Rancho Jamul Ecological Reserve – SUCCESS STORY
Rancho Jamul
Target Species and Habitat
Rancho Jamul
Otay Tarplant Distribution
Target Habitats:
Grasslands and Forblands

Photo by: Kris Preston
Goal: stimulate OTP seedbank response.

Treatments: prescribed burn, line trim, mow, and herbicide (3 years).

Monitoring design: 5 blocked experimental plots in burned portion.

Threat: Nonnative Grasses and Forbs
Treatments
Treatments

- Control
- Mow
- Herbicide
## Otay Tarplant Results (2013 – 2015)

<table>
<thead>
<tr>
<th>Year</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>0</td>
</tr>
<tr>
<td>2014</td>
<td>11</td>
</tr>
<tr>
<td>2015</td>
<td>1,000s</td>
</tr>
</tbody>
</table>

- Herbicide plots: 67%
- Mow plots: 14%
- Line trim plots: 18%
- Control plots: <1%
Pre- and Post-treatment
% Wild Oat Cover (2013 - 2015)

Note: Spring 2015 data has not been statistically analyzed.
Pre- and Post-treatment
% Native Forb Cover (2013 - 2015)
## Labor – How long does it take?  
What is the cost?

<table>
<thead>
<tr>
<th>Method</th>
<th># Hours Treat 1 Ac</th>
<th>Cost (Labor Only) Treat 1 Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herbicide (Gator + Back Pack)</td>
<td>7.16</td>
<td>$86 - $308</td>
</tr>
<tr>
<td>Herbicide (Back Pack Only)</td>
<td>12</td>
<td>$144 - $516</td>
</tr>
<tr>
<td><strong>Mow</strong></td>
<td>2.9</td>
<td><strong>$35 - $125</strong></td>
</tr>
<tr>
<td>Line Trim</td>
<td>7.5 (2 people)</td>
<td>$180 - $645</td>
</tr>
</tbody>
</table>
In Conclusion......

• Take advantage of “clean slate” produced by fire for restoration purposes.
• Mowing is quickest and cheapest.
• Herbicide is most effective for OTP seed bank response and provides recruitment sites for natives.
• >1-2 years to obtain results.

But, perpetual management is necessary.
Project Partners