

Benton Lake Wetland Management District

Arod Lake WPA, Big Sag WPA, Blackfoot WPA, Jarina WPA, Kleinschmidt Lake WPA, Savik WPA, Schrammeck Lake WPA, and Upsata WPA

Benton Lake and Lee Metcalf ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Survey Acres Infested ²	Acres Treated ³
Bull thistle	0.00	0.06	0.06
Common tansy	32.02	0.00	0.00
Hoary alyssum	1,210.04	0.89	0.92
Houndstongue	1,282.21	1.42	0.52
Leafy spurge	261.05	3.2	4.00
Musk thistle	780.53	2.84	2.84
Oxeye daisy	486.66	0.86	0.90
Perennial pepperweed	52.73	0.699	0.447
Russian knapweed	289.50	3.303	3.516
Spotted knapweed	3,104.90	112.54	116.36
St. Johnswort	371.95	0.00	0.00
Sulfur cinquefoil	371.95	0.03	0.02
Whiteweed/Hoary cress	187.22	4.46	4.46
Yellow toadflax	1,476.67	4.84	4.93
District Totals	4402.18*	137.76	141.59
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ The area or subset of infested area that has received some form of treatment as measured by GPS feature. *Survey areas that were searched for multiple species were only counted once in the district total. More information on survey areas are included in the individual project reports.			

Summary

- ISST performed management and monitoring surveys covering a combined total of over 11,000 acres within the Benton Lake Wetland Management District.
- Leafy spurge and spotted knapweed were both monitored and treated over the course of three visits to Jarina WPA, with the goal to eradicate the species from the site.
- Schrammeck Lake WPA herbicide treatments of whiteweed/hoary cress in 2014 were highly effective. Most populations sprayed in 2014 had a tremendous reduction in size and/or density.
- Monitoring of musk thistle treatments at Pumpphouse Unit proves chemical treatments in 2014 were highly effective for burn down and prevention of seed dispersal.
- Significantly less patches of oxeye daisy were detected in 2015 than in previous years on Blackfoot WPA.
- At Blackfoot WPA, all historic common tansy areas were searched and no plants were found onsite this season.

- Houndstongue treatments at Big Sag WPA are proving highly effective.

Strike Team Expectation and Accomplishment Checklist

Arrival Interview

Station: Benton Lake WMD

Unit	Species	Location	Inventory/Monitor	Treat	Chemical (ref or isst)
Arod Lakes WPA	Perennial Pepperweed	70ac to survey	Point to point treatment, 30m buffer around all historic and newly found infestations.	Chemical	Escort XP
Arod Lakes WPA	Russian Knapweed	220ac to survey	Survey adjacent to known infestation as done in 2014	Chemical Mechanical	Milestone
Big Sag WPA	Houndstongue	38ac to survey	Visit and treat historic locations	Chemical Mechanical	Escort XP
Furnell WPA	Spotted knapweed	2.33ac infested. 1995ac for survey.	Treat known locations from 2015, survey rest of area after July 15	Chemical	Milestone
Brumwell WPA	Spotted knapweed		Survey entire area after July 15, pay extra attention to last known knapweed infestation		
Jarina WPA	Leafy spurge	.04ac of infestation, 1.2ac to survey	Treat known location as in 2014 and survey immediately adjacent to that location	Chemical	Perspective Plateau
Jarina WPA	Spotted knapweed	12.15 ac of infestation. 300 ac for survey South of road	Treat known locations point to point similar to 2014. Survey entire area South of the road after July 15th.	Chemical	Milestone
Savik WPA	Musk and Canada Thistle	12 acres infested. 50 acres Surveyed.	Treat known/historic locations East along HWY and South 100 yards of North boundary fence for length of WPA.	Chemical	Milestone
Schrammeck Lake WPA	Dalmation Toadflax		Treat plants checking historic locations as conducted in 2013. Survey as in 2014.	Chemical	Plateau

Schrammeck Lake WPA	Houndstongue	0.85ac infestation	Treat known/historic locatoins as conducted in 2014. foot survey area immediately adjacent to that location.	Chemical Mechanical	EscortXP
Schrammeck Lake WPA	Whitetop/Hoary Cress	2.67 ac infested 120 to survey	Treat previously mapped locations as conducted in 2014. Survey similar to 2014.	Chemical	Escort Xp
Swan River NWR	yellow toadflax,	.41 acres infested	Treat known locations point to point using 2014 survey info . Survey area adjacnt to infestation.	Chemical	Plateau
Swan River NWR	Meadow hawkweed, orange hawkweed	meadow .005 ac infested, Orange 1.52 ac infested	Treat known locations point to point using 2014 survey info . Survey area adjacnt to infestation.	Chemical	Milestone
Swan River NWR	common tansy	.04 ac infested	Treat known locations point to point using 2014 survey info . Survey area adjacnt to infestation.	Chemical	Escort
Swan River NWR	Oxeye daisy	.005 ac infested	Treat known locations point to point using 2014 survey info . Survey area adjacnt to infestation.	Chemical	Milestone
Swan River NWR	sulfur cinquefoil	.23 ac infested	Treat known locations point to point using 2014 survey info . Survey area adjacnt to infestation.	Chemical	Milestone
Swan River NWR	Spotted Knapweed	2.1 acres infested, 106 acres surveyed	Treat known locations point to point using 2014 survey info . Survey area adjacnt to infestation.	Chemical	Milestone

Notes:

Station or Site Manager (or Acting):  Date: 5/12/15

Exit Interview

Unit	Species	Location	Treatment	Completed
Arod Lakes WPA	Perennial Pepperweed	All historic locations	Backpack sprayed with EscortXP, most locations were free of any regrowth at this time, or had very few small plants. Some new infestations were located around the wetlands, they were sprayed and GPS mapped	6/1/15
Arod Lakes WPA	Russian Knapweed	All historic locations	ATV handgun sprayed all plants that were located at historic areas.	
Big Sag WPA	Houndstongue	Visited 2014 survey and treatment area	Used shovels for mgmt., walked to the historic infestations, started on the West end of the WPA and treated all Houndstongue plants found. Worked East toward the water dike built in 2014 to search for any weeds, none were found. Surveyed along the shoreline to the road and worked back, digging houndstongue along the way, toward the truck. ISST collected 2 black garbage bags of garbage from the ditch along the way and 1 bag full of houndstongue seed stalks.	5/27/15
Furnell WPA	Spotted knapweed	Visited all historic locations	Most all sites didn't have any regrowth. All areas had old dead stalk present, but little to no regrowth of basals. Basals that were present were 4-6"	6/3/15
Brumwell WPA	Spotted knapweed			
Jarina WPA	Leafy spurge		Visited on 6/8/15, no actively growing plants present.	
Jarina WPA	Spotted knapweed	6/8/15-visited all historic locations	6/8/15, treated all historic locations, except for the two north unit points. Cattle were currently grazing and ISST member did not feel comfortable disturbing them.	Trmt 1, 6/8/15
Savik WPA	Musk and Canada Thistle	Visited all historic Musk thistle locations	Greg and Kurt visited and treated all musk thistle plants, once done with treated musk, they started at the East most population of Canada thistle and began chemically treating it.	6/9/15
Schrammeck Lake WPA	Dalmation Toadflax			
Schrammeck Lake WPA	Houndstongue	Visited all historic locations	Very few seed stalks found. Most plants were basals. Seed stalks found were bagged and disposed of	6/5/15
Schrammeck Lake WPA	Whitetop/Hoary Cress	Visited all historic locations	Point to point chemical treatment of ALL historic locations within WPA. The areas that are being treated every year are decreasing well. The areas that are typically under water are more dense	6/5/15

f2

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f2

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f2

Swan River NWR	yellow toadflax,		Did not treat, consider Fall trmt with Plateau.	
Swan River NWR	Meadow hawkweed, orange hawkweed		Did not locate any hawkweed plants from 7/20 - 7/21	
Swan River NWR	common tansy	→	- Treated at 3 locations - West side Boundary road had	
Swan River NWR	Oxeye daisy	↗	already been sprayed by someone other than FSST.	
Swan River NWR	sulfur cinquefoil	↗	- FSST mapped all we sprayed and west side road that was sprayed.	
Swan River NWR	Spotted Knapweed	↗		

Concerns with Project: - Lots of garbage was removed from Swan River NWR near the Kiosk and at the campsites on westside.
- maybe put a gate on the road going to the campsites?

Station or Site Manager (or Acting): L. Ige Date: 9/14/15

Benton Lake Wetland Management District

Arod Lake WPA

Benton Lake ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Surveyed Acres Infested ²	Acres Treated ³
Perennial pepperweed	52.73	0.699	0.447
Russian knapweed	289.50	3.303	3.516
Project Site Totals	342.23	4.011	3.972
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ The area or subset of infested area that has received some form of treatment as measured by GPS feature.			

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
June 1, 2015 & July 1, 2015	Early Detection Rapid Response	Perennial pepperweed	3	Point to point chemical treatment of historic populations within the WPA.
June 30, 2015 – July 1, 2015	Refuge Management Project	Russian knapweed	3	Point to point chemical treatment of historic populations within the WPA.
September 9, 2015	Refuge Management Project	Russian knapweed	2	Point to point chemical treatment of historic populations within the WPA.

Coordination and Cooperation

- Scheduling and treatment priorities were developed from proposals and discussions with Jim Lange, WMD Manager.
 - Conducted an arrival and exit interview concerning Russian knapweed and perennial pepperweed treatment.

Prevention and Education

- Goal of management efforts were to reduce infestations and prevent further encroachment of infestations within Arod Lake WPA.
- Perennial pepperweed is easily identified by its waxy leaves with whitish mid-veins. The plant has dense white flower heads in rounded clusters near branch ends. The seedpods are attached by long stalks and the plant grows in dense patches.
- Perennial pepperweed has rhizomatous creeping roots; reproduction is primarily by rhizomes and

root fragments, but also by seed. Although it thrives in most habitats, the ditches, waterways, and seasonally wet areas are optimal habitat for perennial pepperweed.

Early Detection and Rapid Response

- Perennial pepperweed was first detected by the strike team in the southern region of the WPA in 2011. Populations were mapped in 2012 while conducting Russian knapweed priority treatments.
 - In 2012, 0.17 acres were present.
 - In 2013, 0.61 acres were mapped and 0.36 acres were treated.
 - In 2014, ISST located and treated 2.07 acres.

Inventory and Monitoring

- ISST searched 289.50 acres (over the course of two separate visits to the WPA); within the vicinity of historical Russian knapweed infestations and 3.303 acres were infested.
 - 3.303 acres infested calculations is based off survey results from 6/30/2015 – 7/1/2015 & 9/9/2015.
 - Utilized five years of historical data for searching and treating historical sites.
 - Some historical populations were gone yet additional satellite infestations were mapped and treated. New infestation sites had moved across the landscape suggesting seed dispersal.
 - Observed populations of high density Russian knapweed on private land along the fence in some areas.
- ISST searched 52.73 acres in the southern region of the WPA and found 0.699 acres to be infested with perennial pepperweed in 2015.

Management

- ISST treated 3.516 acres of Russian knapweed during 2 visits in 2015.
 - Three ISST members treated Russian knapweed populations near the southern most boundaries of the WPA over two days in June and July. Then, a crew of two re-treated the area in September.
- In 2015, ISST located 0.699 infested acres and treated 0.447 acres of perennial pepperweed. The plants were in the pre-flower growth stage.
 - ISST visited all historical perennial pepperweed sites within the WPA. Most sites were absent of infestation on June 1, 2015; the infested sites were reduced in density.
 - Several new infestations around the wetlands were located, mapped, and chemically treated. These newly found populations were of luxuriant (>60%) density.
 - The WPA wetlands were roughly 100% full in 2015, making 0.252 acres untreatable.
- All ISST activities in the Benton Lakes WMD were conducted point-to-point around historic observations of known weed populations at the request of the WMD Manager. Although this minimizes disturbance to the site, it reduces the ability of the ISST to detect new populations before they become established on the rest of the WPA. It also dramatically limits the scope of weed mapping data for tracking invasive species population size over time and prevents the use of these data for rigorously determining effectiveness or supporting adaptive management strategies. Additional resources and methodologies will be required by refuge staff now to determine or answer these types of questions.

Herbicide Applied

- ISST applied 0.61 ounces of Escort XP for perennial pepperweed treatments
- ISST applied 2.03 ounces of Milestone for Russian knapweed treatments

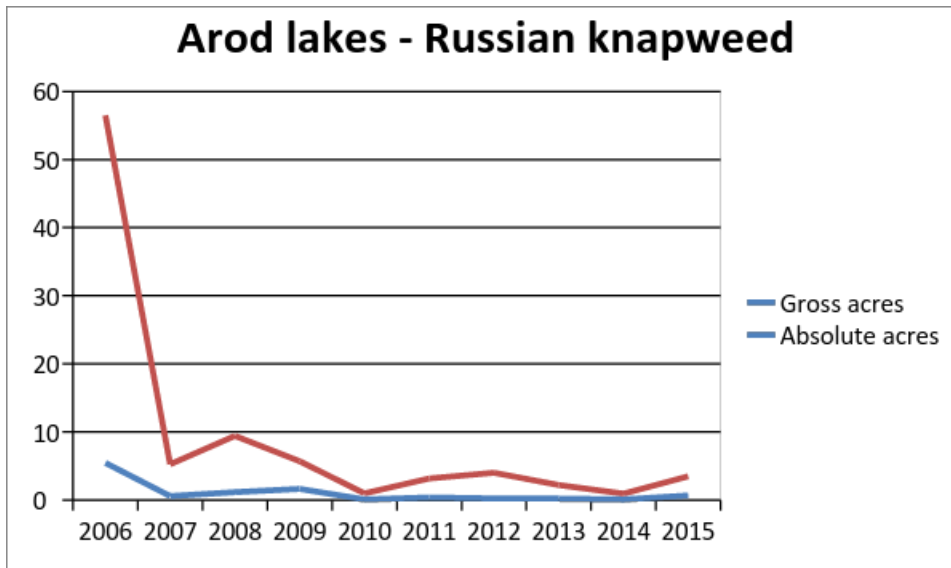
Pre-flowering and senesced Russian knapweed on private land next to Arod WPA. Photo by Levi Morgan.



Recommendations

- For most effective chemical treatments of perennial pepperweed, timing should be made at post-emergence from seedling to flowering stage. With Escort XP, greatest effectiveness is at flower bud and flowering stage. A NPDES permit is needed for treating canal ditch banks and in canal.
- Seedlings can be controlled by hand-pulling, but it does not control established plants because shoots quickly re-sprout from root reserves.
- Mowing will stimulate perennial pepperweed plants to re-sprout, but mowing is helpful for removing accumulated thatch, breaking old stems into small fragments, and helps prevent shading of favorable species.
- Combining mowing or hand pulling with herbicides can be an effective control strategy on this

WPA. To be most effective, ISST recommends mowing or pulling plants at the bolting or flower bud stage and applying herbicides to re-sprouting shoots once they have reached the flower bud stage. If this technique is to be applied, initial treatments will have to be made earlier in the season, preferably in late May or early June.



Compliments of the
MONTANA DEPARTMENT OF AGRICULTURE **DAILY PESTICIDE APPLICATION RECORD**
AGRICULTURAL SCIENCES DIVISION
PO BOX 200201
HELENA, MT 59620-0201
Phone 406-444-3730

BUSINESS U.S. Fish and Wildlife Service	LICENSE# 104342-15
NAME Benton Lake NWR Invasive Species Strike Team	ADDRESS (Refuge or WPA) Arod Lakes WPA
CITY, STATE, ZIP Great Falls, MT 59404	PHONE 406-727-7400 Ext. 213

	APPLICATION #1	APPLICATION #2
Applicator/Operator Name (s)	Levi Morgan	Kurt Schuetz
Date	6-1-15	6-1-15
County	Pondera	Pondera
Time Start/Stop	1100-	1100-
Temperature	75°F	75°F
Relative Humidity	50%	50%
Wind Speed/Direction (from)	6.5 / North	6.5 / North
Pesticide Manufacturer	Dupont	Dupont
Trade Name	Escort	Escort
EPA Reg # or Formulation		
Rate: Product/Diluent Per Acre	1 oz/ac	1oz/ac
Amount of Chemical Applied	0.13 oz	0.010 oz
Equipment Used (atv,backpack,truck,saw)	Backpack #3	Backpack #1
Bio-Control (genus species)	-	-
# released / acre	-	-
Mechanical (mow,hand-pull)	-	-
Plant Phenology & Stage	Leaf on	leaf on
Dominant Pest(s)	Perennial Pepperweed	P. Pepperweed
Equipment Used	Backpack	Backpack
Acres/Area Treated or # of plants	Spot treatment, gps mapped	Spot treatment, gps mapped
GPS Filename		

Location #1 (Site specific description)	COMMENTS/MAP: (any surfactant or dye used, PUP number, concerns with weather prior or post treatment, DETAILS, etc....)
Location #2 (Site specific description)	Shield IVM @ 2 oz / 10 gal

- Visited all historical Pepperweed sites within the WPA. Most sites were absent of infestation in 2015 - 6/1. Sites that were not absent infestation were in the scarce % category.

- Some new infestations were located around wetlands, % cover was luxuriant. New infestations were chemically treated with Backpacks spray equip.

- The WPA was very wet on 6/1

	Start	End	Total
Levi	3	0.5	2.5
Kurt	3	2.75	.25

probably \approx 100% Full

- LOTS of waterfowl on wetlands

BUSINESS U.S. Fish and Wildlife Service	LICENSE# 104342-15
NAME Benton Lake NWR Invasive Species Strike Team	ADDRESS (Refuge or WPA) Arod Lake WPA
CITY, STATE, ZIP Great Falls, MT 59404	PHONE 406-727-7400 Ext. 213

	APPLICATION #1	APPLICATION #2
Applicator/Operator Name (s)	Gary McClure	
Date	6-1-15	
County	Pondera	
Time Start/Stop	11:00 -	
Temperature	75°	
Relative Humidity	50%	
Wind Speed/Direction (from)	6.5 N	
Pesticide Manufacturer	Dupont	
Trade Name	Escort	
EPA Reg # or Formulation		
Rate: Product/Diluent Per Acre	1oz / AC	
Amount of Chemical Applied	0.008 oz	
Equipment Used (atv,backpack,truck,saw)	Backpack #5	
Bio-Control (genus species)		
# released / acre		
Mechanical (mow,hand-pull)		
Plant Phenology & Stage	Creeps on	
Dominant Pest(s)	Parrotail Pepperweed	
Equipment Used	Backpack	
Acres/Area Treated or # of plants	Spot treatment, gps mapped	Spot treatment, gps mapped
GPS Filename		

[illegible]

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 7-1-15 **Time (start/stop):** 7:30 / 11:00 **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) AROD WPA ☐ G. McClure ☒ K. Schuetz
County: Teton ☐ B. Sparklin

Weather Conditions: Wind: 4 MPH, direction from West Temp.: 67 °F Humidity: 56 %

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 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 checked="" 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>Shield</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-Tec</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 80 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7oz/A **Gallons Sprayed:** 5 **Amt. of Chemical Applied:** .44 **Acres Treated:** 0.2

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 type="checkbox"/> Leafy spurge | <input checked="" 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):

See Lm see am
Musk Thistle scattered in
Prairie, clumped on levee

COMMENTS:

Start 6
End 1
Used 5

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922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 7/1/15 **Time (start/stop):** 7:30 - 11:00

Location: (NWR or WPA) Area Labors WPA

County: Teton

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4 MPH, direction from West Temp.: 67 °F Humidity: 56 %

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: Dynamark

☒ Adjuvant Used: Syntac

Equipment Used: ☒ ATV GPA ☐ Handgun ☒ Broadcast

☐ Backpack GPA ☐ Mechanical _____

App. Rate: 102/100 **Gallons Sprayed:** 6 **Amt. of Chemical Applied:** .46 oz **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):

Re-visited all Perennial pepperweed locations to monitor treatments from May. Some new growth was present in previously sprayed areas or just adjacent to the infested areas.

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 7/1/15 **Time (start/stop):** 7:30 - 11:00

Location: (NWR or WPA) Ared Lakes WPA

County: Teton

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4 MPH, direction from west Temp.: 67 °F Humidity: 56 %

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: Dynamark

☒ Adjuvant Used: SYL-Tac

Equipment Used: ☒ ATV GPA 80 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 70z/ac **Gallons Sprayed:** 2 **Amt. of Chemical Applied:** .18 oz **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):

Started @ North most historical data
and worked south until meeting
GMM + KS.

COMMENTS:

Start	End
10	8
Total	2

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 7-1-15 **Time (start/stop):** 7:30 A - 11:00 A **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Agro WDA ☒ G. McClure ☐ K. Schuetz
County: tebon ☐ B. Sparklin
Weather Conditions: Wind: 4 MPH, direction from W Temp.: 70 °F Humidity: 56 %

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 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 checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Plateau – BASF #241-365 | <input type="checkbox"/> Dye Used/Rate: <u>Shield</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: <u>SylTee</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 88 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7.02/60 Gallons Sprayed: 5 **Amt. of Chemical Applied:** .42 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 type="checkbox"/> Leafy spurge | <input checked="" 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):

COMMENTS:

Start 5g
end 0g
5

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-30-15 **Time (start/stop):** 8:00 - 12:00

Location: (NWR or WPA) AROS WPA

County: _____

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4 MPH, direction from W Temp.: 82°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: Sheld

☒ Adjuvant Used: SyLTA

Equipment Used: ☒ ATV GPA 80 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7.0 **Gallons Sprayed:** 4 **Amt. of Chemical Applied:** .35 **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 type="checkbox"/> Leafy spurge | <input checked="" 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):

SEE GM

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-30-15 **Time (start/stop):** 8:00a-12:00p **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) AKad ☒ G. McClure ☐ K. Schuetz
County: _____ ☐ B. Sparklin
Weather Conditions: Wind: 4 MPH, direction from W Temp.: 88°F Humidity: 47%

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 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 checked="" 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>Shield</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syltac</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 88 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7.07/ac **Gallons Sprayed:** 5 **Amt. of Chemical Applied:** 0.4/ac **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 type="checkbox"/> Leafy spurge | <input checked="" 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):

Heat and wind increased throughout morning,
Stopped spraying as wind got too
fast.

COMMENTS:

Transected south half of infected area, See map.
Isolated pockets of Canada thistle.

Compliments of the
MONTANA DEPARTMENT OF AGRICULTURE **DAILY PESTICIDE APPLICATION RECORD**
AGRICULTURAL SCIENCES DIVISION
PO BOX 200201
HELENA, MT 59620-0201
Phone 406-444-3730

BUSINESS U.S. Fish and Wildlife Service	LICENSE# 104765-15
NAME Benton Lake NWR Invasive Species Strike Team	ADDRESS (Refuge or WPA) A rod lake
CITY, STATE, ZIP Great Falls, MT 59404	PHONE 406-727-7400 Ext. 213

	APPLICATION #1	APPLICATION #2
Applicator/Operator Name (s)	Kurt	
Date	09-09-15	
County	Teton	
Time Start/Stop	8:30 - 2:30	
Temperature	61°	
Relative Humidity	58%	
Wind Speed/Direction (from)	2 mph South	
Pesticide Manufacturer	DOW	
Trade Name	Milestone	
EPA Reg # or Formulation		
Rate: Product/Diluent Per Acre	7 oz/Ac	
Amount of Chemical Applied	0.26 oz	
Equipment Used (atv,backpack,truck,saw)	ATV	
Bio-Control (genus species)		
# released / acre		
Mechanical (mow,hand-pull)		
Plant Phenology & Stage	Senescing	
Dominant Pest(s)		
Equipment Used		
Acres/Area Treated or # of plants	Spot treatment, gps mapped	Spot treatment, gps mapped
GPS Filename		

[illegible]

Compliments of the
MONTANA DEPARTMENT OF AGRICULTURE **DAILY PESTICIDE APPLICATION RECORD**
AGRICULTURAL SCIENCES DIVISION
PO BOX 200201
HELENA, MT 59620-0201
Phone 406-444-3730

BUSINESS U.S. Fish and Wildlife Service	LICENSE# 104765-15
NAME Benton Lake NWR Invasive Species Strike Team	ADDRESS (Refuge or WPA) A Rod Lakes WPA
CITY, STATE, ZIP Great Falls, MT 59404	PHONE 406-727-7400 Ext. 213

	APPLICATION #1	APPLICATION #2
Applicator/Operator Name (s)	Greg McClure	
Date	9-9-15	
County		
Time Start/Stop	9 ⁰⁰ a - 3 ⁰⁰ p	
Temperature	62°	
Relative Humidity	58%	
Wind Speed/Direction (from)	2 mph S	
Pesticide Manufacturer		
Trade Name	Milesure	
EPA Reg # or Formulation		
Rate: Product/Diluent Per Acre	7 oz/ac	
Amount of Chemical Applied	0.402	
Equipment Used (atv, backpack, truck, saw)	ATV handgun	
Bio-Control (genus species)		
# released / acre		
Mechanical (mow, hand-pull)		
Plant Phenology & Stage		
Dominant Pest(s)	Russian Knapweed	
Equipment Used		
Acres/Area Treated or # of plants	Spot treatment, gps mapped	Spot treatment, gps mapped
GPS Filename		

[illegible]

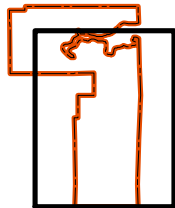


U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Arod Lakes WPA - 2015 Acres Infested and Treated

Area Detail

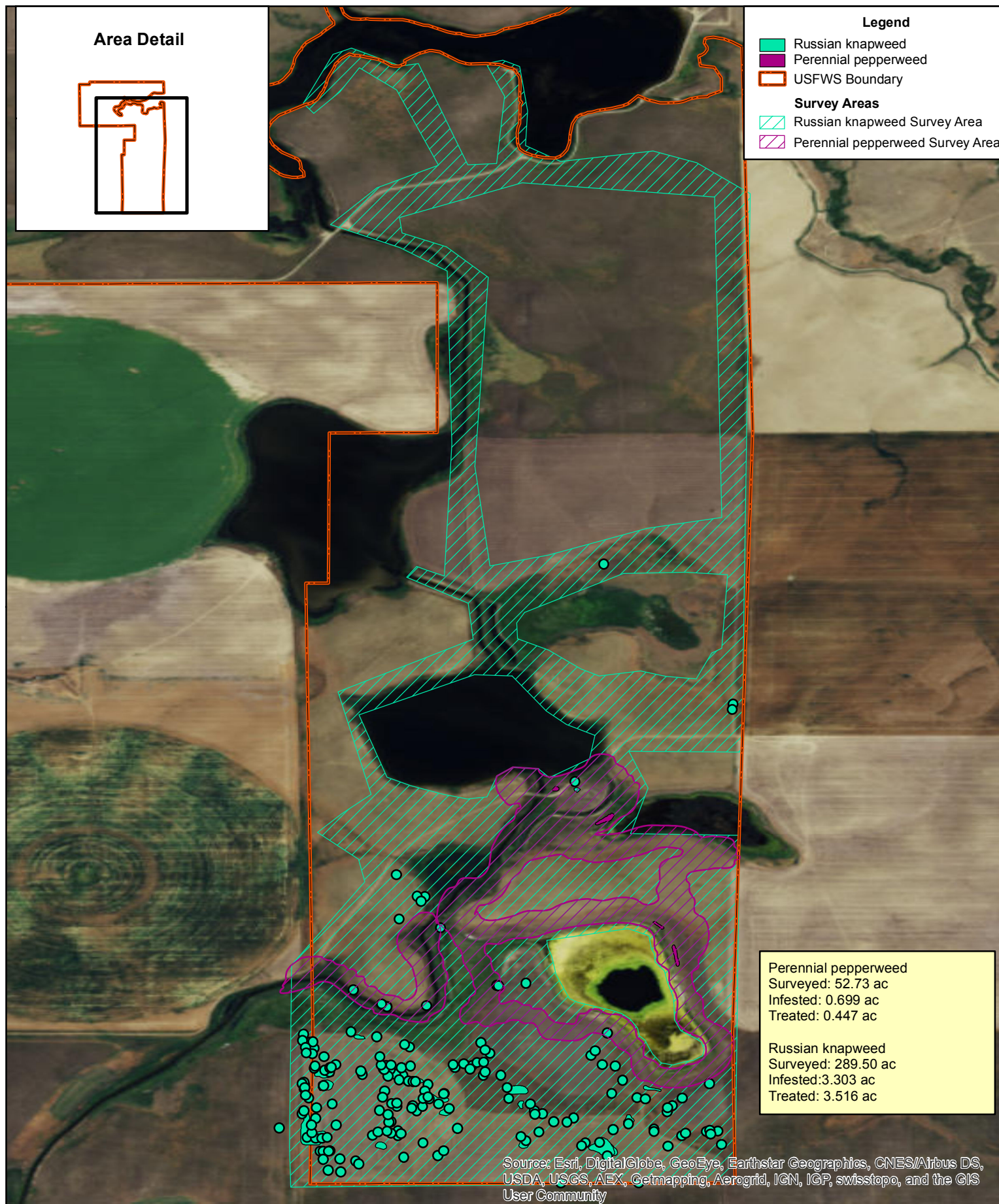


Legend

- Russian knapweed
- Perennial pepperweed
- USFWS Boundary

Survey Areas

- Russian knapweed Survey Area
- Perennial pepperweed Survey Area



0 0.125 0.25 0.5 Miles

Perennial pepperweed, Russian knapweed - 1 of 1 map

Benton Lake Wetland Management District

Big Sag WPA

Benton Lake ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Surveyed Acres Infested ²	Acres Treated ³
Houndstongue	77.44	0.52	0.52
Project Site Totals	77.44	0.52	0.52
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ The area or subset of infested area that has received some form of treatment as measured by GPS feature.			

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
May 27, 2015	Refuge Management Project	Houndstongue	3	Point to point mechanical treatment within the WPA.

Coordination and Cooperation

- Scheduling and treatment priorities were developed from proposals and discussions with WMD Manager, Jim Lange.

Prevention and Education

- If grazing is used as a management tool on this WPA, removal of senesced houndstongue stalks will help reduce the chance of dispersal.

Early Detection and Rapid Response

- Satellite infestations of houndstongue were found and treated near historical populations.

Inventory and Monitoring

- ISST members surveyed 77.44 acres of the WPA in 2015.
- Other noxious weeds found on the site include: Canada thistle, bull thistle, cheat grass, common mullein, crested wheatgrass, and field pennycress.



Management

- ISST mechanically treated houndstongue using a 30 meter buffer area around all historic and ne
- Throughout the entire WPA, senesced seed heads were clipped and bagged for disposal.
- A total of 0.52 acres of houndstongue was treated in 2015. No houndstongue was found near the historical population in the center of the unit for the sixth year in a row.
- In 2015, five houndstongue plants were found near the prairie dog town.
- Houndstongue is the only noxious weed treated on this site by the strike team.
- All ISST activities in the Benton Lakes WMD were conducted point-to-point around historic observations of known weed populations at the request of the WMD Manager. Although this minimizes disturbance to the site, it reduces the ability of the ISST to detect new populations before they become established on the rest of the WPA. It also dramatically limits the scope of weed mapping data for tracking invasive species population size over time and prevents the use of these data for rigorously determining effectiveness or supporting adaptive management strategies. Additional resources and methodologies will be required by refuge staff to now determine or answer these types of questions.

Wilson's Phalarope in the grassy mudflats at Big Sag WPA. Photo by: Levi Morgan

searching

Herbicide Applied

- In 2015, ISST treated all houndstongue mechanically due to rainy and windy weather conditions.

Recommendations

- Repeated chemical treatment and timing in 2016 will be most effective for further reducing the infestation.
- Survey for houndstounge outside of historically treated areas.
- Only one day in May or June 2016 will be required to treat the historical infestations at Big Sag WPA.






U.S. Fish & Wildlife Service

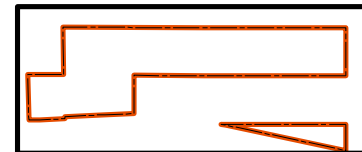
MOYOCO Invasive Species Strike Team

Big Sag WPA - 2015 Acres Infested & Treated

Legend

-  Houndstongue
-  Invasive Plant Survey
-  FwsInterest

Area of Detail



Surveyed: 77.44 ac
Acres Infested: 0.52 ac
Acres Treated: 0.52 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

Houndstongue 1 of 1 Maps

Benton Lake Wetland Management District

Blackfoot WPA

Benton Lake and Lee Metcalf ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Survey Acres Infested ²	Acres Treated ³
Black henbane	0	0.14	0.14
Canada thistle	0	0.14	0.14
Common mullein	0	0.01	0.01
Common tansy	32.02*	0	0
Hoary alyssum	32.02*	0.23	0.25
Houndstongue	41.08	0.90	0.91
Leafy spurge	120.61	3.04	3.84
Meadow hawkweed	1.50	0.01	0.005
Musk thistle	0	0.09	0.08
Oxeye daisy	26.06	0.76	0.80
Russian knapweed	0	0.01	0.01
Spotted knapweed	146.83	71.22	72.49
Yellow toadflax	387.30	2.34	2.39
Project Site Totals	755.40	78.89	81.07
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ 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.			

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
9-June-2015	EDRR Project Chemical Treatment	Hoary alyssum	2	Point-to-point monitoring and treatment using historic data.
	Refuge Project Chemical Treatment	Oxeye daisy		
16-June-2015 to 18-June-2015	Refuge Project Chemical Treatment	Spotted knapweed, Houndstongue	3-5	Priority areas treated while keeping watch for EDRR species.
	EDRR Project Chemical Treatment	Meadow hawkweed, Hoary alyssum, Common tansy	1	Treated new patches of hawkweed and hoary alyssum. Monitored historic locations of tansy.

	Refuge Project Chemical Treatment	Oxeye daisy	1	Treatment in North 80, target plants were more apparent than in early June.
14-Sept-2015 to 17-Sept-2015	Refuge Project Chemical Treatment	Spotted knapweed	1	Continued treatment in priority areas to spray out <i>Milestone</i> before switching to herbicide for other priority applications.
	Refuge Project Inventory and Monitoring	Spotted knapweed and other noxious weeds	3	North of Hwy 200, in the southeast corner of this area was surveyed during rainy weather.
	Refuge Project Chemical Treatment	Leafy spurge	2-4	Point-to-point monitoring and treatment using historic data.
	Refuge Project Chemical Treatment	Yellow toadflax	3-7	Point-to-point monitoring and treatment using historic data.
	Refuge Project Chemical Treatment	All noxious weeds	3	Systematic transecting and treatment of all species from parking area north of Hwy 200 to the gravel pit.
23-Sept-2015	Refuge Project Chemical Treatment	Spotted knapweed	3	Treatment of parking areas and fence line north of Hwy 200.
		Houndstongue	1	Treatment in southeast corner from top of bank to oxbow and rivers edge.
28-Sept-2015 to 30-Sept-2015	Refuge Project Chemical Treatment	Yellow toadflax	3-4	Continued treatments where left off.
	Refuge Project Mechanical Treatment	Hoary alyssum	1	Pulled and bagged all plants found (rosette to post flower) from along Brown's Lake Road.

Coordination and Cooperation

- Crew leaders Jessica Zarate and Levi Morgan coordinated with site manager Kevin Ertl using the "Strike Team Expectation and Accomplishment Checklist" (Appendix A -D) and all details of work to be completed were further discussed in person each week as the crews arrived.

Prevention and Education

- Small and isolated infestations are always targeted first as a priority to help prevent their spread into new areas.
- Survey and treatment of long-standing infestations are strategically outlined by the site manager in an effort to reduce the density of and curb the spread of weeds across the landscape.



Early Detection and Rapid Response

Meadow hawkweed

- While surveying for oxeye daisy, the crew identified and treated a patch of meadow hawkweed in the northeast corner of the WPA. A 30 meter buffer was surveyed around this infestation and no additional plants were found.
- In September, the crew inventoried the southeast region of the site located north of Hwy 200 during rainy weather and found two additional patches of meadow hawkweed. These patches are located on a steep slope and in the pines and would need to be treated with a backpack sprayer but the team did not have sufficient time available for treatment.

Hoary alyssum

- This species is a priority for treatment so multiple management efforts (both chemical and mechanical) are performed in a single growing season resulting in more treated acres than infested acres.
- Historically hoary alyssum was primarily found along Brown's Lake Road with a few scattered patches near the access gate south of Hwy 200 and in the southeast near the river. All of the historic areas were surveyed twice for treatment, performing point-to-point surveys plus a 30 meter buffer around these locations.
- Flowering, post-flower, and seeding plants were all pulled and bagged for disposal off site, prior to spraying seedlings and non-flowering plants.
- Although some new patches were found, there appeared to be less hoary alyssum overall. This year we mapped 0.23 infested acres compared to 0.38 infested acres mapped in 2014.
- Several sources are now stating hoary alyssum can be found as an annual, winter annual, biennial, or a short lived perennial; regardless, it is a prolific seed producer. Many of the plants found on Brown's Lake Road are very large, not typical of what would be expected of an annual species.
- Coordination with the County for spraying the road right-of-way is recommended. Multiple herbicide applications with *Escort XP* can be completed as long as application rates are kept low and do not exceed two ounces per acre in an area within the same growing season.

Russian knapweed

- Two patches of Russian knapweed were found and treated during the treatment of spotted knapweed and other noxious weeds north of Hwy 200.
- This species was not a priority this season and only those two patches were treated.

Inventory and Monitoring

Common tansy

- Historic areas were surveyed for common tansy in June and this species was not detected this season. There were four common tansy patches totaling 0.02 acres in 2011. Then in 2012, no common tansy was found. Only one patch was detected and treated in 2013. No common tansy was located in 2014. Common tansy monitoring should continue to identify new patches before they can become established.

Other Noxious Weeds

- During rainy weather, the team spent a few hours monitoring all noxious weeds an area north of Hwy 200, in the southeast corner. Weeds mapped in this area include common mullein, houndstongue, meadow hawkweed, musk thistle, and spotted knapweed.

Management

- All surveys for treating target species on the Blackfoot WPA were conducted point-to-point with a buffered search area around historic locations. Although this minimizes disturbance to the site, it reduces the ability of the ISST to detect new populations before they become established. It also dramatically limits the scope of weed mapping data for tracking invasive species population size over time and prevents the use of these data for rigorously determining effectiveness or supporting adaptive management strategies. Additional resources and methodologies will be required by refuge staff to answer these types of questions.
- Frequently changing herbicides to appropriately target the variety of plants to be treated and equipment failures resulted in some delays. Smaller batches of herbicide are often used and extra

water is hauled for cleaning tanks between different mixes.

Houndstongue

- Houndstongue appears to be expanding on this site. It was primarily found in the forested areas of the site, it now seems to be spreading in other areas.
- Houndstongue was targeted for treatment near a Blackfoot River oxbow located in the southeast region of the site and during surveys for treatment north of Hwy 200. All work was completed with ATV except the oxbow area was treated using a backpack sprayer.
- In other areas of the site houndstongue was treated opportunistically as time permitted while managing other priority species. A large infestation of houndstongue was found and treated near the fence line southeast of Brown's Lake Road and south of Hwy 200. Some overlap of treatment mapping occurred in this area resulting in a larger amount of acres treated than infested.

Oxeye daisy

- The team conducted point-to-point surveys using historic data in early June to treat known patches but very little oxeye was found to be present at the time of the survey.
- Timing for treatment of this species was scheduled early in an effort to catch plants in rosette to pre-flower stages, but it's possible it was too early this season.
- Later in June, several oxeye daisy plants were observed and treated in the historic area, when traveling through the area on the way to treat meadow hawkweed in the northeast corner.
- Not enough time was available when oxeye plants were found to go back over entire historic areas for re-treatment.
- Timing oxeye daisy treatment with the appropriate herbicide that has the least harmful effects to woody species is a challenge that is compounded by the fact that this species is a prolific seeder that can have multiple flushes within a single growing season.
- Surveys in late June and July may lend to better detection, but treating plants in full flower is not optimal for good control with *Milestone*. Site managers may want to use *Escort XP*, which can be applied when plants are flowering. However, this product can cause more off target damage on surrounding brush and trees if drift occurs. *Chaparral* herbicide was used this season as it contains the active ingredients found in both *Milestone* and *Escort XP*, making it a better option for treating this species under a variety of phenological stages.
- Continued monitoring and treatment of this species is advised. Additional time should be scheduled since the terrain and canopy make this area difficult to survey and map.

The ability to detect the target species depends on both the plants phenology and its surrounding vegetation. This newly mapped patch was initially detected from a distance since some of the plants had bolted and were flowering (left). The sparse ground cover lent well to also finding adjacent plants that varied in growth stage. Some pre-flowering plants (top right) had not bolted and were only slightly larger than the seedlings (bottom right). Photos by Jessica Zarate.

Spotted knapweed

- Spotted knapweed is abundant and wide spread throughout this site and the management focus is on containment. Fence perimeter and satellite infestations are targeted first; followed by the treatment of fields based on prioritized management needs.
- Spotted knapweed was also inventoried and treated to the extent feasible north of Hwy 200 this year. This area has not been worked by ISST for several years and the project leader requested this area be covered to help determine the extent of the knapweed in the area.

- The 72.49 acres treated is greater than the 71.22 acres infested primarily due to overlap of management polygons. However, some retreatment may have occurred during treatment.

Leafy spurge

- Leafy spurge 3.04 acres infested is slightly less than what was mapped in 2014 (3.70 acres). Several new patches of spurge were detected and while most were outliers of known historic patches, an isolated patch was found north of Hwy 200 under a pine tree near the gravel pit.
- The density of several patches of spurge appeared to be declining. However, leafy spurge is still well distributed throughout the central area south of Highway 200 with the highest concentration northwest of the large pond.
- In many areas plants were laid over and intermixed with tall grasses making them more difficult to find.
- 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 seed production and its spread by roots.

Yellow toadflax

- Priority areas for treatment of this species remained the same as in previous years, working point-to-point to treat the small and isolated patches first before systematically transecting the larger infestations.
- Many of the yellow toadflax plants found were small and at times very small at less than 2 inches tall. In most areas transects were completed at very slow speeds and close together (less than 5 meters apart) because of the difficulty detecting this species among the taller grasses.
- Yellow toadflax is an aggressive invader and is known to spread rapidly under suitable conditions if left untreated. It is still unclear if current management techniques are effectively reducing this population. However, this species appeared to be absent from several areas where it was found previously.
- ISST recommends adaptive management strategies are considered to incorporate other management methods that may help control the yellow toadflax infestation onsite.

Other species – Black henbane, Canada thistle, Common mullein, Musk thistle

- Surveys were conducted for the treatment of “all noxious weeds” north of Hwy 200. Additionally, common weeds are occasionally treated incidentally while surveying for other priority species.
- Acres infested for species such as black henbane, Canada thistle, houndstongue, and musk thistle are an estimate based on acreages mapped, but more is known to be present on site.
- When a specific list of target species is not designated for a project or if the list becomes too long, it become difficult to determine if all crew members are covering the areas for the same set of species and are detecting all of them. For instance, often Canada thistle and common mullein are ignored unless specifically requested for inventory. These species may have been mapped by some individuals and not others.

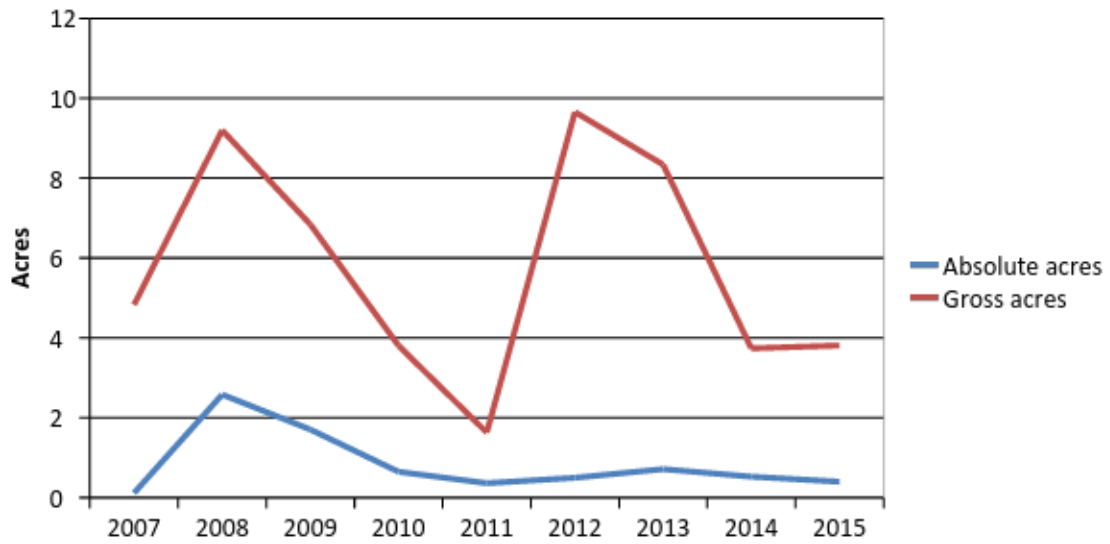
Herbicide Applied

- 1.97oz of *Chaparral* was used for treatment of hoary alyssum, houndstongue, oxeye daisy and spotted knapweed.
- 0.08oz of *Escort XP* was used for treatment of houndstongue.
- 181.82oz of *Milestone* was used for treatment of spotted knapweed, Russian knapweed and musk thistle.
- 34.20oz of *Plateau* was used for treatment of leafy spurge, yellow toadflax and hoary alyssum.
- 53.2oz of *Tordon 22K* was used for treatment of spotted knapweed.
- 189.22oz of *Tordon 22K* and 35.49oz of *Distinct* or *Overdrive* in a tank mix was used for treatment of yellow toadflax, leafy spurge, spotted knapweed, hoary alyssum, musk thistle, and houndstongue.

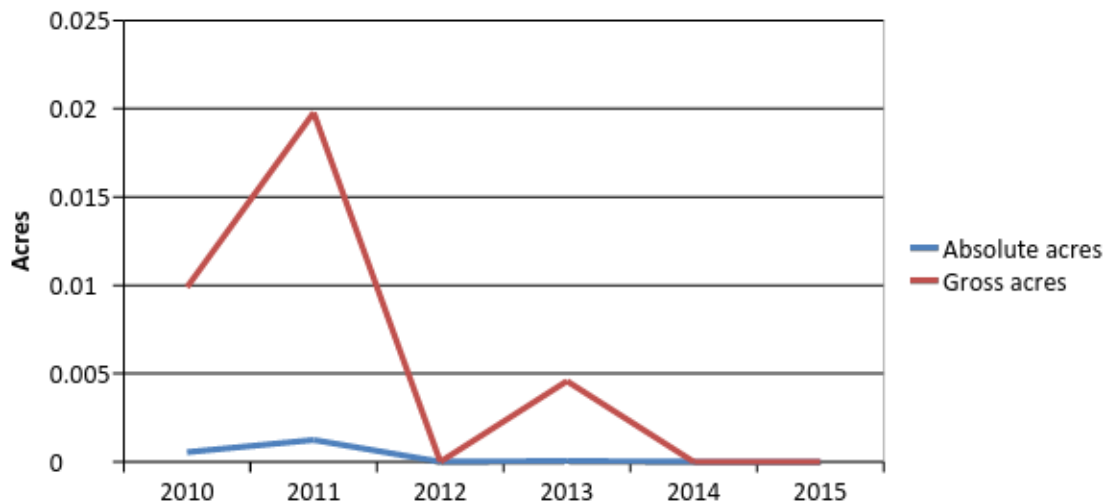
Proposed 2016 Schedule

- Continue monitoring for common tansy and sulfur cinquefoil and treat if present. This could be done during any of the site visits early to mid-summer. Sulfur cinquefoil was not surveyed for in 2015 due to other priorities taking precedence.
- It is recommended that known locations of meadow hawkweed are prioritized for treatment. A systematic inventory could determine the extent of the infestation on site.
- Hoary alyssum has multiple flushes throughout the growing season and ISST recommends it remains a priority for control at any time it is detected. Monitoring surveys to cover historic areas could begin as early as late May and should continue through fall.
- The manager should also continue to work with the County for treatment of Brown's Lake Road. ISST suggested they use 0.5oz/acre of *Escort XP* in rosette, bolt or early flower stages, so that multiple applications (up to 4 at this rate) can be performed in a single growing season.
- Oxeye daisy in the North 80 should continue to be treated as a priority. It is recommended that systematic surveys should be conducted in late June – early July when plants are flowering to gain a better understanding of the extent of this infestation and assist managers in developing an adaptive management plan for controlling this species.
- Russian knapweed was found to be present north of Hwy 200 this year. Our team originally noted the presence of this species onsite in 2013 based on finding it onsite south of the highway.
 - The actual abundance and extent of this species is unknown.
 - Herbicide treatment of this species is optimal in the fall.
 - Biological controls are also now available for this species and could be obtained by the site manager through with the local weed district or the Montana biological control coordinator.
- Fall spraying of leafy spurge in September is recommended to continue. The manager may also want to try mowing or spraying plants early in the season (prior to seed development) to help reduce seed production.
- Given the large number of projects on this site, prioritization, scheduling and timing of management is critical. ISST does its best to schedule projects in a way that allows them to meet all requests from project leaders.

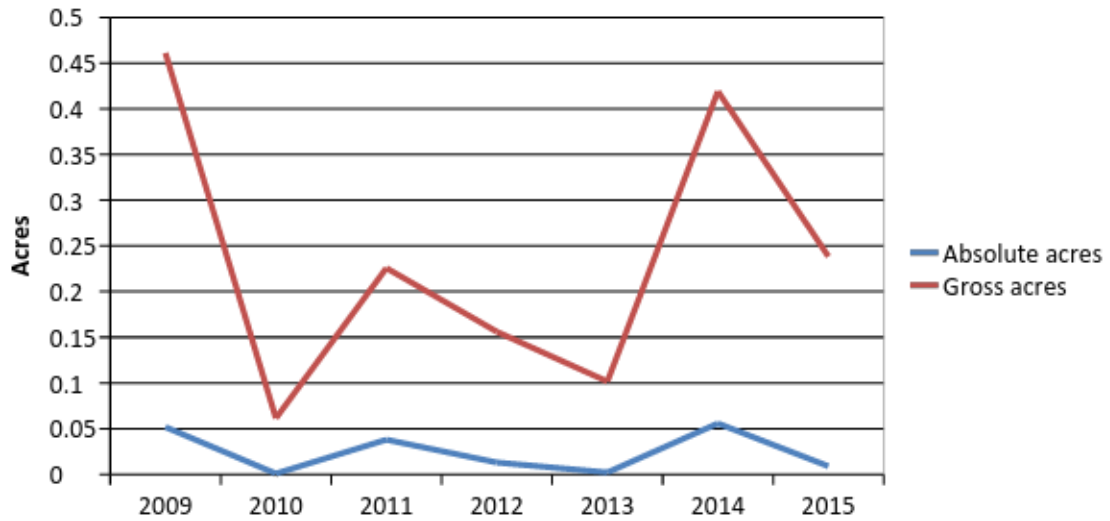
Blackfoot - Leafy spurge



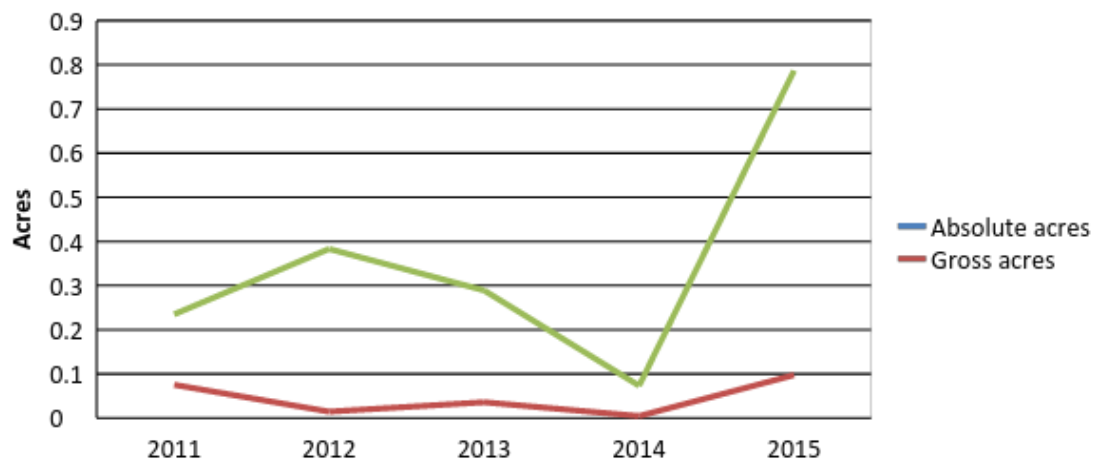
Blackfoot - Common tansy



Blackfoot - Hoary alyssum



Blackfoot - Oxeye daisy





Appendix A

Strike Team Expectation and Accomplishment Checklist

Arrival Interview

Station: Upsata & Blackfoot & Kleinschmidt WPA

Date of Visit: 06/8/15-06/11/15

Objectives and Priority Areas defined:

Species	Unit	Section of Unit	Inventory/Monitor	Treat	Chemical (ref or isst)
Spotted knapweed	Upsata	Prioritize areas based on discussion with Kevin	No	Spray & map	Milestone or Chaparral – ISST or Refuge
Hoary alyssum		Entire site	Yes, if not treated	No	Excort XP or Chaparral - ISST
Sulfur cinquefoil		Historic location	No	Spray & map	Milestone or Chaparral –
Oxeye daisy		Historic location	No	Spray & map	ISST or Refuge
Hoary alyssum	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Spray & map	Chaparral-ISS T; Will switch to Milestone if exclusively spraying spotted knapweed
Oxeye daisy		Point-to-point historic locations plus 30M buffer around these and new patches	No		
Spotted knapweed		Prioritize areas based on discussion with Kevin	No		
Common tansy & Sulfur cinquefoil		Point-to-point historic locations plus 30M buffer around these and new patches	No		

Notes: Work on completing Upsata before moving to the Blackfoot. Gear will be powerwashed at Kevin's between sites.

Met with Kevin after completing Upsata and he would prefer for us to only treat oxeye and hoary at Blackfoot (2 people) and the rest of the crew start priorities on Kleinschmidt. Sent text to Lindy and Bill to get ok to make this change and it was approved. See Exit notes for details of projects worked on Kleinschmidt.

ATV Use: (define whether allowed, if partial allowance any restricted areas or travel directions, including only along fence line or not, only along two-track or if can systematically traverse project site, or if point-to-point treatment)

ATV use is permitted throughout the site.

Other access issues, conflicts, etc...: None.

Station or Site Manager (or
Acting): _____ Date: _____
(back has Exit Interview)

Exit Interview

Species	Unit	Section of Unit	Inventory/Monitor	Treat	Completed (yes or no with explanation)
Spotted knapweed	Upsata	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all historic areas were treated.
Hoary alyssum		Entire site	No.	Yes	Yes, all historic areas were treated but we may have been a little early, not a lot was found.
Sulfur cinquefoil		Historic location	No	Some treated.	Not priority species but some sulfur cinquefoil was found and treated. Historic patches of oxeye were surveyed for but none was found.
Oxeye daisy			No	None found.	
Hoary alyssum	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all historic patches were searched and all found was treated, however may have been early, not much was found.
Oxeye daisy					Yes, historic areas were surveyed and all found was treated.
Meadow hawkweed		Newly detected	Yes	No	One patch found and mapped, needs to be verified and will treat if invasive species.
Spotted knapweed	Kleinschmidt	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Several areas completed, had some problems with historic data display but will continue working on this project next week.
Houndstongue					
Oxeye daisy					
St. Johnswort					
Hoary alyssum					
Yellow toadflax Dalmatian		Monitor if incidentally found	Yes	No	No new patches found.

toadflax		and not previously mapped			
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Notes:

Upsata worked and completed this week on June 8th. Blackfoot worked by 2 people and the hoary alyssum and oxeye daisy projects were completed on June 9th. Kleinschmidt was started by 3 people June 9th and then a 5 person crew worked this site on June 10 and 11. We will return to this site on Monday June 15th.

Concerns with Project:

There was heavy rain during the night of June 9th. Wet and foggy conditions on June 10th resulted in delays to start up the morning of June 10th. The team completed administrative tasks in the early morning before heading out.

Station or Site Manager (or
Acting): _____ Date: _____



Appendix B**Strike Team Expectation and Accomplishment Checklist**Arrival InterviewStation: Kleinschmidt & Blackfoot WPADate of Visit: 06/15/15-06/18/15

Objectives and Priority Areas defined:

Species	Unit	Section of Unit	Inventory/ Monitor	Treat	Chemical (ref or isst)
Spotted knapweed	Kleinschmidt	Point-to-point historic locations plus 30M buffer around these and new patches	No	Spray and map	Chaparral – ISST
Houndstongue					
Oxeye daisy					
Hoary alyssum					
St. Johnswort					
Yellow toadflax					
Dalmatian toadflax	Blackfoot	Monitor if incidentally found and not previously mapped	Yes	No	N/A
Spotted knapweed		Point-to-point historic locations plus 30M buffer around these and new patches	No	Spray & map	Chaparral-IS ST; Will switch to Milestone if exclusively spraying spotted knapweed
Common tansy & Sulfur cinquefoil (if time is available)					

Notes:

Continue working point-to-point at Kleinschmidt until complete and then will move to Blackfoot to treat spotted knapweed in the following priorities areas: 1) along the perimeter, 2) west side near Brown's Lake ("peninsula"), 3) isolated patches.

ATV Use: (define whether allowed, if partial allowance any restricted areas or travel directions, including only along fence line or not, only along two-track or if can systematically traverse project site, or if point-to-point treatment)

ATV use is permitted throughout the site.

Other access issues, conflicts, etc...: None.

Station or Site Manager (or

Acting): _____ Date: _____

(back has Exit Interview)

Exit Interview

Species	Unit	Section of Unit	Inventory /Monitor	Treat	Completed (yes or no with explanation)
Spotted knapweed	Kleinschmidt	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all historic areas were surveyed plus the buffer. We had a problem with the units displaying the historic layer so if there are any patches missed it is because they could not be seen but I believe we did get them all.
Houndstongue					
Oxeye daisy					
St. Johnswort					
Hoary alyssum					
Yellow toadflax	Kleinschmidt	Monitor if incidentally found and not previously mapped	Yes	No	No new patches were found.
Dalmatian toadflax					
Spotted knapweed (and a few houndstongue)	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	See notes below.
Meadow hawkweed					Yes, photographed and treated patch. Several flowering and many rosettes.
Common tansy			No	Yes	Surveyed historic locations that were near the new patch of meadow hawkweed in the far northeast corner of North 80. No tansy plants were found.

Notes: Kleinschmidt worked on June 15th using 5 person crew and then was finished by 2 people on June 16th. The road up to the cattle guard at the north end was also done. A crew of 3 people started spraying spotted knapweed on the Blackfoot the morning of June 16 and was later joined

by others once Kleinschmidt was done.

Spotted knapweed – In the east, the majority of the knapweed in the southern area (below the old fence line that goes down the middle, east to west) was completed. A large portion of the northern most area of the east was also completed. The perimeter from the large pond NW, to Brown's Lake Road and then west to the second curve (just past the creek) was completed. Some houndstongue was also found and treated opportunistically.

Concerns with Project: We were likely a bit early when first treated oxeye, many more plants were found that were not sprayed. I treated all I could but there is likely more out there. We should plan to treat this species after June 15 in the future if possible.

Station or Site Manager (or

Acting): _____ Date: _____



Strike Team Expectation and Accomplishment Checklist

Arrival Interview

Station: Blackfoot WPA

Date of Visit: 09/14/15-09/17/15

Objectives and Priority Areas defined:

Species	Unit	Section of Unit	Inventory/ Monitor	Treat	Chemical (ref or isst)
Leafy spurge	Blackfoot WPA	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	ISST: Plateau 11oz/ac with MSO 2pt/ac
Yellow toadflax			No	Yes	ISST: Tordon 2pt/ac & Overdrive 6oz/ac with MSO 1pt/ac
Spotted knapweed		Continue where left off in spring with priority areas: 1. East area near lake 2. WPA boundary 3. Field west of large pond and south of Hwy	No	Yes	ISST and Refuge: Curtail 64oz/ac with no surfactant.

Notes:

ATV Use: (define whether allowed, if partial allowance any restricted areas or travel directions, including only along fence line or not, only along two-track or if can systematically traverse project site, or if point-to-point treatment)

ATV use is permitted throughout the site.

Other access issues, conflicts, etc...: None.

Station or Site Manager (or

Acting): _____ Date: _____

(back has Exit Interview)

Exit Interview

Species	Unit	Section of Unit	Inventory/ Monitor	Treat	Completed (yes or no with explanation)
Leafy spurge	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, see notes below.
Yellow toadflax					No, see notes below.
Spotted knapweed		North of Hwy, eastern section	Yes	No	No, started for part of the day during rain.

Notes:

Leafy spurge – We treated all historic areas plus buffers and found some new small patches outside of historic locations. In some known locations, spurge was not found or found to be reduced in density and patch size.

Yellow toadflax – I had one person spraying north of the hotwire fence west of the large pond and one person spraying south of the hot wire. These areas are in progress and not done yet. I also had one person between the two ponds near the access road and they found only a few plants in this area. The area east of the pond (near the east boundary) is in progress. Not much was found in that area but a few patches were sprayed. I worked south of the large pond central pond and east of the southernmost pond and I found a couple of small grazed plants only. This area is also in progress and will be continued when we returned.

We didn't have time to work on spotted knapweed treatment but did begin monitoring the NE area during rainy weather.

Concerns with Project: In some areas spurge and toadflax were difficult to detect due to Great Basin wildrye. Also some of the spurge was laying down and the same color as the grass making it harder to see. Yellow toadflax was grazed down south of the large pond. A couple of plants were found in this area but it's possible with the grazing and tall grass plants could have been missed. Rain immediately followed treatment on 9/16/15.

Station or Site Manager (or

Acting): _____ Date: _____



Appendix D**Strike Team Expectation and Accomplishment Checklist**Arrival InterviewStation: Blackfoot WPADate of Visit: 09/28/15-9/30/15

Objectives and Priority Areas defined:

Species	Unit	Section of Unit	Inventory/Monitor	Treat	Chemical (ref or isst)
Yellow toadflax	Blackfoot WPA	Continue, point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	ISST: Tordon 2pt/ac & Overdrive 6oz/ac with MSO 1pt/ac
Spotted knapweed		Continue where left BNL crew left off in addition to spring priority areas: 1. East area near lake 2. WPA boundary 3. Field west of large pond and south of Hwy 4. Monitor and treat north of highway	No	Yes	ISST and Refuge: Curtail 64oz/ac with no surfactant.

Notes:

ATV Use: (define whether allowed, if partial allowance any restricted areas or travel directions, including only along fence line or not, only along two-track or if can systematically traverse project site, or if point-to-point treatment)

ATV use is permitted throughout the site.

Other access issues, conflicts, etc...: None.

Station or Site Manager (or

Acting): _____ Date: _____

(back has Exit Interview)

Exit Interview

Species	Unit	Section of Unit	Inventory/ Monitor	Treat	Completed (yes or no with explanation)
Yellow toadflax	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all areas were surveyed and treated.
Hoary alyssum		Along Browns Lake Road plus 30M buffer around plants found			Yes, hand pulled all plants found. Plants were in various stages, rosette, flowering and senescing.
Spotted knapweed		North of Hwy, eastern section	Yes	No	No, data from previous treatments were compiled and we treated some areas that had not been covered previously. The entire site could not be completed because there was not enough time given the extent of the infestation onsite.

Notes:**Concerns with Project:**

While we made every effort to detect all yellow toadflax plants within the survey area, it is possible that some were missed. Plants were incredibly small in most areas (some only about 1-2 inches tall) and in the taller surrounding grass, you nearly had to be right on top of them to detect them. Our team went very slowly and used tight transects in an effort to treat all toadflax present.

Station or Site Manager (or
Acting): _____

Date: _____

DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/09/15 **Time (start/stop):** 10am- 4 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from S Temp.: 88 °F Humidity: 34 %

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

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

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.09 **Acres Treated:** 0.04

Vegetation Treated:

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

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

Location #1 (Site specific description):

Worked browns lake road around curve and near gate area. Also worked historical points near gate between 2 ponds (just off highway) and some points in the SE corner

Location #2 (Site specific description):

North of highway starting at northern most section on the west fence line, worked eastward

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/09/15 **Time (start/stop):** 10am- 4 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from S Temp.: 88 °F Humidity: 34 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input checked="" type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</u> |
|--|---|

Equipment Used: ☒ ATV GPA 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 2.5 gal **Amt. of Chemical Applied:** 0.15 **Acres Treated:** 0.06

Vegetation Treated:

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

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

Location #1 (Site specific description):

NE corner of northern most block, mostly north of access road

Location #2 (Site specific description):

COMMENTS:

Most of the oxeye was pre-flowering, some had flowers already. Some areas not accessible by atv due to downed logs

DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/16/15 **Time (start/stop):** 9am – 3pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 1 MPH, direction from E Temp.: 68 °F Humidity: 57 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input checked="" type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</u> |
|--|---|

Equipment Used: ☒ ATV GPA 74 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 3 gal **Amt. of Chemical Applied:** 0.1 **Acres Treated:** 0.04

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Blackfoot northern part of peninsula</p> <p>Location #2 (Site specific description): Along the fence line</p>	<p>COMMENTS: Boom sprayed for a little when broken. Out of chemical at 3pm, fan cord also ripped. Bike repairs for the rest of day.</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 06/16/15 **Time (start/stop):** 9am – 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Blackfoot

☐ J. Wilson

☐ A. Crockett

County: Powell

☒ A. Kaiser

☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from E Temp.: 68 °F Humidity: 57 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 24 ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 5.75 gal **Amt. of Chemical Applied:** 0.6 **Acres Treated:** 0.24

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):

Fence line (inside) west from browns lake road access gate.

Location #2 (Site specific description):

COMMENTS:

Spotted knapweed was basal rosette and pre-flowering
Hoary alyssum was pre-flowering and flowering

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 06/16/15 **Time (start/stop):** 12:30pm-4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Blackfoot

☒ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from W Temp.: 79 °F Humidity: 40 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 2 gal **Amt. of Chemical Applied:** 0.18 **Acres Treated:** 0.07

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):

Southwest corner of property bordering browns lake access road and lake

Location #2 (Site specific description):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/16/15 **Time (start/stop):** 1:15pm – 4pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☒ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from W Temp.: 79 °F Humidity: 40 %

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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</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 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 6 gal **Amt. of Chemical Applied:** 0.19 **Acres Treated:** 0.08

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 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 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):

Along fence parallel to highway, westside before pond. Fence along access road from highway to gate

Location #2 (Site specific description):

COMMENTS:

Spotted Knapweed – rosette and pre-flower
 Houndstongue – pre-flower

DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/16/15 **Time (start/stop):** 9am – 2pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from E/NE Temp.: 68 °F Humidity: 57 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</u> |
|--|---|

Equipment Used: ☒ ATV GPA 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 6 oz/ac **Gallons Sprayed:** 5 gal **Amt. of Chemical Applied:** 0.71 **Acres Treated:** 0.12

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Westside, southern portion, near lake</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: Slow going because lots of seedlings in sage</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/17/15 **Time (start/stop):** 8:30am – 3:30 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 57 °F Humidity: 58 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</u> |
|--|---|

Equipment Used: ☒ ATV GPA 74 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 6 oz/ac **Gallons Sprayed:** 9 gal **Amt. of Chemical Applied:** 0.73 **Acres Treated:** 0.12

Vegetation Treated:

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

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

Location #1 (Site specific description):

Large polygon on peninsula and west perimeter of peninsula

Location #2 (Site specific description):

COMMENTS:

Battery died, switched with bike 3. Cleaned filter of tank, nozzle got clogged.

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 06/17/15 **Time (start/stop):** 8:30am – 4 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☒ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 57 °F Humidity: 58 %

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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</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 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5 oz/ac **Gallons Sprayed:** 7.5 gal **Amt. of Chemical Applied:** 0.24 **Acres Treated:** 0.09

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 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 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):

Along E boundary fence (along highway) to E access gate

Location #2 (Site specific description):

COMMENTS:

Houndstongue – pre-flower and some rosettes
Spotted Knapweed – pre-flower

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 06/17/15 **Time (start/stop):** 9am – 4:15 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 57 °F Humidity: 58 %

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 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 checked="" 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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac 4oz/ac</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 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 6 oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.21 **Acres Treated:** 0.04

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 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 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):

Southwest corner of property along browns lake road

Location #2 (Site specific description):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/18/15 **Time (start/stop):** 8am – 11:30 pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 64 °F Humidity: 58 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input checked="" type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</u> |
|--|---|

Equipment Used: ☐ ATV GPA ☐ Handgun ☐ Broadcast
☒ Backpack GPA36 ☐ Mechanical

Chem. Rate: 2.5 oz/ac **Gallons Sprayed:** 3.25 gal **Amt. of Chemical Applied:** 0.23 **Acres Treated:** 0.09

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): North 80 acres, east side</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: New patch of hawkweed verified and treated. Several patches of oxeye were found and treated. Areas found sprayed previously were not re-treated.</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/18/15 **Time (start/stop):** 8am – 11:30 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 64 °F Humidity: 58 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</u> |
|--|---|

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 6 oz/ac **Gallons Sprayed:** 6 gal **Amt. of Chemical Applied:** 1.3 **Acres Treated:** 0.21

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Southwest corner of property bordering browns lake road and the lake</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS:</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 06/18/15 **Time (start/stop):** 8:30am- 11am

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Blackfoot

☐ J. Wilson

☐ A. Crockett

County: Powell

☐ A. Kaiser

☒ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 64 °F Humidity: 58 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☒ ATV GPA 74 ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☐ Mechanical

Chem. Rate: 6 oz/ac **Gallons Sprayed:** 7 gal **Amt. of Chemical Applied:** 0.57 **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):

Large polygon of peninsula

Location #2 (Site specific description):

COMMENTS:

Could have potentially boom sprayed some areas

DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/18/15 **Time (start/stop):** 8:30am- 11:30am **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 64 °F Humidity: 58 %

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

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

Equipment Used: ☒ ATV GPA 24 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 2.5 oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.1 **Acres Treated:** 0.04

Vegetation Treated:

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

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

Location #1 (Site specific description):

Northern fence, to the east of the creek, before big hill

Location #2 (Site specific description):

COMMENTS:

Spotted was mostly basal rosette with some almost flowering. Houndstongue was flowering. Sprayed and flower heads were removed.

DAILY PESTICIDE APPLICATION RECORD

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

Date: 06/18/15 **Time (start/stop):** 10:30am-11:30am **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☒ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 64 °F Humidity: 58 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</u> |
|--|---|

Equipment Used: ☒ ATV GPA 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 6 oz/ac **Gallons Sprayed:** 0.5 gal **Amt. of Chemical Applied:** 0.038 **Acres Treated:** 0.006

Vegetation Treated:

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

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

Location #1 (Site specific description):

N boundary fence, access gate near W side (after creek) worked along N fence and then down W fence a little ways

Location #2 (Site specific description):

COMMENTS:

Remixed from chaparral to milestone

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 06/18/15 **Time (start/stop):** 8:30am- 10am

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Blackfoot

☐ J. Wilson

☒ A. Crockett

County: Powell

☐ A. Kaiser

☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from E Temp.: 64 °F Humidity: 58 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☐ ATV GPA_ ☐ Handgun ☐ Broadcast

☒ Backpack GPA 28

☐ Mechanical

Chem. Rate: 2.5 oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.089 **Acres Treated:** 0.036

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 outside perimeter of fence along highway in the cow field

Location #2 (Site specific description):

COMMENTS:

Ran out of chemical, monitored 2 more infestations that I ran into. Clipped seed heads and sprayed.
Bagged seed stalks

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/14/15 **Time (start/stop):** 12:30 – 4pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from W Temp.: 70 °F Humidity: 27 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32oz/ac</u> |
|--|---|

Equipment Used: ☒ ATV GPA 24 ☐ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11 oz/ac **Gallons Sprayed:** 2 gal **Amt. of Chemical Applied:** 0.92 **Acres Treated:** 0.08

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): NE end of NW field on west side of highway</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: Some of the plants are red/look dead.</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/14/15 **Time (start/stop):** 11:45am – 4pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☒ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from W Temp.: 70 °F Humidity: 27 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-tac .1% v/v</u> |
|--|---|

Equipment Used: ☒ ATV GPA 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 6 oz/ac **Gallons Sprayed:** 8 gal **Amt. of Chemical Applied:** 0.6 **Acres Treated:** 0.1

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Near highway, NE part of wpa by big pond</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: Mostly post-flowering, some rosette. Spraying out tank of extra milestone Sprayed on historic point that is now actually a large polygon.</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/14/15 **Time (start/stop):** 1:30pm – 2:30pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☒ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from W Temp.: 70 °F Humidity: 27 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32oz/ac</u> |
|--|---|

Equipment Used: ☒ ATV GPA 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.26 **Acres Treated:** 0.02

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Points in the first fenced off area at access and staging site</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: Plants were starting to turn reddish/orange in some areas</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/14/15 **Time (start/stop):** 2 pm – 2:30pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from W Temp.: 70 °F Humidity: 27 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____

<input type="checkbox"/> Dye Used/Rate:
<input type="checkbox"/> Adjuvant Used: |
|--|---|

Equipment Used: ☐ ATV GPA_ ☐ Handgun ☐ Broadcast
☐ Backpack GPA ☒ Mechanical handpull

Chem. Rate: 11oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.26 **Acres Treated:** 0.02

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Near browns lake road entrance</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: Pulled a few plants found near access gate</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/15/15 **Time (start/stop):** 10am – 4 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 8 MPH, direction from W Temp.: 53 °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 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 checked="" type="checkbox"/> Plateau – BASF #241-365 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10g</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</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 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical h

Chem. Rate: 11oz/ac **Gallons Sprayed:** 15 gal **Amt. of Chemical Applied:** 5.9 **Acres Treated:** 0.53

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):

Historical polygon/points in central section of property

Location #2 (Site specific description):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/15/15 **Time (start/stop):** 9am – 4pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☒ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 8 MPH, direction from W Temp.: 53 °F Humidity: 70 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10g</u>
<input type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</u> |
|--|---|

Equipment Used: ☒ ATV GPA 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 9 gal **Amt. of Chemical Applied:** 2.36 **Acres Treated:** 0.21

Vegetation Treated:

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

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

Location #1 (Site specific description):

Near pond in fenced off pasture where our staging area was

Location #2 (Site specific description):

COMMENTS:

Most all plants were in post-flowering stage. Found one large spot of spurge that wasn't near any historical points

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/15/15 **Time (start/stop):** 10am – 4pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 8 MPH, direction from W Temp.: 53 °F Humidity: 70 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10g</u>
<input type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</u> |
|--|---|

Equipment Used: ☒ ATV GPA 31 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 11 gal **Amt. of Chemical Applied:** 3.9 **Acres Treated:** 0.35

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): E edge of NW field on W side of road</p> <p>Location #2 (Site specific description): </p>	<p>COMMENTS: Most of plants were basal rosettes, only saw a handful that were post-flowering, most plants are small and turning red</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/15/15 **Time (start/stop):** 8:30am-2:00pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 8 MPH, direction from W Temp.: 53 °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 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 checked="" type="checkbox"/> Plateau – BASF #241-365 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10g</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</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 24 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 14 gal **Amt. of Chemical Applied:** 6.4 **Acres Treated:** 0.58

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):

Central area between the two ponds

Location #2 (Site specific description):

COMMENTS:

Most plants were in great basin wildrye or small and lying down. Hard to detect

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/15/15 **Time (start/stop):** 9:00

Location: (NWR or WPA) Blackfoot WPA

County: Powell

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4.6 MPH, direction from South Temp.: 49 °F Humidity: 71 %

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 Tordon @ 32 oz/ac
Overdrive @ 602/ac
- ☒ Dye Used/Rate: Hi-light
- ☒ Adjuvant Used: MSO @ 1pt/ac

Equipment Used: ☒ ATV GPA 13 ☐ Handgun ☒ Broadcast

☐ Backpack GPA

☐ Mechanical

App. Rate: _____ **Gallons Sprayed:** 4 **Amt. of Chemical Applied:** _____ **Acres Treated:** _____

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 type="checkbox"/> Bull thistle | <input type="checkbox"/> Houndstongue | <input type="checkbox"/> Poison hemlock | <input type="checkbox"/> Tansy ragwort |
| <input checked="" 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 checked="" 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):

Started working point-to-point in South side of Hwy for yellow toadflax, once we met Anna and Abra, we moved to North side of Hwy and treated all species from parking area toward gravel pit.

COMMENTS:

ISST found ~ 7 small leafy spurge plants under a pine tree near the gravel pit. It was sprayed by GJM with Plateau and mapped.

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/5 **Time (start/stop):** 9:00 - 3:00 **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Blackfoot ☒ G. McClure ☐ K. Schuetz
County: Powell ☐ B. Sparklin

Weather Conditions: Wind: _____ MPH, direction from _____ Temp.: _____ °F Humidity: _____ %

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 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 checked="" type="checkbox"/> Plateau – BASF #241-365 | <input checked="" type="checkbox"/> Dye Used/Rate: 4:1:10 |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: ASO @ 1 pint/ac |
| <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 88 ☒ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 1/162/1 **Gallons Sprayed:** 1 **Amt. of Chemical Applied:** 0.13 **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):

See L.M.

COMMENTS:

start 10
end 9
1

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-15-15 **Time (start/stop):** 9:00-3:00

Location: (NWR or WPA) Blackfoot WPA

County: _____

Applicators/Operator: ☐ L. Morgan
☐ G. McClure ☒ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: 4.6 MPH, direction from South Temp.: 49 °F Humidity: 71 %

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 Tordon @ 32oz / Ac
Overdrive @ 60oz / Ac
- ☒ Dye Used/Rate: Hi Light
- ☒ Adjuvant Used: MSO 1yt / Ac

Equipment Used: ☒ ATV GPA 13.06 ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: T 32 / Ac
O 6 / Ac **Gallons Sprayed:** 2g **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 checked="" type="checkbox"/> Hoary alyssum | <input type="checkbox"/> Perennial pepperweed | <input type="checkbox"/> Tall buttercup |
| <input 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 checked="" 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):

point to point historical YT
sites then NW corner
for all other species and YT

COMMENTS:

Start 9g
End 7g
Total 2g

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-15 **Time (start/stop):** 9⁰⁰ - 3⁰⁰ p **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Blackfoot ☒ G. McClure ☐ K. Schuetz
County: Powell ☐ B. Sparklin

Weather Conditions: Wind: _____ MPH, direction from _____ Temp.: _____ °F Humidity: _____ %

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 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 type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>4.1.10</u> |
| <input type="checkbox"/> Tordon & Telar XP | <input checked="" type="checkbox"/> Adjuvant Used: <u>M80</u> |
| <input type="checkbox"/> Transline – Dow AgroSciences #62719-259 | |
| <input checked="" type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | |

Equipment Used: ☒ ATV GPA 10.0X ☐ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 3.2 gal **Gallons Sprayed:** 9 **Amt. of Chemical Applied:** 28.602 **Acres Treated:** _____

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 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 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):

See L.M.

COMMENTS:

Site 9
ord 0
9

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/16/15 **Time (start/stop):** 8:00am-2:00pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Blackfoot

☒ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from _ Temp.: 49°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: Highlight 3oz/10g
- ☒ Adjuvant Used: MSO 16 oz/ac

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac, D:6oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** T:1.1 D: 0.2 **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 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):

SE corner of property near the river

Location #2 (Site specific description):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/16/15 **Time (start/stop):** 8:00am-2:00pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 49°F Humidity: 70%

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

- | | |
|--|--|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10g</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</u> |
|--|--|

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 10 gal **Amt. of Chemical Applied:** 3.9 **Acres Treated:** 0.4

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Central portion of property to the west of the pond</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS:</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/16/15 **Time (start/stop):** 8:00am-2:00pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 49°F Humidity: 70%

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

- | | |
|--|--|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10g</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</u> |
|--|--|

Equipment Used: ☒ ATV GPA 31 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 7 gal **Amt. of Chemical Applied:** 2.4 **Acres Treated:** 0.22

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): W spur of property near browns lake</p> <p>Location #2 (Site specific description): N and W of NW pond</p>	<p>COMMENTS: Spurge – rosette, flowering, post-flowering Yellow Toadflax – rosette, flowering and post-flowering</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/16/15 **Time (start/stop):** 11am -1pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 49°F Humidity: 70%

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

- | | |
|--|--|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10g</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</u> |
|--|--|

Equipment Used: ☒ ATV GPA 24 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.11 **Acres Treated:** 0.01

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): South of large pond below fence and east of southern most pond</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: 2 points treated, plants were grazed heavily</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/16/15 **Time (start/stop):** 10 am – 4 pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Blackfoot

☐ J. Wilson

☐ A. Crockett

County: Powell

☐ A. Kaiser

☒ D. Miller

Weather Conditions: Wind: 0 MPH, direction from _ Temp.: 49°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: Highlight 3oz/10g

☒ Adjuvant Used: MSO 32 oz/ac

Equipment Used: ☒ ATV GPA 43 ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 4 gal **Amt. of Chemical Applied:** 1.02 **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):

NE corner, points just NE of largest polygon (N of pond)

Location #2 (Site specific description):

COMMENTS:

Also saw houndstongue, spotted knapweed, yellow toadflax, and mullen

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/16/15 **Time (start/stop):** 8 am – 1 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☒ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 49°F Humidity: 70%

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

- | | |
|--|--|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10g</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</u> |
|--|--|

Equipment Used: ☒ ATV GPA 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11oz/ac **Gallons Sprayed:** 7 gal **Amt. of Chemical Applied:** 0.99 **Acres Treated:** 0.09

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Finished area by pond in first pasture (leafy spurge)</p> <p>Location #2 (Site specific description): Worked corridor between 2 ponds by highway (Yellow toadflax)</p>	<p>COMMENTS: YT was basal rosette, only sprayed 2 small patches</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/17/15 **Time (start/stop):** 9:45am – 1 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from E Temp.: 38 °F Humidity: 83 %

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 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 checked="" type="checkbox"/> Plateau – BASF #241-365 | <input type="checkbox"/> Dye Used/Rate: |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: |
| <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 ☐ Handgun ☐ Broadcast
☐ Backpack GPA ☒ Mechanical handpull

Chem. Rate: ____ **Gallons Sprayed:** ____ **Amt. of Chemical Applied:** ____ **Acres Treated:** <1ac

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 checked="" 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 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):

SE corner of property near river

Location #2 (Site specific description):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/17/15 **Time (start/stop):** 9:45am – 1 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from E Temp.: 38 °F Humidity: 83 %

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

- | | |
|---|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</u> |
|---|---|

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical [Click here to enter text.](#)

Chem. Rate: T:32 D:6oz/ac **Gallons Sprayed:** 2 **Amt. of Chemical Applied:** T:2.28 D:0.42 **Acres Treated:** 0.07

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): SE corner of property near river and historical polygon near wpa entrance</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS:</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/17/15 **Time (start/stop):** 10 am – 1 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from E Temp.: 38 °F Humidity: 83 %

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 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 checked="" type="checkbox"/> Plateau – BASF #241-365 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</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 31 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical [Click here to enter text.](#)

Chem. Rate: 11 oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.35 **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 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 checked="" 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):

Middle of field to the W of N pond

Location #2 (Site specific description):

COMMENTS:

Spurge was turning red, most basal rosette
Toadflax plants were really small, mostly rosettes, some
post flowering

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/17/15 **Time (start/stop):** 10 am – 1:30 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 1 MPH, direction from E Temp.: 38 °F Humidity: 83 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix |
| <input 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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</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 43 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 7 gal **Amt. of Chemical Applied:** T:5.2 D:0.98 Acres
Treated: 0.16

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 checked="" 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):

Along middle fence, border of points/polygons
 "priority field"

Location #2 (Site specific description):

East of North section split by fence, towards and
 up to parking area

COMMENTS:

Very small plants, toadflax. Few missed spurge plants were
 treated

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-23 Time (start/stop): 9⁰⁰ a - 3⁰⁰ p

Location: (NWR or WPA) Blackfoot

County: Powell

Applicators/Operator: ☐ L. Morgan

☒ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 8 MPH, direction from — Temp.: 51 °F Humidity: 79 %

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: 4-Lite

☐ Adjuvant Used: Sulfox

Equipment Used: ☒ ATV GPA 98 ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☐ Mechanical _____

App. Rate: 7.2/gal Gallons Sprayed: 4 Amt. of Chemical Applied: 0.32oz Acres Treated: _____

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 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 type="checkbox"/> Leafy spurge | <input checked="" 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):

See map and L.M.

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 09-23-15 Time (start/stop): 730-300

Location: (NWR or WPA) Blackfoot WPA

County: Powell

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 0 MPH, direction from — Temp.: 51 °F Humidity: 79 %

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: HiLight

☒ Adjuvant Used: SyLTac

Equipment Used: ☒ ATV GPA 98 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7oz/gal Gallons Sprayed: 11g Amt. of Chemical Applied: 0.78 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):

COMMENTS:

Sprayed South Parking lot
On north section sprayed
along Highway fence line

Start 11g
End 11g
Total 11g

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

406-544-2552

Date: 09-23-15 Time (start/stop): 7:30-3:30
 Location: (NWR or WPA) Blackfoot WPA
 County: Lowell
 Weather Conditions: Wind: 0 MPH, direction from — Temp.: 51 °F Humidity: 79 %
 Applicators/Operator: ☐ L. Morgan
☐ G. McClure ☒ K. Schuetz
☐ B. Sparklin

- ☐ 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: Light
☒ Adjuvant Used: Syltec

Equipment Used: ☒ ATV GPA 16 ☐ Handgun ☒ Broadcast
☐ Backpack GPA ☐ Mechanics

App. Rate: 7.02 lb Gallons Sprayed: 60 Amt. of Chemical Applied: 26.25 Acres Treated: 1.0

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 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 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):

COMMENTS:

Stk A	10g	add 20
Add	10g	add 20
Add	10g	
Add	10g	
Add	10g	
Add	10g	
Add	10g	

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/23/15 Time (start/stop): 730 - 9300 Applicators/Operator: ☒ L. Morgan
Location: (NWR or WPA) Blackfoot WPA ☐ G. McClure ☐ K. Schuetz
County: Powell ☐ B. Sparklin
Weather Conditions: Wind: 0 MPH, direction from — Temp.: 51 °F Humidity: 79 %

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 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 checked="" 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</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syl-Tac</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 _____ ☐ Handgun ☐ Broadcast
☒ Backpack GPA 10 ☐ Mechanical _____

App. Rate: 10E/ac Gallons Sprayed: 1.5 Amt. of Chemical Applied: 0.0802 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 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 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):

Sprayed houndstongue in SE corner of WPA From top of the bank to Oxbow & Rivers edge.

COMMENTS:

3 crew members first surveyed and mapped the area, LM then returned with backpack sprayer and sprayed the infestations.

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/23/15 Time (start/stop): 9300 - 3⁰⁰

Location: (NWR or WPA) Blackfoot WPA

County: Powell

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 0 MPH, direction from — Temp.: 51 °F Humidity: 79 %

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

Equipment Used: ☒ ATV GPA 13 ☐ Handgun ☒ Broadcast

☐ Backpack GPA

☐ Mechanical

App. Rate: 7oz/ac Gallons Sprayed: 73 Amt. of Chemical Applied: 91.3oz 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):

Boom sprayed Spotted Knapweed on the North side of the Hwy. Started at parking area and worked West to county road, sprayed from road to WPA fence all the way to the WPA entrance gate. Sprayed to passes of interior of WPA back to parking area.

COMMENTS:

Start	End	total
8	0	8
20	0	28
20	0	48
20	0	68
5	5	73

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

406-544-2552

Date: 9-23 Time (start/stop): _____
 Location: (NWR or WPA) Blackfoot
 County: Powell

Applicators/Operator: ☐ L. Morgan
☒ G. McClure ☐ K. Schuetz
☐ B. Sparklin

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

- Equipment Used:** ☒ ATV GPA 10.08 ☐ Handgun ☒ Broadcast
☐ Backpack GPA ☐ Mechanical

Vegetation Treated:

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

COMMENTS:

See map and L.M.

start	End	T
20	0	16 0
20	0	
20	0	
20	0	
20	0	
20	0	
20	0	
10		

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/28/15 **Time (start/stop):** 2 pm – 4 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 1 MPH, direction from NW Temp.: 75 °F Humidity: 22 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix |
| <input 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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</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 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 3 gal **Amt. of Chemical Applied:** T:2.2 D:0.43 **Acres Treated:** 0.07

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 checked="" 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

<p>Location #1 (Site specific description): NE gate/parking area, just SE of parking area</p> <p>Location #2 (Site specific description): Central/SW of parking area before middle fence</p>	<p>COMMENTS: Very small plants, tight transect lines . Poor visibility</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/28/15 **Time (start/stop):** 2 pm – 4 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from NW Temp.: 75 °F Humidity: 22 %

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

- | | |
|---|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</u> |
|---|---|

Equipment Used: ☒ ATV GPA 118 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 2 gal **Amt. of Chemical Applied:** T:0.54 D:0.1 **Acres Treated:** 0.01

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Along fence, E side into field below electric fence, middle of refuge</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: Both spurge and toadflax were leaf-on</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/28/15 **Time (start/stop):** 1:30 pm – 4 pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from NW Temp.: 75 °F Humidity: 22 %

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

- | | |
|--|--|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</u> |
|--|--|

Equipment Used: ☒ ATV GPA 24 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11 oz/ac **Gallons Sprayed:** 6 gal **Amt. of Chemical Applied:** 2.75 **Acres Treated:** 0.25

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): SE area, south of central pond east of large southernmost pond</p> <p>Location #2 (Site specific description):</p>	<p>COMMENTS: Very small plants found 1in.-1.5 tall patches</p>
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DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/29/15 **Time (start/stop):** 9 am -4 pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 75 °F Humidity: 23 %

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

- | | |
|--|--|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input checked="" type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 32 oz/ac</u> |
|--|--|

Equipment Used: ☒ ATV GPA 24 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: 11 oz/ac **Gallons Sprayed:** 6 gal **Amt. of Chemical Applied:** 2.75 **Acres Treated:** 0.25

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): South central area east of large pond</p> <p>Location #2 (Site specific description): East side of wpa</p>	<p>COMMENTS: Several patches found but they were very small (<1in. tall) and hard to see. Area covered very slowly</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/29/15 **Time (start/stop):** 1pm – 4:15 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 34 °F Humidity: 60 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix |
| <input 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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</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 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 2 gal **Amt. of Chemical Applied:** T:0.82 D: 0.2 **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 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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

South central area near fence line

Location #2 (Site specific description):

South east corner near the river

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/29/15 **Time (start/stop):** 9 am – 4 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 34 °F Humidity: 60 %

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

- | | |
|---|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365
<input type="checkbox"/> Chaparral – Dow #62719-597
<input type="checkbox"/> Curtail – Dow AgroSciences #62719-48
<input type="checkbox"/> EscortXP – DuPont #352-439
<input type="checkbox"/> Habitat – BASF #241-426
<input type="checkbox"/> Metcel VMF– Agsurf #352-439-8558
<input type="checkbox"/> Milestone – Dow AgroSciences #62719-519
<input type="checkbox"/> Plateau – BASF #241-365
<input type="checkbox"/> Telar XP – DuPont #352-654
<input type="checkbox"/> Tordon & Telar XP
<input type="checkbox"/> Transline – Dow AgroSciences #62719-259
<input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix
Dow AgroSciences #62719-6 / BASF #7969-150
<input type="checkbox"/> Metcel & Milestone – Tank Mix
Agsurf #352-439-8558 / Dow AgroSciences #62719-519
<input type="checkbox"/> Escort XP & Milestone – Tank Mix
DuPont #352-439 / Dow AgroSciences #62719-519
<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Dye Used/Rate: <u>Highlight 3oz/10gal</u>
<input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</u> |
|---|---|

Equipment Used: ☒ ATV GPA 118 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 8 gal **Amt. of Chemical Applied:** T:2.1 D:0.4 **Acres Treated:** 0.06

Vegetation Treated:

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

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

<p>Location #1 (Site specific description): Along middle fence, E side, S of electric fence to bottom fence</p> <p>Location #2 (Site specific description): NE corner of property to top of ponds</p>	<p>COMMENTS: Mostly sprayed toadflax, it was leaf-on or senesced Spurge was leaf-on</p>
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DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/29/15 **Time (start/stop):** 10 am – 4:15 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 0 MPH, direction from __ Temp.: 34 °F Humidity: 60 %

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

- | | |
|--|--|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix |
| <input 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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: MSO 16 oz/ac |
| <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 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 8 gal **Amt. of Chemical Applied:** T:6 D: 1.14 Acres
Treated: 0.19

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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

Priority area (south of parking area, central wpa)

Location #2 (Site specific description):

COMMENTS:

Toadflax was small and red/yellow/green
Spent some time calculating for backpack mixtures added to bikes

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/30/15 **Time (start/stop):** 9:30 am – 11 am **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from SW Temp.: 49 °F Humidity: 45 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix |
| <input 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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</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 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** T:0.4 D: 0.08 **Acres Treated:** 0.01

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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

SE corner near river and highway

Location #2 (Site specific description):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/30/15 **Time (start/stop):** 9:45am – 3:30pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from SW Temp.: 49 °F Humidity: 45 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix |
| <input 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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</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 118 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 5 gal **Amt. of Chemical Applied:** T:1.3 D: 0.25 **Acres Treated:** 0.04

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 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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

NE corner above ponds, SW side of road

Location #2 (Site specific description):

Center of wpa SE of road

COMMENTS:

Location 1 was toadflax, leaf-on or senesced

Location 2 was spotted knapweed, basal rosette or senesced

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/30/15 **Time (start/stop):** 2 pm – 3 pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from SW Temp.: 49 °F Humidity: 45 %

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

- | | |
|--|--|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix |
| <input 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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: MSO 16 oz/ac |
| <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 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

Chem. Rate: T:32oz/ac D:6 **Gallons Sprayed:** 11 gal **Amt. of Chemical Applied:** T:4.5 D: 0.84 **Acres Treated:** 0.14

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 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 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):

SE corner near river and highway

Location #2 (Site specific description):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

Date: 09/30/15 **Time (start/stop):** 9 am – 3pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 1 MPH, direction from SW Temp.: 49 °F Humidity: 45 %

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

- | | |
|--|---|
| <input type="checkbox"/> Aquaneat – NuFarm #228-365 | <input checked="" type="checkbox"/> Tordon & Distinct – Tank Mix |
| <input 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>Highlight 3oz/10gal</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO 16 oz/ac</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: T:32oz/ac D:6 **Gallons Sprayed:** 60 gal **Amt. of Chemical Applied:** T:147.7 D: 27.7 **Acres Treated:** 4.62

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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

Large polygons just south of parking area, north central wpa

Location #2 (Site specific description):

COMMENTS:

Small plants, some yellow/red

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/30/15 **Time (start/stop):** 3 pm – 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Blackfoot

☐ J. Wilson

☐ A. Crockett

County: Powell

☐ A. Kaiser

☒ D. Miller

Weather Conditions: Wind: 1 MPH, direction from SW Temp.: 49 °F Humidity: 45 %

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: Highlight 3oz/10gal

☐ Adjuvant Used:

Equipment Used: ☒ ATV GPA 13 ☐ Handgun ☒ Broadcast

☐ Backpack GPA

☐ Mechanical

Chem. Rate: 32 oz/ac **Gallons Sprayed:** 10 gal **Amt. of Chemical Applied:** 24.6 **Acres Treated:** 0.77

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):

Along the fence and in from the gate on the road between the two ponds

Location #2 (Site specific description):

COMMENTS:

Lots of dead stalks

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 09/30/15 **Time (start/stop):** 9:30 am – 11 am **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Blackfoot ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from SW Temp.: 49 °F Humidity: 45 %

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 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 type="checkbox"/> Dye Used/Rate: |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: |
| <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 ☐ Handgun ☐ Broadcast
☐ Backpack GPA ☒ Mechanical handpull

Chem. Rate: _____ **Gallons Sprayed:** _____ **Amt. of Chemical Applied:** _____ **Acres Treated:** 0.25

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 checked="" 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 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):

Along browns lake road

Location #2 (Site specific description):

COMMENTS:

Pulled all plants found including rosettes. Removed about half a contractor bag full



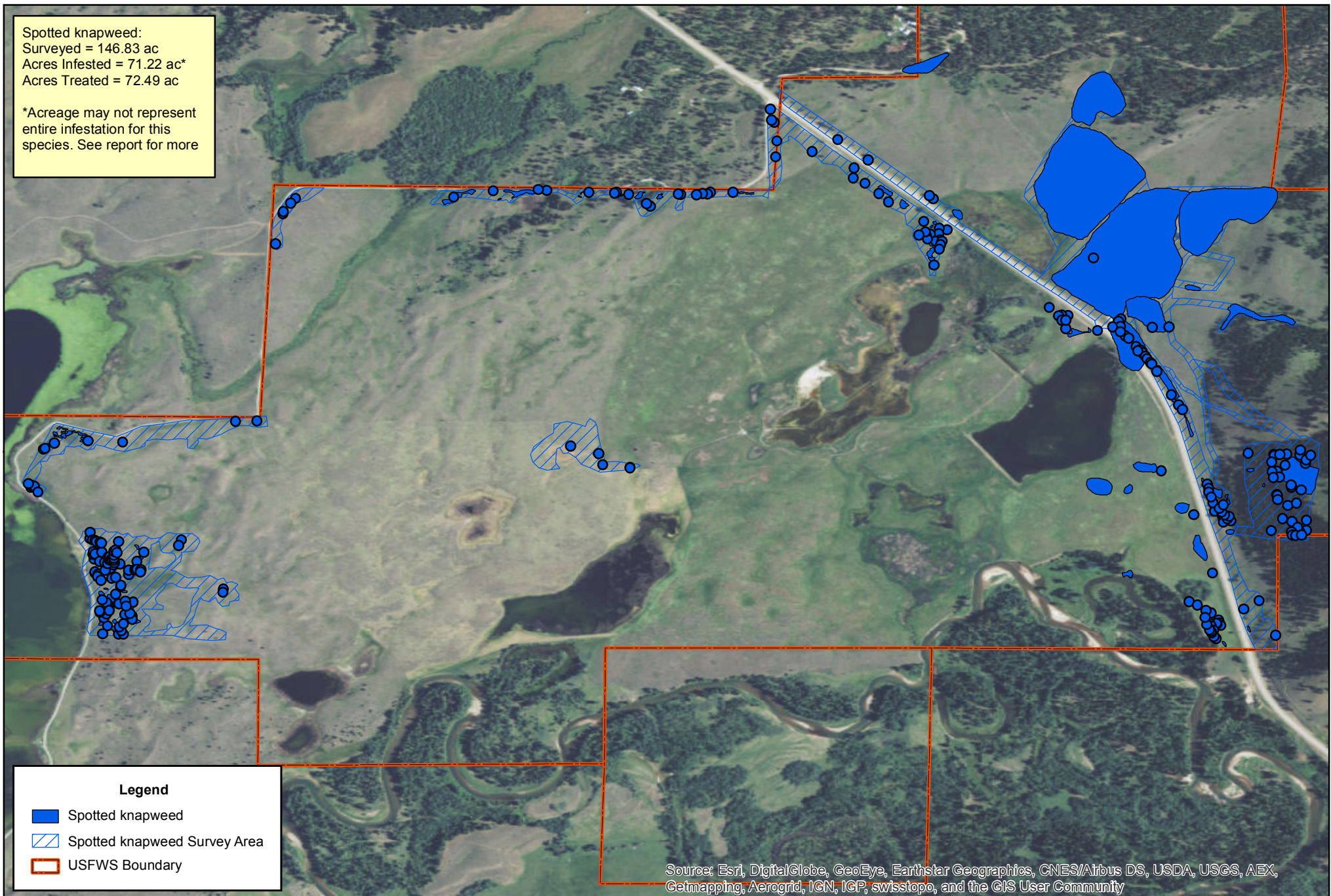
U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Blackfoot WPA - 2015 Survey Acres Infested

Spotted knapweed:
Surveyed = 146.83 ac
Acres Infested = 71.22 ac*
Acres Treated = 72.49 ac

*Acreage may not represent
entire infestation for this
species. See report for more



Reference image from ESRI ArcMap Basemap Imagery

1 of 7 Maps



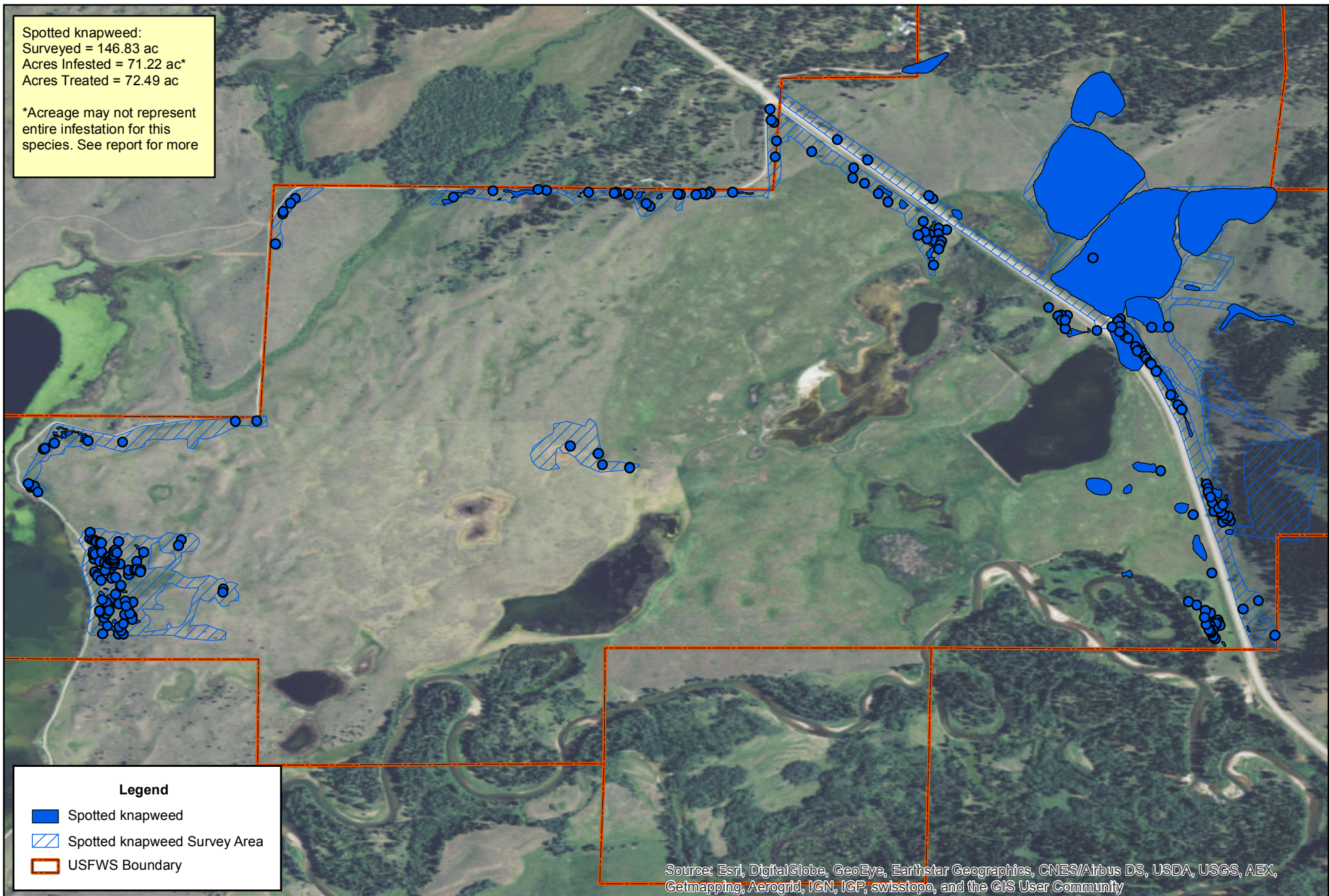
U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Blackfoot WPA - 2015 Survey Acres Treated

Spotted knapweed:
Surveyed = 146.83 ac
Acres Infested = 71.22 ac*
Acres Treated = 72.49 ac

*Acreage may not represent
entire infestation for this
species. See report for more



Reference image from ESRI ArcMap Basemap Imagery

2 of 7 Maps



U.S. Fish & Wildlife Service

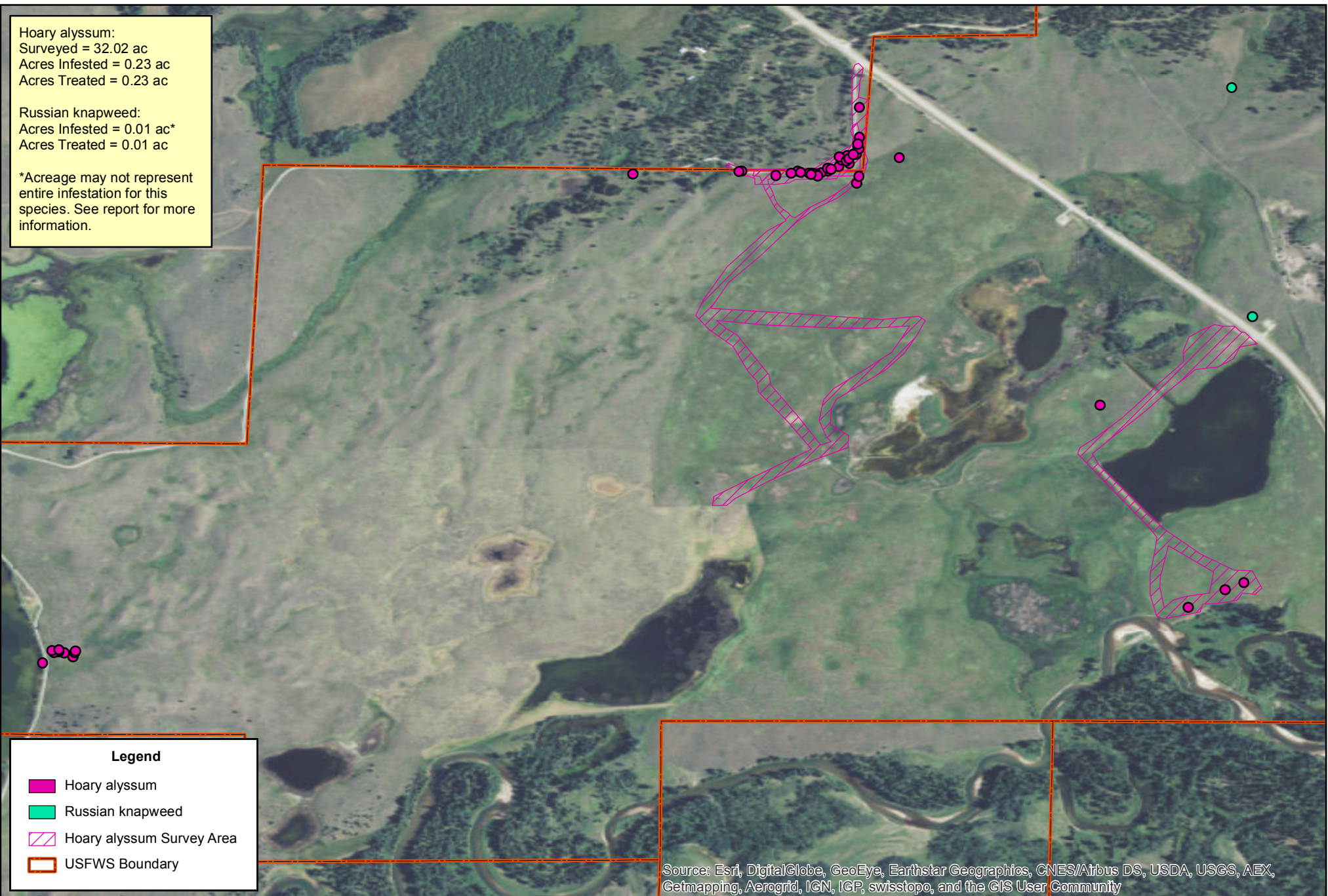
MOYOCO Invasive Species Strike Team

Blackfoot WPA - 2015 Survey Acres Infested & Treated





Hoary alyssum:
Surveyed = 32.02 ac
Acres Infested = 0.23 ac
Acres Treated = 0.23 ac

Russian knapweed:
Acres Infested = 0.01 ac*
Acres Treated = 0.01 ac

*Acreage may not represent
entire infestation for this
species. See report for more
information.



Legend

-  Hoary alyssum
-  Russian knapweed
-  Hoary alyssum Survey Area
-  USFWS Boundary

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



0 0.25 0.5 1 Miles

Reference image from ESRI ArcMap Basemap Imagery

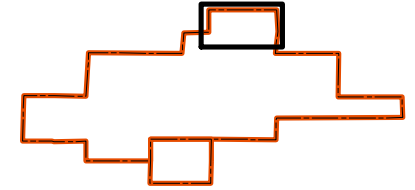
3 of 7 Maps



Oxeye daisy:
Surveyed = 26.06 ac
Acres Infested = 0.76 ac*
Acres Treated = 0.80 ac

Acreage may not represent
entire infestation for this
species. See report for more
information.

Area of Detail



Legend

- Oxeye daisy
- Oxeye daisy Survey Area
- USFWS Boundary

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



Reference image from ESRI ArcMap Basemap Imagery



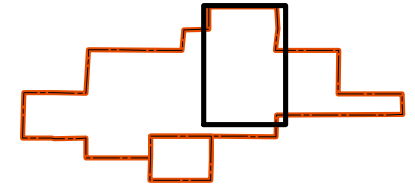
U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Blackfoot WPA - 2015 Survey Acres Infested & Treated

Meadow hawkweed:
Surveyed = 1.50 ac
Acres Infested = 0.01 ac
Acres Treated = 0.005 ac

Area of Detail



Legend

- Meadow hawkweed
- Meadow hawkweed Survey Area
- USFWS Boundary

Not 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

5 of 7 Maps



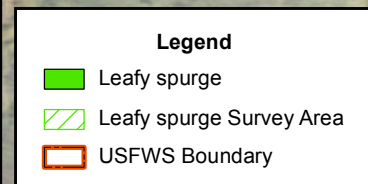
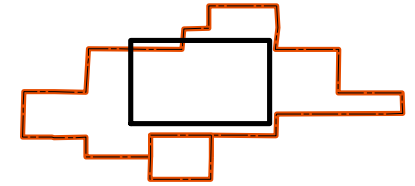
U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Blackfoot WPA - 2015 Survey Acres Infested & Treated

Leafy spurge:
Surveyed = 120.61 ac
Acres Infested = 3.04 ac
Acres Treated = 3.84 ac

Area of Detail



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

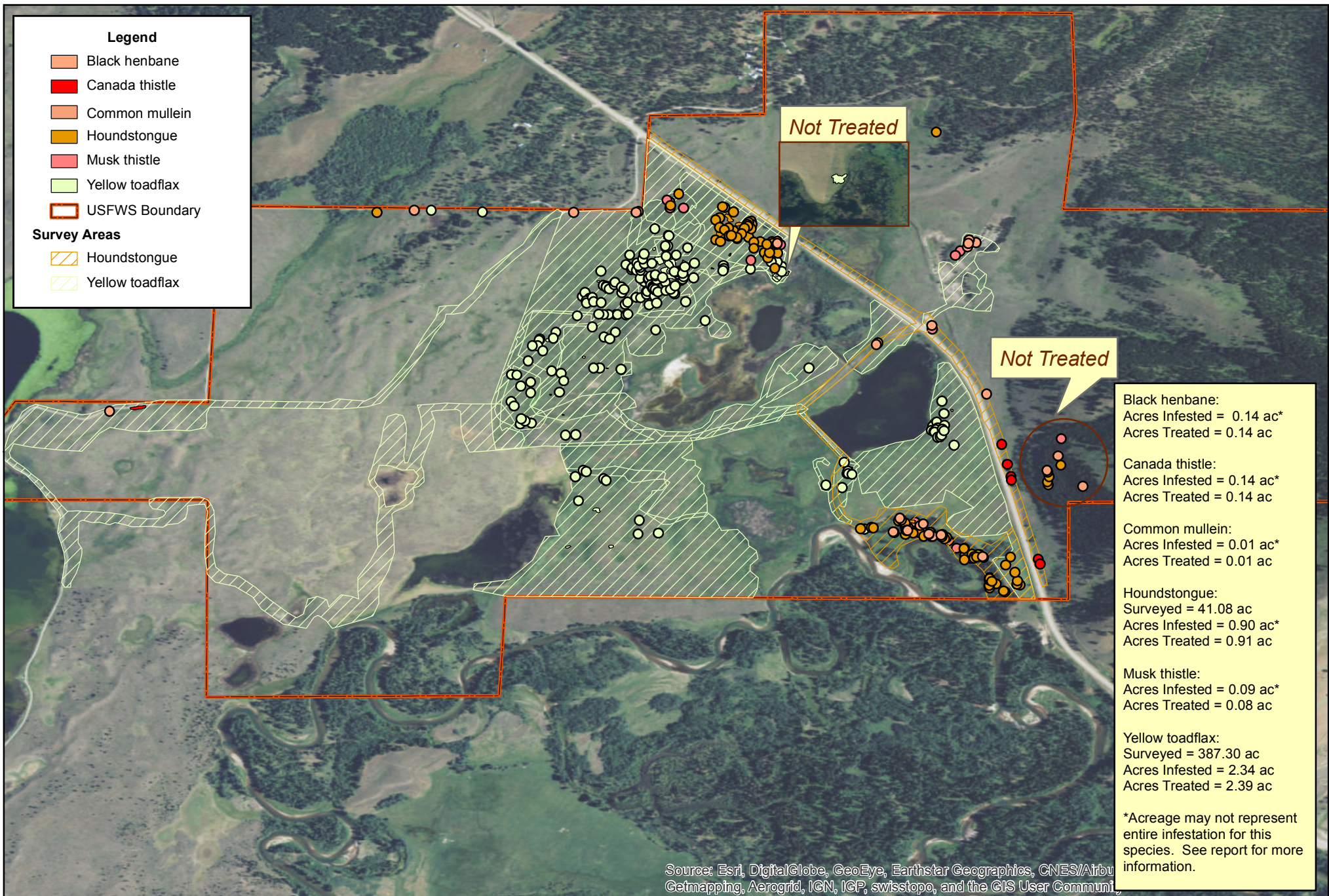
6 of 7 Maps



U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Blackfoot WPA - 2015 Survey Acres Infested & Treated



0 0.25 0.5 1 Miles

Reference image from ESRI ArcMap Basemap Imagery

7 of 7 Maps

Benton Lake Wetland Management District

Furnell WPA

Benton Lake ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Surveyed Acres Infested ²	Acres Treated ³
Spotted knapweed	1337.02	7.34	7.34
Project Site Totals	1337.02	7.34	7.34
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ The area or subset of infested area that has received some form of treatment as measured by GPS feature.			

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
June 3, 2015	EDRR	Spotted knapweed	3	Surveyed adjacent to known infestations and 100m buffer out from road.
August 31, 2015	EDRR	Spotted knapweed	2	Began surveying the WPA in areas that haven't previously been surveyed for noxious weeds.
September 1-2, 2015	EDRR	Spotted knapweed	2	Point-to-point chemical and mechanical treatment of previously mapped and treated infestations. Expand survey area from August 2014 visit.

Coordination and Cooperation

- Scheduling and treatment priorities were developed from proposals and discussions with WMD Manager, Jim Lange.
 - Conducted an arrival and exit interview with Jim Lange concerning spotted knapweed chemical treatments.

Prevention and Education

- This site requires monitoring for new satellite infestations and species because the road passing through the WPA is a vector.
- Spotted knapweed was targeted on this site to prevent its further spread to surrounding areas.

Early Detection and Rapid Response

- Early detection and rapid response treatment of weeds is critical to keep large tracts of land free of invasive and noxious species that degrade wildlife habitat.
- In 2014, Jim Lange located the infested area, documented the area on a map, and relayed the information to ISST. ISST deemed the invasion a priority and began surveys and chemical treatments immediately.

Inventory and Monitoring

- GPS data were collected by ISST to provide information on patch size and locations of application. The GPS track logs, provided by ISST showing these locations, were used to digitize the survey area and calculates the estimated survey area acres.
- ISST members searched 1337.02 acres within Furnell WPA for spotted knapweed.

Management

- ISST treated 7.34 acres of spotted knapweed over two visits in 2015.
 - June 3, 2015, ISST visited all historic infestations within the WPA boundary and between the gravel road and WPA fence line.
 - The areas that were treated in 2014 had little to no regrowth present on 6/3/2015. The historical patches had old dead stalks, but basal plants were sparse if present at all.
 - On August 31, 2015, Two ISST crew members began surveying the Northeast portion of the WPA; no new infestations were found.
 - September 1-2, 2015 consisted of monitoring June 2015 treatments and surveying the Northwest portion of the WPA; 6/3/2015 treatments appeared to be effective.
 - Other than the historical data at Furnell WPA, only two additional patches of spotted knapweed were located, chemically treated, and GPS mapped. The acreage of the two patches was 5.2 acres and 0.42 acres. Both are located near the road cutting through the East side of the WPA.
- All ISST activities in the Benton Lakes WMD were conducted point-to-point around historic observations of known weed populations at the request of the WMD Manager. Although this minimizes disturbance to the site, it reduces the ability of the ISST to detect new populations before they become established on the rest of the WPA. It also dramatically limits the scope of weed mapping data for tracking invasive species population size over time and prevents the use of these data for rigorously determining effectiveness or supporting adaptive management strategies. Additional resources and methodologies will be required by refuge staff to now determine or answer these types of questions.

Herbicide Applied

- ISST chemically treated spotted knapweed with 5.26 ounces of *Milestone*.

Recommendations

- The follow up visit in August/September showed that initial spotted knapweed treatments in June were effective on the infestations within the WPA, chemical treatments should be continued to further reduce infestations and patch sizes.
- The road passing through the WPA is a proven vector for spotted knapweed invasion on the WPA. Two visits in 2016 should be considered and scheduled to ensure the already established populations do not spread further toward the interior of the WPA.

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6/3/15 Time (start/stop): 9:00 - 1:30

Location: (NWR or WPA) Furnell WPA

County: Toole

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 3.8 MPH, direction from South Temp.: 59 °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: Shield

☐ Adjuvant Used: SYL-TAC

Equipment Used: ☒ ATV GPA _____ ☐ Handgun ☒ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7oz/bc Gallons Sprayed: 5 Amt. of Chemical Applied: 2.95oz 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):

Visited all historic infestations on WPA & along roadside.

COMMENTS:

Historical infestation that were treated in 2014 had little to no regrowth present on 6/3/15. Patches had old dead stalks, but basals were sparse if present at all.

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-3-15 Time (start/stop): 900 - 1200

Location: (NWR or WPA) Funell WPA

County: Bozeman

Applicators/Operator: ☐ L. Morgan
☒ G. McClure ☐ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: 38 MPH, direction from S Temp.: 89 °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 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 checked="" 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>1 lb / 100</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Sy 1 + 100</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 _____

App. Rate: 70% Gallons Sprayed: 5 Amt. of Chemical Applied: 35 Acres Treated: _____

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 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 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):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-3-15 **Time (start/stop):** 9:00-1130

Location: (NWR or WPA) Furnell WPA

County: Booke

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 3.8 MPH, direction from South Temp.: 59 °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: Shield

☐ Adjuvant Used: Syl Tec

Equipment Used: ☐ ATV GPA 8.4 ☐ Handgun ☒ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 8.4 **Gallons Sprayed:** 1 **Amt. of Chemical Applied:** 0.12 **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):

See L 41

COMMENTS:

Mgmt Checkant did not work

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-1-15 Time (start/stop): 8:00 - 4:00

Location: (NWR or WPA) Furnell WPA

County: Liberty

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4 MPH, direction from South Temp.: 55 °F Humidity: 38 %

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: Highlight

☒ Adjuvant Used: Sytnac

Equipment Used: ☒ ATV GPA 80 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7oz/Ac Gallons Sprayed: 8 Amt. of Chemical Applied: 0.7 Acres Treated: 0.7

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):

8-31-15 - Surveyed NE part
no new infestations
9-1-15 Surveyed remainder
of NE quadrant, monitored
spring treatment - very effective

COMMENTS:

9-3-15 surveyed NW quadrant bandnotes Canada thistle, bull thistle, musk

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-1-15 **Time (start/stop):** _____ **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Furner ☒ G. McClure ☐ K. Schuetz
County: 1 ☐ B. Sparklin
Weather Conditions: Wind: 4 MPH, direction from S Temp.: 55 °F Humidity: 38 %

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 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 checked="" 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 Lite</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>SyThac</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 88 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 70% **Gallons Sprayed:** 6 **Amt. of Chemical Applied:** 0.48 **Acres Treated:** _____

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 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 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):

Surveyed East Side of road, starting at NE corner of refuge. Surveyed and sprayed both sides of road. Discovered some new patches adjacent to known infections.

COMMENTS:

Start / End / Total
10 / 4 / 6 gal

DAILY PESTICIDE APPLICATION RECORD
US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-2-15 **Time (start/stop):** 7:30-3:45

Location: (NWR or WPA) Furnell WPA

County: Liberty

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 3 MPH, direction from South Temp.: 69 °F Humidity: 36 %

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: Highlight
☒ Adjuvant Used: SyTae

Equipment Used: ☒ ATV GPA 80 ☐ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7oz/Ac **Gallons Sprayed:** 5 **Amt. of Chemical Applied:** 0.44 **Acres Treated:** 02

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 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 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):

COMMENTS:

Southeastern quadrant and
access road with some western
section bordering property lines
bull thistle and Canada thistle

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: *9-2-15* **Time (start/stop):** *7³⁰ 3:45*

Location: (NWR or WPA) *Furnell*

County: _____

Applicators/Operator: ☐ L. Morgan
☒ G. McClure ☐ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: *3* MPH, direction from *S* Temp.: *64* °F Humidity: *36* %

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 Lite*
☒ Adjuvant Used: *Syltac*

Equipment Used: ☒ ATV GPA *88* ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: *70%* **Gallons Sprayed:** *4* **Amt. of Chemical Applied:** *0.37* **Acres Treated:** _____

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 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 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):

*Finished survey of east side of refuge, surveyed
Furnell Ed. and then a buffer zone
around west fence line.*

COMMENTS:

*Shot 4
and 8 taken 4/5*

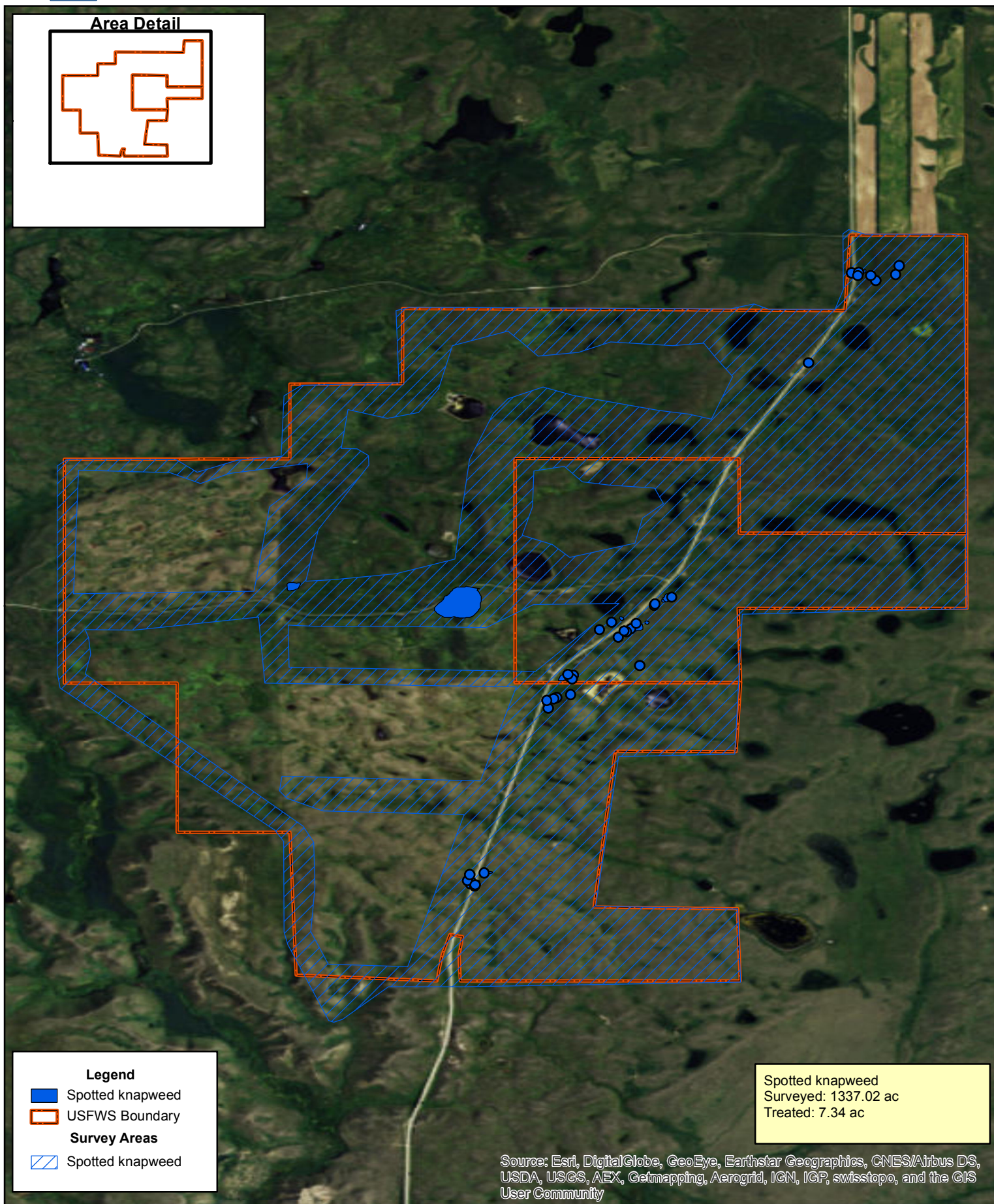
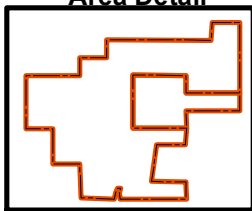


U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Furnell WPA - 2015 Acres Infested & Treated

Area Detail



Legend

- Spotted knapweed
- USFWS Boundary
- Survey Areas
- Spotted knapweed

Spotted knapweed
Surveyed: 1337.02 ac
Treated: 7.34 ac

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



0 0.25 0.5 1 Miles

Spotted knapweed - 1 of 1 Map

Benton Lake Wetland Management District

Jarina WPA

Benton Lake ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Surveyed Acres Infested ²	Acres Treated ³
Bull thistle	*	0.06	0.06
Houndstongue	*	0.01	0.01
Leafy spurge	18.71	0.12	0.12
Musk thistle	*	0.22	0.23
Spotted knapweed	443.03	12.34	13.64
Project Site Totals	461.74	12.75	14.06

¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS.

² 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.

³ The area or subset of infested area that has received some form of treatment as measured by GPS feature.

*Species was chemically treated and GPS mapped, but no specific survey was designated.

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
June 8, 2015	Refuge Management Project	Spotted knapweed	4	Point to point chemical treatment of historic populations within the WPA.
August 11-13, 2015	Refuge Management Project	Spotted knapweed	4	Point to point chemical treatment of historic populations within the WPA.
August 11, 2015	EDRR	Leafy spurge	1	Point to point chemical treatment of historic population within the WPA.

Coordination and Cooperation

- Scheduling and treatment priorities were developed from proposals and discussions with WMD Manager, Jim Lange.
 - Conducted an arrival and exit interview with Jim Lange concerning leafy spurge chemical treatments.

Prevention and Education

- This site requires monitoring for new satellite infestations and species because the road passing through the WPA acts as a vector.

- Leafy spurge and spotted knapweed were targeted on this site to prevent further spread to surrounding areas.

Early Detection and Rapid Response

- Early detection and rapid response treatment of weeds is critical to keep large tracts of land free of invasive and noxious species that degrade wildlife habitat.
- ISST mapped .05 acres of leafy spurge while managing other targeted weed species in 2012.
- In 2015, while treating spotted knapweed, ISST located a new leafy spurge infestation of 0.11 acres.

Inventory and Monitoring

- GPS data were collected by ISST to provide information on patch size and locations of application. The GPS track logs were used to digitize the survey area and calculate the survey area acres.
- ISST members searched 18.71 acres within Jarina WPA for leafy spurge.
 - The known leafy spurge infestation was visited in June to check for any regrowth; very little leafy spurge had re-sprouted. Each time ISST visited Jarina WPA to treat spotted knapweed, the spurge site was visited and any spurge plants with seed heads were clipped and bagged.
 - On 8/11/15, ISST treated about 20 leafy spurge plants, in the Southernmost historical population, that were immature for being so late in the season.
 - A new population of leafy spurge was discovered while searching for spotted knapweed. The patch was 0.11 acres in size, but the density was 1-10%. The plants were 3-5 inches tall and flowering.
- ISST members searched 443.03 acres (12.34 acres infested) around historical locations and a buffer around spotted knapweed infestations.
- Other weed species noted by crew members but not targeted include: Canada thistle, field pennycress, and houndstongue.

Management

- ISST treated 0.12 acres of leafy spurge over two visits in 2015.
 - On June 6, ISST members clipped, bagged, and disposed of the flowers and seed heads.
 - On August 11, one ISST member visited both leafy spurge patches, clipped and bagged seed heads and chemically treated both areas using a backpack sprayer.
- ISST treated 13.64 acres of spotted knapweed over three visits in 2015.
 - Locations were primarily along the Swift Dam Road, the westernmost pond, and near the southern boundary.
 - Spotted knapweed tends to grow along the roadside and in dry, bare areas.
- While treating spotted knapweed and leafy spurge, ISST members treated 0.06 acres of bull thistle, 0.01 acres of houndstongue, and 0.23 acres of musk thistle; chemical amounts were not totaled for these species.
- All ISST activities in the Benton Lakes WMD were conducted point-to-point around historic observations of known weed populations at the request of the WMD Manager. Although this minimizes disturbance to the site, it reduces the ability of the ISST to detect new populations before they become established on the rest of the WPA. It also dramatically limits the scope of weed mapping data for tracking invasive species population size over time and prevents the use of these data for rigorously determining effectiveness or supporting adaptive management strategies. Additional resources and methodologies will be required by refuge staff to now determine or answer these types of questions.

Herbicide Applied

- ISST chemically treated leafy spurge with 0.14 ounces of *Plateau*. ISST members used 59.07 ounces of *Milestone* to chemically treat historical locations. Spotted knapweed treatments were made using ATV's and broadcast spraying techniques.

Recommendations

- Leafy spurge infestations may need to be communicated to neighbor to decrease reinvasions.
 - Mowing every 2 to 4 weeks can reduce seed production.
 - Mowing may result in more uniform regrowth, which can lead to more effective herbicide applications.
 - Chemical treatment at preemergence or early postemergence in fall when plants begin to grow but before hard freeze should be continued.
- Spotted knapweed infestations are decreasing within the WPA, chemical treatments should be continued to further reduce infestations and patch sizes.



Looking at Jarina WPA. Photo by: Levi Morgan

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6/8/15 **Time (start/stop):** 11:00 - 1:00

Location: (NWR or WPA) Jarvis

County: Pondera

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☐ K. Schuetz

☒ B. Sparklin

Weather Conditions: Wind: 8 MPH, direction from SW Temp.: 79 °F Humidity: 36 %

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 116 ☐ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 30% **Gallons Sprayed:** 1.5 **Amt. of Chemical Applied:** 0.45 **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):

COMMENTS:

Start 5 gal
end 3.5
1.5 gal

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-8-15 **Time (start/stop):** _____ **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Tarona ☒ G. McClure ☐ K. Schuetz
County: Pardone ☐ B. Sparklin
Weather Conditions: Wind: 8 MPH, direction from SW Temp.: 79 °F Humidity: 36 %

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 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 checked="" 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>1/2 L/10</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Sylore</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 _____

App. Rate: 7.02/100 **Gallons Sprayed:** 9 **Amt. of Chemical Applied:** 0.659 **Acres Treated:** _____

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 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 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):

COMMENTS:

Start 10g
end 1g
9g sprayed
.657 oz

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6/8/15 **Time (start/stop):** 11:00-1:00 **Applicators/Operator:** ☒ L. Morgan
Location: (NWR or WPA) Jarvis WPA ☐ G. McClure ☐ K. Schuetz
County: Pondera ☐ B. Sparklin

Weather Conditions: Wind: 8 MPH, direction from SW Temp.: 78 °F Humidity: 36 %

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 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 checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Plateau – BASF #241-365 | <input type="checkbox"/> Dye Used/Rate: _____ |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: _____ |
| <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 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical _____

App. Rate: 7oz/gal **Gallons Sprayed:** 4 **Amt. of Chemical Applied:** 0.2902 **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 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):

LM Sprayed the southern ditch at County road from West boundary to parking area.

BS Sprayed southern area of county road ditch from East boundary to parking lot.

COMMENTS:

sprayed 4gal

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-8-15 **Time (start/stop):** 11:00 – 5:00

Location: (NWR or WPA) Jarina

County: Pondera

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 8 MPH, direction from SW Temp.: 79 °F Humidity: 36 %

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: Shield

☒ Adjuvant Used: Syntac

Equipment Used: ☐ ATV GPA ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☐ Mechanical

App. Rate: 7oz/A **Gallons Sprayed:** 8 **Amt. of Chemical Applied:** 0.29 **Acres Treated:** 0.2

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):

COMMENTS:

- Sprayed southern infestation groups
- Sprayed infestation group near pond on southern section of Jarina
- northern point was not sprayed

Start 10g
End 6g
Total Sprayed 4g

due to cattle in the field
- sprayed north and west Row ditch - west boundary to parking

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8/11/15 **Time (start/stop):** 9:00

Location: (NWR or WPA) Jaana WPA

County: Pondera

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 24 MPH, direction from West Temp.: 82 °F Humidity: 39 %

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: Shield

☒ Adjuvant Used: Syl-Tac

Equipment Used: ☒ ATV GPA 80 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7oz/lac **Gallons Sprayed:** 5 **Amt. of Chemical Applied:** 0.44oz **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):

see Lar

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8/11/15 **Time (start/stop):** 9:00

Location: (NWR or WPA) Sarina WPA

County: Pondera

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 24 MPH, direction from West Temp.: 82 °F Humidity: 59 %

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: Shield

☒ Adjuvant Used: MSO

Equipment Used: ☐ ATV GPA _____ ☐ Handgun ☐ Broadcast

☒ Backpack GPA 20 gpa ☐ Mechanical _____

App. Rate: 1.10 oz/gal **Gallons Sprayed:** 25 **Amt. of Chemical Applied:** 0.14 **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):

Treated 26+ plants that were immature for so late in season near shrub line, some burn on shrubs from previous treatments

COMMENTS:

BP #1

*1.10 oz / 2gal
3.2 oz MSO / 2gal*

*45 0.55
4
25*

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8/11/15 **Time (start/stop):** 9:00 - 2:00

Location: (NWR or WPA) Jarvis WPA

County: Pondera

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 2.4 MPH, direction from West Temp.: 82 °F Humidity: 39 %

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: Dynamark

☒ Adjuvant Used: Syl Tac

Equipment Used: ☒ ATV GPA 80 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7oz/ac **Gallons Sprayed:** 4 **Amt. of Chemical Applied:** .35oz **Acres Treated:** _____

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 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 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):

COMMENTS:

Start | End | Total
10 | 6 | 4

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8/12/15 **Time (start/stop):** 8:00 - 1:00

Location: (NWR or WPA) JARINA WPA

County: PONDERA

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4 MPH, direction from SW Temp.: 78 °F Humidity: 35 %

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: dynamark

☒ Adjuvant Used: Syl Tac

Equipment Used: ☒ ATV GPA 13.06 ☐ Handgun ☒ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7.02/AC **Gallons Sprayed:** 50 **Amt. of Chemical Applied:** 26.802 **Acres Treated:** _____

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 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 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):

COMMENTS:

Start	End	Total
10	0	10
10	2	20
10	0	30
10	2	40
10	0	50

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8-12-15 **Time (start/stop):** 7:30 - 1:00

Location: (NWR or WPA) Jarina

County: Pendora

Applicators/Operator: ☐ L. Morgan
☒ G. McClure ☐ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: 4 MPH, direction from SW Temp.: 78 °F Humidity: 35 %

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: Dynamark
- ☒ Adjuvant Used: Sytace

Equipment Used: ☒ ATV GPA 88 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

App. Rate: 70% **Gallons Sprayed:** 3 **Amt. of Chemical Applied:** 0.24 **Acres Treated:** _____

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 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 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):

See L.M.

COMMENTS:

SW 10g
ered 7g

3g sprayed

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8-12-15 **Time (start/stop):** 8:00

Location: (NWR or WPA) Tarima WPA

County: Pondera

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4 MPH, direction from SW Temp.: 78 °F Humidity: 35 %

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

☐ Telaar XP – DuPont #352-654

☐ Tordon & Telaar 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: Dynamark

☒ Adjuvant Used: Sty Tac

Equipment Used: ☒ ATV GPA 80 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7oz/Ac **Gallons Sprayed:** 3 **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):

See 1m

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8/13/15 **Time (start/stop):** 7:00 - 4:00

Location: (NWR or WPA) JARINA WPA

County: Pondera

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4.5 MPH, direction from West Temp.: 97° °F Humidity: _____ %

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: Dynamark
☒ Adjuvant Used: Syl Tac

Equipment Used: ☒ ATV GPA 13.00 ☐ Handgun ☒ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7oz/ac **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 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 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 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):

COMMENTS:

Start	End	ft
10	0	10
10	0	20
10	0	30
10	0	40
10	0	50
5	0	55

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8-13-15 **Time (start/stop):** 7:30 - 1:00 PM

Location: (NWR or WPA) Jerina

County: Pondera

Applicators/Operator: ☐ L. Morgan

☒ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4.5 MPH, direction from W Temp.: 91 °F Humidity: _____ %

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: Dyanorh
☒ Adjuvant Used: Syner

Equipment Used: ☒ ATV GPA 88 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7.0% **Gallons Sprayed:** 1 **Amt. of Chemical Applied:** .08 **Acres Treated:** _____

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 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 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):

COMMENTS:

start 7g
end 6g
1g sprayed

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 8-13-15 **Time (start/stop):** 7:00

Location: (NWR or WPA) Jerina WPA

County: Pondera

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 4.5 MPH, direction from West Temp.: 69 °F Humidity: 36.1 %

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: Dye mark

☒ Adjuvant Used: Syltac

Equipment Used: ☒ ATV GPA 80 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 70/100 **Gallons Sprayed:** 2 **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):

*Finished main section of
Jerina encompassing main lake
some musk thistle and hands-
tongue infestations*

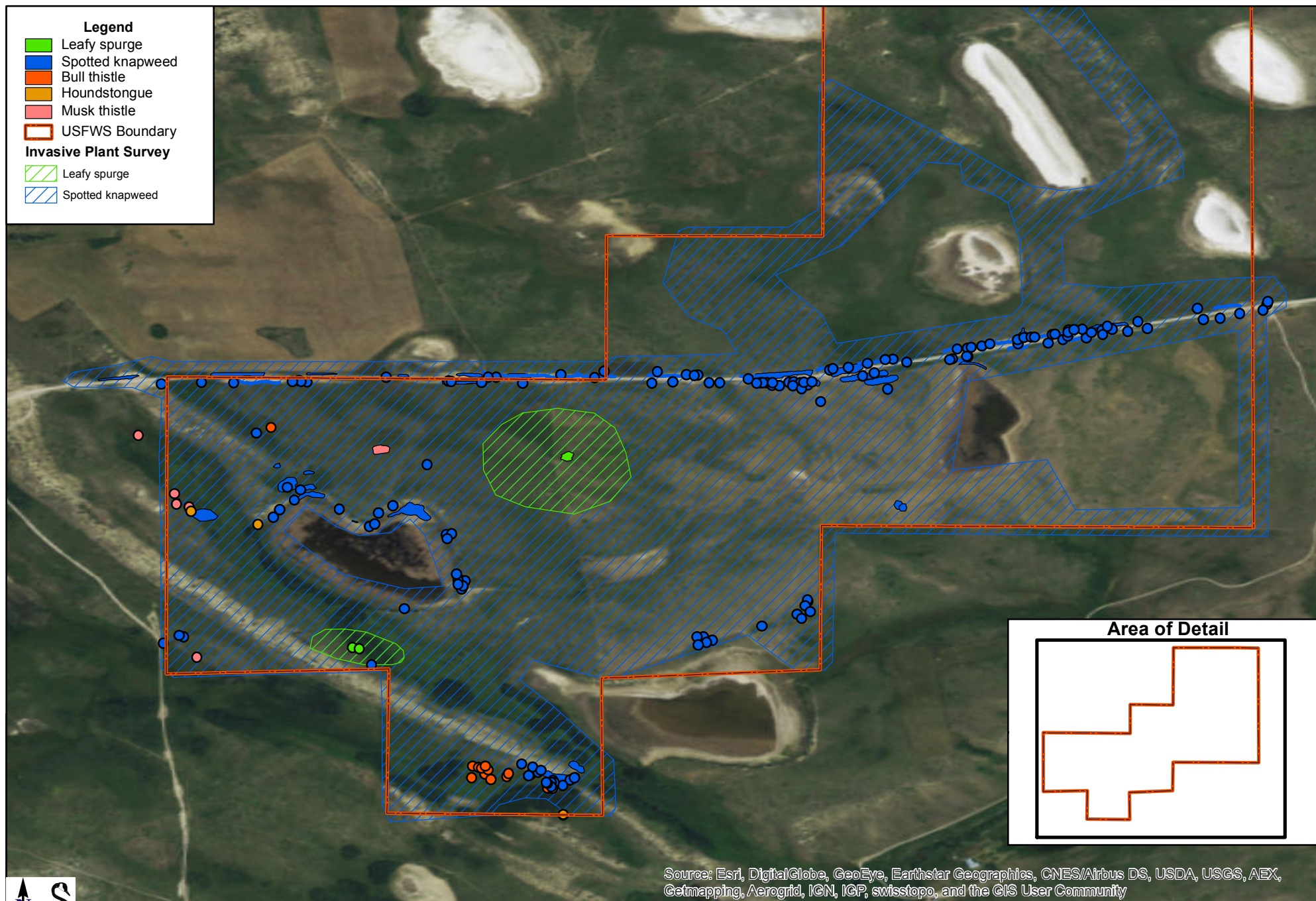
COMMENTS:



U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Jarina WPA - 2015 Acres Infested & Treated



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



All Invasive Species - 1 of 1 map

Benton Lake Wetland Management District

Kleinschmidt Lake WPA

Benton Lake and Lee Metcalf ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Survey Acres Infested ²	Acres Treated ³
Dalmatian toadflax	967.64*	0	0
Hoary alyssum	967.64*	0	0
Houndstongue	967.64*	0.18	0.18
Musk thistle	595.69*	0.03	0.03
Oxeye daisy	371.95*	0.10	0.10
Spotted knapweed	967.64*	0.99	1.02
St. Johnswort	371.95*	0	0
Sulfur cinquefoil	371.95*	0.01	0.01
Yellow toadflax	967.64*	0.06	0.06
Project Site Totals	967.64	1.37	1.40
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ 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.			

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
9-June-2015 to 11-June-2015	EDRR Chemical Treatment	Houndstongue, Oxeye daisy, Spotted knapweed, St. Johnswort	3-5	Point-to-point treatment for all target species. Monitored for toadflax in all areas covered, used historic data to map only new infestations.
	EDRR Inventory and Monitoring	Yellow toadflax, Dalmatian toadflax		
15-June-2015 to 16-June-2015	EDRR Chemical Treatment	Houndstongue, Oxeye daisy, Spotted knapweed, St. Johnswort	2-5	Continued treatment and monitoring for target weeds.
	EDRR Inventory and Monitoring	Yellow toadflax, Dalmatian toadflax		
14-Sept-2015 To 15-Sept-2015	EDRR Chemical Treatment	Yellow toadflax, Dalmatian toadflax	3	Point-to-point treatment for all target species.
22-Sept-2015		Spotted knapweed		Sprayed while surveying for toadflax, followed by

				point-to-point treatment using historic data.
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Coordination and Cooperation

- Crew leaders Jessica Zarate and Levi Morgan coordinated with site manager Kevin Ertl using the “Strike Team Expectation and Accomplishment Checklist” (Appendix A) and all details of work to be completed were further discussed in person each week as the crews arrived.

Prevention and Education

- Preventing the spread of small infestations is essential to protect the large weed-free tracts of land present at this site.
- Inventorying sites every 3-5 years can help detect new infestations while they are small and before they become a large management burden.

Early Detection and Rapid Response

Hoary alyssum

- The north parking area where hoary alyssum was removed in 2014 was systematically transected and ISST watched for this species during the entire survey period in June and September. No hoary alyssum plants were found this season
- Hoary alyssum is a type of mustard that can spread quickly by wind distributed seed if left unmanaged and these seeds can germinate under suitable conditions throughout the growing season. Future efforts to detect and treat this species are highly recommended.

Dalmatian toadflax

- Historic locations were searched thoroughly in June and September. The crews also watched for this species throughout the site during the entire survey period. No Dalmatian toadflax plants were found during the 2015 field season.
- In 2014, a few Dalmatian toadflax plants were found near the center of the site, on a hillside just north of the two-track and electric cattle fence. At that time 8 post-flower stems were clipped and bagged for disposal offsite and then these plants were sprayed in late August.
- Dalmatian toadflax can be very difficult to control. It reproduces both by long spreading roots and seeds. Eradication is possible given the small size of the infestation but will likely require multiple treatments each season.
- ISST recommends that flowers and developing seed heads should be clipped each year in late June or early July to prevent seeding and then chemically treated in the fall.

Inventory and Monitoring

St. Johnswort

- No St. Johnswort was detected this season. The team searched the historic locations and kept watch for this species during the survey period in June which covered more than 370 acres. Isolated patches of St. Johnswort were last treated in 2013.
- ISST recommends that monitoring and control of this species continues if found to help prevent resurgence on site.

Yellow toadflax

- Because yellow toadflax is difficult to detect on this site, ISST monitored for yellow toadflax in June while targeting other species for management covering approximately 371.95 acres. Although patches of yellow toadflax were detected, no new infestations were mapped in June.
- Yellow toadflax is an aggressive invader that can spread quickly under suitable conditions when left untreated, even for only a short time. Ongoing management of this species is recommended while infestations present are small and containment and eradication is most feasible.

Management

Houndstongue

- Houndstongue was treated point-to-point based on historic locations with a 30 meter buffer searched around historic and new plants found. ISST surveyed 371.95 acres in June and 595.69 acres in September treating a total of 0.18 acres.
- Kevin Ertl instructed the crew to treat those plants on adjacent private property to the north that they could reach from the fence line. These plants were not mapped or included in the acreage total.
- This species primarily occurs in the wooded areas in the northwest portion of the site and will be a challenge to control because wildlife readily spread the seeds of this plant. Efforts to contain and control this species should continue to help reduce its ability to spread further across the site.

Oxeye daisy

- Surveys for oxeye daisy were completed in June and all plants found at that time were sprayed. A total of 0.10 acre of oxeye daisy was treated, about the same amount as was managed in 2014 (0.12 acres). The infestation does not appear to be dispersing across the landscape, all known oxeye daisy are still located only in the northern portion of the site.
- Based on current literature, it is best to treat oxeye daisy with *Milestone* if plants are in early stages of development prior to full flower and efficacy can begin to drop off if treated too late in phenology. This can be problematic because plants are more readily seen when flowering and most likely to be detected in this stage.
- *Escort XP* can also be used for treatment and may have better results when treating plants in full flower.

Spotted knapweed

- ISST targeted spotted knapweed for treatment in June and September of 2015 and mapped a total of 0.99 acres infested and treated 1.02 acres.
- Patches of knapweed are dispersed across the site with most of the dense patches located along the north and west boundaries. All small and isolated patches should be treated as a priority in an effort to protect large areas of land that are currently free from infestations.
- The site manager is working cooperatively with adjacent landowners and requested ISST spray the weeds found along the roadway starting from the WPA parking area to the cattle guard. The team covered the road and right-of-ways in June up to the fences on either side of the road.

Yellow toadflax

- Small scattered patches of yellow toadflax were treated in the northern and western portions of the site.
- Point-to-point surveys of historic locations of yellow toadflax were conducted in September, but ISST also watched for this species throughout the survey period. The team surveyed a total of 595.69 acres during their fall visit and treated only 0.06 acres of yellow toadflax in this survey area.
- While continued treatment of yellow toadflax is essential for containment and reduction, eradication will likely be costly and difficult. Isolated and small patches should be treated as a priority with focus on both preventing seed production and annual herbicide treatment.
- ISST recommends the site manager consider trying to establish biological control agents on the large patches to help suppress seeding. These patches could still be sprayed in the fall but with biocontrols present, timing of application and/or collection and redistribution will need to be considered to maintain insect populations.

Musk thistle, Bull thistle and Canada thistle

- Thistles were not indicated as a priority species for treatment when the team sprayed the site in June. However, since all noxious weeds were requested to be treated in September, ISST sprayed musk thistle as it was incidentally found. More musk thistle is known to be present on site than was seen in June but was likely not readily detectable during the fall survey period.
- Canada thistle and bull thistle are also present onsite but not treated this season. While Canada

- thistle may have been identifiable in September, a significant amount of time would be required to adequately treat and map infestations present.
- Bull thistle occurs to a lesser extent than Canada thistle but may have not been easily identified in fall and therefore was not found or treated this season.

Herbicide Applied

- 0.95oz of *Chaparral* was used for treatment of houndstongue, oxeye daisy, spotted knapweed sulfur cinquefoil.
- 0.57oz of *Milestone* was used for treatment of spotted knapweed and musk thistle
- 6.87oz of *Tordon 22K* and 1.29oz of *Overdrive* were used in tank mixes for treatment of spotted knapweed and yellow toadflax.

Proposed 2016 Schedule

- Management of known infestations is highly recommended with priority given to smaller and isolated patches.
- Late June through July is likely the best time to adequately survey and treat all of the current priority species (with the exception of yellow toadflax).
- Developing flowers of Dalmatian toadflax could be clipped at this time.
- Monitoring for species that were once found but not detected (like hoary alyssum, Dalmatian toadflax, or St. Johnswort) should also continue to help ensure these weeds do not re-establish and gain a foot hold onsite.
- Site manager may want to consider continuing to use *Chaparral* for species targeted in June/July because it would be more efficient.
- Currently, target species are typically treated with either *Milestone* or *Escort XP* requiring areas to be covered more than once. Using *Chaparral* would allow for an area to be covered by one person and spray all target species at the same time.
- *Chaparral* herbicide contains both active ingredients of *Milestone* and *Escort XP*, making it suitable for treating multiple species at the same time. The downside is that this is less selective so overspray could result in more off target kill than *Milestone* and *Escort XP* alone.
- Clipping isolated patches of yellow toadflax should occur late summer when plants are flowering which is often in August. Herbicide treatment of this species and Dalmatian toadflax is optimal typically in September.



Keeping Kleinschmidt Lake WPA as a priority for treatment is important because it supports relatively few weeds; as well as a diverse composition of native plants and intact habitats that support a variety of wildlife species. Photo by Jessica Zarate.

Appendix A

Strike Team Expectation and Accomplishment Checklist

Arrival Interview

Station: Upsata & Blackfoot & Kleinschmidt WPA Date of Visit: 06/8/15-06/11/15

Objectives and Priority Areas defined:

Species	Unit	Section of Unit	Inventory/Monitor	Treat	Chemical (ref or isst)
Spotted knapweed	Upsata	Prioritize areas based on discussion with Kevin	No	Spray & map	Milestone or Chaparral – ISST or Refuge
Hoary alyssum		Entire site	Yes, if not treated	No	Excort XP or Chaparral - ISST
Sulfur cinquefoil		Historic location	No	Spray & map	Milestone or Chaparral –
Oxeye daisy		Historic location	No	Spray & map	ISST or Refuge
Hoary alyssum	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Spray & map	Chaparral-IS ST; Will switch to Milestone if exclusively spraying spotted knapweed
Oxeye daisy			No		
Spotted knapweed		Prioritize areas based on discussion with Kevin	No		
Common tansy & Sulfur cinquefoil		Point-to-point historic locations plus 30M buffer around these and new patches	No		

Notes: Work on completing Upsata before moving to the Blackfoot. Gear will be powerwashed at Kevin's between sites.

Met with Kevin after completing Upsata and he would prefer for us to only treat oxeye and hoary at Blackfoot (2 people) and the rest of the crew start priorities on Kleinschmidt. Sent text to Lindy and Bill to get ok to make this change and it was approved. See Exit notes for details of projects worked on Kleinschmidt.

ATV Use: (define whether allowed, if partial allowance any restricted areas or travel directions, including only along fence line or not, only along two-track or if can systematically traverse project site, or if point-to-point treatment)

ATV use is permitted throughout the site.

Other access issues, conflicts, etc...: None.

Station or Site Manager (or
Acting): _____ Date: _____
(back has Exit Interview)

Exit Interview

Species	Unit	Section of Unit	Inventory/ Monitor	Treat	Completed (yes or no with explanation)
Spotted knapweed	Upsata	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all historic areas were treated.
Hoary alyssum		Entire site	No.	Yes	Yes, all historic areas were treated but we may have been a little early, not a lot was found.
Sulfur cinquefoil		Historic location	No	Some treated.	Not priority species but some sulfur cinquefoil was found and treated. Historic patches of oxeye were surveyed for but none was found.
Oxeye daisy			No	None found.	
Hoary alyssum	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all historic patches were searched and all found was treated, however may have been early, not much was found.
Oxeye daisy					Yes, historic areas were surveyed and all found was treated.
Meadow hawkweed		Newly detected	Yes	No	One patch found and mapped, needs to be verified and will treat if invasive species.
Spotted knapweed	Kleinschmidt	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Several areas completed, had some problems with historic data display but will continue working on this project next week.
Houndstongue					
Oxeye daisy					
St. Johnswort					
Hoary alyssum					
Yellow toadflax		Monitor if incidentally found and not	Yes	No	No new patches found.
Dalmatian toadflax					

		previously mapped			
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Notes:

Upsata worked and completed this week on June 8th. Blackfoot worked by 2 people and the hoary alyssum and oxeye daisy projects were completed on June 9th. Kleinschmidt was started by 3 people June 9th and then a 5 person crew worked this site on June 10 and 11. We will return to this site on Monday June 15th.

Concerns with Project:

There was heavy rain during the night of June 9th. Wet and foggy conditions on June 10th resulted in delays to start up the morning of June 10th. The team completed administrative tasks in the early morning before heading out.

Station or Site Manager (or

Acting):_____Date:_____



Appendix B

Strike Team Expectation and Accomplishment Checklist

Arrival Interview

Station: Kleinschmidt & Blackfoot WPA

Date of Visit: 06/15/15-06/18/15

Objectives and Priority Areas defined:

Species	Unit	Section of Unit	Inventory/Monitor	Treat	Chemical (ref or isst)
Spotted knapweed	Kleinschmidt	Point-to-point historic locations plus 30M buffer around these and new patches	No	Spray and map	Chaparral – ISST
Houndstongue					
Oxeye daisy					
Hoary alyssum					
St. Johnswort					
Yellow toadflax		Monitor if incidentally found and not previously mapped	Yes	No	N/A
Dalmatian toadflax					
Spotted knapweed	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Spray & map	Chaparral-IS ST; Will switch to Milestone if exclusively spraying spotted knapweed
Common tansy & Sulfur cinquefoil (if time is available)					

Notes:

Continue working point-to-point at Kleinschmidt until complete and then will move to Blackfoot to treat spotted knapweed in the following priorities areas: 1) along the perimeter, 2) west side near Brown's Lake ("peninsula"), 3) isolated patches.

ATV Use: (define whether allowed, if partial allowance any restricted areas or travel directions, including only along fence line or not, only along two-track or if can systematically traverse project site, or if point-to-point treatment)

ATV use is permitted throughout the site.

Other access issues, conflicts, etc...: None.

Station or Site Manager (or

Acting): _____ Date: _____

(back has Exit Interview)

Exit Interview

Species	Unit	Section of Unit	Inventory /Monitor	Treat	Completed (yes or no with explanation)
Spotted knapweed	Kleinschmidt	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all historic areas were surveyed plus the buffer. We had a problem with the units displaying the historic layer so if there are any patches missed it is because they could not be seen but I believe we did get them all.
Houndstongue					
Oxeye daisy					
St. Johnswort					
Hoary alyssum					
Yellow toadflax		Monitor if incidentally found and not previously mapped	Yes	No	No new patches were found.
Dalmatian toadflax					
Spotted knapweed (and a few houndstongue)	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	See notes below.
Meadow hawkweed					Yes, photographed and treated patch. Several flowering and many rosettes.
Common tansy			No	Yes	Surveyed historic locations that were near the new patch of meadow hawkweed in the far northeast corner of North 80. No tansy plants were found.

Notes: Kleinschmidt worked on June 15th using 5 person crew and then was finished by 2 people on June 16th. The road up to the cattle guard at the north end was also done. A crew of 3 people started spraying spotted knapweed on the Blackfoot the morning of June 16 and was later joined by others once Kleinschmidt was done.

Spotted knapweed – In the east, the majority of the knapweed in the southern area (below the old fence line that goes down the middle, east to west) was completed. A large portion of the northern most area of the east was also completed. The perimeter from the large pond NW, to Brown's Lake Road and then west to the second curve (just past the creek) was completed. Some houndstongue was also found and treated opportunistically.

Concerns with Project: We were likely a bit early when first treated oxeye, many more plants were found that were not sprayed. I treated all I could but there is likely more out there. We should plan to treat this species after June 15 in the future if possible.

Station or Site Manager (or

Acting):

Date:

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: 06/9/15 **Time (start/stop):** 12pm – 4pm

Applicators/Operator: ☒ J. Zarate

Location: (NWR or WPA) Kleinschmidt

☐ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from S Temp.: 75 °F Humidity: 34 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 24 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.1 **Acres Treated:** 0.04

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):

Historic locations plus 30m buffer on west side

Location #2 (Site specific description):

COMMENTS:

Searched for spotted knapweed, hoary alyssum, houndstongue, oxeye daisy and other EDRR species.

Spotted knapweed found was very small and hard to see.

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: 06/9/15 **Time (start/stop):** 12pm – 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt

☐ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 3 MPH, direction from S Temp.: 75 °F Humidity: 35 %

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

☐ Aquaneat – NuFarm #228-365

☐ Tordon & Distinct – Tank Mix

☒ Chaparral – Dow #62719-597

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

☐ Curtail – Dow AgroSciences #62719-48

☐ Metcel & Milestone – Tank Mix

☐ EscortXP – DuPont #352-439

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

☐ Habitat – BASF #241-426

☐ Escort XP & Milestone – Tank Mix

☐ Metcel VMF– Agsurf #352-439-8558

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

☐ Milestone – Dow AgroSciences #62719-519

☐ Other _____

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☒ Dye Used/Rate: Highlight 3oz/10gal

☐ Tordon & Telar XP

☒ Adjuvant Used: Syl-tac .1% v/v

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

Equipment Used: ☒ ATV GPA 74 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 2 gal **Amt. of Chemical Applied:** 0.068 **Acres Treated:** 0.03

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):

Along the west boundary headed north from the southwest corner. Stopped before the tree section.

Location #2 (Site specific description):

COMMENTS:

Very small knapweed plants. First round was without new data. After lunch (starting at 2pm) had new data 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: 06/9/15 **Time (start/stop):** 12pm – 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt

☐ J. Wilson ☒ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from S Temp.: 75 °F Humidity: 34 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☒ ATV GPA 78 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.008 **Acres Treated:** 0.003

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):

Southwest corner along property fence line

Location #2 (Site specific description):

Points going almost straight north of first location, worked into area of trees approaching the north boundary fence.

COMMENTS:

Only sprayed spotted knapweed but actively searched for houndstongue, hoary alyssum and oxeye along the way. Started day with just over 9 gallons in tank from upsata. Did not have historic data on gps when doing loc. 1. Got data after lunch.

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: 06/10/15 **Time (start/stop):** 12pm – 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt

☐ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 3 MPH, direction from SE Temp.: 77 °F Humidity: 48 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☒ ATV GPA 74 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 3 gal **Amt. of Chemical Applied:** 0.1 **Acres Treated:** 0.04

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):

NW corner besides area that needs to be backpack sprayed.

Location #2 (Site specific description):

COMMENTS:

One houndstongue in area that wasn't historic data. Very small-medium sized knapweed. Other areas need to be backpack sprayed.

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: 06/10/15 **Time (start/stop):** 12pm – 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt

☒ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from SE Temp.: 77 °F Humidity: 48 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.09 **Acres Treated:** 0.04

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 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 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):

East side of property on north-south boundary,
worked westward.

Location #2 (Site specific description):

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: 06/10/15 **Time (start/stop):** 11:45am-3:30pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from SE Temp.: 77 °F Humidity: 48 %

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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac .1% v/v |
| <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 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.5 gal **Amt. of Chemical Applied:** 0.025 **Acres Treated:** 0.0

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 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 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):

Northeast, central area close to large wetland

Location #2 (Site specific description):

COMMENTS:

Spotted knapweed – basal rosette
Oxeye Daisy – pre flowering/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: 06/10/15 **Time (start/stop):** 11:45am-4:00pm **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☒ A. Crockett

County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from SW Temp.: 77 °F Humidity: 48 %

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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac .1% v/v |
| <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 78 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.008 **Acres Treated:** 0.003

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 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 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 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):

Finished up along N boundary fence, the south most fenceline of W side of wpa

Location #2 (Site specific description):

COMMENTS:

Surveyed historic polys for houndstongue, oxeye, st. Johns and spotted knapweed.

Worked in area that showed sign of bear activity.

Houndstongue – basal rosette/pre flower

Oxeye – 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: 06/10/15 **Time (start/stop):** 12 – 4 pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt

☐ J. Wilson

☐ A. Crockett

County: Powell

☒ A. Kaiser

☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from SE Temp.: 77 °F Humidity: 48 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 24

☒ Handgun

☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.1 **Acres Treated:** 0.4

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):

Along the west and north fences of the northern most block

Location #2 (Site specific description):

COMMENTS:

Plants were mostly in basal rosettes, there were some that have bolted but not 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: 06/11/15 **Time (start/stop):** 8:30am-12:15pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Kleinschmidt ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from N Temp.: 65 °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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac 4oz/ac |
| <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 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.09 **Acres Treated:** 0.04

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 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 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):

Finished historical points on east side of property

Location #2 (Site specific description):

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: 06/11/15 **Time (start/stop):** 9am – noon

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt

☐ J. Wilson

☒ A. Crockett

County: Powell

☐ A. Kaiser

☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from N Temp.: 65 °F Humidity: 72 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☒ ATV GPA 78

☒ Handgun

☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.008 **Acres Treated:** 0.003

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 strip of wpa, worked from north to south.
Started on west side of large pond

Location #2 (Site specific description):

COMMENTS:

Surveyed for both spotted knapweed and houndstongue,
found only a few knapweed plants.

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: 06/11/15 **Time (start/stop):** 9:00am – 12:00pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☐ A. Crockett
County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from N Temp.: 65 °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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac .1% v/v |
| <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 24 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.03 **Acres Treated:** 0.01

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 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 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):

Ridgeline leading to center of fence on north edge, mid north fence, then along fence line to the east.

Location #2 (Site specific description):

COMMENTS:

Spotted knapweed – rosette, pre-flower
Oxeye – pre-flowering, 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: 06/11/15 **Time (start/stop):** 9:00am – 12:00pm **Applicators/Operator:** ☒ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☐ A. Crockett

County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 1 MPH, direction from N Temp.: 62 °F Humidity: 72 %

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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac .1% v/v |
| <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 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.5 gal **Amt. of Chemical Applied:** 0.03 **Acres Treated:** 0.01

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 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 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):

North central area – historic points

Location #2 (Site specific description):

Hills east of large seasonal drainage

COMMENTS:

Houndstongue – basal rosette (loc. 2)
Spotted knapweed – basal rosette (loc.1&2)
Oxeye – pre flower, 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: 06/11/15 **Time (start/stop):** 9:15am – 12:00pm **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☐ A. Crockett

County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 1 MPH, direction from N Temp.: 62 °F Humidity: 75 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.09 **Acres Treated:** 0.09

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):

Northwest corner area

Location #2 (Site specific description):

COMMENTS:

Houndstongue was basal rosette, pre-flower and flower

Spotted Knapweed was rosette and pre-flower

Sulfur was basal rosette

Found sulfur and knapweed that wasn't in historic locations.

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: 06/15/15 **Time (start/stop):** 11:30am-3pm **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☐ A. Crockett

County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NE Temp.: 62 °F Humidity: 43%

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☐ ATV GPA ☐ Handgun ☐ Broadcast

☒ Backpack GPA28 ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.09 **Acres Treated:** 0.022

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):

Remaining areas of west side

Location #2 (Site specific description):

COMMENTS:

Nozzle of backpack sprayer was leaking.

All plants basal rosette

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: 06/15/15 **Time (start/stop):** 12:00pm – 3:30pm **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☐ A. Crockett

County: Powell ☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NE Temp.: 62 °F Humidity: 43%

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 24 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** <0.25 **Amt. of Chemical Applied:** <0.02 **Acres Treated:** <0.10

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):

Middle third of middle northern fence, along fence line to the east.

Location #2 (Site specific description):

COMMENTS:

Oxeye daisy was pre-flowering to flowering
Spotted Knapweed was mostly basal rosette with some bolting.

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: 06/15/15 **Time (start/stop):** 12:00pm – 3:15pm **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Kleinschmidt ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NE Temp.: 62 °F Humidity: 43 %

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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac 4oz/ac |
| <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 28 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** <0.25 **Amt. of Chemical Applied:** <0.02 **Acres Treated:** <0.001

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 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 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):

Historical polys/points in central area of property

Location #2 (Site specific description):

COMMENTS:

Sprayed 1 plant

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: 06/15/15 **Time (start/stop):** 11:30pm – 3:00pm **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☒ A. Crockett

County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NE Temp.: 62 °F Humidity: 43%

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☒ ATV GPA 78 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.008 **Acres Treated:** 0.003

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):

Worked along north boundary fence and few points away from fence on east side of wpa

Location #2 (Site specific description):

COMMENTS:

Knapweed was basal rosette

Houndstongue was pre-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: 06/15/15 **Time (start/stop):** 12:00pm – 3:30pm **Applicators/Operator:** ☒ J. Zarate
Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NE Temp.: 62 °F Humidity: 43 %

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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac .1% v/v |
| <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 36 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.07 **Acres Treated:** 0.03

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 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 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):

NE corner along north fence in wooded area

Location #2 (Site specific description):

COMMENTS:

Spotted Knapweed seedlings and bolting
Houndstongue rosette to full 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: 06/15/15 **Time (start/stop):** 12:00pm – 3:30pm **Applicators/Operator:** ☒ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☐ A. Crockett

County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NE Temp.: 62 °F Humidity: 43 %

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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac .1% v/v |
| <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 42 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.01 **Acres Treated:** 0.01

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 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 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):

NE corner along north fence in wooded area

Location #2 (Site specific description):

COMMENTS:

Spotted Knapweed seedlings and bolting
Houndstongue rosette to full 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: 06/16/15 **Time (start/stop):** 10:30am-11:30am **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☒ J. Wilson ☐ A. Crockett

County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from SE Temp.: 57 °F Humidity: 58 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.02 **Acres Treated:** 0.009

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):

Sprayed left side of road as you go to leave the north access parking area

Location #2 (Site specific description):

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: 06/16/15 **Time (start/stop):** 8:00am – 10:30am **Applicators/Operator:** ☐ J. Zarate
Location: (NWR or WPA) Kleinschmidt ☒ J. Wilson ☐ A. Crockett
County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from SE Temp.: 57 °F Humidity: 58 %

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: Highlight 3oz/10gal |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: Syl-tac .1% v/v |
| <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 36 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.02 **Acres Treated:** 0.007

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 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 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):

Historical points near north side of property on fence corner

Location #2 (Site specific description):

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: 06/16/15 **Time (start/stop):** 8:00am – 10:30am **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Kleinschmidt ☐ J. Wilson ☒ A. Crockett

County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 3 MPH, direction from SE Temp.: 59 °F Humidity: 53 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac .1% v/v

Equipment Used: ☒ ATV GPA 78 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.008 **Acres Treated:** 0.003

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):

Along both sides of N access road to the cattle guard.

Location #2 (Site specific description):

COMMENTS:

Only found spotted knapweed, no hoary was found in the parking area.

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/14/15 **Time (start/stop):** 1400 - 1700

Location: (NWR or WPA) Kleinschmidt

County:

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 5 MPH, direction from North Temp.: 74 °F Humidity: 17 %

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 Tordon @ 32 oz/ac
Overdrive @ 6 oz/ac
Hi-light
- ☒ Dye Used/Rate: Hi-light
- ☒ Adjuvant Used: MSO @ 1 pt. ac

Equipment Used: ☒ ATV GPA 13.1 ☐ Handgun ☒ Broadcast

☐ Backpack GPA

☐ Mechanical

App. Rate: **Gallons Sprayed:** >.5gal **Amt. of Chemical Applied:** **Acres Treated:**

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 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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

Point-to-point historical yellow
toadflax areas, hitting any spotted
knapweed along the way

COMMENTS:

MSO - 12.21 oz
OD - 4.58 oz
Tordon - 24.42

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/14 **Time (start/stop):** 2:08 -

Location: (NWR or WPA) Kleinschmidt WPA

County: _____

Applicators/Operator: ☐ L. Morgan
☒ G. McClure ☐ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: _____ MPH, direction from North Temp.: 74 °F Humidity: 17 %

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 Tordon @ 32 oz/ac
Overdrive @ 602/ac
- ☒ Dye Used/Rate: Hi-light
- ☒ Adjuvant Used: MSO @ 1 qt/ac

Equipment Used: ☒ ATV GPA 10.0% ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 37.461 **Gallons Sprayed:** 1 **Amt. of Chemical Applied:** 3.26 **Acres Treated:** _____

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 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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

COMMENTS:

MSO - 15.87 oz
OD - 5.95 oz
Tordon - 31.6 oz

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/14-15 **Time (start/stop):** 1400

Location: (NWR or WPA) Kleinschmidt

County: _____

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 5 MPH, direction from north Temp.: 74 °F Humidity: 17 %

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 Tordon @ 32 oz/ac
Overdrive @ 6 oz/ac
- ☒ Dye Used/Rate: Hi-light
- ☒ Adjuvant Used: M50 @ 1pt/ac

Equipment Used: ☒ ATV GPA 13.06 ☐ Handgun ☒ Broadcast

T-3200/H ☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 2.0 oz/ac **Gallons Sprayed:** 1.9 **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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

see LM

COMMENTS:

M50 - 12.25 oz
OD - 4.59 oz
Tordon - 24.50 oz

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 7/22/15 **Time (start/stop):** 8:00 - 4:00

Location: (NWR or WPA) Kleinschmidt WPA

County: Powell

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 0 MPH, direction from — Temp.: 50 °F Humidity: 45 %

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-TAL @ 1.28oz/10gal

Equipment Used: ☒ ATV GPA 87 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7oz/gal **Gallons Sprayed:** 2 gal **Amt. of Chemical Applied:** 0.16oz **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):

Point-to-point chemical treatment of spotted knapweed.

Middle section from gate, to West to the next southerly going boundary.

WPA was split into 3 sections with LM, GM, KS each responsible for 1/3.

COMMENTS:

0.80 oz mixture / 10gal

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-22-15 **Time (start/stop):** 8:00

Location: (NWR or WPA) Kleinschmidt WPA

County: Powell

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 0 MPH, direction from — Temp.: 58 °F Humidity: 45 %

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: Highlight

☒ Adjuvant Used: SGL TAC @ 1.28oz/gal

Equipment Used: ☒ ATV GPA 80 ☐ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7oz/gal **Gallons Sprayed:** 1g **Amt. of Chemical Applied:** 0.09 **Acres Treated:** 0.2

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):

Eastern section from gate
to lake point to point historical
spotted knapweed and treating
musk thistle rosettes

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-22 Time (start/stop): _____ Applicators/Operator: ☐ L. Morgan
Location: (NWR or WPA) Klein shmidt ☒ G. McClure ☐ K. Schuetz
County: Powell ☐ B. Sparklin
Weather Conditions: Wind: 0 MPH, direction from — Temp.: 58 °F Humidity: 45 %

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 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 checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Plateau – BASF #241-365 | <input type="checkbox"/> Dye Used/Rate: <u>H-L-Lp</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: <u>Syltor</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 _____

App. Rate: 7.4 Gallons Sprayed: 0.4 Amt. of Chemical Applied: 0.32 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 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):

Point 2 Point survey spray of sknapweed.
G.A. focused on west 1/2 of WPA.

COMMENTS:



U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Kleinschmidt Lake WPA - 2015 Survey Acres Infested & Treated

Surveyed: 967.64 ac

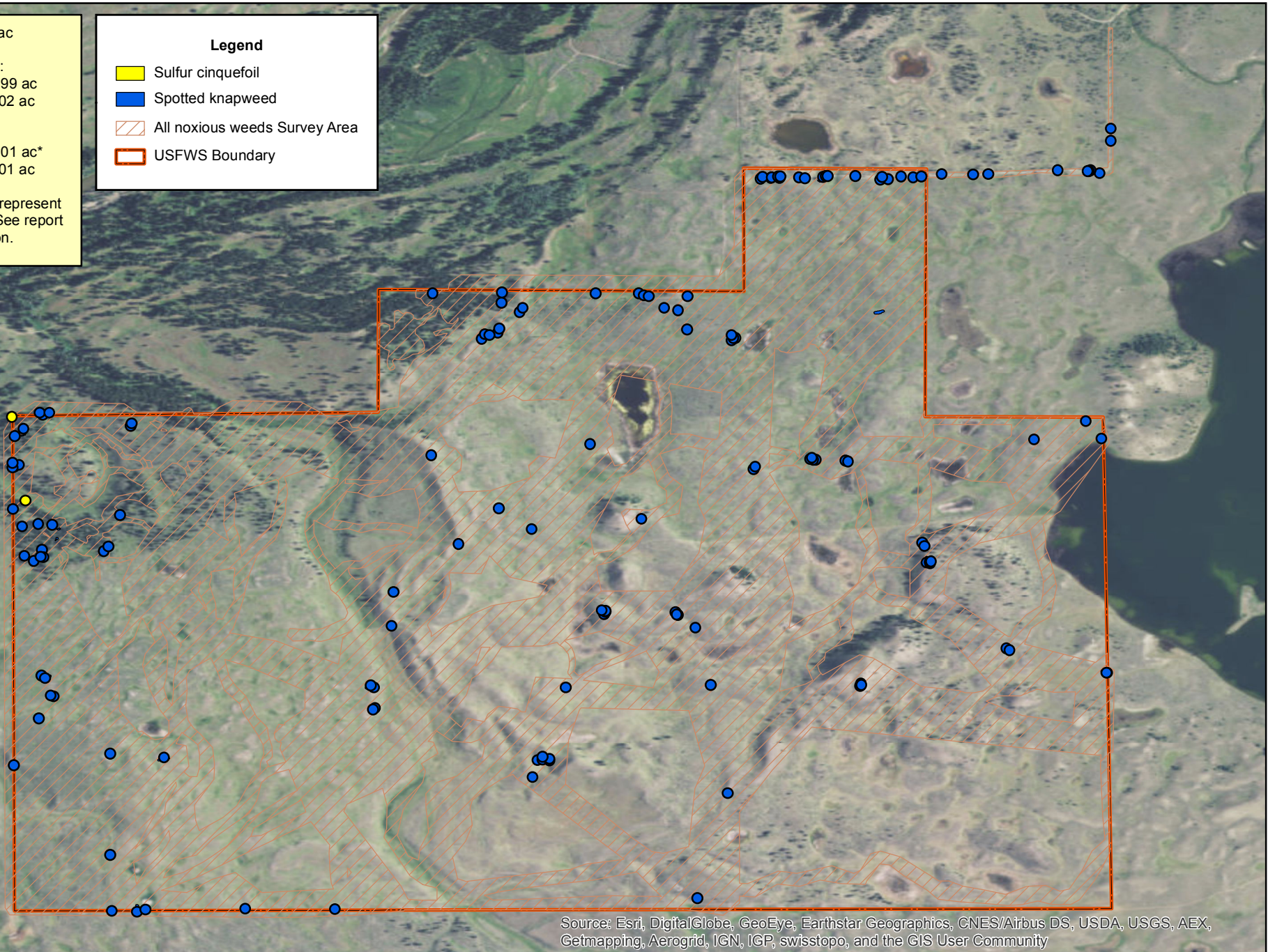
Spotted knapweed:
Acres Infested = 0.99 ac
Acres Treated = 1.02 ac

Sulfur cinquefoil:
Acres Infested = 0.01 ac*
Acres Treated = 0.01 ac

*Acreage may not represent
entire infestation. See report
for more information.

Legend

- Sulfur cinquefoil
- Spotted knapweed
- All noxious weeds Survey Area
- USFWS Boundary



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

Reference image from ESRI ArcMap Basemap Imagery

1 of 3 Maps



U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Kleinschmidt Lake WPA - 2015 Survey Acres Infested & Treated

Surveyed: 967.64 ac

Houndstongue:

Acres Infested = 0.18 ac


Acres Treated = 0.18 ac


Oxeye daisy:


Acres Infested = 0.10 ac

Acres Treated = 0.10 ac

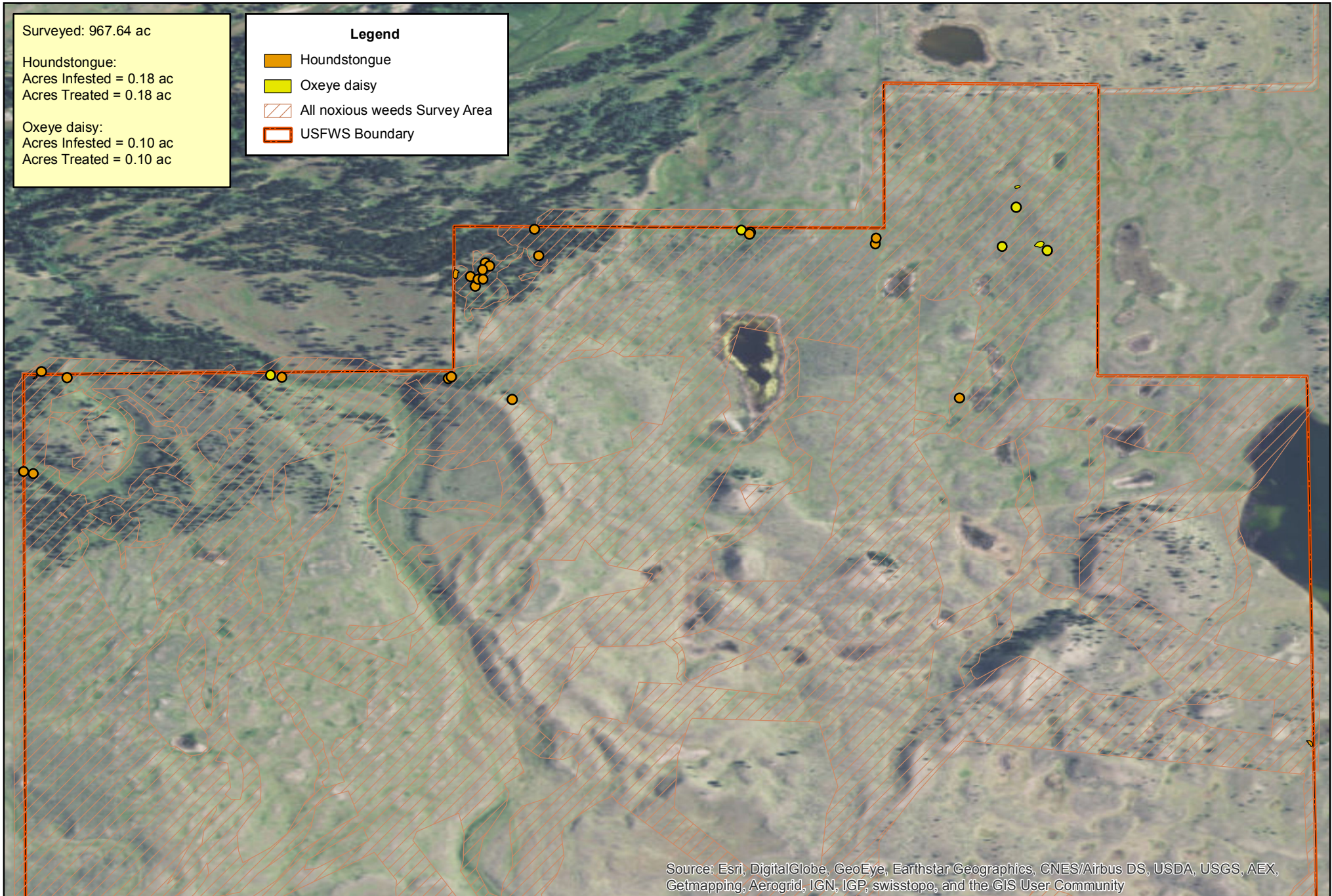
Legend

 Houndstongue

 Oxeye daisy

 All noxious weeds Survey Area

 USFWS Boundary



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



0 0.25 0.5 1 Miles

Reference image from ESRI ArcMap Basemap Imagery

2 of 3 Maps



U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Kleinschmidt Lake WPA - 2015 Survey Acres Infested & Treated

Surveyed: 595.69 ac

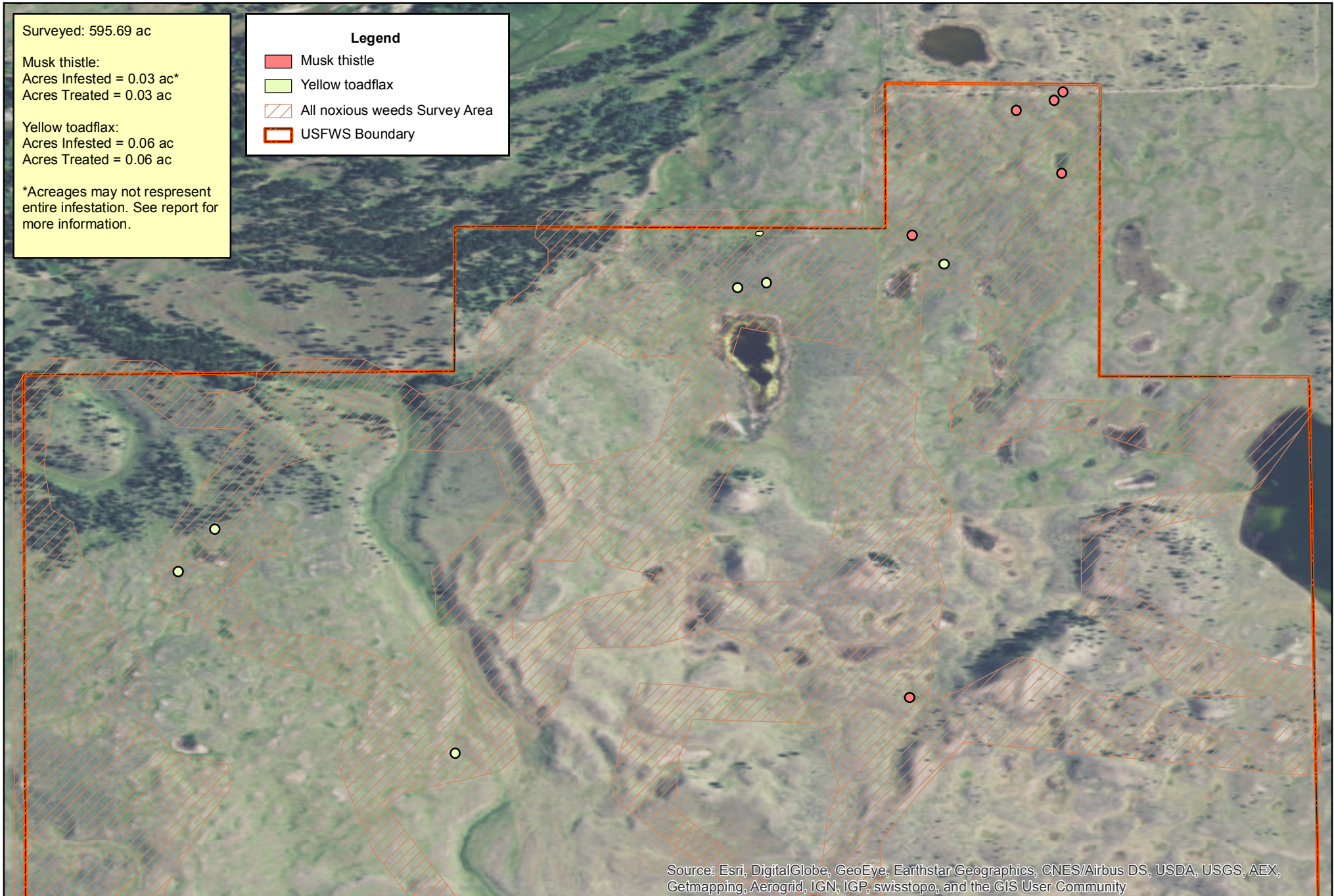
Musk thistle:
Acres Infested = 0.03 ac*
Acres Treated = 0.03 ac

Yellow toadflax:
Acres Infested = 0.06 ac
Acres Treated = 0.06 ac

*Acreages may not represent
entire infestation. See report for
more information.

Legend

- Musk thistle
- Yellow toadflax
- All noxious weeds Survey Area
- USFWS Boundary



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



0 0.25 0.5 1 Miles

Reference image from ESRI ArcMap Basemap Imagery

3 of 3 Maps

Benton Lake Wetland Management District

Savik WPA

Benton Lake ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Surveyed Acres Infested ²	Acres Treated ³
Houndstongue	63.11	0.06	0.06
Musk thistle	63.11	1.08	1.08
Canada thistle	63.11	0.19	0.19
Project Site Totals	63.11	1.33	1.33
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ The area or subset of infested area that has received some form of treatment as measured by GPS feature.			

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
June 9, 2015	Refuge Management Project	Houndstongue	2	Point to point chemical treatment of known infested areas
	Refuge Management Project	Canada thistle	2	Point to point chemical treatment of known infested areas
	Refuge Management Project	Musk thistle	2	Point to point chemical treatment of known infested areas

Coordination and Cooperation

- ISST proposal for treatment and other management scheduling needs were coordinated with WMD Manager, Jim Lange.
- Treating musk thistle in the Eastern portion of the WPA is highest priority because stalks are visible from the highway.

Prevention and Education

- Multiple species were targeted on this site to prevent further spread to surrounding areas.
- Surrounding roadways will continue to be a potential vector for further invasion on this site.

Early Detection and Rapid Response

- Early detection and rapid response was not the focus for this project. The goal of targeting

houndstongue and musk thistle on this site was for the purposes of containment and reducing the size and abundance of the current infestation.

Inventory and Monitoring

- During one visit to Savik WPA, ISST surveyed a total of 63.11 acres looking for all invasive species, treating houndstongue, musk thistle, and Canada thistle.
- Other weed species noted by crew members, but not targeted included field bindweed and field pennycress.

Management

- Two ISST members mechanically treated houndstongue during one day.
 - 0.06 acres of houndstongue were treated.
 - Senesced seed heads were bagged and disposed of in a dumpster.
 - Many historical locations did not have houndstongue, however satellite basal rosettes were found nearby during 50 meter buffered searches illustrating importance of consistent effort throughout the WPA. Otherwise, continued seed dispersal in other areas will continue to maintain the invasion.
 - Control efforts were only at historical locations of houndstongue.
 - All houndstongue encountered was treated.
- Over the course of one day two ISST members chemically treated musk thistle.
 - 1.08 acres of musk thistle were treated in 2015.
 - Noticeable decrease in musk thistle compared to previous year treatment.
 - Locations treated were primarily in the northern section of the unit.
- Two ISST members chemically treated Canada thistle during one day.
 - In 2015, ISST treated 0.19 acres of Canada thistle.
 - Most Canada thistle was located in the same areas as musk thistle; however, it was quite sparse.
 - All ISST activities in the Benton Lakes WMD were conducted point-to-point around historic observations of known weed populations at the request of the WMD Manager. Although this minimizes disturbance to the site, it reduces the ability of the ISST to detect new populations before they become established on the rest of the WPA. It also dramatically limits the scope of weed mapping data for tracking invasive species population size over time and prevents the use of these data for rigorously determining effectiveness or supporting adaptive management strategies. Additional resources and methodologies will be required by refuge staff now to determine or answer these types of questions.



Looking West at Savik WPA. Photo by Levi Morgan

Herbicide Applied

- ISST applied 1.58 ounces of *Milestone* to musk and Canada thistle at Savik WPA in 2015.

Recommendations

- All treatments being made on Savik WPA are proving effective. Similar efforts and timing should be continued in 2016.
- For musk thistle, mowing the plant during flowering can greatly reduce seed production. Not all plants bloom simultaneously so this may require repeated visits at weekly intervals over the 4 to 7 week blooming period.
- For Canada thistle, mowing reduces the nutrient storage in the roots and suppresses flower formation. For mowing to be most effective, it should be repeated every 3 to 4 weeks. Repeated mowing coupled with chemical treatments is the optimal control method for Canada thistle on the refuge.

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-9-15 **Time (start/stop):** 7:30 - 4:00

Location: (NWR or WPA) Sauk

County: Teton

Applicators/Operator: ☐ L. Morgan
☒ G. McClure ☐ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: 1-7 MPH, direction from W Temp.: 64 °F Humidity: 58 %

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 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 checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Plateau – BASF #241-365 | <input type="checkbox"/> Dye Used/Rate: _____ |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: _____ |
| <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 _____ ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7oz/gal **Gallons Sprayed:** 6 **Amt. of Chemical Applied:** 0.42 **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 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):

Sauk Musk thistle, very little grow back from last treatment on old portion. Treated some Canada T. on west end of unit. Dig some flowering houndstongue as time permitted.

COMMENTS:

Start 1gal
add 10gal
-5
6gal total

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-9-15 **Time (start/stop):** 7.30 -

Location: (NWR or WPA) Savik

County: Beaumont

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 1.7 MPH, direction from W Temp.: 64 °F Humidity: 58 %

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

App. Rate: 7.02/A **Gallons Sprayed:** 16 **Amt. of Chemical Applied:** 1.1402 **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 checked="" 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):

- Mechanical Musk on County Road
- Mechanical Houndstongue
see GM

COMMENTS:

Start	6g	0.4302
Add	10g	0.7102
<hr/>		
Total	16g	1.1402



U.S. Fish & Wildlife Service

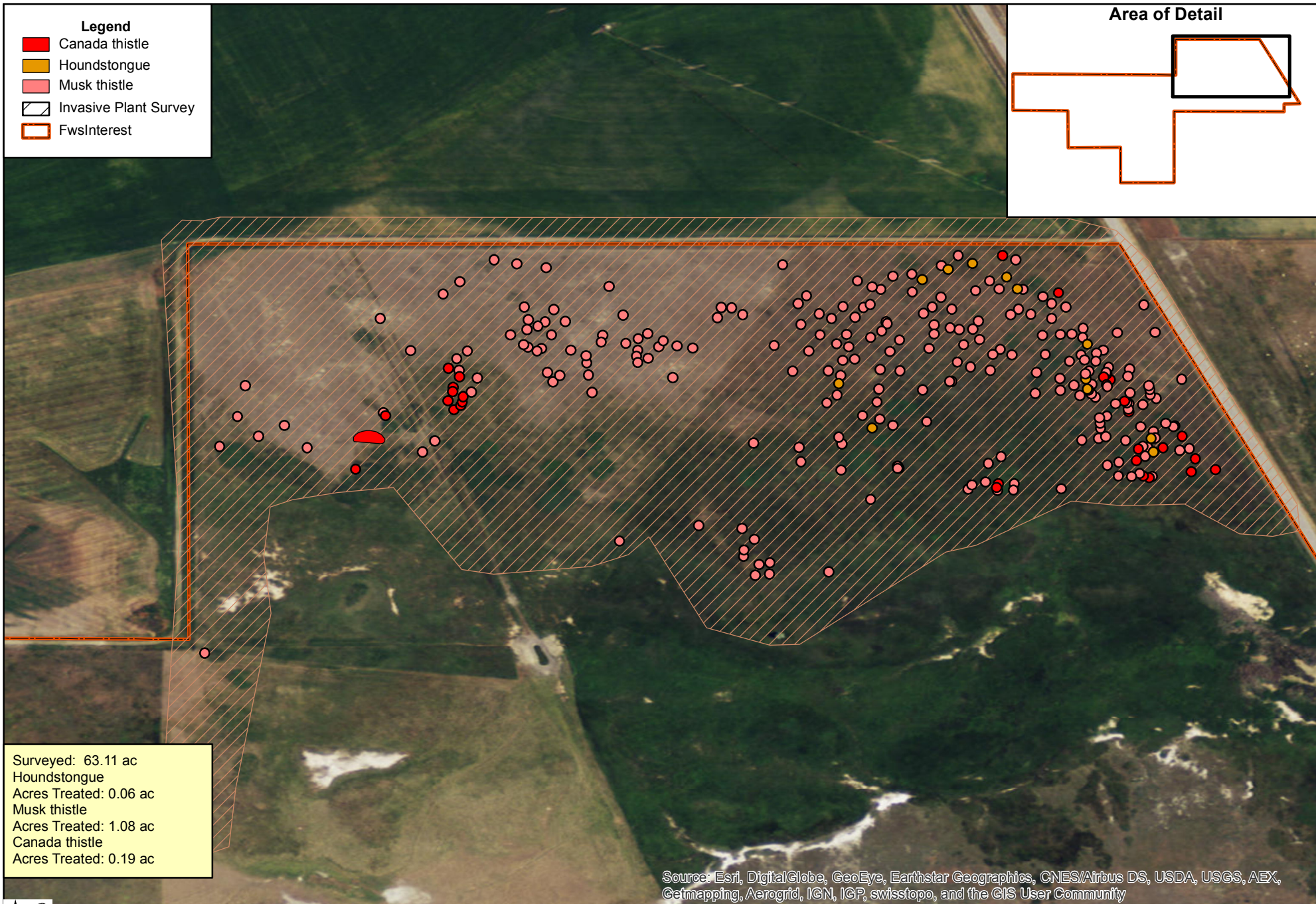
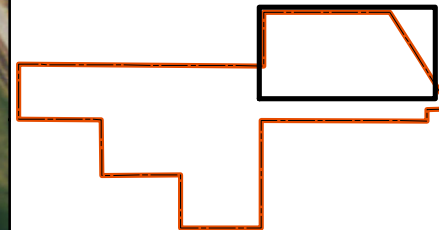
MOYOCO Invasive Species Strike Team

Savik WPA - 2015 Acres Infested & Treated

Legend

- Canada thistle
- Houndstongue
- Musk thistle
- Invasive Plant Survey
- FwsInterest

Area of Detail



0 0.05 0.1 0.2 Miles

All Invasive Species-1 of 1 Maps

Benton Lake Wetland Management District

Schrammeck Lake WPA

Benton Lake ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Surveyed Acres Infested ²	Acres Treated ³
Whitetop/Hoary cress	187.22	4.46	4.46
Project Site Totals	187.22	4.46	4.46
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ The area or subset of infested area that has received some form of treatment as measured by GPS feature.			

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
May 21, 2015	Refuge Management Project	Whitetop/Hoary cress	4	Point to point chemical treatment of historic populations within the WPA.
June 4, 2015	Refuge Management Project	Whitetop/Hoary cress	3	Point to point chemical treatment of historic populations within the WPA.

Coordination and Cooperation

- Scheduling and treatment priorities were developed from proposals and discussions with WMD Manager, Jim Lange.

Early Detection and Rapid Response

- Early detection and rapid response treatment of weeds is critical to keep large tracts of land free of invasive and noxious species that degrade wildlife habitat.

Inventory and Monitoring

- ISST surveyed 187.22 acres in 2015.
 - As requested by Jim Lange, point to point treatments were made as opposed to making treatments while transecting the entire WPA.
 - ISST members did a 50 meter buffered search around historical populations of all species treated at the WPA.
- ISST found a total of 4.46 acres to be infested with whitetop.
 - Herbicide treatments from 2011-2014 appear to be quite effective. Most populations sprayed in these years have shown a tremendous reduction in size and/or density.

- Other weed species noted by surveyors, but not targeted include: Canada thistle and field pennycress.

Management

- ISST treated 4.46 acres of whitetop during two visits in 2015.
 - All chemical applications made to whitetop at Schrammeck Lake WPA were conducted by ATV broadcast spraying to ensure full coverage of the area.
 - Lower water levels in Schrammeck Lake in 2015, allowed ISST crew members to access more infested areas which are typically inaccessible in higher water years.

All ISST activities in the Benton Lakes WMD were conducted point-to-point around historic observations of known weed populations at the request of the WMD Manager. Although this minimizes disturbance to the site, it reduces the ability of the ISST to detect new populations before they become established on the rest of the WPA. It also dramatically limits the scope of weed mapping data for tracking invasive species population size over time and prevents the use of these data for rigorously determining effectiveness or supporting adaptive management strategies. Additional resources and methodologies will be required by refuge staff to now to determine or answer these types of questions.

Herbicide Applied

- ISST applied 12.84 ounces of *Escort XP* on the WPA for treatments of whitetop.

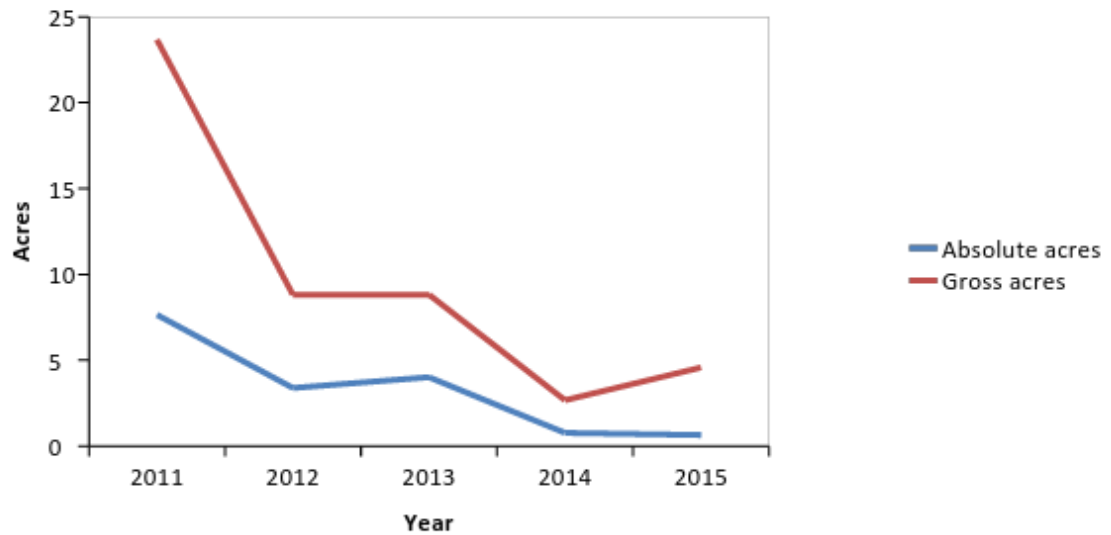
Recommendations

- Repeated chemical treatment and timing in 2016 will be most effective for further reducing the houndstongue infestation.
- Continued whitetop treatments should be made to eradicate the infestation. For best effectiveness, treatments should be made post-emergence from pre-bloom to bloom stages of the plants.

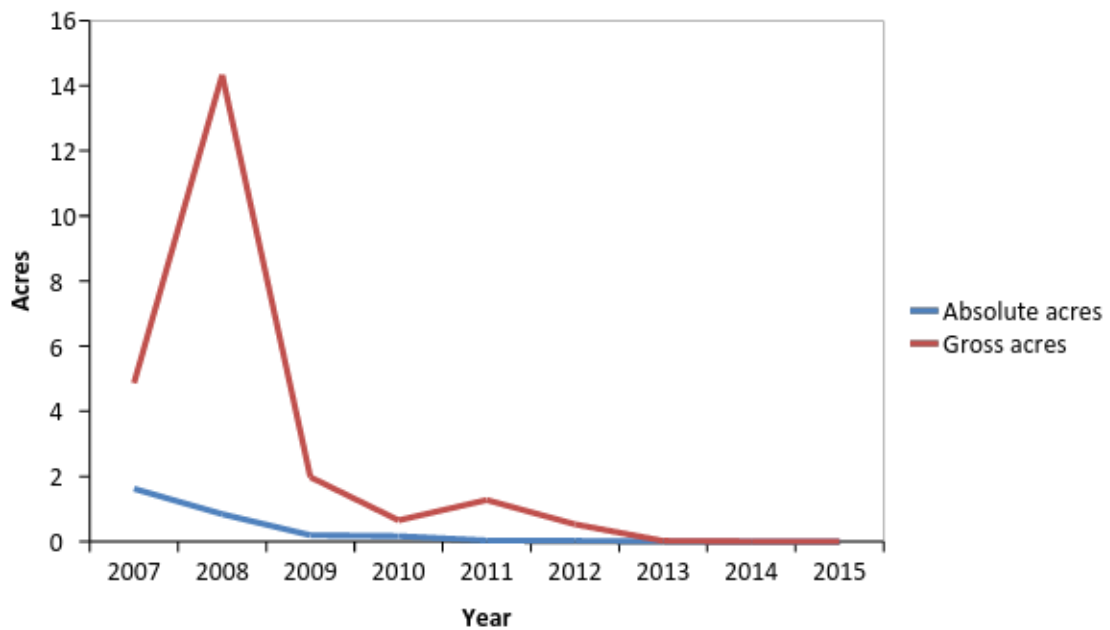


Looking at the Big Belt Mountains from Schrammeck Lake WPA. Photo by: Levi Morgan

Schrammeck Lake WPA - Whitetop



Schrammeck Lake WPA - Dalmation toadflax



BUSINESS U.S. Fish and Wildlife Service	LICENSE# 104765-15
NAME Benton Lake NWR Invasive Species Strike Team	ADDRESS (Refuge or WPA) Shran meek WPA
CITY, STATE, ZIP Great Falls, MT 59404	PHONE 406-727-7400 Ext. 213

[illegible]

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 05/21/15 Time (start/stop): 9:00a – 11:30a Applicators/Operator: ☒ J. Zarate
Location: (NWR or WPA) Schrammeck ☐ J. Wilson ☐ A. Crockett
County: Cascade ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2 MPH, direction from SW Temp: 75 °F Humidity: 45 %

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 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 checked="" 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 7.3 ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

Chem. Rate: 1oz/acre Gallons Sprayed: 10 gal Amt. of Chemical Applied: 1.37 oz Acres Treated: 1.37 ac

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 checked="" 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 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):

East side of WPA, large historic polygon (north end)

Location #2 (Site specific description):

COMMENTS:

More plants in historic area than shown on 2014 historic data map
Sprayer broke down; monitored around treated area

DAILY PESTICIDE APPLICATION RECORD

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

4567 Wildfowl Lane, Stevensville, MT 59870

406-544-2552

Date: 05/21/15 Time (start/stop): 9:00a – 11:30a Applicators/Operator: ☐ J. Zarate
Location: (NWR or WPA) Schrammeck ☒ J. Wilson ☐ A. Crockett
County: Cascade ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 2.5 MPH, direction from SW Temp: 75 °F Humidity: 45 %

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 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 checked="" 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 11 ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

Chem. Rate: 1oz/acre Gallons Sprayed: 10 gal Amt. of Chemical Applied: 0.90 oz Acres Treated: 0.90 ac

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 checked="" 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 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):

SE corner of property

Location #2 (Site specific description):

Started the polygon on the east side of property

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6/4/15 **Time (start/stop):** 11:00 - **Applicators/Operator:** ☒ L. Morgan
Location: (NWR or WPA) Schrammeck Lake WPA ☐ G. McClure ☐ K. Schuetz
County: Cascade ☐ B. Sparklin
Weather Conditions: Wind: 1.7 MPH, direction from North Temp.: 63.5 °F Humidity: 64 %

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 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 checked="" 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>1.1 lb/lc</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Sytec</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 ☐ Handgun ☒ Broadcast
☐ Backpack GPA ☐ Mechanical _____

App. Rate: 1.02/lc **Gallons Sprayed:** 23 gal **Amt. of Chemical Applied:** 1.86 oz **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 checked="" 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 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):

started in the NW corner of WPA visiting all historic points + polygons (point-to-point). GM started in NE corner. LM worked East toward GM and when we met, we worked South toward parking area to meet KS who was working North.

COMMENTS:

Levi	Start	End
10		0
10		0
10		3
Total		23 gal

DAILY PESTICIDE APPLICATION RECORD

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

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-1-15 **Time (start/stop):** _____ **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Shannock Lake ☒ G. McClure ☐ K. Schuetz
County: Cascade ☐ B. Sparklin
Weather Conditions: Wind: 1 MPH, direction from N Temp.: 65 °F Humidity: 64 %

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 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 checked="" 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>N/A</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syldoc</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 _____ ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 1.02/a **Gallons Sprayed:** 12 **Amt. of Chemical Applied:** 0.996 **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 checked="" 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 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):

Shannock - see Levi M.

COMMENTS:

Tanks: 12 gallons sprayed
.083 * 12 = 0.996 oz

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 6-15 **Time (start/stop):** 11:00-2:00

Location: (NWR or WPA) SHAMMERS Lake WPA

County: Cascade

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 1.7 MPH, direction from N Temp.: 65 °F Humidity: 64 %

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: N:1:4e
- ☒ Adjuvant Used: Syllac

Equipment Used: ☐ ATV GPA ☐ Handgun ☒ Broadcast

☐ Backpack GPA

☐ Mechanical

App. Rate: 1.02/Ac **Gallons Sprayed:** 24 **Amt. of Chemical Applied:** 3.802 **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 checked="" 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 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):

See LM

COMMENTS:

Start	End	4.2
15	0	1.2
10	1	0.48
Total		24 gal 3.88







U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

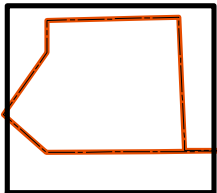
Schrammeck Lake WPA - 2015 Acres Infested & Treated

Legend

-  Whitetop/Hoary cress
-  USFWS Boundary
-  Invasive Plant Survey
-  Whitetop/Hoary Cress

Whitetop/Hoary cress
Acres Surveyed: 187.22 ac
Acres Infested: 4.46 ac
Acres Treated: 4.46 ac

Area of Detail



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

Benton Lake Wetland Management District

Upsata Lake WPA

Benton Lake and Lee Metcalf ISST

Accomplishments

Weed Species	Total Survey Acres ¹	Survey Acres Infested ²	Acres Treated ³
Black henbane	0	0.05	0.05
Canada thistle	121.73*	2.08	2.08
Hoary alyssum	210.38*	0.66	0.67
Houndstongue	210.38*	0.27	0.27
Leafy spurge	121.73*	0.04	0.04
Musk thistle	121.73*	1.42	1.42
Oxeye daisy	88.65*	0	0
Spotted knapweed	210.38*	20.65	21.87
Sulfur cinquefoil	0	0.02	0.01
Yellow toadflax	121.73*	2.44	2.48
Project Site Totals	210.38	27.63	28.89
¹ Area covered during the course of weed management activities regardless of presence or absence of target weed species as measured by perimeter in GIS. ² 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. ³ 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.			

Highlights

Schedule

Dates	Project Type	Target Species	Size of Crew	Project Notes
3-June-2015 to 4-June-2015	EDRR Chemical Treatment	Hoary alyssum, Oxeye daisy, Sulfur cinquefoil	5-6	Systematic transecting of entire site for treatment.
	Refuge Project Chemical Treatment	Spotted knapweed		
4-June-2015	Refuge Project Chemical Treatment	Black henbane, Houndstongue	5-6	Found to be more abundant than in previous years, so we were requested by manager to treat it as time permitted.
8-June-2015	EDRR Chemical Treatment	Hoary alyssum, Oxeye daisy, Sulfur cinquefoil	5	Continued treatments to complete priority projects.

	Refuge Project Chemical Treatment	Spotted knapweed, Black henbane, houndstongue		
14-Sept-2015 to 17-Sept-2015	EDRR Chemical Treatment	Leafy spurge	1	Treated a known and a new patch of leafy spurge.
	Refuge Project Chemical Treatment	Yellow toadflax	3	Point-to-point treatment using historic data.
	Refuge Project Chemical Treatment	Spotted knapweed and other noxious weeds	3	Re-treated all spotted knapweed detected as well as other noxious weeds.

Coordination and Cooperation

- Crew leaders Jessica Zarate and Levi Morgan coordinated with site manager Kevin Ertl using the “Strike Team Expectation and Accomplishment Checklist” (Appendix A) and all details of work to be completed were further discussed in person each week as the crews arrived.
- On September 14th, Kevin notified the crew leaders that many spotted knapweed plants sprayed in early June appeared untreated or if treated were not dying. There was also concern that obvious weeds such as the musk thistle plants growing along the roadway near the buildings had not been treated.
- Kevin requested ISST broadcast spray rather than spot spray whenever possible to avoid missing plants and requested this site be retreated to the extent possible. Crew leaders discussed these concerns with ISST supervisors and Bill Sparklin contacted Kevin to follow-up and further address concerns.
- In addition to other priorities, Kevin also requested the team treat weeds on the private property to the north and along the roadway coming into and bordering the site.

Prevention and Education

- Targeting new invaders and small infestations and preventing the spread of weeds into adjacent natural areas is a priority.
- Preventing invasion has a greater cost benefit than repeatedly treating long-standing infestations.

Early Detection and Rapid Response

Hoary alyssum

- Hoary alyssum was targeted for treatment throughout the 2015 field season and both historic and new locations were managed.
- If plants were in late flower and/or seeding they were pulled and bagged for disposal. Seedlings, rosettes, bolting, and early flower plants were all treated chemically.
- A total of 0.23 acres of hoary alyssum were treated in June with the majority of plants found to the west and southwest of the office. A couple of patches were also treated near the north property boundary and near the roadway at the south end of the east access road.
- In September, several new infestations of hoary alyssum were detected and managed throughout the site. During this survey period the team treated an additional 0.17 acres on the WPA and 0.26 acres on private property to the north.
- Hoary alyssum has multiple flushes of new seedlings throughout the growing season. Repeated treatments throughout the growing season are the most effective control strategy. However this type of intense effort and monitoring with multiple visits would not be able to be met by the Strike Team alone.
- Because there are multiple flushes in a single growing season, more hoary alyssum could be



Wide varieties of native wildflowers are present on the Upsata Lake WPA and controlling the invasive weed populations is critical protecting these native species. Photo by Jessica Zarate.

present than mapped and treated since surveys were not conducted in July or August when additional flushes may have occurred.

Leafy spurge

- A new patch was found and treated near the buildings in addition to the known patch of leafy spurge located near the west entrance.
- Plants were post-flower but not yet dried out and sparsely distributed within the patch.
- Given the limited distribution and density of this infestation eradication with continued management is likely. ISST recommends this species remain a priority for future monitoring and treatment efforts.

Sulfur cinquefoil

- Very few sulfur cinquefoil plants had been historically mapped on this site, so this species was targeted in June for chemical treatment. Three patches (0.01 ac) of sulfur cinquefoil were detected and treated.
- Sulfur cinquefoil can spread quickly under suitable conditions if left untreated. ISST recommends this species is a top priority for control and future monitoring.

Inventory and Monitoring

Oxeye daisy

- All historic locations of oxeye daisy were visited and all ISST members kept watch for this species during each visit throughout the field season. No oxeye daisy plants were found on site in 2015.
- This species should remain a priority for monitoring and treatment to ensure it has been eradicated from the site.

Management

Spotted knapweed

- Spotted knapweed is widely distributed throughout this site, sometimes occurring in large dense patches. The entire site was surveyed and all spotted knapweed found was treated.
- During the June trip, plants were very small and most were in rosette form.
- Only 1.51 acres of spotted knapweed was found during the June trip. As noted in the exit checklist, it is possible the team was too early in the season for optimal detection and treatment of this species.
- The team returned to the site in September and resurveyed the site for treatment. The team mapped and treated 19.30 acres onsite and an additional 1.04 acres north of the site and 0.01 acres along the roadway near the west entrance, for a total of 20.35 acres.
- All spotted knapweed found was treated and some treatment areas were that same as those covered in June. Differences in mapping (points verse polygons) accounts for some of the acreage differences between the treatments where areas were covered more than once.
- Since this site supports a high diversity of native plants including a Howell's gumweed (*Grindellia howellia*), a rare plant in Montana, management for the containment and removal of spotted knapweed is highly recommended.
- Because spotted knapweed produces multiple flushes in a single growing season, managers would receive better control with multiple treatments in a growing season.
- Managers may want to consider multiple strategies for managing the infestation in addition to herbicide applications, such as the introduction of biological control agents that could help suppress vigor and seeding.



In June, the crew had to stop often and search areas on foot to find small spotted knapweed plants to spray. Photo by Anna Crockett.

Yellow toadflax

- The team used historic data to manage yellow toadflax and found that some patches appear to have grown in size. The team also detected and treated several new infestations.
- At some historic locations, no yellow toadflax was found and it appears to have been suppressed or killed during 2014 treatments.
- The team mapped and treated 2.32 acres onsite and an additional 0.16 acres north of the site for a total of 2.48 acres treated. Treated acres are slightly larger than infested acres due to overlap of mapping data during treatment efforts.
- ISST used a tank mix of *Tordon* and *Overdrive* to treat dry upland areas and *Plateau* to treat low land infestations that are closer to the lake.
 - The *Tordon* tank mix may not be suitable for all areas of this site, due to its ability to readily leach through the soil and potentially contaminate shallow ground water.
 - Although *Plateau* is not ideal for control of yellow toadflax, it is known to primarily aid in the suppression of infestation, stunt growth and potentially inhibit seed production. *Plateau* may be the best option in some areas because there are not herbicides currently available that are well suited for good control and have low risk to the environment when site conditions have a shallow water table, highly permeable soils and seasonal flooding.
 - Unfortunately, *Plateau* can also pose a risk in some situations for water contamination through leaching as well. Therefore, ISST recommends a thorough review of site conditions and current infestation prior to future management.
- Control of yellow toadflax infestations on the WPA will be long-term and costly given the size and distribution of patches present throughout the site. Yellow toadflax is an aggressive invader and difficult to control.

Other noxious weeds – Black henbane, Canada thistle, Houndstongue, Musk thistle

- Black henbane, Canada thistle, houndstongue, and musk thistle were not priority species for treatment but were sprayed per the request of the refuge manager as time permitted.
- Black henbane was included for treatment during June surveys because it appeared to be more prevalent this season than in previous years. Since this site is not currently being grazed, removal with herbicide is a viable option.
- Houndstongue was treated in both June and September and all plants found were treated. Flowering heads, developing seeds and old seed stalks were removed prior to spraying.
- Canada thistle and musk thistle were not sprayed in June as they were not requested to be treated by the site manager. These species were later added to the request for treatment of “all noxious weeds” during the September visit.


Herbicide Applied

- 1.02oz of *Chaparral* was used for treatment of black henbane, hoary alyssum, houndstongue, Russian knapweed, spotted knapweed and sulfur cinquefoil.
- 102.98oz of *Milestone* was used for treatment of Canada thistle, musk thistle and spotted knapweed.
- 1.14oz of *Plateau* was used for treatment of leafy spurge and yellow toadflax.
- 90.99oz of *Tordon 22K* mixed with 17.02oz of *Overdrive* was used for treatment of hoary alyssum, houndstongue, musk thistle, spotted knapweed, and yellow toadflax.

Proposed 2016 Schedule

- Hoary alyssum should continue to be treated throughout the growing season with the initial treatment beginning in late May to early June.
- Oxeye daisy should be monitored for and treated in late June or early July depending upon the environmental conditions.
- Leafy spurge should remain high priority for treatment. Clipping of developing flowers and seeds could be done during the summer followed by chemical treatment in September.
- Spotted knapweed should be treated more than once if it's a priority for management. The introduction of biological control agents may also be helpful given the extent of infestations on

and surrounding the site. The seed bank on this site is well established and wide-spread, so an aggressive approach will likely be required to control spotted knapweed on this WPA.



Appendix A

Strike Team Expectation and Accomplishment Checklist

Arrival Interview

Station: Upsata WPA =

Date of Visit: 06/3/15-06/4/15

Objectives and Priority Areas defined:

Species	Unit	Section of Unit	Inventory/ Monitor	Treat	Chemical (ref or isst)
Spotted knapweed	Upsata	Prioritize areas based on discussion with Kevin	No	Spray & map	Milestone or Chaparral – ISST or Refuge
Hoary alyssum		Entire site	Yes, if not treated	No	Excort XP or Chaparral - ISST
Sulfur cinquefoil		Historic location	No	Spray & map	Milestone or Chaparral –
Oxeye daisy		Historic location	No	Spray & map	ISST or Refuge

Notes:

The team was originally scheduled to work this site June 1-4 but severe thunderstorms were forecast for June 1 and 2, so team was asked by Bill Sparklin not to begin work on this site until June 3rd. Bill will join our team to work on Wed and Thurs this week.

ATV Use: (define whether allowed, if partial allowance any restricted areas or travel directions, including only along fence line or not, only along two-track or if can systematically traverse project site, or if point-to-point treatment)

ATV use is permitted throughout the site.

Other access issues, conflicts, etc...:

None.

Station or Site Manager (or
Acting): _____ Date: _____

(back has Exit Interview)

Exit Interview

Species	Unit	Section of Unit	Inventory/Monitor or	Treat	Completed (yes or no with explanation)
Hoary alyssum	Upsata	Entire Site	Monitored during rain events but most everything that was mapped was managed this week.	Yes, sprayed with Chaparral.	See notes below.
Spotted knapweed					
Sulfur cinquefoil		Not priority but treated when feasible			
Oxeye daisy					
Houndstongue					
Black henbane					

Notes:

Systematically transected entire site searching for hoary alyssum and spotted knapweed. Historic data from the past 5 years were used to do survey for priority plants that had been mapped in the past. We covered all areas except for around the lodge and hills east of there; and the area between the two access roads. I would expect with good weather, we should be able to finish the site on Monday of next week before moving to another site.

Black henbane and houndstongue were observed to be more abundant than in previous years so after meeting with Kevin the evening of June 3, we treated these species opportunistically as they were found.

Sulfur cinquefoil and oxeye daisy are EDRR species on this site. Oxeye was found and treated in 2013, none found in 2014 and none found again this year. In previous years sulfur cinquefoil was detected along the east side of the site. Historic data was not used to treat this species but when sulfur was found with confident identification it was treated also.

High diversity of wildflowers observed.

Concerns with Project:

Rain occurred from 2:05pm-2:20pm and then it cleared up. It sprinkled lightly again from 3:50pm-4:00pm.

Station or Site Manager (or

Acting): _____ Date: _____



Appendix B

Strike Team Expectation and Accomplishment Checklist

Arrival Interview

Station: Upsata & Blackfoot & Kleinschmidt WPA Date of Visit: 06/8/15-06/11/15

Objectives and Priority Areas defined:

Species	Unit	Section of Unit	Inventory/ Monitor	Treat	Chemical (ref or isst)
Spotted knapweed	Upsata	Prioritize areas based on discussion with Kevin	No	Spray & map	Milestone or Chaparral – ISST or Refuge
Hoary alyssum		Entire site	Yes, if not treated	No	Excort XP or Chaparral - ISST
Sulfur cinquefoil		Historic location	No	Spray & map	Milestone or Chaparral – ISST or Refuge
Oxeye daisy		Historic location	No	Spray & map	
Hoary alyssum	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Spray & map	Chaparral-ISS T; Will switch to Milestone if exclusively spraying spotted knapweed
Oxeye daisy		Point-to-point historic locations plus 30M buffer around these and new patches	No		
Spotted knapweed		Prioritize areas based on discussion with Kevin	No		
Common tansy & Sulfur cinquefoil		Point-to-point historic locations plus 30M buffer around these and new patches	No		

Notes: Work on completing Upsata before moving to the Blackfoot. Gear will be powerwashed at Kevin's between sites.

Met with Kevin after completing Upsata and he would prefer for us to only treat oxeye and hoary at Blackfoot (2 people) and the rest of the crew start priorities on Kleinschmidt. Sent text to Lindy and Bill to get ok to make this change and it was approved. See Exit notes for details of projects worked on Kleinschmidt.

ATV Use: (define whether allowed, if partial allowance any restricted areas or travel directions, including only along fence line or not, only along two-track or if can systematically traverse project site, or if point-to-point treatment)

ATV use is permitted throughout the site.

Other access issues, conflicts, etc...: None.

Station or Site Manager (or
Acting): _____ Date: _____

(back has Exit Interview)

Exit Interview

Species	Unit	Section of Unit	Inventory/ Monitor	Treat	Completed (yes or no with explanation)
Spotted knapweed	Upsata	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all historic areas were treated.
Hoary alyssum		Entire site	No.	Yes	Yes, all historic areas were treated but we may have been a little early, not a lot was found.
Sulfur cinquefoil		Historic location	No	Some treated.	Not priority species but some sulfur cinquefoil was found and treated. Historic patches of oxeye were surveyed for but none was found.
Oxeye daisy			No	None found.	
Hoary alyssum	Blackfoot	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Yes, all historic patches were searched and all found was treated, however may have been early, not much was found.
Oxeye daisy					Yes, historic areas were surveyed and all found was treated.
Meadow hawkweed		Newly detected	Yes	No	One patch found and mapped, needs to be verified and will treat if invasive species.
Spotted knapweed	Kleinschmidt	Point-to-point historic locations plus 30M buffer around these and new patches	No	Yes	Several areas completed, had some problems with historic data display but will continue working on this project next week.
Houndstongue					
Oxeye daisy					
St. Johnswort					
Hoary alyssum					
Yellow toadflax		Monitor if	Yes	No	No new patches

Dalmatian toadflax		incidentally found and not previously mapped			found.
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Notes:

Upsata worked and completed this week on June 8th. Blackfoot worked by 2 people and the hoary alyssum and oxeye daisy projects were completed on June 9th. Kleinschmidt was started by 3 people June 9th and then a 5 person crew worked this site on June 10 and 11. We will return to this site on Monday June 15th.

Concerns with Project:

There was heavy rain during the night of June 9th. Wet and foggy conditions on June 10th resulted in delays to start up the morning of June 10th. The team completed administrative tasks in the early morning before heading out.

Station or Site Manager (or
Acting): _____ Date: _____



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: 06/3/15 **Time (start/stop):** 1:30 – 4 pm

Applicators/Operator: ☒ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NW Temp.: 70 °F Humidity: 45 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA 104 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** <0.25g **Amt. of Chemical Applied:** <0.006 **Acres Treated:** 0.002

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 boundary on the east side of access road

Location #2 (Site specific description):

COMMENTS:

Rained ~ 15 min. (2:06 pm – 2:20 pm)

Sprinkled lightly 3:50 pm – 4 pm)

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: 06/3/15 **Time (start/stop):** 2:06pm – 4:00 pm **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Upsata ☐ J. Wilson ☒ A. Crockett

County: Powell ☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NW Temp.: 70 °F Humidity: 45 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA78 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 **Amt. of Chemical Applied:** 0.008 **Acres Treated:** 0.003

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):

North boundary, East of access road

Location #2 (Site specific description):

COMMENTS:

Rained ~ 15 min. (2:06 pm – 2:20 pm)

Sprinkled lightly 3:50 pm – 4 pm)

Pump was leaking on bike #7 in morning, fixed leak in afternoon.

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: 06/3/15 **Time (start/stop):** 9am- 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☐ A. Crockett

County: Powell

☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NW Temp.: 70 °F Humidity: 45 %

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

☐ Aquaneat – NuFarm #228-365

☐ Tordon & Distinct – Tank Mix

☒ Chaparral – Dow #62719-597

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

☐ Curtail – Dow AgroSciences #62719-48

☐ Metcel & Milestone – Tank Mix

☐ EscortXP – DuPont #352-439

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

☐ Habitat – BASF #241-426

☐ Escort XP & Milestone – Tank Mix

☐ Metcel VMF– Agsurf #352-439-8558

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

☐ Milestone – Dow AgroSciences #62719-519

☐ Other _____

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☒ Dye Used/Rate: Highlight 3oz/10gal

☐ Tordon & Telar XP

☒ Adjuvant Used: Syltac 0.1% v/v

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

Equipment Used: ☒ ATV GPA 42 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.01 **Acres Treated:** 0.02

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):

SE corner of wpa, lots of grass and some wetlands, lots of flowering natives. Some hills and ground squirrel holes.

Location #2 (Site specific description):

COMMENTS:

Found patches of spotted knapweed and 1 or 2 small points of cinquefoil.

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: 06/3/15 **Time (start/stop):** 9am- 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NW Temp.: 70 °F Humidity: 45 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA74 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical _____

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.03 **Acres Treated:** 0.01

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 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 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):

SE corner between boundary and middle road.

Location #2 (Site specific description):

COMMENTS:

Monitored a point of sulfur cinquefoil.
Dulaney's unit was full by end of day. Abra switched to bike 6 in beginning.

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: 06/3/15 **Time (start/stop):** 9am- 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☒ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from NW Temp.: 70 °F Humidity: 45 %

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

☐ Aquaneat – NuFarm #228-365

☐ Tordon & Distinct – Tank Mix

☒ Chaparral – Dow #62719-597

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

☐ Curtail – Dow AgroSciences #62719-48

☐ Metcel & Milestone – Tank Mix

☐ EscortXP – DuPont #352-439

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

☐ Habitat – BASF #241-426

☐ Escort XP & Milestone – Tank Mix

☐ Metcel VMF– Agsurf #352-439-8558

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

☐ Milestone – Dow AgroSciences #62719-519

☐ Other _____

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☒ Dye Used/Rate: Highlight 3oz/10gal

☐ Tordon & Telar XP

☒ Adjuvant Used: Syltac 0.1% v/v

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 4 gal **Amt. of Chemical Applied:** 0.35 **Acres Treated:** 0.14

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 of access road all the way to the northern most boundary of property

Location #2 (Site specific description):

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD
 US Fish and Wildlife Service – Invasive Species Strike Team
 922 Bootlegger Trail Great Falls, MT 59404
 406-544-2552

Licenses Used: ☒ ~~Levi Morgan 104765-15~~ (Ag Plant Pest, Aquatic and Regulatory Weed)
 William Sparklin 104342-15

Date: 6/9/15 **Time (start/stop):** 12:30 **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Opseeta ☐ G. McClure ☐ K. Schuetz
County: Dorset ☒ B. Sparklin

Weather Conditions: Wind: 3-5 MPH, direction from NW Temp.: 75 °F Humidity: 46 %

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>H₂ - 15 g/L</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syltinc 0.01 %</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 116 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical _____

App. Rate: 2.5 **Gallons Sprayed:** 1 **Amt. of Chemical Applied:** 0.23 **Acres Treated:** 0.05

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 checked="" 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 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):

Along Rd, ~~near~~ corner
 SE

COMMENTS:

Visible reduction in
 spkn density. Sprayed
 w/ Dalaver & Abra.
 Black henbane is increasing
 on site.

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☐ ~~Levi Morgan 104765-15~~ (Ag Plant Pest, Aquatic and Regulatory Weed)
William Sparklin 104342-15

Date: 6/4/2015 **Time (start/stop):** 7:30 AM

Location: (NWR or WPA) UPATA

County: Powell

Applicators/Operator: ☐ L. Morgan
☐ G. McClure ☐ K. Schuetz
☒ B. Sparklin

Weather Conditions: Wind: Cal MPH, direction from Temp.: 50 °F Humidity: 73 %

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: 1L - light
☒ Adjuvant Used: Syl-TAC .01 %

Equipment Used: ☒ ATV GPA 116 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

App. Rate: 2.5 % **Gallons Sprayed:** 4 **Amt. of Chemical Applied:** .092 **Acres Treated:**

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 checked="" type="checkbox"/> Hoary alyssum | <input type="checkbox"/> Perennial pepperweed | <input type="checkbox"/> Tall buttercup |
| <input 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 type="checkbox"/> Common teasel | <input 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):

Started spraying by gate on west side.
Then worked with Arroyo until ~11:30. NE of old cabins

COMMENTS:

May have double-sprayed area by the gate. No dye visible on any plants I sprayed.

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: 06/4/15 **Time (start/stop):** 8:30am-2pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☒ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 54 °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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast

☐ Backpack GPA ☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.09 **Acres Treated:** 0.04

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: Black Henbane

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

☐ Senescing ☐ Senesced

Location #1 (Site specific description):

West side of access road at the northern most boundary of property near private residence

Location #2 (Site specific description):

South side of access road from the entrance past house and office buildings/garage.

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: 06/4/15 **Time (start/stop):** 8:30am-2:10pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 54 °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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA 74 ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☐ Mechanical

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.034 **Acres Treated:** 0.01

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):

Mapped on jess's map

South to north along east boundary to road

Location #2 (Site specific description):

Hillside by south side gate

COMMENTS:

Need to keep spraying at my stopping point.

Covered hills by walking

Bagged hounds tongue skeletons

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: 06/4/15 **Time (start/stop):** 8:30am-2:30pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☐ A. Crockett

County: Powell

☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 54 °F Humidity: 71 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA 42 ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☒ Mechanical Hand pull

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.25 gal **Amt. of Chemical Applied:** 0.002 **Acres Treated:** 0.006

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):

Northern half of SW corner, open grassland and some ponds/wetlands.

Location #2 (Site specific description):

Northwest slope surrounding lodge building, steep, mostly grass, few trees.

COMMENTS:

Started treating houndstongue. Found some plants in seasonal drainage of SW corner where it hadn't been before.

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: 06/4/15 **Time (start/stop):** 8:30am-2:15pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☒ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 54 °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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA 78 ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☒ Mechanical Hand pull Loc. 2

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 0.5 gal **Amt. of Chemical Applied:** 0.02 **Acres Treated:** 0.006

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):

N of boundary, east of access road. Finished up southside of my transect area above small pond, tied in with others

Location #2 (Site specific description):

Hillside behind and around lodge and cabin. South of access road

Location #3 Along dead end road

COMMENTS:

Juno #5 gave error message of chem. Usage table not found, allowed me to still fill out table.

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: 06/4/15 **Time (start/stop):** 8:15am-11:30pm

Applicators/Operator: ☒ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 0 MPH, direction from Temp.: 54 °F Humidity: 71 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA 104 ☒ Handgun ☐ Broadcast

☐ Backpack GPA

☒ Mechanical on hillsides

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 1 gal **Amt. of Chemical Applied:** 0.02 **Acres Treated:** 0.01

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):

East side of site, central area around seasonal drainage.

Location #2 (Site specific description):

Central area between access road and north end.

COMMENTS:

Hoary- pre flowering

HT- basal rosette to flowering

Spotted- pre flowering

Much less knapweed found than in previous years.

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: 06/8/15 **Time (start/stop):** 1pm-3pm

Applicators/Operator: ☒ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from S Temp.: 88 °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: Highlight 3oz/10gal

☒ Adjuvant Used: Syltac 0.1% v/v

Equipment Used: ☒ ATV GPA 104 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☒ Mechanical on hillsides

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 4 gal **Amt. of Chemical Applied:** 0.1 **Acres Treated:** 0.04

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 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 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):

North end of central area between access roads.

Location #2 (Site specific description):

COMMENTS:

Stopped spraying due to leak in handgun. Did repairs the remainder of the day.

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: 06/8/15 **Time (start/stop):** 1pm-3:30pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☒ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 5 MPH, direction from S Temp.: 88 °F Humidity: 34 %

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 hand/shovel

Chem. Rate: _____ **Gallons Sprayed:** _____ **Amt. of Chemical Applied:** _____ **Acres Treated:** 0.005

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 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 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):

Hill area near lodge and east of lodge. Between north access road and east of road leading to lodge from the west.

Location #2 (Site specific description):

COMMENTS:

Finished up site that Abra and I started 6/4
Spotted knapweed – rosette and some pre flower
Worked on hills and in trees where atvs couldn't go

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: 06/8/15 **Time (start/stop):** 1- 3:45pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☐ J. Wilson ☐ A. Crockett

County: Powell

☒ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 5 MPH, direction from S Temp.: 88 °F Humidity: 34 %

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

☐ Aquaneat – NuFarm #228-365

☐ Tordon & Distinct – Tank Mix

☐ Chaparral – Dow #62719-597

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

☐ Curtail – Dow AgroSciences #62719-48

☐ Metcel & Milestone – Tank Mix

☐ EscortXP – DuPont #352-439

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

☐ Habitat – BASF #241-426

☐ Escort XP & Milestone – Tank Mix

☐ Metcel VMF– Agsurf #352-439-8558

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

☐ Milestone – Dow AgroSciences #62719-519

☐ Other _____

☐ Plateau – BASF #241-365

☐ Telar XP – DuPont #352-654

☐ Dye Used/Rate:

☐ Tordon & Telar XP

☐ Adjuvant Used: [Click here to enter text.](#)

☐ Transline – Dow AgroSciences #62719-259

☐ Tordon 22K – Dow AgroSciences #62719-6

Equipment Used: ☐ ATV GPA ☐ Handgun ☐ Broadcast

☐ Backpack GPA

☒ Mechanical hand/shovel

Chem. Rate: _____ **Gallons Sprayed:** _____ **Amt. of Chemical Applied:** _____ **Acres Treated:** 0.005

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):

East side of buildings, NE side of access road in trees and on steep terrain not accessible by atv

Location #2 (Site specific description):

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: 06/8/15 **Time (start/stop):** 1 – 4pm

Applicators/Operator: ☐ J. Zarate

Location: (NWR or WPA) Upsata

☒ J. Wilson ☐ A. Crockett

County: Powell

☐ A. Kaiser ☐ D. Miller

Weather Conditions: Wind: 4 MPH, direction from SW Temp.: 88 °F Humidity: 34 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 28 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical [Click here to enter text.](#)

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 2 gal **Amt. of Chemical Applied:** .17 **Acres Treated:** 0.07

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 checked="" 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 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):

Middle section of property between both access roads.

Location #2 (Site specific description):

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: 06/8/15 **Time (start/stop):** 1:00pm – 3:30 pm **Applicators/Operator:** ☐ J. Zarate

Location: (NWR or WPA) Upsata ☐ J. Wilson ☐ A. Crockett

County: Powell ☐ A. Kaiser ☒ D. Miller

Weather Conditions: Wind: 4 MPH, direction from S Temp.: 88 °F Humidity: 35 %

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: Highlight 3oz/10gal

☒ Adjuvant Used: Syl-tac 4oz/ac

Equipment Used: ☒ ATV GPA 74 ☒ Handgun ☐ Broadcast

☐ Backpack GPA _____ ☐ Mechanical [Click here to enter text.](#)

Chem. Rate: 2.5oz/ac **Gallons Sprayed:** 2 gal **Amt. of Chemical Applied:** .068 **Acres Treated:** 0.03

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):

The hill between the two roads by the south gate.
Diverse wildflowers.

Location #2 (Site specific description):

COMMENTS:

Houndstongue was flowering
Spotted knapweed was rosette

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☒ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/16/15 **Time (start/stop):** 7:00 - 4:30

Location: (NWR or WPA) Upsata WPA

County: Powell

Applicators/Operator: ☒ L. Morgan

☐ G. McClure ☐ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 5 MPH, direction from West Temp.: 62 °F Humidity: 71 %

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 Tordon @ 3.2 oz/ac
Overdrive @ 1.22 oz/ac
- ☒ Dye Used/Rate: Hi-Light
- ☒ Adjuvant Used: MSO @ 1.22 oz/ac

Equipment Used: ☒ ATV GPA 13.01 ☐ Handgun ☒ Broadcast

☐ Backpack GPA ☐ Mechanical

App. Rate: **Gallons Sprayed:** 20 **Amt. of Chemical Applied:** **Acres Treated:** 49.19 oz Tordon 9.22 oz Overdrive

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 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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

Att- ISSI visited and treated all historic Y. toadflax locations.
- Some areas were larger than historical data showed.
- Found quite a few new/never before mapped populations. - Mostly around the Cabin in the North Corner of the Site.

COMMENTS:

- ISSI was asked to treat all invasive species on the neighbors property (cabin in the North corner)
- where applicable, most of the infested areas will be broadcast sprayed.
- treatments will be made around all buildings right up to the edge of houses, lodge, + office buildings.

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/16/15 **Time (start/stop):** 700-430 **Applicators/Operator:** ☒ L. Morgan
Location: (NWR or WPA) Upsala ☐ G. McClure ☐ K. Schuetz
County: Powell ☐ B. Sparklin

Weather Conditions: Wind: 5 MPH, direction from West Temp.: 62 °F Humidity: 71 %

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 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 checked="" type="checkbox"/> Milestone – Dow AgroSciences #62719-519 | <input checked="" type="checkbox"/> Other _____ |
| <input type="checkbox"/> Plateau – BASF #241-365 | <input checked="" type="checkbox"/> Dye Used/Rate: <u>Hi-light</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>W50 @ 1.20 oz / 10 gal</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 13.01 ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7oz/ac **Gallons Sprayed:** 60 **Amt. of Chemical Applied:** 32.3oz **Acres Treated:** _____

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 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 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):

Started at WPA entrance and
sprayed all the knapweed found
between lodge, entrance, Road and
lakeshore.

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☐ *Levi Morgan 104765-15* (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-16 **Time (start/stop):** _____ **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Upseta ☒ G. McClure ☐ K. Schuetz
County: _____ ☐ B. Sparklin

Weather Conditions: Wind: _____ MPH, direction from _____ Temp.: _____ °F Humidity: _____ %

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 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 checked="" 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>W/Lite</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syltco</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 10.08 ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7.04/gal **Gallons Sprayed:** 30 **Amt. of Chemical Applied:** 208 **Acres Treated:** 26.02

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 checked="" 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 checked="" 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):

See L.M.

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 7-16 **Time (start/stop):** _____ **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) OpSela ☒ G. McClure ☐ K. Schuetz
County: _____ ☐ B. Sparklin

Weather Conditions: Wind: _____ MPH, direction from _____ Temp.: _____ °F Humidity: _____ %

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 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 checked="" type="checkbox"/> Plateau – BASF #241-365 | <input type="checkbox"/> Dye Used/Rate: <u>Hil 10</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>MSO</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 88 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 110²/60 **Gallons Sprayed:** 9.25 **Amt. of Chemical Applied:** 1.14 **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 type="checkbox"/> Leafy spurge | <input type="checkbox"/> Russian knapweed | <input checked="" 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):

See LM

COMMENTS:

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-16-15 **Time (start/stop):** 7:15-4:00

Location: (NWR or WPA) Upsate

County: _____

Applicators/Operator: ☐ L. Morgan

☐ G. McClure ☒ K. Schuetz

☐ B. Sparklin

Weather Conditions: Wind: 5 MPH, direction from West Temp.: 62 °F Humidity: 71 %

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: iso @ 1pt/1c

Equipment Used: ☐ ATV GPA 13.06 ☐ Handgun ☐ Broadcast

☐ Backpack GPA _____

☐ Mechanical _____

App. Rate: 7oz/1c **Gallons Sprayed:** 20 **Amt. of Chemical Applied:** 10.72 **Acres Treated:** 0.5

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):

road section
see Cam

COMMENTS:

2oz Start
0.2 End
2oz Total

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-18-15 **Time (start/stop):** 7:15-4:00

Location: (NWR or WPA) ~~Klausschamper~~ Upsala

County: _____

Applicators/Operator: ☐ L. Morgan
☐ G. McClure ☒ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: 5 MPH, direction from West Temp.: 62 °F Humidity: 71 %

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 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 checked="" type="checkbox"/> Other Tordon @ 32 oz/Ac |
| <input type="checkbox"/> Plateau – BASF #241-365 | Overdose @ 602/Ac |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Dye Used/Rate: Hi lig Lt |
| <input type="checkbox"/> Tordon & Telar XP | <input checked="" type="checkbox"/> Adjuvant Used: MSO 160/Ac |
| <input type="checkbox"/> Transline – Dow AgroSciences #62719-259 | |
| <input type="checkbox"/> Tordon 22K – Dow AgroSciences #62719-6 | |

Equipment Used: ☒ ATV GPA 13.06 ☐ Handgun ☒ Broadcast

☐ Backpack GPA

☐ Mechanical

App. Rate: T- 320z/Ac **Gallons Sprayed:** 17g **Amt. of Chemical Applied:** Tordon - 41.8 oz **Acres Treated:**
0-602/Ac
Overdose - 7.8 oz

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 checked="" type="checkbox"/> Hoary alyssum | <input type="checkbox"/> Perennial pepperweed | <input type="checkbox"/> Tall buttercup |
| <input 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 checked="" 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):

Historical sites see map
boundaries, neighbors property
per Kevin per Levi

COMMENTS:

Start 7g
+ 10g
End 0g
Total 17g

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9/17/15 **Time (start/stop):** 8:30 - 11:00 **Applicators/Operator:** ☒ L. Morgan
Location: (NWR or WPA) WPSATA WPA ☐ G. McClure ☐ K. Schuetz
County: Beaumont ☐ B. Sparklin

Weather Conditions: Wind: 0 MPH, direction from — 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 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 checked="" 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</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>SYL-Tac</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 13.01 ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7oz/ac **Gallons Sprayed:** 20 **Amt. of Chemical Applied:** 10.72oz **Acres Treated:** _____

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 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 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):

- Sprayed all knapweed around neighbors cabins up to WPA property.
- Started transecting in SE corner of WPA treating entire infested area.

COMMENTS:

5.36
5.36
10.72

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-17-15 **Time (start/stop):** _____ **Applicators/Operator:** ☐ L. Morgan
Location: (NWR or WPA) Upsala ☒ G. McClure ☐ K. Schuetz
County: Powell ☐ B. Sparklin

Weather Conditions: Wind: 1 MPH, direction from S Temp.: 46 °F Humidity: 64 %

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 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 checked="" 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>Hilite</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syltar</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 10.08 ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7.04 gal **Gallons Sprayed:** 14 **Amt. of Chemical Applied:** 9.802 **Acres Treated:** _____

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 type="checkbox"/> Bull thistle | <input type="checkbox"/> Houndstongue | <input type="checkbox"/> Poison hemlock | <input type="checkbox"/> Tansy ragwort |
| <input checked="" 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 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):

COMMENTS:

Start | end | T
4 | 2 | 4
10 | 8 | 10
14

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – *Invasive Species Strike Team*
922 Bootlegger Trail Great Falls, MT 59404
406-544-2552

Licenses Used: ☐ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-17-15 **Time (start/stop):** 8:30 - 12:00

Location: (NWR or WPA) Ugata

County: _____

Applicators/Operator: ☐ L. Morgan
☐ G. McClure ☒ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: 1 MPH, direction from South Temp.: 46 °F Humidity: 64 %

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 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 checked="" 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>HiLight</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: <u>Dyntac</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 13.06 ☐ Handgun ☒ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____

App. Rate: 7oz/Ac **Gallons Sprayed:** 20g **Amt. of Chemical Applied:** 10.72 **Acres Treated:** _____
oz

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 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 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):

NE section of boundary
from cabins at property
line south transecting
spraying Knapweed! musk rosettes

COMMENTS:

Start 20g 5.36 10.72
End 0g 5.36
Total 20g

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-21-15 Time (start/stop): _____ Applicators/Operator: ☐ L. Morgan
Location: (NWR or WPA) Upsala ☒ G. McClure ☐ K. Schuetz
County: Powell ☐ B. Sparklin
Weather Conditions: Wind: 8 MPH, direction from S Temp: 63 °F Humidity: 99 %

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 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 checked="" 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>Hibito</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input checked="" type="checkbox"/> Adjuvant Used: <u>Syltad</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 88 ☒ Handgun ☐ Broadcast
☐ Backpack GPA _____ ☐ Mechanical _____
App. Rate: 7.0% Gallons Sprayed: 12 Amt. of Chemical Applied: .96 Acres Treated: _____

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 type="checkbox"/> Bull thistle | <input type="checkbox"/> Houndstongue | <input type="checkbox"/> Poison hemlock | <input type="checkbox"/> Tansy ragwort |
| <input checked="" 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 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):

Finished service and spray of S. Knapweed & Hoary alyssum

COMMENTS:

Start	End	T
10	8	10
10	8	2
		12

DAILY PESTICIDE APPLICATION RECORD

US Fish and Wildlife Service – Invasive Species Strike Team

922 Bootlegger Trail Great Falls, MT 59404

406-544-2552

Licenses Used: ☒ Levi Morgan 104765-15 (Ag Plant Pest, Aquatic and Regulatory Weed)

Date: 9-21-15 Time (start/stop): 10:30-4:00

Location: (NWR or WPA) Upsate

County: Powell

Applicators/Operator: ☐ L. Morgan
☐ G. McClure ☒ K. Schuetz
☐ B. Sparklin

Weather Conditions: Wind: 8 MPH, direction from South Temp.: 63 °F Humidity: 490 %

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 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 checked="" 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>HiLight</u> |
| <input type="checkbox"/> Telar XP – DuPont #352-654 | <input type="checkbox"/> Adjuvant Used: <u>SyTenc</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 50 ☒ Handgun ☐ Broadcast
☐ Backpack GPA ☐ Mechanical

App. Rate: 7.02/lb Gallons Sprayed: 20g Amt. of Chemical Applied: 1.76 Acres Treated: 0.2

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 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 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):

Continued from NE section
transecting from fence line
to upper road moving south
to meet Gregory north

COMMENTS:

Start	10g	.88
Add	10g	.88
End	0g	
<hr/>		<hr/>
Total	20g	1.76



U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team

Upsata Lake WPA - 2015 Survey Acres Infested & Treated

Surveyed: 210.38

Hoary alyssum:

Acres Infested = 0.66 ac

Acres Treated = 0.67 ac

Musk thistle:

Acres Infested = 1.42 ac*

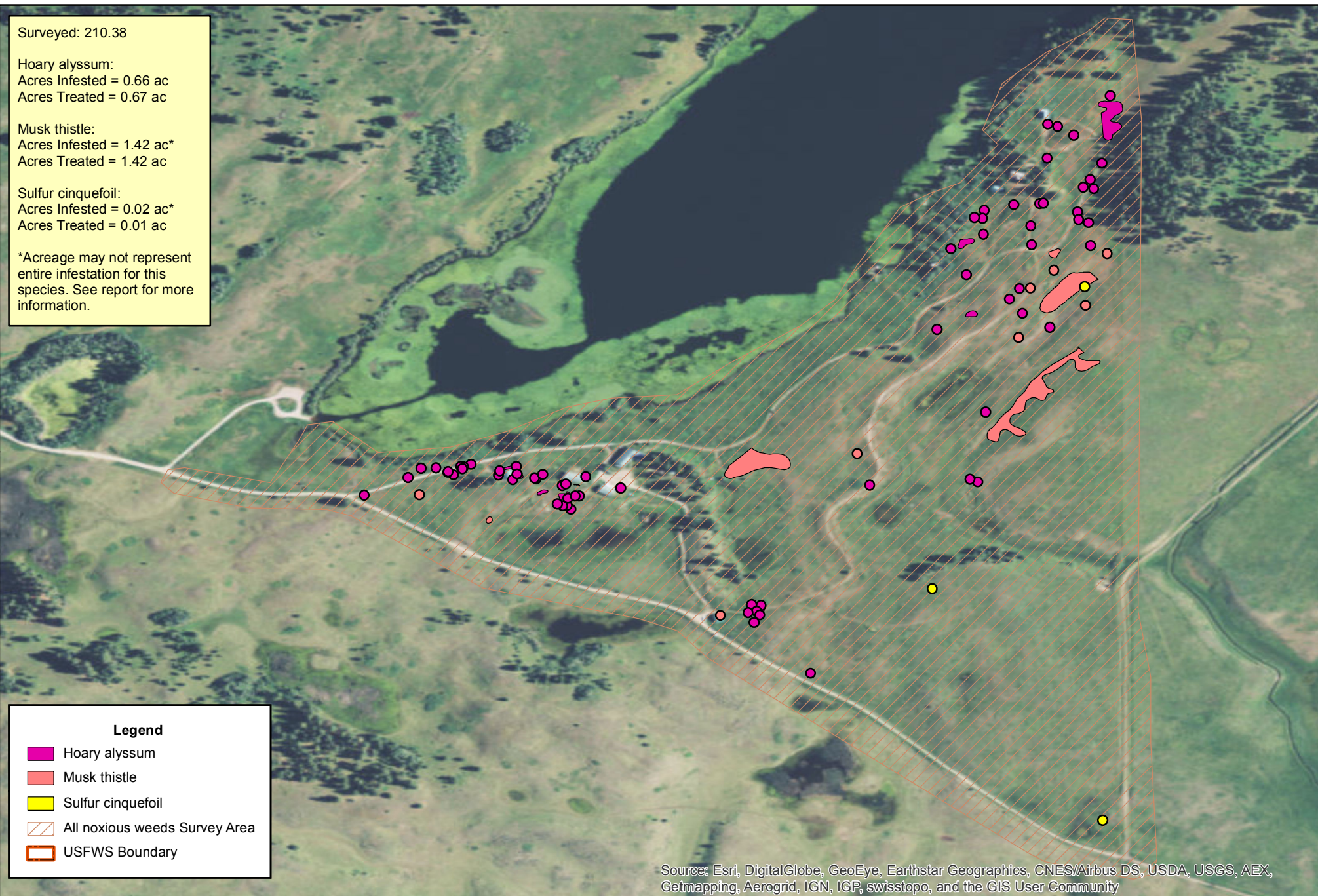
Acres Treated = 1.42 ac

Sulfur cinquefoil:

Acres Infested = 0.02 ac*


Acres Treated = 0.01 ac


*Acreage may not represent entire infestation for this species. See report for more information.




Legend

 Hoary alyssum

 Musk thistle

 Sulfur cinquefoil

 All noxious weeds Survey Area

 USFWS Boundary

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

1 of 4 Maps



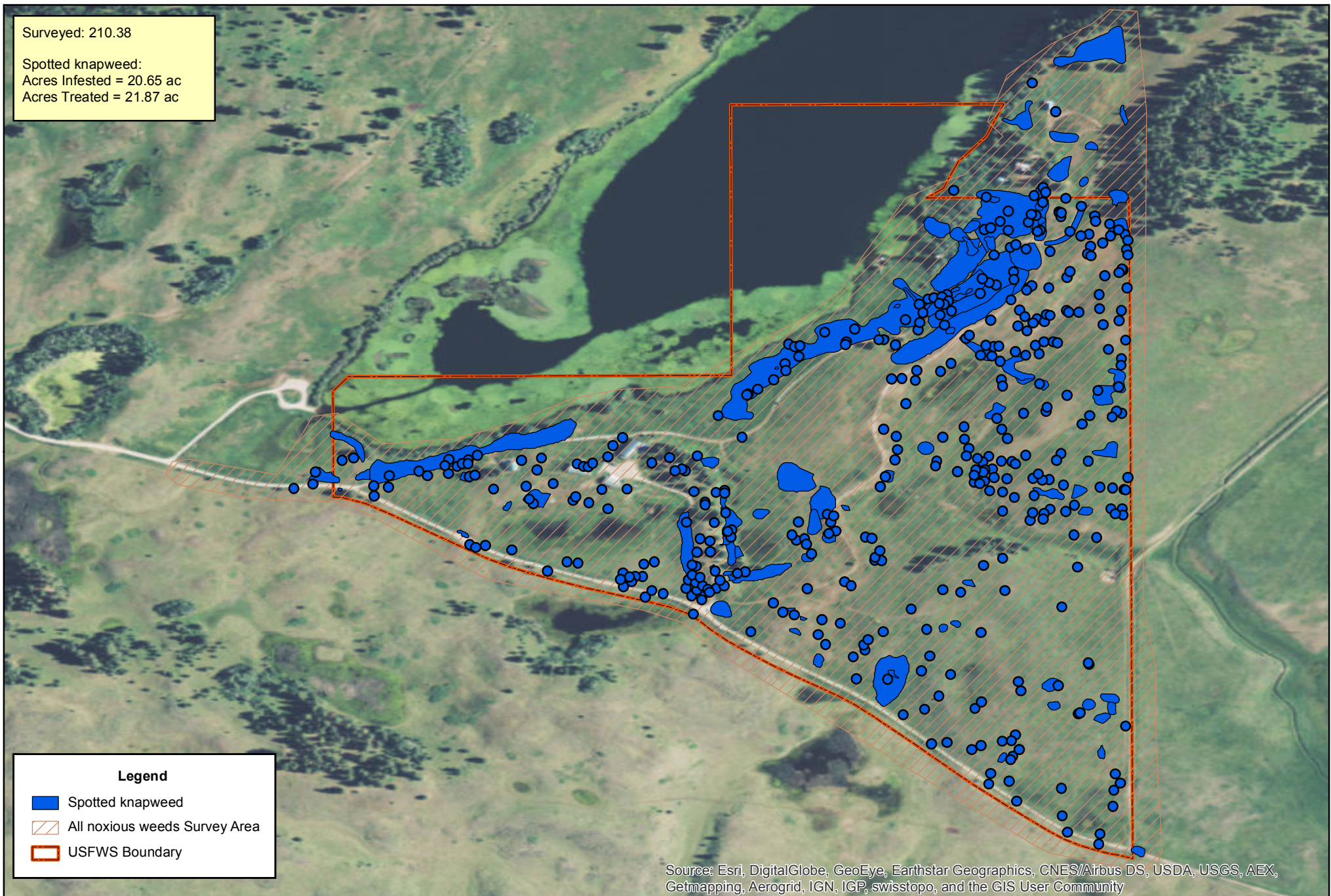
U.S. Fish & Wildlife Service

MOYOCO Invasive Species Strike Team




Upsata Lake WPA - 2015 Survey Acres Infested & Treated

Surveyed: 210.38

Spotted knapweed:
Acres Infested = 20.65 ac
Acres Treated = 21.87 ac



Legend

-  Spotted knapweed
-  All noxious weeds Survey Area
-  USFWS Boundary

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 4 Maps



Surveyed: 210.38

Black henbane:

Acres Infested = 0.05 ac*

Acres Treated = 0.05 ac

Canada thistle:

Acres Infested = 2.08 ac*

Acres Treated = 2.08 ac

Houndstongue:

Acres Infested = 0.27 ac

Acres Treated = 0.27 ac

Leafy spurge:

Acres Infested = 0.04 ac

Acres Treated = 0.04 ac

*Acreage may not represent entire infestation for this species. See report for more information.

Legend

Black henbane

Canada thistle

Houndstongue

Leafy spurge

All noxious weeds Survey Area

USFWS Boundary

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

Upsata Lake WPA - 2015 Survey Acres Infested & Treated

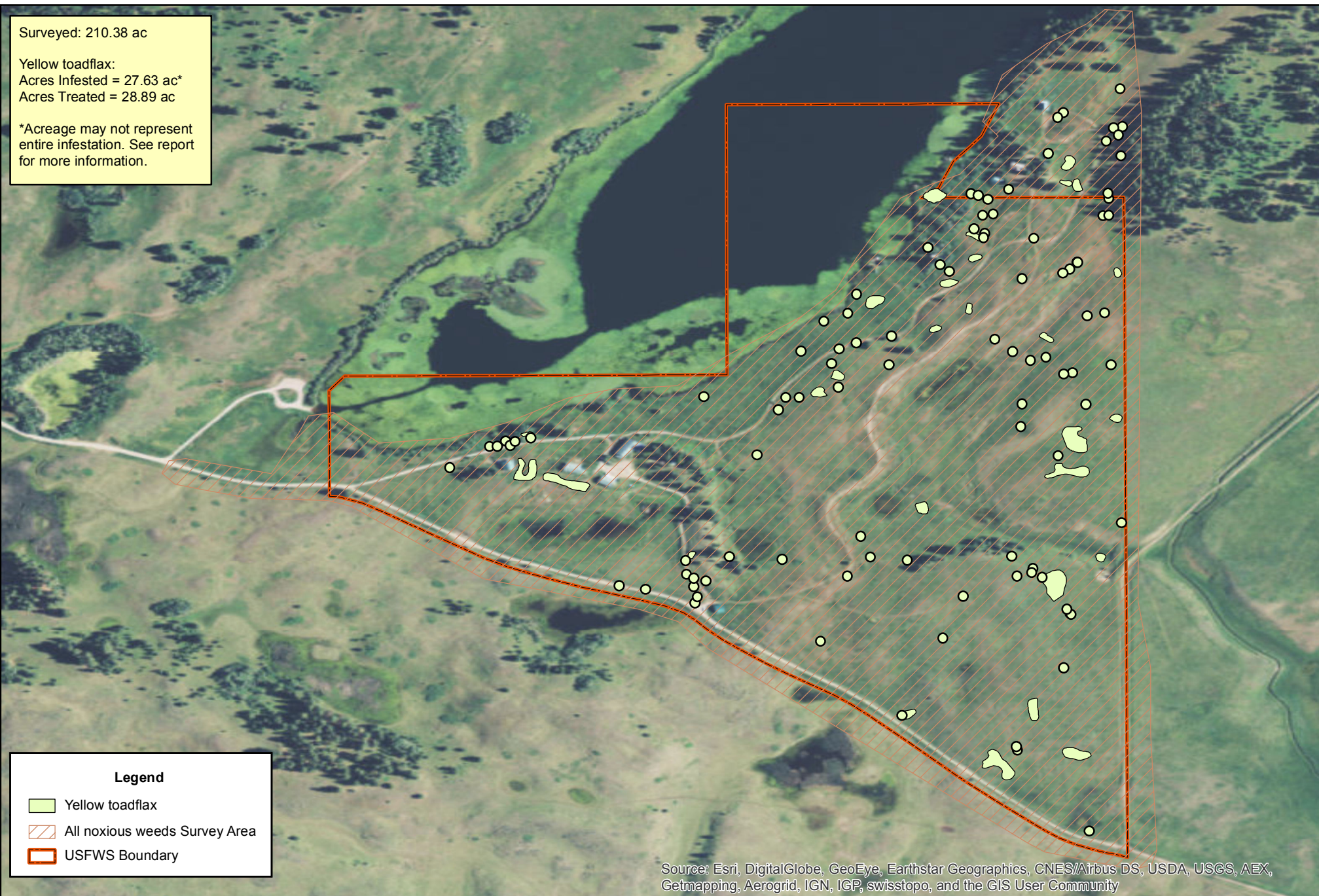
Surveyed: 210.38 ac

Yellow toadflax:




Acres Infested = 27.63 ac*

Acres Treated = 28.89 ac

*Acreage may not represent entire infestation. See report for more information.



Legend

-  Yellow toadflax
-  All noxious weeds Survey Area
-  USFWS Boundary

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

4 of 4 Maps