Integration of ArcGIS, Accela, and GPS for Noxious Weeds Monitoring and Reporting
STATE REQUIREMENTS

TITLE 35
AGRICULTURE

ARTICLE 5.5
Colorado Noxious Weed Act

35-5.5-101. Short title.
35-5.5-102. Legislative declaration - rule of construction.
35-5.5-103. Definitions.
35-5.5-104. Duty to manage noxious weeds.
35-5.5-104.5. Intentional introduction, cultivation, or sale of noxious weeds - costs.
35-5.5-105. Noxious weed management - powers of county commissioners.
35-5.5-106. Noxious weed management - municipal authority.
35-5.5-107. Local advisory board - formation - duties.
35-5.5-108. Designated noxious weeds - legislative declaration.
35-5.5-108.5. Responsibilities related to eradication of designated noxious weeds - commissioner - local governing bodies - affected landowners.
POS Department weed management
- 25,000 acres of public lands
- 7,000 acres of leased agricultural lands
- 685 miles of maintained ROW
- GPS units to survey/map infestations every 5 years

Land Use Department – complaint driven
- >30,000 acres of private land
- Tracked complaints through Accela based on parcel and case status
- No data on infestation location, size, density
NEW MONITORING PROGRAM

- Complaint entered into Accela

- Inspection scheduled in Accela

- During inspection polygons hand drawn on basemap
NEW MONITORING PROGRAM

- After inspections, weed attributes entered in Accela Guide Sheets. Repeat for re-inspections.
NEW MONITORING PROGRAM

- End of season, use a report in Accela to export inspection tables
- Copy tables to SDE database
- Make Query Table to join inspection results to infestation polygons
ArcToolbox

- Make Query Table
NOXIOUS WEED MANAGEMENT REQUEST

CLEAN ENERGY LLC
C/O RICHARD THOMAS,
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DENVER, CO 80250

July 05, 2012

To Whom It May Concern:

The Colorado Department of Agriculture and Boulder County have identified invasive, noxious weeds that pose an economic and environmental threat to our State. One of these weeds, Musk Thistle (Carduus nutans) is present on your property located at 11939 Sugarmill Rd. A picture of the weeds on your property, as well as a map indicating their location on your property can be found on the reverse side of this letter.

Boulder County is requesting that a noxious weed management plan be implemented for your property. The objective of the plan should be the containment and suppression of the weed. If you would like assistance from the County in developing your weed management plan, please contact Steve Sauer, the Boulder County Noxious Weed Coordinator, at 303.678.6110 or via email at ssauer@bouldercounty.org. It is the County's intent to promote methods that are the most environmentally benign and which are practical as well as economically feasible.

Please keep in mind that you have the option to proceed on your own with control. It is important to note that Musk Thistle has been designated as a list "B" weed that must be properly managed wherever detected in order to protect neighboring communities and the state as a whole; therefore it is in your best interest to manage the weeds immediately to avoid possible enforcement. It is important to note that mowing, prior to seed development, is an acceptable management plan for List B weeds designated for control.
<table>
<thead>
<tr>
<th>Year</th>
<th>Acres of Infestations</th>
<th>Private Parcels</th>
<th>Non-Compliant</th>
<th>Abated</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>103</td>
<td>113</td>
<td>11 (10%)</td>
<td>102 (90%)</td>
</tr>
<tr>
<td>2011</td>
<td>48</td>
<td>65</td>
<td>21 (32%)</td>
<td>44 (68%)</td>
</tr>
<tr>
<td>2012</td>
<td>153</td>
<td>190</td>
<td>45 (24%)</td>
<td>145 (76%)</td>
</tr>
<tr>
<td>2013</td>
<td>121</td>
<td>143</td>
<td>40 (28%)</td>
<td>103 (72%)</td>
</tr>
</tbody>
</table>
NEXT STEPS

- Test accuracy of process for creating infestation polygons using GPS units

Issues

- Must get owner’s permission to enter land prior to inspection
- Must borrow GPS units from POS Department
- Both require more coordination in advance of inspection
- Only 2 enforcement officers for entire County
QUESTIONS?

- Molly Molter, GISP
- Boulder County Land Use
- mmolter@bouldercounty.org