relative Cover</td>
<td>Canopy Cover</td>
<td>Height (feet)</td>
</tr>
<tr>
<td>-----------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>--------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Sagebrush</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>3-5</td>
</tr>
<tr>
<td>Greasewood</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>3-5</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>2-5</td>
</tr>
<tr>
<td>Phragmites</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Willow</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>4-5</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>High</td>
<td>Mod</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Hybrid cottonwood</td>
<td>High</td>
<td>Low</td>
<td>1-5%</td>
<td>3-20</td>
</tr>
<tr>
<td>Rushes &amp; sedges</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>5</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
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<tr>
<td>Indian paintbrush</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2-3</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>High</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
</tr>
</tbody>
</table>
Disappointment Creek (DRDC): Overall Impressions

- Non-natives
  - Watch for increase in secondary invasives
  - Moderate re-sprouting on tamarisk stumps
  - Lots of untreated tamarisk; dead looking, but with a little green foliage

- Natives
  - A lot of willows along river

- Overall
  - Good, re-treatment of re-sprouts will be needed
Dolores River (DR) Monitoring Stretch

BLM Office: Uncompahgre

Hike Time: 0 min

Monitoring Time: 5 hrs

Notes about Site:
Monitored this 4 mile stretch by floating. Put-in at the confluence with the San Miguel River and take-out was at the first bridge downstream. Watch for bears!
Dolores River (DR): Initial Observations

**Relevant Observations**
- Lots of re-growth on tamarisk and Siberian elm stumps
- No plantings found
- Lots of natives throughout site

**Evidence of Beetle Presence**
- Beetles present
- Defoliation ~30%

**Evidence of Wildlife or Livestock Grazing**
- Bear sighting
- Deer scat
- Ducks
- Raccoon tracks
DR_1 (2012)

UTM NAD-83: 691453 E, 4250183 N  Accuracy: 9 Feet  Date: July 13, 2012

Time: 11:32 A.M.  Bearing: 120  Photographer: Jesse Lanci

Notes: Overview, showing clearing with Alkali sacaton and Russian knapweed; lots of willows on island; dense ribbon of tamarisk along shore in background; New Mexico privet is also prominent.
Notes: Overview, showing clearing with Alkali sacaton and Russian knapweed; lots of willows on island; dense ribbon of tamarisk along shore in background, New Mexico privet is also prominent.
DR_3 (2012)

UTM NAD-83:  691134 E, 4250957 N   Accuracy:  14 Feet   Date: July 13, 2012
Time:  12:04 P.M.   Bearing: 160   Photographer: Jesse Lanci

Notes: Photo showing large stand of box elders (~30’ tall), a Siberian elm or two in there; very few tamarisk seen, other dominant species being willow and New Mexico privet.
Notes: Overview of area; dominant species being willow, New Mexico privet, sagebrush and native Phragmites.
DR_5 (2012)

UTM NAD-83: 691155 E, 4251862 N  Accuracy: 65 Feet  Date: July 13, 2012

Time: 1:00 P.M.  Bearing: 50  Photographer: Audrey Butler

Notes: Siberian elm and tamarisk cut area; lots of re-sprouts on both species
Notes: Siberian elm and tamarisk cut area; lots of re-sprouts on both species
Notes: Siberian elm and tamarisk cut area; lots of re-sprouts on both species
Notes: Siberian elm and tamarisk cut area; early re-sprouting (showing signs of defoliation). Russian knapweed in area but not too bad; still some untreated tamarisk.
DR_9 (2012)

UTM NAD-83: 690280 E, 4252596 N  Accuracy: 11 Feet  Date: July 13, 2012
Time: 2:05 P.M.  Bearing: 310  Photographer: Audrey Butler

Notes: Siberian elm and tamarisk cut area; early re-sprouting (showing signs of defoliation). Russian knapweed in area but not too bad; still some untreated tamarisk.
DR_10 (2012)

UTM NAD-83: 690350 E, 4253015 N

Accuracy: 10 Feet

Date: July 13, 2012

Time: 2:23 P.M.

Bearing: 140

Photographer: Audrey Butler

Notes: Tamarisk cuts/slash piles; Russian knapweed, New Mexico privet, native Phragmites, inland saltgrass, and cheatgrass. Tamarisk re-sprouts starting (defoliated).
Notes: Tamarisk cuts/slash piles; Russian knapweed, New Mexico privet, native Phragmites, inland saltgrass, and cheatgrass. Tamarisk re-sprouts starting (defoliated).
Notes: Tamarisk cuts/slash piles; Russian knapweed, New Mexico privet, native Phragmites, inland saltgrass, and cheatgrass. Tamarisk re-sprouts starting (defoliated).
Notes: Tamarisk cuts/slash piles area. 1st musk thistle seen, tamarisk re-sprouts on most stumps, Russian knapweed and cheatgrass present. Some untreated tamarisk. Lots of tires on site.
Notes: Tamarisk cuts/slash piles area. 1st musk thistle seen, tamarisk re-sprouts on most stumps, Russian knapweed and cheatgrass present. Some untreated tamarisk. Lots of tires on site.
DR_15 (2012)

UTM NAD-83: 690377 E, 4254092 N
Accuracy: 9 Feet
Date: July 13, 2012

Time: 3:00 P.M.
Bearing: 150
Photographer: Audrey Butler

Notes: Tamarisk cuts/slash piles area, not too much tamarisk re-growth seen. Some tamarisk still standing. Lots of willows, not too much Russian knapweed.
DR_16 (2012)

UTM NAD-83: 690377 E, 4254092 N  Accuracy: 9 Feet  Date: July 13, 2012

Time: 3:00 P.M.  Bearing: 305  Photographer: Audrey Butler

Notes: Tamarisk cuts/slash piles area, not too much tamarisk re-growth seen. Some tamarisk still standing. Lots of willows, not too much Russian knapweed.
DR_17 (2012)

UTM NAD-83: 690256 E, 4254264 N  Accuracy: 9 Feet  Date: July 13, 2012
Time: 3:41 P.M.  Bearing: 150  Photographer: Jesse Lanci

Notes: Overview (towards end of monitoring). Lots of willows, New Mexico privet and Russian knapweed noticed; some untreated tamarisk but are showing defoliation.
DR_18 (2012)

UTM NAD-83: 690256 E, 4254264 N  Accuracy: 9 Feet  Date: July 13, 2012
Time: 3:41 P.M.  Bearing: 285  Photographer: Jesse Lanci

Notes: Overview (towards end of monitoring). Lots of willows, New Mexico privet and Russian knapweed noticed; some untreated tamarisk but are showing defoliation.
## DR Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamarisk</td>
<td>Mod-High</td>
<td>Mod</td>
<td>5-25%</td>
<td>1-13</td>
</tr>
<tr>
<td>Russian knapweed</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>1-2</td>
</tr>
<tr>
<td>Reed canary grass</td>
<td>Mod</td>
<td>Low-Mod</td>
<td>1-5%</td>
<td>3</td>
</tr>
<tr>
<td>Siberian elm</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>10</td>
</tr>
<tr>
<td>Sweet clover</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
<tr>
<td>Canada thistle</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
<tr>
<td>Russian olive</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1-10</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Musk thistle</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1-2</td>
</tr>
<tr>
<td>Purple loosestrife</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
</tbody>
</table>
## DR Native Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Willow</td>
<td>Mod-High</td>
<td>Mod-High</td>
<td>5-25%</td>
<td>5</td>
</tr>
<tr>
<td>Phragmites</td>
<td>Mod</td>
<td>Mod</td>
<td>5-25%</td>
<td>5</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>Mod-High</td>
<td>Mod</td>
<td>5-25%</td>
<td>7</td>
</tr>
<tr>
<td>Woolly sedge</td>
<td>Mod-High</td>
<td>Mod-High</td>
<td>5-25%</td>
<td>2</td>
</tr>
<tr>
<td>Box elder</td>
<td>Mod</td>
<td>Low-Mod</td>
<td>1-5%</td>
<td>10-25</td>
</tr>
<tr>
<td>Poison ivy</td>
<td>Low-Mod</td>
<td>Low-Mod</td>
<td>1-5%</td>
<td>1-5</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>Low-Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>5</td>
</tr>
<tr>
<td>Inland saltgrass</td>
<td>Low-Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Alkali sacaton</td>
<td>Low-Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Single-leaf ash</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>10</td>
</tr>
<tr>
<td>Juniper</td>
<td>Low-Mod</td>
<td>Low</td>
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<td>10</td>
</tr>
<tr>
<td>Greasewood</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>5</td>
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</table>
### DR Native Species Response (cont.)

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Survival Rate (if planted)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scrub oak</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>8</td>
</tr>
<tr>
<td>Baccharis</td>
<td>Low-Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>5</td>
</tr>
<tr>
<td>Dogbane</td>
<td>Low-Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Rough cocklebur</td>
<td>Low-Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Big sagebrush</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>Low-Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>2-3</td>
</tr>
<tr>
<td>Foxtail</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Wild rose</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
</tbody>
</table>
Dolores River (DR):
Additional Observations
Woolly sedge (Carex pellita)

UTM NAD-83: 691337 E, 4251411 N

Accuracy: 23 Feet

Date: July 13, 2012

Time: 12:21 P.M.

Bearing:

Photographer: Jesse Lanci

Notes: 2-3’ tall, skinny, vibrant forest green.
Purple loosestrife (*Lythrum salicaria*)
Bull thistle (Cirsium vulgare)
Dolores River (DR): Overall Impressions

- Non-Natives
  - Lots of re-growth on tamarisk and Siberian elm stumps
  - Russian knapweed noticed but not in large densities like other sites

- Natives
  - Lots of native vegetation throughout site

- Overall
  - Good, native vegetation providing good wildlife habitat
  - Lots of wildlife seen
San Miguel River (SMR) Monitoring Stretch

BLM Office: Uncompahgre

Hike Time: 0 min

Monitoring Time: 2 hrs

Notes about Site:
The 3 mile site was monitored by slowly driving along the site twice.
San Miguel River (SMR): Initial Observations

Relevant Observations
- Re-growth on all stumps seen (for both tamarisk and Siberian elm).
- No slash piles seen
- Lots of plant diversity

Evidence of Beetle Presence
- Beetles & larvae present
- Defoliation ~30%

Evidence of Wildlife or Livestock Grazing
- None
SMR_1 (2012)

UTM NAD-83: 692167 E, 4250324 N     Accuracy: 18 Feet     Date: July 14, 2012
Time: 8:46 A.M.     Bearing: 300     Photographer: Jesse Lanci
Notes: Overview; with water birch, woolly sedge, willows and native Phragmites.
SMR_2 (2012)

UTM NAD-83: 692395 E, 4250510 N  Accuracy: 61 Feet  Date: July 14, 2012
Time: 8:50 A.M.  Bearing: 300  Photographer: Audrey Butler
Notes: Willow and native Phragmites on island w/ large Russian olive.
SMR_3 (2012)

UTM NAD-83: 692395 E, 4250510 N  Accuracy: 61 Feet  Date: July 14, 2012
Time: 8:50 A.M.  Bearing: 185  Photographer: Audrey Butler
Notes: Some tamarisk growth
SMR_4 (2012)

UTM NAD-83: 692636 E, 4250690 N  Accuracy: 10 Feet  Date: July 14, 2012

Time: 8:55 A.M.  Bearing: 70  Photographer: Jesse Lanci

Notes: Single-leaf ash; largest stand of tamarisk seen on the monitoring stretch. Willows and New Mexico privet are dominant.
SMR_5 (2012)

UTM NAD-83: 693241 E, 4251068 N

Accuracy: 11 Feet

Date: July 14, 2012

Time: 9:00 A.M.

Bearing: 260

Photographer: Jesse Lanci

Notes: Tamarisk cut area with re-sprouts (with defoliation).
SMR_6 (2012)

UTM NAD-83: 693263 E, 4251083 N    Accuracy: 10 Feet    Date: July 14, 2012
Time: 9:06 A.M.    Bearing: 20    Photographer: Jesse Lanci

Notes: Siberian elm stump with re-growth.
SMR_7 (2012)

UTM NAD-83: 693784 E, 4250836 N

Accuracy: 11 Feet

Date: July 14, 2012

Time: 9:12 A.M.

Bearing: 280

Photographer: Jesse Lanci

Notes: Lots of willow, New Mexico privet and poison ivy.
SMR_8 (2012)

UTM NAD-83: 693822 E, 4250827 N
Accuracy: 9 Feet
Date: July 14, 2012

Time: 9:12 A.M.
Bearing: 90
Photographer: Jesse Lanci

Notes: Lots of willow and poison ivy; tamarisk and whitetop are also in the area.
Notes: Picture showing tamarisk. Willows, three leaf sumac and New Mexico privet are dominant.
SMR_10 (2012)

UTM NAD-83: 694095 E, 4250850 N  
Accuracy: 9 Feet  
Date: July 14, 2012

Time: 9:17 A.M.  
Bearing: 50  
Photographer: Audrey Butler

Notes: Willows, three leaf sumac and New Mexico privet are dominant.
## SMR Non-Native, Invasive Species Response

<table>
<thead>
<tr>
<th>Species</th>
<th>Overall Vigor</th>
<th>Relative Cover</th>
<th>Canopy Cover</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamarisk</td>
<td>High</td>
<td>Mod</td>
<td>5-25%</td>
<td>3-15</td>
</tr>
<tr>
<td>Sweet clover</td>
<td>High</td>
<td>Mod</td>
<td>1-5%</td>
<td>3</td>
</tr>
<tr>
<td>Siberian elm</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>1-15</td>
</tr>
<tr>
<td>Russian knapweed</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Cheatgrass</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Reed canarygrass</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>3</td>
</tr>
<tr>
<td>Bindweed</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Musk thistle</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Canada thistle</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
<tr>
<td>Russian olive</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>15</td>
</tr>
<tr>
<td>Kochia</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
<tr>
<td>Lambsquarter</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Species</td>
<td>Overall Vigor</td>
<td>Relative Cover</td>
<td>Canopy Cover</td>
<td>Height (feet)</td>
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<tr>
<td>---------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>--------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Willow</td>
<td>High</td>
<td>High</td>
<td>5-25%</td>
<td>5</td>
</tr>
<tr>
<td>New Mexico privet</td>
<td>High</td>
<td>High</td>
<td>5-25%</td>
<td>10</td>
</tr>
<tr>
<td>Poison ivy</td>
<td>High</td>
<td>High</td>
<td>5-25%</td>
<td>3-8</td>
</tr>
<tr>
<td>Woolly sedge</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Phragmites</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>4-5</td>
</tr>
<tr>
<td>Wild licorice</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>2</td>
</tr>
<tr>
<td>Three leaf sumac</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Juniper</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>10</td>
</tr>
<tr>
<td>Rabbitbrush</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>4</td>
</tr>
<tr>
<td>Box elder</td>
<td>Low</td>
<td>Low</td>
<td>1-5%</td>
<td>10</td>
</tr>
<tr>
<td>Inland saltgrass</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>1</td>
</tr>
<tr>
<td>Water birch</td>
<td>Mod</td>
<td>Mod</td>
<td>1-5%</td>
<td>10</td>
</tr>
<tr>
<td>Green ash</td>
<td>Mod</td>
<td>Low</td>
<td>1-5%</td>
<td>10-20</td>
</tr>
<tr>
<td>Alkali pepperweed</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
<tr>
<td>Species</td>
<td>Overall Vigor</td>
<td>Relative Cover</td>
<td>Canopy Cover</td>
<td>Height (feet)</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Fourwing saltbush</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2-4</td>
</tr>
<tr>
<td>Wild rose</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>5</td>
</tr>
<tr>
<td>Horsetail</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Big sagebrush</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>4</td>
</tr>
<tr>
<td>Greasewood</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>3</td>
</tr>
<tr>
<td>Indian rice grass</td>
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<td>Low</td>
<td>&lt;1</td>
<td>2</td>
</tr>
<tr>
<td>Single-leaf ash</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>8</td>
</tr>
<tr>
<td>Serviceberry</td>
<td>Low</td>
<td>Low</td>
<td>&lt;1</td>
<td>6</td>
</tr>
<tr>
<td>Virginia creeper</td>
<td>Mod</td>
<td>Low</td>
<td>&lt;1</td>
<td>1</td>
</tr>
</tbody>
</table>
San Miguel River (SMR): Additional Observations
Woolly sedge (Carex pellita)

UTM NAD-83:  691337 E, 4251411 N
Accuracy:  23 Feet  Date: July 13, 2012
Time:  12:21 P.M.  Bearing: 
Photographer: Jesse Lanci
Notes:  2-3’ tall, skinny, vibrant forest green
Alkali pepperweed (*Lepidium crenatum*)

UTM NAD-83: 0665192 E 4289823 N  
Accuracy: 10 Feet  
Date: July 12, 2012

Time: 8:27 A.M.  
Bearing:  
Photographer: Jesse Lanci

Notes: 2.5’ tall, lobed leaves at towards the base of the plant, 4 petals
Lambsquarter (*Chenopodium* sp.)
Water birch (*Betula nigra*)

UTM NAD-83: 692090 E, 4250369 N  
Accuracy: 16 Feet  
Date: July 14, 2012

Time: 8:27 A.M.  
Bearing:  
Photographer: Jesse Lanci

Notes: ~20’ tall; alternate leaves. Cone like flower
Virginia creeper (*Parthenocissus quinquefolia*)

- **UTM NAD-83**: 692097 E, 4250354 N
- **Accuracy**: 9 Feet
- **Date**: July 14, 2012
- **Time**: 8:34 A.M.
- **Bearing**:
- **Photographer**: Jesse Lanci

**Notes**: Vine like plant; with 5 leaflets; berry like fruit
Green ash (*Fraxinus pennsylvanica*)

UTM NAD-83: 69209 8E, 4250364 N  
Accuracy: 12 Feet  
Date: July 14, 2012

Time: 8:40 A.M.  
Bearing:  
Photographer: Jesse Lanci

Notes: ~10-20’ tall; has normally 7 leaflets but also showing some with 8.
San Miguel River (SMR): Overall Impressions

- **Non-Natives**
  - Siberian elm and tamarisk stumps showing lots of re-sprouts
  - Watch out for potential secondary invasives

- **Overall**
  - Good, lots of plant diversity
Acknowledgments

- The data and photos presented in this report were collected in July 2012 by Jesse Lanci and Audrey Butler of the Tamarisk Coalition, Grand Junction, CO.
- This report was written by Jesse Lanci and Audrey Butler.
- Special thanks go to Amanda Clements of the Uncompahgre BLM Field Office for providing pre-monitoring and post-monitoring plant identification assistance.
- All scientific names listed for plant species are those currently recognized on the US Department of Agriculture (USDA) PLANTS Database. US Department of Agriculture, Natural Resources Conservation Service. 2012. The PLANTS Database. National Plant Data Team, Greensboro, NC, USA. Online: http://plants.usda.gov
- This monitoring was funded through BLM support of the Dolores River Restoration Partnership.