

Precision Invasive Species Management





Who we are:

- **Based in Logan, Utah**
- **Serve the Intermountain West**
- **Design, build, support GPS/GIS Natural Resource Management Systems**
- **Provide invasive species management services**





What we do:

Right-of-Way





What we do:

Noxious Weed Control and Inventory





What we do:

Restoration





Decision Making is Key:

- **LOWEST COST**
- **EFFECTIVE**
- **RESTORE/ENHANCE VALUES**





Decision Making is Key:

- **What will it cost to manage invasive species?**





Decision Making is Key:

Success (biologically) is a reduction in:

- Number of noxious weed species
- Gross Area
- Infested Area
- Noxious weed canopy cover

Based on NAWMA Mapping standards





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-Increase in desirable species





Our Approach:

Systematic

**Adaptive
Management**

ISO 14001





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Planning Services:

Planning



Treatment Plan:

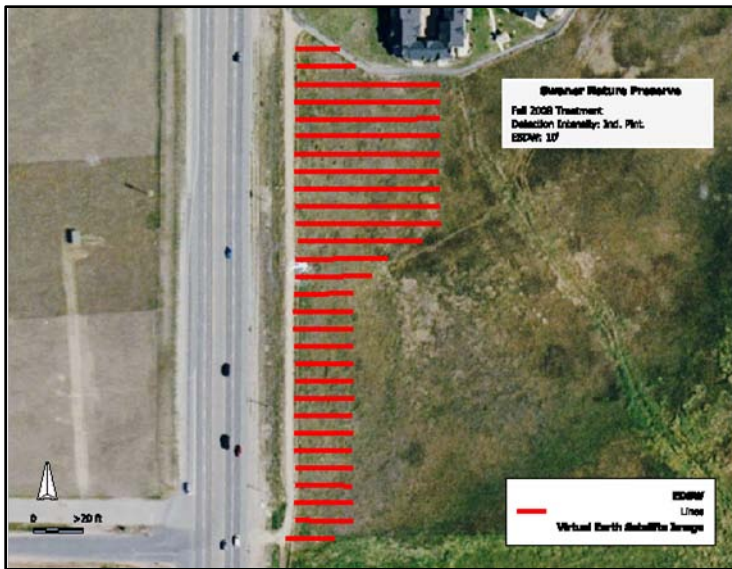
- Treatment Boundaries
- No-Treat Zones and Buffers
- Priority Species = Canadian Thistle
- Minimum Detectable Target Size = Ind. Plants
- Effective Detection Swath Width = 10 ft
- Treatment Intensity Goal = 80%





Treatment Services:

Planning



Prescription Map Loaded into field computers

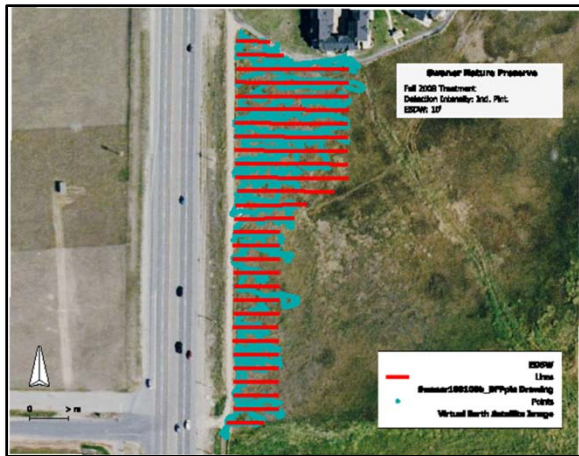




Treatment Documentation:

Treatment

- Area Searched = 3.58 ac
- Gross Area Infested = 3.01 ac



Client		Location			
San Co. 435-700-1111	Name: Can CSP	County: Cache	Description: 2.5 Miles north of Clarkston, Utah		
	Township:	Range:			
	Section:				
Equipment Configuration		Application		Application Date/Time	
Vehicle: Grizzly 660	Timing: Post Emergence	Start Time: 9/23/2020 3:44 PM			
Sprayer: Boomless 1025 Nozzles	Placement: Ground	End Time: 9/23/2020 5:32 PM			
Boom Height: 23.5 in	Beam Pressure: 32 PSI				
Product: Veteran 720					
Applied Area: 31.26 ac					
Rate (gal/ac):					
<input type="checkbox"/> 31 - 41 <input type="checkbox"/> 21 - 31 <input type="checkbox"/> 11 - 21 <input type="checkbox"/> 0 - 21					
Crop		Restrictions		Target Pests	
Crop: CSP	Crop Rotation Restrictions: 60 Days	Dyers Weed		Canadian Thistle	
Crop Stage: Not Observed	Restricted Entry Interval (REI): 0 Day				
Product Summary					
Name	Manufacturer	EPA #	RUP	Amount	Average Rate
Veteran 720	Nufarm	228-295	No	937.92 gal 015.63 gal/ac	30.00 gal/ac 00.50 gal/ac
Operator/Supervisor Information					
Operator: David Murray	License: 4001-13790	Signature			
Operator:	License:				
Supervisor:	License:				

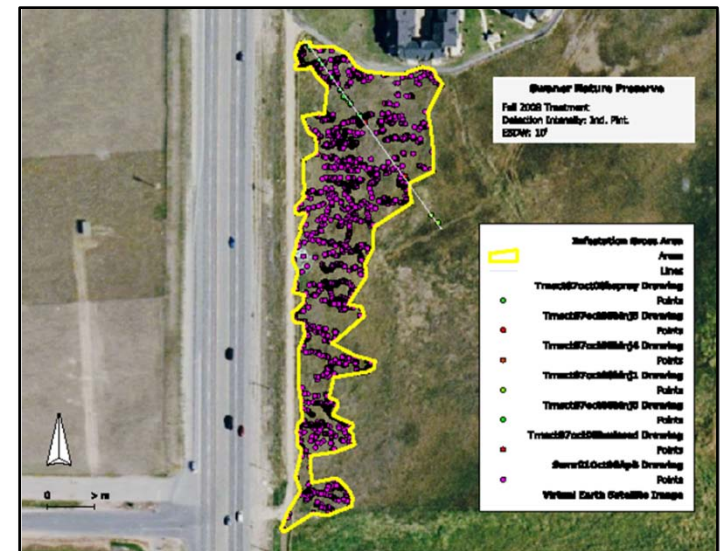




Effectiveness Monitoring Services:

Monitoring

- **Weed Population Monitoring (transects)**
 - Infested Area = 0.23 ac
 - Canopy Cover = 0.64%
- **Effectiveness Monitoring**
 - Percent Sprayed = 92%
 - Percent Injury = 89%





Client Review of our Services:

Review

Information Sharing

- **Google Maps**
- **Social Networking Communities**





Client Review of our Services:

Review

- **Achieved client's standards.**
- **Geospatial treatment documentation.**
- **Effectiveness Report used to justify budget and grant funding.**





Lowest Cost per Acre

- **Found in the System as a whole**
 - **Regulatory compliance**
 - **Treatment and Inventory**
 - **10-15% savings in labor and chemicals**
 - **Greater effectiveness**
 - **Management Documentation**





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