

# Northwest Montana Wetland Management District

## Anderson WPA and Sandmark WPA

Lee Metcalf ISST

### Accomplishments

Weed Species	Total Survey Acres <sup>1</sup>	Survey Acres Infested <sup>2</sup>	Acres Treated <sup>3</sup>
Bull thistle	193.07*	7.82	6.62
Canada thistle	0	0.13	0
Common teasel	193.07*	2.90	2.50
Dalmatian toadflax	193.07*	1.60	0
Field bindweed	0	0.36	0
Houndstongue	193.07*	2.54	1.71
Leafy spurge	204.09*	0.63	0.63
Meadow hawkweed	193.07*	0.08	0.08
Musk thistle	193.07*	8.55	7.88
Oxeye daisy	0	0.77	0.03
Poison hemlock	193.07*	0.76	0.55
Purple loosestrife	1.93	0.18	0.18
Spotted knapweed	193.07*	1.91	1.82
St. Johnswort	0	1.41	1.17
Sulfur cinquefoil	0	0.37	0
Whitewort/Whitewort cress	0	0.002	0
<b>Flathead County Totals</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Lake County Totals</b>	<b>206.02</b>	<b>30.01</b>	<b>23.17</b>
<sup>1</sup> Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. <sup>2</sup> Area occupied by weed species within the survey area that does not contain the space between individuals or populations (i.e. net infestation size) as measured by GPS feature for monitoring and treatment combined, but areas in common not additive. <sup>3</sup> The area or subset of infested area that has received some form of treatment as measured by GPS feature. * One survey area was searched for multiple species but this survey acreage was only counted once. Target surveys were not conducted for all species. Details of species included in this survey category are included in the individual project reports.			

### Summary

#### Flathead County

- Large-scale inventories have been conducted in prior years by the Strike Team on the WPAs in Flathead County. There were no proposals in 2016 for ISST to work on sites in the Flathead County portion of the Northwest Montana Wetland Management District.

#### Lake County

- Inventory of priority species on Anderson WPA was the primary focus on the District this year and nearly all species mapped were also treated during the survey period.
  - Leafy spurge and meadow hawkweed are small in size and distribution and therefore are high priority for removal. New EDRR patches of these species were found and sprayed this season.
- Purple loosestrife is only known to occur in limited distribution on the District and therefore was a

priority for mapping and mechanical treatment.

- Flowering stalks were clipped and bagged for disposal offsite to reduce seed production and dispersal.

# Northwest Montana Wetland Management District, Lake Co.

## Anderson WPA

Lee Metcalf ISST

### Accomplishments

Weed Species	Total Survey Acres <sup>1</sup>	Survey Acres Infested <sup>2</sup>	Acres Treated <sup>3</sup>
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Dalmatian toadflax	193.07*	1.60	0
Field bindweed	0	0.36	0
Houndstongue	193.07*	2.54	1.71
Leafy spurge	204.09*	0.63	0.63
Meadow hawkweed	193.07*	0.08	0.08
Musk thistle	193.07*	8.55	7.88
Oxeye daisy	0	0.77	0.03
Poison hemlock	193.07*	0.76	0.55
Spotted knapweed	193.07*	1.91	1.82
St. Johnswort	0	1.41	1.17
Sulfur cinquefoil	0	0.37	0
Whitetop/Hoary cress	0	0.002	0
<b>Project Site Totals</b>	<b>204.09</b>	<b>29.83</b>	<b>22.99</b>
<p><sup>1</sup> Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS.</p> <p><sup>2</sup> Area occupied by weed species within the survey area that does not contain the space between individuals or populations (i.e. net infestation size) as measured by GPS feature for monitoring and treatment combined, but areas in common not additive.</p> <p><sup>3</sup> The area or subset of infested area that has received some form of treatment as measured by GPS feature.</p> <p>* One survey area was searched for multiple species but this survey acreage was only counted once.</p>			

### Highlights

#### Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
15-June-2016	EDRR Project Mechanical Treatment	Leafy spurge	4	Point-to-point survey based on historic locations, plus a 30M buffer around all spurge found
15-June-2016	EDRR Project Chemical Treatment	Meadow hawkweed	1	Sprayed two patches, one of which was a newly mapped infestation.
19-July-2016 to 21-July-2016	Refuge Inventory Project	All noxious weeds	2	Targeted all noxious weeds for initially. However for some species mapping was not completed due to extensive

	Refuge Project Chemical Treatment		3	infestations present.
8-August-2016 to 11-August 2016	Refuge Inventory Project	All noxious weeds	2-3	Continued treatment and inventory of noxious weeds. The crew encountered rainy weather this week.
	Refuge Project Chemical Treatment			

#### **Coordination and Cooperation**

- ISST Crew Leader, Jessica Zarate, coordinated with Biologist, Amy Lisk, via email using the “Strike Team Expectation and Accomplishment Checklist” in June. All coordination was done prior to arrival via email and phone.
- Amy Lisk requested ISST include a patch of spurge that is located on private property, immediately northeast of the site, in all control efforts since they had been granted permission to apply treatments in this area.

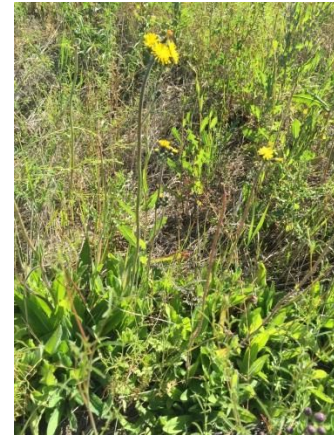
#### **Prevention and Education**

- Leafy spurge tops are removed during flowering to inhibit seed production.
- These plants are then typically treated with herbicide in the fall.

#### **Early Detection and Rapid Response**

##### ***Leafy spurge***

- Leafy spurge is limited in its abundance and distribution on this site making it an ideal candidate for early detection and rapid response treatment.
- The crew was unable to clip all of the spurge found in June due to other higher priority projects in the area limiting the amount of time that could be spent on this project.
  - Patches that were not clipped were identified for the project leader on the checklist provided following the visit.
- Acres infested is higher this year as compared to 2015 (0.30 acres) because a few new patches of spurge were found in addition to the known locations that are still present.
- If left untreated this species will certainly expand and further degrade the site. Because leafy spurge is difficult to control, it may be best to review and implement multiple management methods to most effectively reduce its spread.



##### ***Meadow hawkweed***

- Meadow hawkweed was treated using historic location data for point-to-point surveys.
  - All historic locations were surveyed and several new small patches were located.
- All hawkweed found was treated.
- In 2015, this species was not included for management by the strike team, so only one new patch (0.005 acres) was mapped that year.

#### **Inventory and Monitoring**

- The primary focus of Strike Team efforts this year was to inventory all noxious weeds onsite.
- The entire site was mapped for inventory of noxious weeds this season.
- Due to the extent of some of the large infestations onsite some species that were initially targeted were discontinued so that more time could be put toward treatment.
  - Canada thistle, field bindweed, whitetop, St. Johnswort, and sulfur cinquefoil were not surveyed during the entire survey period and therefore acres infested may not include the entire infestation on site.

- The team systematically transected the site while using historic data locations to help ensure detection of targeted species that may be difficult to detect due to size or phenology at the time of survey. Since the survey period spanned over several days starting in mid-July to mid-August, not all plants were readily identifiable or suitable for treatment at all times during the survey period.
- Dalmatian toadflax was inventoried only and not treated this field season. This species was not treated because the herbicide being applied was not suitable for controlling this species.
  - This species was found to be distributed throughout the site with the largest concentration being in the northwest and eastern regions.
- In July, the team split into two groups and two people worked on-foot conducting inventory only in the northern portion of the site. The second group of three people worked off of ATVs and sprayed plants that were suitable for treatment while also inventorying all weeds. This division of the crew was made out of medical necessity for one of the team members.

### Management

- Following the completion of the leafy spurge project discussed above, the teams' primary focus was to provide an inventory of the weeds onsite while simultaneously treating weeds that were suitable for treatment at the time of survey.
  - Oxeye daisy was treated in July only and not in August when plants were post-flower and herbicide would not likely be effective.
  - It was late in the season for detection of whitetop however a couple of points were detected and mapped.
- The team began treatment in the south working northward. In August, after ISST completed the inventory and treatment in the south and central areas, there was not enough time to treat all of the weeds in the north that had previously been inventoried. This area supports a large number of weeds that are dense and widely distributed. This is reflected in the differences in acres infested and acres treated for species unless otherwise noted.
- Leafy spurge, meadow hawkweed, poison hemlock and spotted knapweed are more limited in abundance and distribution than some of the other species treated.
  - Leafy spurge and meadow hawkweed are addressed above in this report.
  - The largest patches of poison hemlock are located in the northwest corner of the site with a few new patches becoming established in the south and east.
  - Several large patches of spotted knapweed were located along the southern and northwest fence lines. While this species was found throughout the area, the patches on the interior and to the east are smaller and less dense.
- Houndstongue was mapped throughout the site with the largest polygons located in the northwest and south east areas.
- Extensive patches of St. Johnswort are present in the northeast and much more is known to be present than was mapped during the survey period. Smaller more isolated patches were targeted for survey and treatment in the central and southern area where patches found were singular plants or more sparse in distribution.
- Common teasel species is found in the highest density in the northwest portion of the site. It occurs throughout but becomes more sparse to the east and south. Although common teasel is not listed by the state as a noxious weed, it is well known for rapid invasion and degradation of wetlands and is therefore targeted for management within this complex.
- Bull thistle and Musk thistle are the most wide-spread and abundant species found on the project site.

### Herbicide Applied

- 26.24oz of *Chaparral* was used for treatment of all species.

### Proposed 2017 Schedule

- Meadow hawkweed should continue to be monitored and treated.
- Leafy spurge is a long-lived perennial that often takes many years to eradicate. This species has a

competitive advantage because it is highly adaptable and can establish new patches readily by prolific seed production or its extensive rhizomatous root system. Therefore ISST recommends continued intensive efforts (multiple treatments in the same growing season) to contain, suppress and eventually eradicate this species from the site.

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 06/15/16 **Time (start/stop):** 3:00p - 4:30p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☒ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 1 MPH, direction from SW Temp.: 61 °F Humidity: 37 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

- ☐ Aquaneat – NuFarm #228-365
- ☐ Chaparral – Dow #62719-597
- ☐ Curtail – Dow AgroSciences #62719-48
- ☐ EscortXP – DuPont #352-439
- ☐ Habitat – BASF #241-426
- ☐ Metcel VMF– Agsurf #352-439-8558
- ☐ Milestone – Dow AgroSciences #62719-519
- ☐ Plateau – BASF #241-365
- ☐ Telar XP – DuPont #352-654
- ☐ Tordon & Telar XP
- ☐ Transline – Dow AgroSciences #62719-259
- ☐ Tordon 22K – Dow AgroSciences #62719-6

- ☐ Tordon & Distinct – Tank Mix  
Dow AgroSciences #62719-6 / BASF #7969-150
- ☐ Metcel & Milestone – Tank Mix  
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
- ☐ Escort XP & Milestone – Tank Mix  
DuPont #352-439 / Dow AgroSciences #62719-519
- ☐ Other \_\_\_\_\_
- ☐ Dye Used/Rate: \_\_\_\_\_
- ☐ Adjuvant Used: \_\_\_\_\_

**Equipment Used:** ☐ ATV GPA \_\_\_\_ ☐ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_

☒ Mechanical Clipped and bagged

**Chem. Rate:** \_ **Gallons Sprayed:** \_ **Amt. of Chemical Applied:** \_ **Acres Treated:** \_

**Vegetation Treated:**

- |                                            |                                                  |                                               |                                            |
|--------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Absinthe wormwood | <input type="checkbox"/> Dalmatian toadflax      | <input type="checkbox"/> Orange hawkweed      | <input type="checkbox"/> Spotted knapweed  |
| <input type="checkbox"/> Baby's breathe    | <input type="checkbox"/> Dame's rocket           | <input type="checkbox"/> Oxeye daisy          | <input type="checkbox"/> Sulfur cinquefoil |
| <input type="checkbox"/> Blueweed          | <input type="checkbox"/> Hoary alyssum           | <input type="checkbox"/> Perennial pepperweed | <input type="checkbox"/> Tall buttercup    |
| <input type="checkbox"/> Bull thistle      | <input type="checkbox"/> Houndstongue            | <input type="checkbox"/> Poison hemlock       | <input type="checkbox"/> Tansy ragwort     |
| <input type="checkbox"/> Canada thistle    | <input type="checkbox"/> Italian bugloss         | <input type="checkbox"/> Purple loosestrife   | <input type="checkbox"/> Whitetop          |
| <input type="checkbox"/> Cheatgrass        | <input checked="" type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed     | <input type="checkbox"/> Yellow toadflax   |
| <input type="checkbox"/> Common tansy      | <input type="checkbox"/> Meadow hawkweed         | <input type="checkbox"/> Russian olive        | <input type="checkbox"/> Yellowflag iris   |
| <input type="checkbox"/> Common teasel     | <input type="checkbox"/> Musk thistle            | <input type="checkbox"/> Saltcedar            | <input type="checkbox"/> Other: _          |

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☐ Post-Flowering  
☐ Senescing ☐ Senesced

**Location #1 (Site specific description):**  
Northern end, outside of the Eastern fence

**Location #2 (Site specific description):**

**COMMENTS:**

Clipped and bagged spurge from one polygon but only had time to get through about half it. Monitored the rest of polygon as untreated.

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 06/15/16 **Time (start/stop):** 3:00p - 4:30p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☐ A. Crockett

☒ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 1 MPH, direction from SW Temp.: 61 °F Humidity: 37 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☐ ATV GPA \_\_\_\_ ☐ Handgun ☐ Broadcast

☒ Backpack GPA 20 ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 **Gallons Sprayed:** 0.75 **Amt. of Chemical Applied:** 0.1125 **Acres Treated:** 0.0375

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☐ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☒ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☐ Bull thistle

☐ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☒ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☐ Common teasel

☐ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☐ Post-Flowering  
☐ Senescing ☐ Senesced

**Location #1 (Site specific description):**

South end of WPA then up both East and West fences, making a U shape

**Location #2 (Site specific description):**

**COMMENTS:**

Found unmapped patch of hawkweed



# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ *Jessica Zarate 101891-15* (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 06/15/16 **Time (start/stop):** 2:45p - 5:00p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☒ C. Howard ☐ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 1 MPH, direction from SW Temp.: 61 °F Humidity: 37 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☐ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☐ Dye Used/Rate: \_\_\_\_\_

☐ Adjuvant Used: \_\_\_\_\_

**Equipment Used:** ☐ ATV GPA \_\_\_\_ ☐ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_

☒ Mechanical Clipped and bagged

**Chem. Rate:** \_ **Gallons Sprayed:** \_ **Amt. of Chemical Applied:** \_ **Acres Treated:** \_

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Baby's breathe

☐ Blueweed

☐ Bull thistle

☐ Canada thistle

☐ Cheatgrass

☐ Common tansy

☐ Common teasel

☐ Dalmatian toadflax

☐ Dame's rocket

☐ Hoary alyssum

☐ Houndstongue

☐ Italian bugloss

☒ Leafy spurge

☐ Meadow hawkweed

☐ Musk thistle

☐ Orange hawkweed

☐ Oxeye daisy

☐ Perennial pepperweed

☐ Poison hemlock

☐ Purple loosestrife

☐ Russian knapweed

☐ Russian olive

☐ Saltcedar

☐ Spotted knapweed

☐ Sulfur cinquefoil

☐ Tall buttercup

☐ Tansy ragwort

☐ Whitetop

☐ Yellow toadflax

☐ Yellowflag iris

☐ Other: \_

**Plant Phenology & Stage:** ☐ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☐ Post-Flowering  
☐ Senescing ☐ Senesced

**Location #1 (Site specific description):**

Anderson WPA

**Location #2 (Site specific description):**

**COMMENTS:**

Used ATV to find historic points of leafy spurge. Hand-clipped point of spurge within historic polygon. No new plants found within 30 meter buffer. Created new polygon.

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ *Jessica Zarate 101891-15* (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 07/19/16 **Time (start/stop):** 8:00a - 4:30p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☐ A. Crockett

☒ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 2 MPH, direction from E Temp.: 62 °F Humidity: 70 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 86 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 **Gallons Sprayed:** 10 **Amt. of Chemical Applied:** 0.34 **Acres Treated:** 0.11

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☒ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☒ Senesced

**Location #1 (Site specific description):**

South end of WPA, working North, East to West

**Location #2 (Site specific description):**

**COMMENTS:**

Hounds was rosette, senescing, cut seed heads

Teasel was post flowering

Musk was flowering, senescing

Bull was flowering, senescing

Knapweed was post flowering

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 07/19/16 **Time (start/stop):** 8:30a - 4:45p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☒ C. Howard ☐ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 2 MPH, direction from E Temp.: 62 °F Humidity: 70 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☐ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☐ Dye Used/Rate: \_\_\_\_\_

☐ Adjuvant Used: \_\_\_\_\_

**Equipment Used:** ☐ ATV GPA \_\_\_\_ ☐ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_

☒ Mechanical Clipped and bagged

**Chem. Rate:** \_ **Gallons Sprayed:** \_ **Amt. of Chemical Applied:** \_ **Acres Treated:** \_

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☐ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☐ Bull thistle

☐ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☒ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☐ Common teasel

☐ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☐ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☐ Post-Flowering

☐ Senescing

☐ Senesced

**Location #1 (Site specific description):**

Clipped flowering leafy spurge

**Location #2 (Site specific description):**

**COMMENTS:**

Clipped flowering leafy spurge in historical polygons

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 07/19/16 **Time (start/stop):** 8:00a - 4:30p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate  
☒ C. Howard ☐ A. Crockett  
☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 2 MPH, direction from E Temp.: 62 °F Humidity: 70 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

- |                                                                  |                                                                              |
|------------------------------------------------------------------|------------------------------------------------------------------------------|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365              | <input type="checkbox"/> Tordon & Distinct – Tank Mix                        |
| <input checked="" type="checkbox"/> Chaparral – Dow #62719-597   | Dow AgroSciences #62719-6 / BASF #7969-150                                   |
| <input type="checkbox"/> Curtail – Dow AgroSciences #62719-48    | <input type="checkbox"/> Metcel & Milestone – Tank Mix                       |
| <input type="checkbox"/> EscortXP – DuPont #352-439              | Agsurf #352-439-8558 / Dow AgroSciences #62719-519                           |
| <input type="checkbox"/> Habitat – BASF #241-426                 | <input type="checkbox"/> Escort XP & Milestone – Tank Mix                    |
| <input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558        | DuPont #352-439 / Dow AgroSciences #62719-519                                |
| <input type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____                                         |
| <input type="checkbox"/> Plateau – BASF #241-365                 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Hi-light 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654              | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac 4oz/acre</u>   |
| <input type="checkbox"/> Tordon & Telar XP                       |                                                                              |
| <input type="checkbox"/> Transline – Dow AgroSciences #62719-259 |                                                                              |
| <input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6  |                                                                              |

**Equipment Used:** ☒ ATV GPA 98 ☒ Handgun ☐ Broadcast  
☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 **Gallons Sprayed:** 5 **Amt. of Chemical Applied:** 0.15 **Acres Treated:** 0.051

0.051 Vegetation Treated:

- |                                                   |                                                  |                                               |                                                      |
|---------------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> Absinthe wormwood        | <input type="checkbox"/> Dalmatian toadflax      | <input type="checkbox"/> Orange hawkweed      | <input checked="" type="checkbox"/> Spotted knapweed |
| <input type="checkbox"/> Baby's breathe           | <input type="checkbox"/> Dame's rocket           | <input type="checkbox"/> Oxeye daisy          | <input type="checkbox"/> Sulfur cinquefoil           |
| <input type="checkbox"/> Blueweed                 | <input type="checkbox"/> Hoary alyssum           | <input type="checkbox"/> Perennial pepperweed | <input type="checkbox"/> Tall buttercup              |
| <input checked="" type="checkbox"/> Bull thistle  | <input checked="" type="checkbox"/> Houndstongue | <input type="checkbox"/> Poison hemlock       | <input type="checkbox"/> Tansy ragwort               |
| <input type="checkbox"/> Canada thistle           | <input type="checkbox"/> Italian bugloss         | <input type="checkbox"/> Purple loosestrife   | <input type="checkbox"/> Whitetop                    |
| <input type="checkbox"/> Cheatgrass               | <input type="checkbox"/> Leafy spurge            | <input type="checkbox"/> Russian knapweed     | <input type="checkbox"/> Yellow toadflax             |
| <input type="checkbox"/> Common tansy             | <input type="checkbox"/> Meadow hawkweed         | <input type="checkbox"/> Russian olive        | <input type="checkbox"/> Yellowflag iris             |
| <input checked="" type="checkbox"/> Common teasel | <input checked="" type="checkbox"/> Musk thistle | <input type="checkbox"/> Saltcedar            | <input type="checkbox"/> Other: _                    |

**Plant Phenology & Stage:** ☐ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☐ Post-Flowering  
☐ Senescing ☐ Senesced

## Location #1 (Site specific description):

Transected and sprayed mostly spotted knapweed

## Location #2 (Site specific description):

Transected and sprayed for musk/bull, teasel, and houndstongue

## COMMENTS:

Transected and sprayed for musk thistle, bull thistle, houndstongue, common teasel, and spotted knapweed. Monitored for toadflax

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 07/19/16 **Time (start/stop):** 8:00a - 4:45p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☒ C. Howard ☒ A. Crockett

☒ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 2 MPH, direction from E Temp.: 62 °F Humidity: 70 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☐ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☐ Dye Used/Rate: \_\_\_\_\_

☐ Adjuvant Used: \_\_\_\_\_

**Equipment Used:** ☐ ATV GPA \_\_\_\_ ☐ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_

☒ Mechanical Clipped and bagged

**Chem. Rate:** \_ **Gallons Sprayed:** \_ **Amt. of Chemical Applied:** \_ **Acres Treated:** \_

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☐ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☐ Bull thistle

☐ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☒ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☐ Common teasel

☐ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☐ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☐ Post-Flowering

☒ Senescing

☐ Senesced

**Location #1 (Site specific description):**

Historic spurge patches

**Location #2 (Site specific description):**

**COMMENTS:**

Clipped seed heads in historic points

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 07/20/16 **Time (start/stop):** 9:45a - 4:30p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☒ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 1 MPH, direction from S Temp.: 74 °F Humidity: 47 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 86 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 **Gallons Sprayed:** 8 **Amt. of Chemical Applied:** 0.27 **Acres Treated:** 0.09

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☒ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☐ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

Continuing North from the south end of WPA

**Location #2 (Site specific description):**

**COMMENTS:**

Continued transecting field

Monitored oxeye daisy and Dalmatian

Bull thistle was pre flower

Teasel was post flower

Houndstongue was rosette and post flower/senescing

Musk was post/senescing Knapweed was post flowering

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 07/20/16 **Time (start/stop):** 9:00a - 4:30p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☒ C. Howard ☐ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 1 MPH, direction from S Temp.: 74 °F Humidity: 47 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 98 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3oz **Gallons Sprayed:** .5gal **Amt. of Chemical Applied:** 0.15oz **Acres Treated:** 0.05 ac

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☒ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☐ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

Sprayed a newly discovered patch of meadow hawkweed

**Location #2 (Site specific description):**

Sprayed knapweed, houndstongue, bull and musk thistle

**COMMENTS:**

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 07/21/16 **Time (start/stop):** 9:00a - 12:00p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate  
☐ C. Howard ☒ A. Crockett  
☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 2 MPH, direction from NE Temp.: 66 °F Humidity: 53 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

- |                                                                  |                                                                              |
|------------------------------------------------------------------|------------------------------------------------------------------------------|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365              | <input type="checkbox"/> Tordon & Distinct – Tank Mix                        |
| <input checked="" type="checkbox"/> Chaparral – Dow #62719-597   | Dow AgroSciences #62719-6 / BASF #7969-150                                   |
| <input type="checkbox"/> Curtail – Dow AgroSciences #62719-48    | <input type="checkbox"/> Metcel & Milestone – Tank Mix                       |
| <input type="checkbox"/> EscortXP – DuPont #352-439              | Agsurf #352-439-8558 / Dow AgroSciences #62719-519                           |
| <input type="checkbox"/> Habitat – BASF #241-426                 | <input type="checkbox"/> Escort XP & Milestone – Tank Mix                    |
| <input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558        | DuPont #352-439 / Dow AgroSciences #62719-519                                |
| <input type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____                                         |
| <input type="checkbox"/> Plateau – BASF #241-365                 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Hi-light 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654              | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac 4oz/acre</u>   |
| <input type="checkbox"/> Tordon & Telar XP                       |                                                                              |
| <input type="checkbox"/> Transline – Dow AgroSciences #62719-259 |                                                                              |
| <input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6  |                                                                              |

**Equipment Used:** ☒ ATV GPA 124 ☒ Handgun ☐ Broadcast  
☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 Gallons Sprayed: 5 Amt. of Chemical Applied: 0.12 Acres Treated: 0.04

**Vegetation Treated:**

- |                                                  |                                                  |                                                    |                                            |
|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Absinthe wormwood       | <input type="checkbox"/> Dalmatian toadflax      | <input type="checkbox"/> Orange hawkweed           | <input type="checkbox"/> Spotted knapweed  |
| <input type="checkbox"/> Baby's breathe          | <input type="checkbox"/> Dame's rocket           | <input type="checkbox"/> Oxeye daisy               | <input type="checkbox"/> Sulfur cinquefoil |
| <input type="checkbox"/> Blueweed                | <input type="checkbox"/> Hoary alyssum           | <input type="checkbox"/> Perennial pepperweed      | <input type="checkbox"/> Tall buttercup    |
| <input checked="" type="checkbox"/> Bull thistle | <input checked="" type="checkbox"/> Houndstongue | <input checked="" type="checkbox"/> Poison hemlock | <input type="checkbox"/> Tansy ragwort     |
| <input type="checkbox"/> Canada thistle          | <input type="checkbox"/> Italian bugloss         | <input type="checkbox"/> Purple loosestrife        | <input type="checkbox"/> Whitetop          |
| <input type="checkbox"/> Cheatgrass              | <input type="checkbox"/> Leafy spurge            | <input type="checkbox"/> Russian knapweed          | <input type="checkbox"/> Yellow toadflax   |
| <input type="checkbox"/> Common tansy            | <input type="checkbox"/> Meadow hawkweed         | <input type="checkbox"/> Russian olive             | <input type="checkbox"/> Yellowflag iris   |
| <input type="checkbox"/> Common teasel           | <input checked="" type="checkbox"/> Musk thistle | <input type="checkbox"/> Saltcedar                 | <input type="checkbox"/> Other: _          |

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☐ Flowering ☒ Post-Flowering  
☐ Senescing ☐ Senesced

**Location #1 (Site specific description):**

Center of WPA working South to North

**Location #2 (Site specific description):**

**COMMENTS:**

Continued transecting West to East working our way North  
Monitored Dalmatian toadflax and oxeye daisy  
Found bull thistle (pre flowering), houndstongue (rosette and post flower), musk thistle (post flower), and poison hemlock (pre flower)



# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/08/16 **Time (start/stop):** 2:00p - 5:00p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate  
☐ C. Howard ☒ A. Crockett  
☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 1.5 MPH, direction from N Temp.: 81 °F Humidity: 32 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

- |                                                                  |                                                                              |
|------------------------------------------------------------------|------------------------------------------------------------------------------|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365              | <input type="checkbox"/> Tordon & Distinct – Tank Mix                        |
| <input checked="" type="checkbox"/> Chaparral – Dow #62719-597   | Dow AgroSciences #62719-6 / BASF #7969-150                                   |
| <input type="checkbox"/> Curtail – Dow AgroSciences #62719-48    | <input type="checkbox"/> Metcel & Milestone – Tank Mix                       |
| <input type="checkbox"/> EscortXP – DuPont #352-439              | Agsurf #352-439-8558 / Dow AgroSciences #62719-519                           |
| <input type="checkbox"/> Habitat – BASF #241-426                 | <input type="checkbox"/> Escort XP & Milestone – Tank Mix                    |
| <input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558        | DuPont #352-439 / Dow AgroSciences #62719-519                                |
| <input type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____                                         |
| <input type="checkbox"/> Plateau – BASF #241-365                 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Hi-light 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654              | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac 4oz/acre</u>   |
| <input type="checkbox"/> Tordon & Telar XP                       |                                                                              |
| <input type="checkbox"/> Transline – Dow AgroSciences #62719-259 |                                                                              |
| <input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6  |                                                                              |

**Equipment Used:** ☒ ATV GPA 98 ☒ Handgun ☐ Broadcast  
☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 Gallons Sprayed: 3 Amt. of Chemical Applied: 0.09 Acres Treated: 0.03

**Vegetation Treated:**

- |                                                  |                                                  |                                                    |                                            |
|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Absinthe wormwood       | <input type="checkbox"/> Dalmatian toadflax      | <input type="checkbox"/> Orange hawkweed           | <input type="checkbox"/> Spotted knapweed  |
| <input type="checkbox"/> Baby's breathe          | <input type="checkbox"/> Dame's rocket           | <input type="checkbox"/> Oxeye daisy               | <input type="checkbox"/> Sulfur cinquefoil |
| <input type="checkbox"/> Blueweed                | <input type="checkbox"/> Hoary alyssum           | <input type="checkbox"/> Perennial pepperweed      | <input type="checkbox"/> Tall buttercup    |
| <input checked="" type="checkbox"/> Bull thistle | <input checked="" type="checkbox"/> Houndstongue | <input checked="" type="checkbox"/> Poison hemlock | <input type="checkbox"/> Tansy ragwort     |
| <input type="checkbox"/> Canada thistle          | <input type="checkbox"/> Italian bugloss         | <input type="checkbox"/> Purple loosestrife        | <input type="checkbox"/> Whitetop          |
| <input type="checkbox"/> Cheatgrass              | <input type="checkbox"/> Leafy spurge            | <input type="checkbox"/> Russian knapweed          | <input type="checkbox"/> Yellow toadflax   |
| <input type="checkbox"/> Common tansy            | <input type="checkbox"/> Meadow hawkweed         | <input type="checkbox"/> Russian olive             | <input type="checkbox"/> Yellowflag iris   |
| <input type="checkbox"/> Common teasel           | <input checked="" type="checkbox"/> Musk thistle | <input type="checkbox"/> Saltcedar                 | <input type="checkbox"/> Other: _          |

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

Middle section of Anderson

**Location #2 (Site specific description):**

**COMMENTS:**

Continued transecting from the south towards the north.  
Transects from west to east fences  
Monitored Dalmatian toadflax  
Found bull thistle (pre flower, flower, post flower), teasel (post flower), houndstongue (rosette), musk thistle (senescing), and poison hemlock (post flower)

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/08/16 **Time (start/stop):** 2:00p - 5:00p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☐ A. Crockett

☒ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 1.5 MPH, direction from W Temp.: 81 °F Humidity: 32 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 95 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 **Gallons Sprayed:** 10 **Amt. of Chemical Applied:** 0.3 **Acres Treated:** 0.1

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☐ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☐ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

Middle section of Anderson working east to west

**Location #2 (Site specific description):**

**COMMENTS:**

Hounds was basal rosette, senescing

Thistles was flowering, post flowering, senescing

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/09/16 **Time (start/stop):** 8:00a - 4:00p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☐ A. Crockett

☒ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 0 MPH, direction from \_\_\_ Temp.: 60 °F Humidity: 61 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 95 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3oz/ac **Gallons Sprayed:** 10.5 **Amt. of Chemical Applied:** 0.33oz **Acres Treated:** 0.11ac

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☒ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

Just south of gate working east to west

**Location #2 (Site specific description):**

**COMMENTS:**

Hounds was rosette, senescing

Bull thist was flowering

Musk thist was flowering, senescing

Knapweed was flowering

Teasel was post flower and senescing

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/09/16 **Time (start/stop):** 8:00a - 4:00p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☒ J. Zarate

☐ C. Howard ☐ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 0 MPH, direction from      Temp.: 60 °F Humidity: 61 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 86 ☒ Handgun ☐ Broadcast

☐ Backpack GPA      ☐ Mechanical     

**Chem. Rate:** 3oz/ac **Gallons Sprayed:** 8.25 **Amt. of Chemical Applied:** 0.29oz **Acres Treated:** 0.1ac

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☐ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☐ Bull thistle

☐ Houndstongue

☐ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☐ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other:     

**Plant Phenology & Stage:** ☐ Basal Rosette ☒ Pre-Flowering ☐ Flowering ☒ Post-Flowering  
☐ Senescing ☐ Senesced

**Location #1 (Site specific description):**

Central Anderson WPA

**Location #2 (Site specific description):**

**COMMENTS:**

Thunder and lightning at 8:30am to the west. Waited out storm before continuing to spray and monitor.

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/09/16 **Time (start/stop):** 8:00a - 4:00p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate  
☐ C. Howard ☒ A. Crockett  
☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 0 MPH, direction from      Temp.: 60 °F Humidity: 61 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

- |                                                                  |                                                                              |
|------------------------------------------------------------------|------------------------------------------------------------------------------|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365              | <input type="checkbox"/> Tordon & Distinct – Tank Mix                        |
| <input checked="" type="checkbox"/> Chaparral – Dow #62719-597   | Dow AgroSciences #62719-6 / BASF #7969-150                                   |
| <input type="checkbox"/> Curtail – Dow AgroSciences #62719-48    | <input type="checkbox"/> Metcel & Milestone – Tank Mix                       |
| <input type="checkbox"/> EscortXP – DuPont #352-439              | Agsurf #352-439-8558 / Dow AgroSciences #62719-519                           |
| <input type="checkbox"/> Habitat – BASF #241-426                 | <input type="checkbox"/> Escort XP & Milestone – Tank Mix                    |
| <input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558        | DuPont #352-439 / Dow AgroSciences #62719-519                                |
| <input type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____                                         |
| <input type="checkbox"/> Plateau – BASF #241-365                 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Hi-light 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654              | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac 4oz/acre</u>   |
| <input type="checkbox"/> Tordon & Telar XP                       |                                                                              |
| <input type="checkbox"/> Transline – Dow AgroSciences #62719-259 |                                                                              |
| <input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6  |                                                                              |

**Equipment Used:** ☒ ATV GPA 98 ☒ Handgun ☐ Broadcast  
☐ Backpack GPA      ☐ Mechanical     

**Chem. Rate:** 3oz/ac **Gallons Sprayed:** 4 **Amt. of Chemical Applied:** 0.1oz **Acres Treated:** 0.04ac

**Vegetation Treated:**

- |                                                   |                                                  |                                               |                                                      |
|---------------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> Absinthe wormwood        | <input type="checkbox"/> Dalmatian toadflax      | <input type="checkbox"/> Orange hawkweed      | <input checked="" type="checkbox"/> Spotted knapweed |
| <input type="checkbox"/> Baby's breathe           | <input type="checkbox"/> Dame's rocket           | <input type="checkbox"/> Oxeye daisy          | <input type="checkbox"/> Sulfur cinquefoil           |
| <input type="checkbox"/> Blueweed                 | <input type="checkbox"/> Hoary alyssum           | <input type="checkbox"/> Perennial pepperweed | <input type="checkbox"/> Tall buttercup              |
| <input checked="" type="checkbox"/> Bull thistle  | <input checked="" type="checkbox"/> Houndstongue | <input type="checkbox"/> Poison hemlock       | <input type="checkbox"/> Tansy ragwort               |
| <input type="checkbox"/> Canada thistle           | <input type="checkbox"/> Italian bugloss         | <input type="checkbox"/> Purple loosestrife   | <input type="checkbox"/> Whitetop                    |
| <input type="checkbox"/> Cheatgrass               | <input type="checkbox"/> Leafy spurge            | <input type="checkbox"/> Russian knapweed     | <input type="checkbox"/> Yellow toadflax             |
| <input type="checkbox"/> Common tansy             | <input type="checkbox"/> Meadow hawkweed         | <input type="checkbox"/> Russian olive        | <input type="checkbox"/> Yellowflag iris             |
| <input checked="" type="checkbox"/> Common teasel | <input checked="" type="checkbox"/> Musk thistle | <input type="checkbox"/> Saltcedar            | <input type="checkbox"/> Other: <u>  </u>            |

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**  
Middle of WPA

**Location #2 (Site specific description):**

## COMMENTS:

Continued transecting towards the North  
Monitored Dalmatian toadflax  
Bull was pre flower to post flower  
Teasel was post flower/senescing  
Hounds was basal, musk was senescing, knap was flower  
Had to wait out lightning storm in the morning for 2 hrs

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/10/16 **Time (start/stop):** 8:00a - 4:30p

**Location:** (NWR or WPA) Anderson

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☒ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 2 MPH, direction from S Temp.: 55 °F Humidity: 65 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 98 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 **Gallons Sprayed:** 12 **Amt. of Chemical Applied:** 0.36 **Acres Treated:** 0.12

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☒ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☒ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☒ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

North and east side (ponds)

**Location #2 (Site specific description):**

**COMMENTS:**

Continued transecting towards the north. Monitored Dalmatian toad

Bull was pre, flower, and post. Teasel was post and senescing. Hounds was basal and senesced. Oxeye was flowering and senesced. Hemlock was post flower. Knapweed was flowering and musk was senescing.

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/10/16 **Time (start/stop):** 8:00a - 4:30p

**Location:** (NWR or WPA) Anderson WPA

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☐ A. Crockett

☒ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 2 MPH, direction from S Temp.: 55 °F Humidity: 65 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 95 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 Gallons Sprayed: 20 Amt. of Chemical Applied: 0.6 Acres Treated: 0.2

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☒ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☒ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☐ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

North side, just south of pond, then up the east side and north side of pond

**Location #2 (Site specific description):**

**COMMENTS:**

Bull – flowering

Teasel – rosette, senescing

Hounds – rosette, senescing

Musk – senescing, senesced

Hemlock – senescing

Knapweed - flowering

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/11/16 **Time (start/stop):** 12:00p – 3:00p

**Location:** (NWR or WPA) Anderson WPA

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate  
☐ C. Howard ☒ A. Crockett  
☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 0.5 MPH, direction from S Temp.: 53 °F Humidity: 81 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

- |                                                                  |                                                                            |
|------------------------------------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365              | <input type="checkbox"/> Tordon & Distinct – Tank Mix                      |
| <input checked="" type="checkbox"/> Chaparral – Dow #62719-597   | Dow AgroSciences #62719-6 / BASF #7969-150                                 |
| <input type="checkbox"/> Curtail – Dow AgroSciences #62719-48    | <input type="checkbox"/> Metcel & Milestone – Tank Mix                     |
| <input type="checkbox"/> EscortXP – DuPont #352-439              | Agsurf #352-439-8558 / Dow AgroSciences #62719-519                         |
| <input type="checkbox"/> Habitat – BASF #241-426                 | <input type="checkbox"/> Escort XP & Milestone – Tank Mix                  |
| <input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558        | DuPont #352-439 / Dow AgroSciences #62719-519                              |
| <input type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____                                       |
| <input type="checkbox"/> Plateau – BASF #241-365                 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Hi-light ½ oz/ac</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654              | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac 4oz/acre</u> |
| <input type="checkbox"/> Tordon & Telar XP                       |                                                                            |
| <input type="checkbox"/> Transline – Dow AgroSciences #62719-259 |                                                                            |
| <input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6  |                                                                            |

**Equipment Used:** ☒ ATV GPA 13 ☐ Handgun ☒ Broadcast  
☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 Gallons Sprayed: 25 Amt. of Chemical Applied: 5.7 oz Acres Treated: 1.9 ac

**Vegetation Treated:**

- |                                                   |                                                  |                                                    |                                                      |
|---------------------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> Absinthe wormwood        | <input type="checkbox"/> Dalmatian toadflax      | <input type="checkbox"/> Orange hawkweed           | <input checked="" type="checkbox"/> Spotted knapweed |
| <input type="checkbox"/> Baby's breathe           | <input type="checkbox"/> Dame's rocket           | <input type="checkbox"/> Oxeye daisy               | <input type="checkbox"/> Sulfur cinquefoil           |
| <input type="checkbox"/> Blueweed                 | <input type="checkbox"/> Hoary alyssum           | <input type="checkbox"/> Perennial pepperweed      | <input type="checkbox"/> Tall buttercup              |
| <input checked="" type="checkbox"/> Bull thistle  | <input checked="" type="checkbox"/> Houndstongue | <input checked="" type="checkbox"/> Poison hemlock | <input type="checkbox"/> Tansy ragwort               |
| <input type="checkbox"/> Canada thistle           | <input type="checkbox"/> Italian bugloss         | <input type="checkbox"/> Purple loosestrife        | <input type="checkbox"/> Whitetop                    |
| <input type="checkbox"/> Cheatgrass               | <input type="checkbox"/> Leafy spurge            | <input type="checkbox"/> Russian knapweed          | <input type="checkbox"/> Yellow toadflax             |
| <input type="checkbox"/> Common tansy             | <input type="checkbox"/> Meadow hawkweed         | <input type="checkbox"/> Russian olive             | <input type="checkbox"/> Yellowflag iris             |
| <input checked="" type="checkbox"/> Common teasel | <input checked="" type="checkbox"/> Musk thistle | <input type="checkbox"/> Saltcedar                 | <input type="checkbox"/> Other: _                    |

**Plant Phenology & Stage:** ☒ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

North end

**Location #2 (Site specific description):**

**COMMENTS:**

Switched to boom for afternoon. Did not map in management. Did point to point based on monitoring data. Lots of weeds.



# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 8/11/16 **Time (start/stop):** 8:00a - 11:30a

**Location:** (NWR or WPA) Anderson WPA

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☒ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 0.5 MPH, direction from S Temp.: 53 °F Humidity: 81 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

- ☐ Aquaneat – NuFarm #228-365
- ☒ Chaparral – Dow #62719-597
- ☐ Curtail – Dow AgroSciences #62719-48
- ☐ EscortXP – DuPont #352-439
- ☐ Habitat – BASF #241-426
- ☐ Metcel VMF– Agsurf #352-439-8558
- ☐ Milestone – Dow AgroSciences #62719-519
- ☐ Plateau – BASF #241-365
- ☐ Telar XP – DuPont #352-654
- ☐ Tordon & Telar XP
- ☐ Transline – Dow AgroSciences #62719-259
- ☐ Tordon 22K – Dow AgroSciences #62719-6

- ☐ Tordon & Distinct – Tank Mix  
Dow AgroSciences #62719-6 / BASF #7969-150
- ☐ Metcel & Milestone – Tank Mix  
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
- ☐ Escort XP & Milestone – Tank Mix  
DuPont #352-439 / Dow AgroSciences #62719-519
- ☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light ½ oz/gal

☒ Adjuvant Used: Syltac 4oz/acre

**Equipment Used:** ☒ ATV GPA 98 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 oz **Gallons Sprayed:** 6 **Amt. of Chemical Applied:** 0.18 oz **Acres Treated:** 0.06 ac

**Vegetation Treated:**

- |                                                   |                                                  |                                                    |                                                      |
|---------------------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> Absinthe wormwood        | <input type="checkbox"/> Dalmatian toadflax      | <input type="checkbox"/> Orange hawkweed           | <input checked="" type="checkbox"/> Spotted knapweed |
| <input type="checkbox"/> Baby's breathe           | <input type="checkbox"/> Dame's rocket           | <input checked="" type="checkbox"/> Oxeye daisy    | <input type="checkbox"/> Sulfur cinquefoil           |
| <input type="checkbox"/> Blueweed                 | <input type="checkbox"/> Hoary alyssum           | <input type="checkbox"/> Perennial pepperweed      | <input type="checkbox"/> Tall buttercup              |
| <input checked="" type="checkbox"/> Bull thistle  | <input checked="" type="checkbox"/> Houndstongue | <input checked="" type="checkbox"/> Poison hemlock | <input type="checkbox"/> Tansy ragwort               |
| <input type="checkbox"/> Canada thistle           | <input type="checkbox"/> Italian bugloss         | <input type="checkbox"/> Purple loosestrife        | <input type="checkbox"/> Whitetop                    |
| <input type="checkbox"/> Cheatgrass               | <input type="checkbox"/> Leafy spurge            | <input type="checkbox"/> Russian knapweed          | <input type="checkbox"/> Yellow toadflax             |
| <input type="checkbox"/> Common tansy             | <input type="checkbox"/> Meadow hawkweed         | <input type="checkbox"/> Russian olive             | <input type="checkbox"/> Yellowflag iris             |
| <input checked="" type="checkbox"/> Common teasel | <input checked="" type="checkbox"/> Musk thistle | <input type="checkbox"/> Saltcedar                 | <input type="checkbox"/> Other: _____                |

**Plant Phenology & Stage:** ☒ Basal Rosette ☒ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

North end

**Location #2 (Site specific description):**

**COMMENTS:**

Continued transects. Filled in gap. Monitored Dalmatian Toadflax, switched to boom for afternoon to try and finish up.

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ *Jessica Zarate 101891-15* (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/11/16 **Time (start/stop):** 11:30p- 3:00p

**Location:** (NWR or WPA) Anderson WPA

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☐ A. Crockett

☒ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 0.5 MPH, direction from S Temp.: 53 °F Humidity: 81 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 15 ☐ Handgun ☒ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 **Gallons Sprayed:** 40 **Amt. of Chemical Applied:** 8.0 **Acres Treated:** 2.6

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☒ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☒ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

North end in corner

**Location #2 (Site specific description):**

**COMMENTS:**

Bull – flowering, post flower

Teasel – senescing, rosette

Hounds – rosette

Musk – senescing

Hemlock – senescing

Knapweed – post flower

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/11/16 **Time (start/stop):** 8:00a- 11:30a

**Location:** (NWR or WPA) Anderson WPA

**County:** Lake

**Applicators/Operator:** ☐ J. Zarate

☐ C. Howard ☐ A. Crockett

☒ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 0.5 MPH, direction from S Temp.: 53 °F Humidity: 81 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light ½ oz/gal

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 95 ☒ Handgun ☐ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 Gallons Sprayed: 5 Amt. of Chemical Applied: .15 oz Acres Treated: .05 ac

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☐ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☒ Poison hemlock

☐ Tansy ragwort

☐ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☒ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☒ Basal Rosette ☐ Pre-Flowering ☒ Flowering ☒ Post-Flowering  
☒ Senescing ☐ Senesced

**Location #1 (Site specific description):**

North end, W of pond

**Location #2 (Site specific description):**

**COMMENTS:**

Bull – flowering, post flower

Teasel – senescing, rosette

Hounds – rosette

Musk – senescing

Hemlock – senescing

Knapweed – post flower

# DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*  
4567 Wildfowl Lane, Stevensville, MT 59870  
406-544-2552

**Licenses Used:** ☒ Jessica Zarate 101891-15 (Ag Plant Pest, Aquatic and Regulatory Weed)  
08000125 (EPA Certification in Indian Country)

**Date:** 08/11/16 **Time (start/stop):** 12:00p- 3:00p

**Location:** (NWR or WPA) Anderson WPA

**County:** Lake

**Applicators/Operator:** ☒ J. Zarate

☐ C. Howard ☐ A. Crockett

☐ A. Kaiser ☐ D. Miller

**Weather Conditions:** Wind: 0.5 MPH, direction from S Temp.: 53 °F Humidity: 81 %

**All products are diluted with water. Trade Name-Manufacturer, EPA Registration #:**

☐ Aquaneat – NuFarm #228-365

☒ Chaparral – Dow #62719-597

☐ Curtail – Dow AgroSciences #62719-48

☐ EscortXP – DuPont #352-439

☐ Habitat – BASF #241-426

☐ Metcel VMF– Agsurf #352-439-8558

☐ Milestone – Dow AgroSciences #62719-519

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Tordon & Telar XP

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

☐ Tordon & Distinct – Tank Mix

Dow AgroSciences #62719-6 / BASF #7969-150

☐ Metcel & Milestone – Tank Mix

Agsurf #352-439-8558 / Dow AgroSciences #62719-519

☐ Escort XP & Milestone – Tank Mix

DuPont #352-439 / Dow AgroSciences #62719-519

☐ Other \_\_\_\_\_

☒ Dye Used/Rate: Hi-light 3oz/ac

☒ Adjuvant Used: Syl-tac 4oz/acre

**Equipment Used:** ☒ ATV GPA 10 ☐ Handgun ☒ Broadcast

☐ Backpack GPA \_\_\_\_\_ ☐ Mechanical \_\_\_\_\_

**Chem. Rate:** 3 **Gallons Sprayed:** 30 **Amt. of Chemical Applied:** 9.0 **Acres Treated:** 3.0

**Vegetation Treated:**

☐ Absinthe wormwood

☐ Dalmatian toadflax

☐ Orange hawkweed

☒ Spotted knapweed

☐ Baby's breathe

☐ Dame's rocket

☐ Oxeye daisy

☒ Sulfur cinquefoil

☐ Blueweed

☐ Hoary alyssum

☐ Perennial pepperweed

☐ Tall buttercup

☒ Bull thistle

☒ Houndstongue

☒ Poison hemlock

☐ Tansy ragwort

☒ Canada thistle

☐ Italian bugloss

☐ Purple loosestrife

☐ Whitetop

☐ Cheatgrass

☐ Leafy spurge

☐ Russian knapweed

☐ Yellow toadflax

☐ Common tansy

☐ Meadow hawkweed

☐ Russian olive

☐ Yellowflag iris

☒ Common teasel

☒ Musk thistle

☐ Saltcedar

☐ Other: \_

**Plant Phenology & Stage:** ☐ Basal Rosette ☐ Pre-Flowering ☐ Flowering ☐ Post-Flowering  
☐ Senescing ☐ Senesced

**Location #1 (Site specific description):**

North west corner of site

**Location #2 (Site specific description):**

**COMMENTS:**

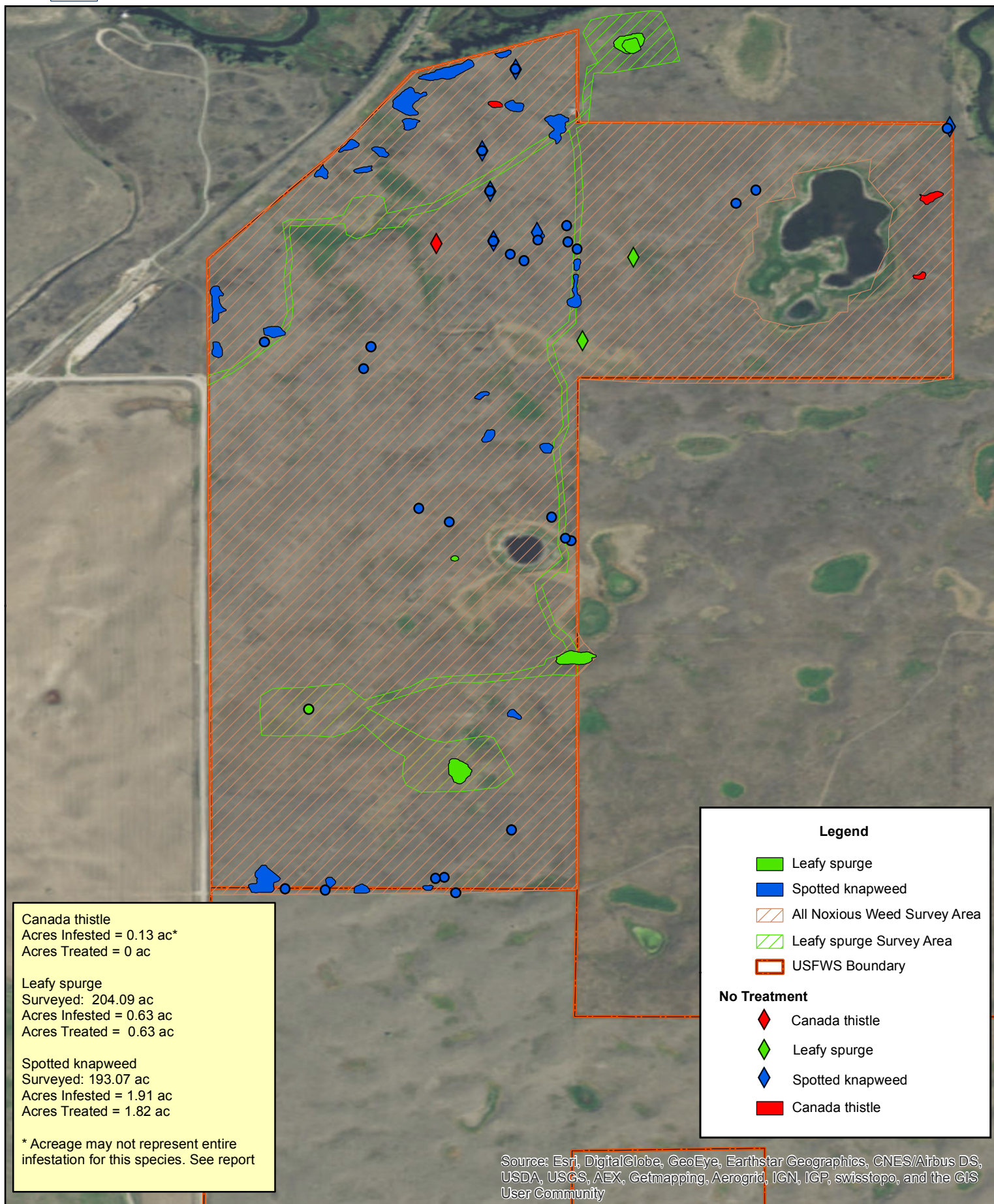
Canada thistle, St. Johnswort and Sulfur widespread and not included in mapping but treated incidentally with other species



U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Anderson WPA - 2016 Survey Acres Infested and Treated



0 0.1 0.2 0.4 Miles

Reference image from ESRI ArcMap Basemap Imagery

1 of 7 Maps





U.S. Fish & Wildlife Service

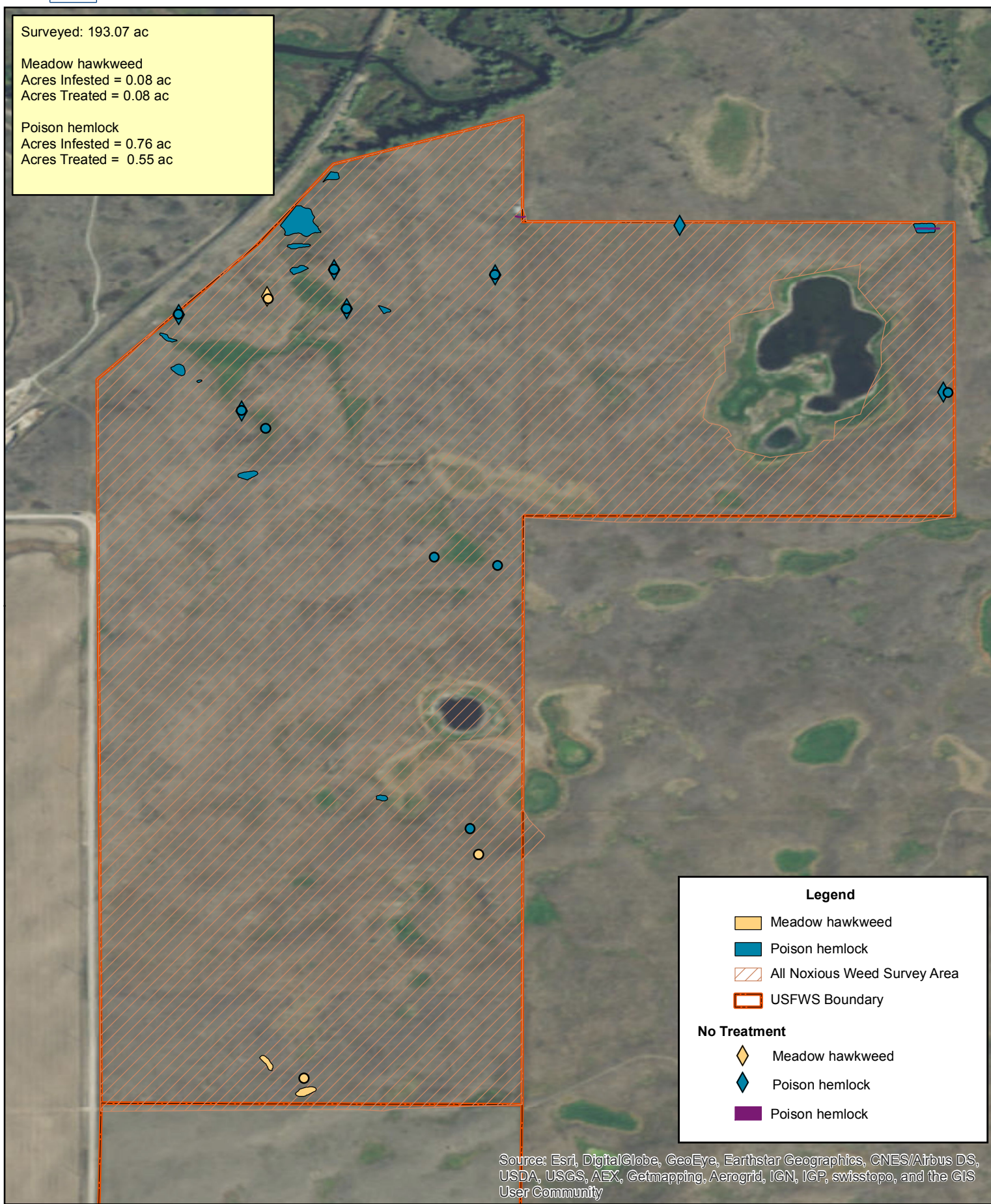
MOYOCO Invasive Species Strike Team

Anderson WPA - 2016 Survey Acres Infested and Treated

Surveyed: 193.07 ac

Meadow hawkweed  
Acres Infested = 0.08 ac  
Acres Treated = 0.08 ac

Poison hemlock  
Acres Infested = 0.76 ac  
Acres Treated = 0.55 ac



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



0 0.1 0.2 0.4 Miles

Reference image from ESRI ArcMap Basemap Imagery

2 of 7 Maps

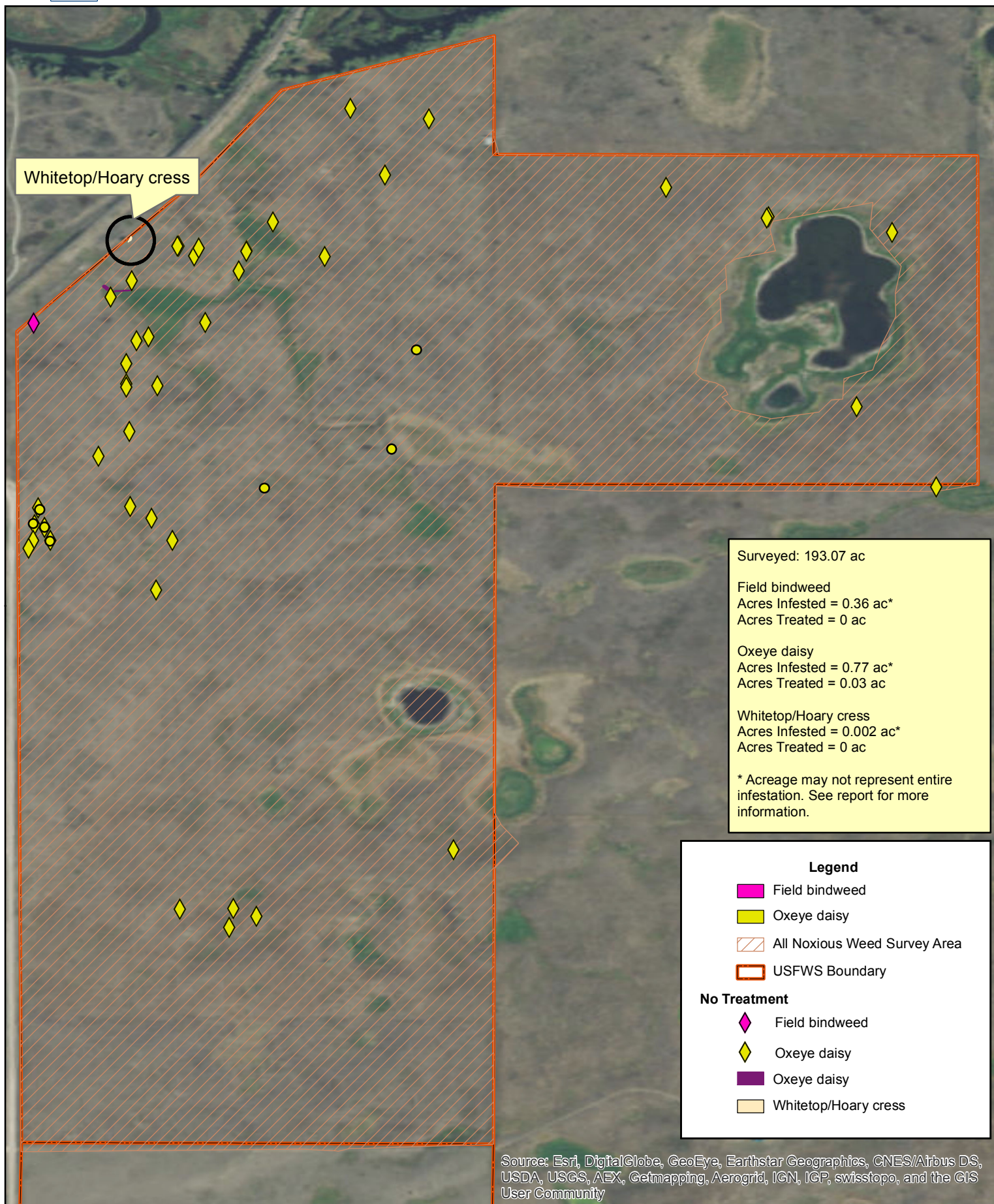




U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Anderson WPA - 2016 Survey Acres Infested and Treated



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



0 0.1 0.2 0.4 Miles

Reference image from ESRI ArcMap Basemap Imagery

3 of 7 Maps

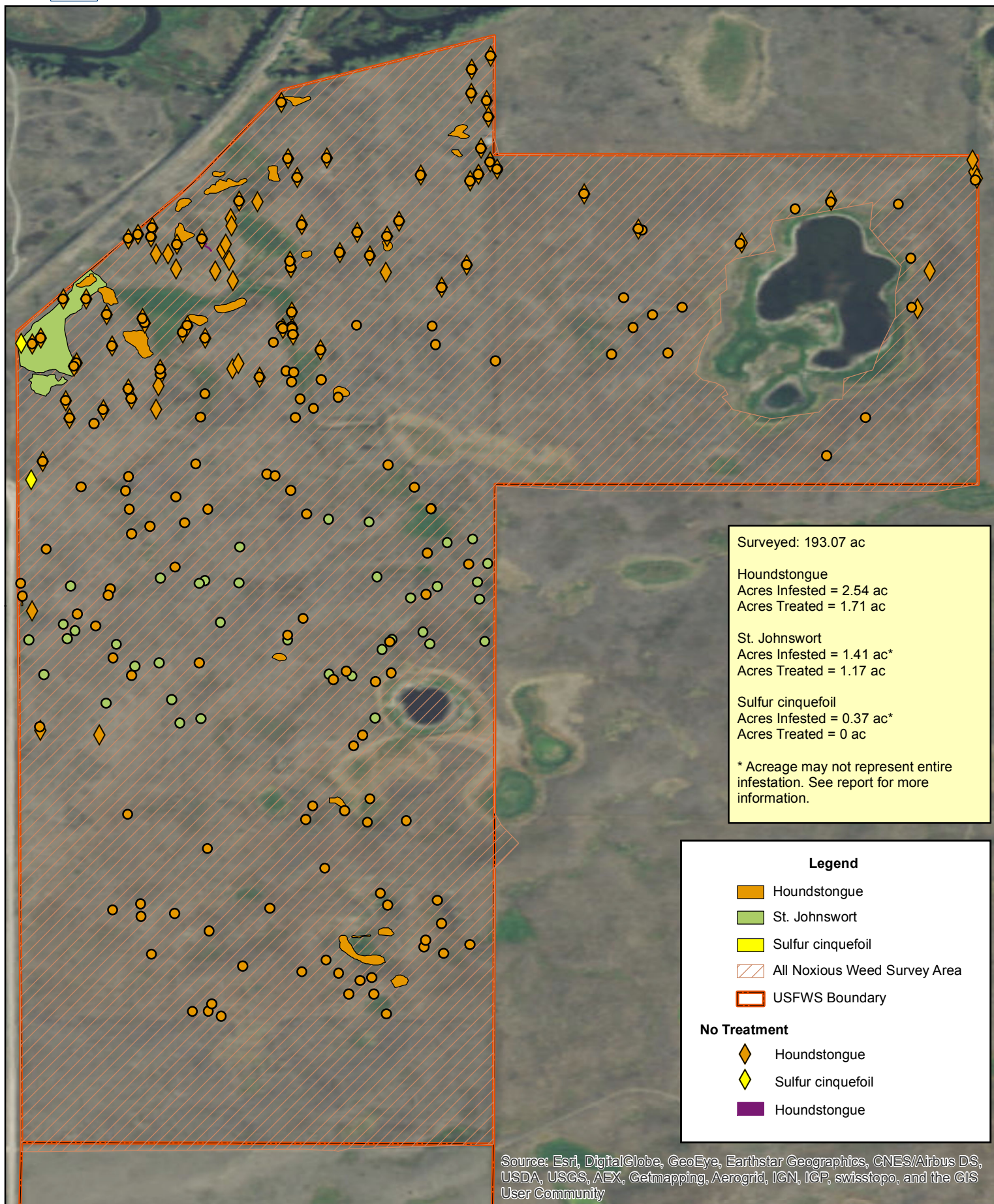




U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Anderson WPA - 2016 Survey Acres Infested and Treated



0 0.1 0.2 0.4 Miles

Reference image from ESRI ArcMap Basemap Imagery

4 of 7 Maps

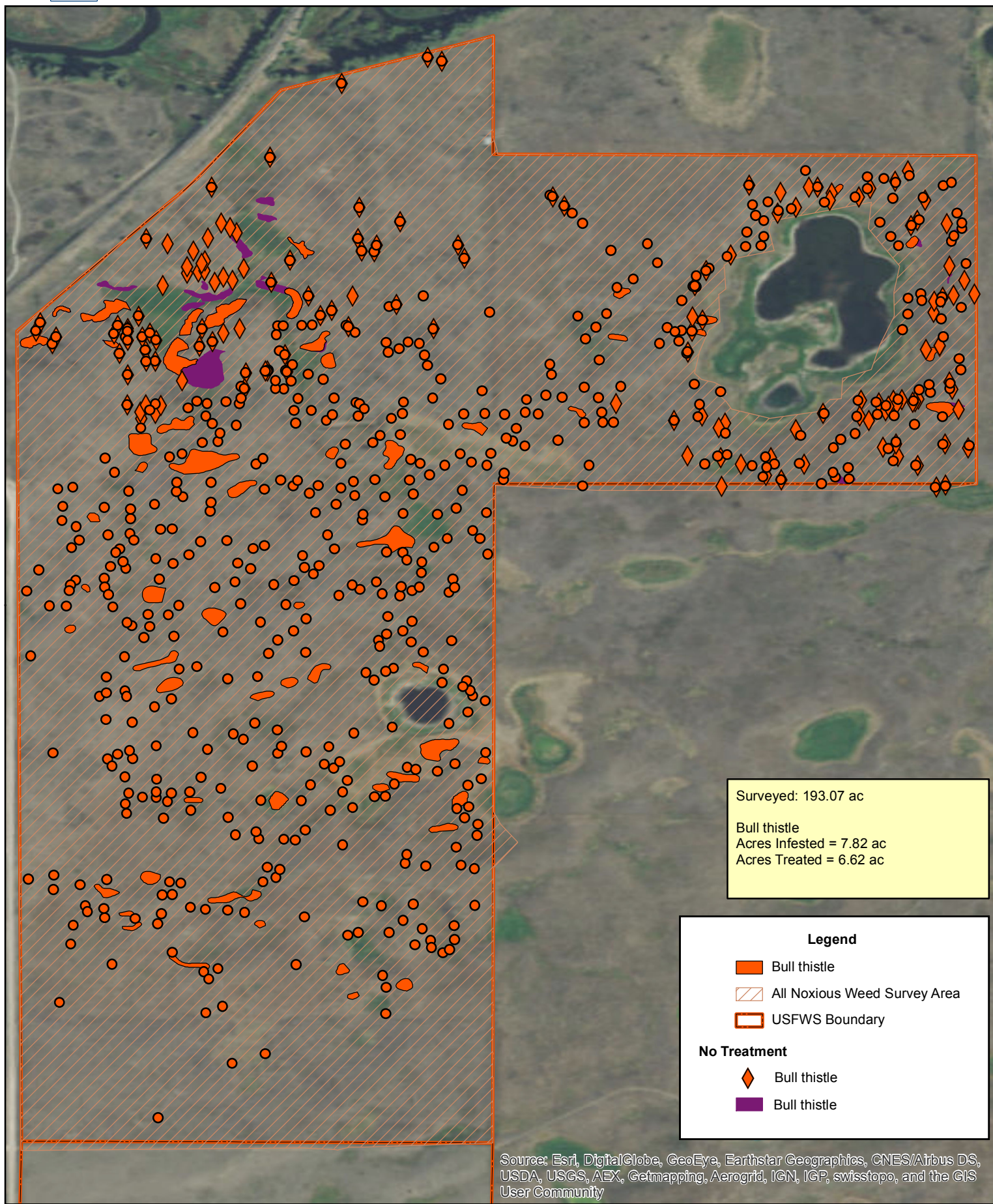




U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Anderson WPA - 2016 Survey Acres Infested and Treated



Surveyed: 193.07 ac

Bull thistle  
Acres Infested = 7.82 ac  
Acres Treated = 6.62 ac

**Legend**

- Bull thistle
- All Noxious Weed Survey Area
- USFWS Boundary

**No Treatment**

- Bull thistle
- Bull thistle

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



0 0.1 0.2 0.4 Miles

Reference image from ESRI ArcMap Basemap Imagery

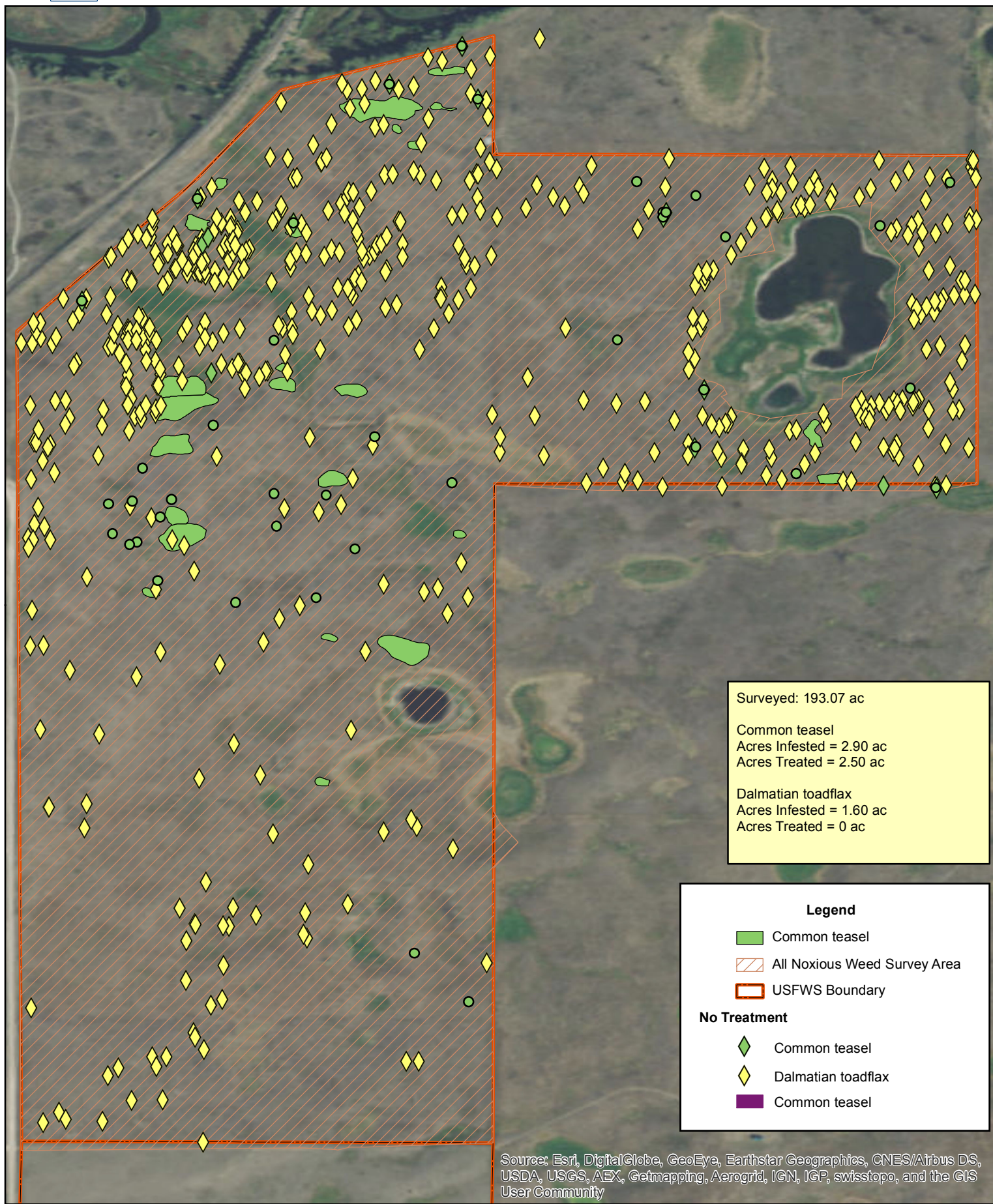




U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Anderson WPA - 2016 Survey Acres Infested and Treated



0 0.1 0.2 0.4 Miles

Reference image from ESRI ArcMap Basemap Imagery

6 of 7 Maps

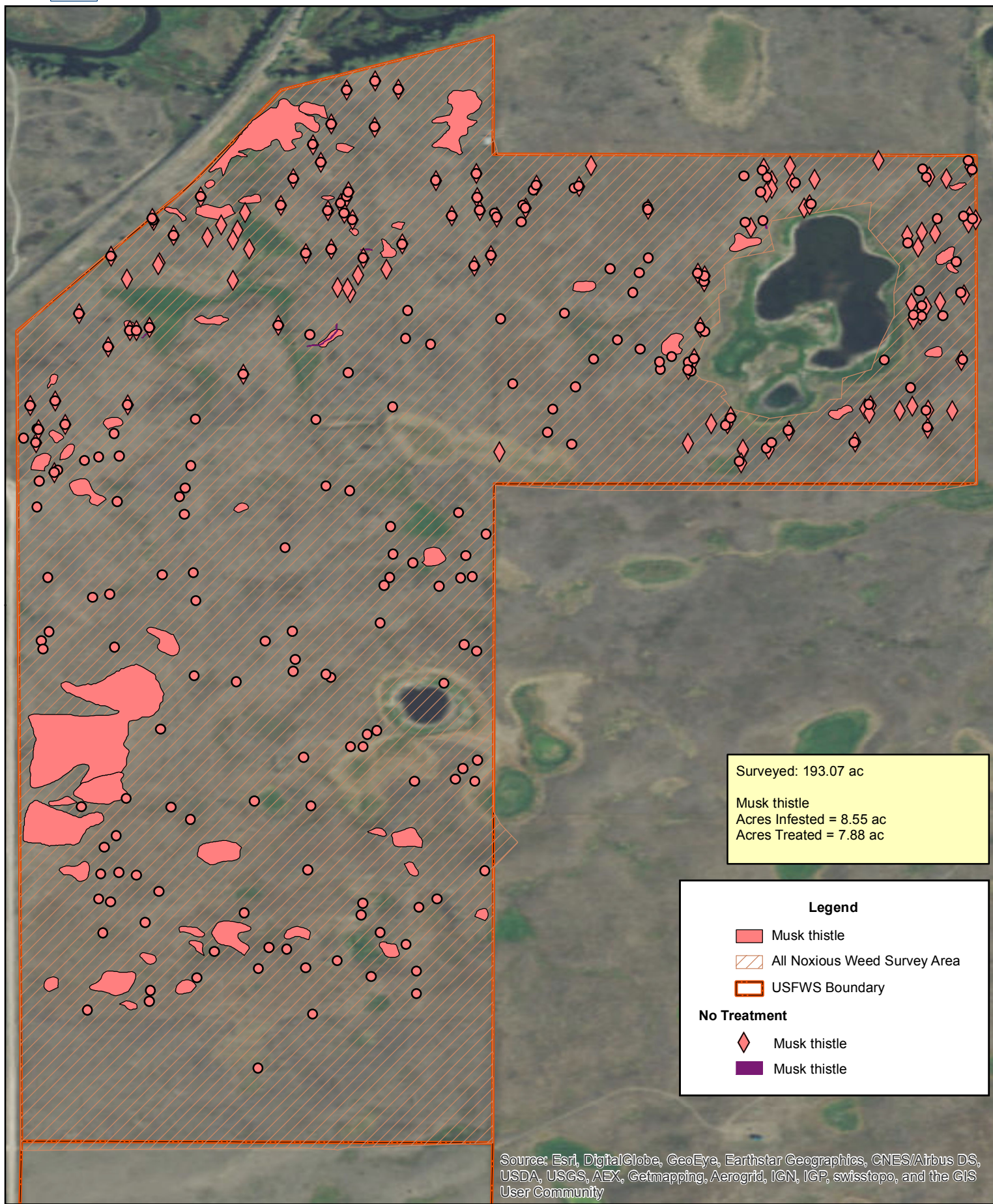




U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Anderson WPA - 2016 Survey Acres Infested and Treated



0 0.1 0.2 0.4 Miles

Reference image from ESRI ArcMap Basemap Imagery

7 of 7 Maps