

HERBACEOUS WEED TREATMENT – CHEMICAL- SPECIFICATION SHEET

Client	Michael Galassi	Date	March 26, 2020
Farm/Tract	Farm 1342/Tract 1937	Field(s)	RIDF, WETL
Location	T6N R5W Sec. 14	Acres	23.8
Planner	C. Reidy	County/SWCD	Columbia County

1. Management Objectives (check one or more):

- *Enhance accessibility, quantity, and/or quality of forage and/or browse
- *Restore or release native or create desired plant communities and wildlife habitats consistent with the site potential.
- *Protect soils and control erosion
- *Reduce fine fuel loads and wildfire hazard
- *Pervasive plant species are controlled to a desired level of treatment that will ultimately contribute to creation or maintenance of an ecological site description "steady state," addressing the need for forage, wildlife habitat, and/or water quality
- *Improve rangeland health – (must complete a Rangeland Health Assessment)

Resource Concern(s), Management Objective(s) & Conservation Implementation Strategy

Applicable Resource Concerns:

1. Plant structure and composition
2. Plant pest pressure.
3. Terrestrial habitat for wildlife and invertebrates.
4. Aquatic habitat for fish and other organisms.

Management Objectives: To restore wetlands and associated uplands to historic conditions to the extent practicable.

2. Pre- and Post- Treatment Cover of Target Species:

Treatment Unit	Acres	Target Weed Species	Ecological Site Name or Number or Desired Plant Community Composition, Structure, and Function	% Cover (Before)	% Cover (After)
RIDF	17.2	bentgrass and other introduced pasture grasses/forbs	Bigleaf maple-Red alder Riparian Forest	90%	10%
WETL	4.7	Reed canarygrass	Oregon crabapple-(Dune willow)-Slough sedge Shrub Swamp	100%	20%

3. Monitoring Plan

Monitoring is done to assess degree of herbaceous weed control and to identify areas needing further treatment.

Monitoring will be performed by NRCS and/or landowner at least annually at the end of the growing season following treatment.

Percent cover or density of the target species (see item 2 above) will be measured and compared to desired percent cover or density (% cover after (item 2 above)). If the measured amount is less than or equal to the desired amount, this practice is to be considered complete. If the measured amount is greater than the desired amount, additional treatments will be scheduled and noted in item 6 of this specification.

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Additional Narrative:

Chemical herbaceous weed treatments will be used combined with mechanical herbaceous weed treatments to prepare the treatment areas for planting with native plant species typical of the ecological sites as well as maintain them over time. Percent cover estimates provided are only for the treatment areas. There will be significant areas of reed canarygrass that will not be treated. It is anticipated that through hydrologic restoration and natural regeneration of woody vegetation, reed canarygrass cover will be further reduced over time.

4. Maps included with this specification:

- Plan map showing area to be treated, areas not being disturbed, and any sensitive areas
- Soil map

5. Selected Treatment Method(s) (check one or more):

<input type="checkbox"/>	Aerial Application	<input checked="" type="checkbox"/>	Ground Application
<input checked="" type="checkbox"/>	Spot Application	<input type="checkbox"/>	Other (Describe):

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HERBACEOUS WEED CONTROL CHEMICAL ALTERNATIVES			
	Alt. No. 1	Alt. No. 2	Alt. No. 3
Chemical	Glyphosate, isopropylamine salt	Imazapyr, isopropylamine salt	Sulfometuron methyl
Rate	1.2 to 2.25 lb ae/a	0.5 to 1 lb ae/a	2.25 to 3.75 ai/a (3 to 5 oz/a)
Time	Apply to actively growing plants at early heading or in fall from mid-September to after first light frost.	Apply in boot stage through fall, when plant is actively growing.	Preemergence to early postemergence.
Remarks	Check label regarding using a surfactant.	Habitat is labeled for aquatic sites. Arsenal is labeled for rangeland, pasture and non-cropland use only. Always add the appropriate surfactant.	Recommended for use on non-cropland only. Do not apply to frozen ground. Constantly agitate while mixing in spray solution. Add 0.25% v/v nonionic surfactant to increase activity of postemergence applications. Apply with ground equipment in at least 15 gal/a carrier.
Caution	Glyphosate controls other vegetation in the treated area.		Keep sulfometuron out of cropland. Use equipment dedicated to non-cropland uses only. Do not treat powdery, dry soils or light, sandy soils if rain is not likely after treatment.
Source of Recommendation	PNW Weed Management Handbook	PNW Weed Management Handbook	PNW Weed Management Handbook

>All chemicals will be applied according to label instructions.

>WinPST evaluations are attached. Ratings of Intermediate or higher require mitigation measures as described below.

- >Integrated Pest Mgt. 595 is required to mitigate potential hazards.

Additional Narrative:

To minimize drift, check [local forecasts](#) and refer to the OSU Extension publication "[Avoiding Drift](#)"

Do not spray if wind speed is less than 2 mph or greater than 10 mph.

6. Treatment Schedule

Include all treatments needed to achieve effective control of the target plant species. This includes any additional treatments needed to achieve effective control of pervasive plant species.

Treatment location (field)	Planned Treatment Year	Planned Acres	Applied Treatment Year	Applied Acres
RIDF/WETL - Broadcast spray	9/2020	17.1/6.7		
	6/2021	17.1/6.7		

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	9/2021	17.1/6.7		
	6/2022	17.1/6.7		
	9/2022	17.1/6.7		
RIDF/WETL - Spot spray around woody seedlings	6/2023	0.7/0.5		
	6/2024	0.7/0.5		
	6/2025	0.7/0.5		
RIDF/WETL - Spot spray weeds	6/2023	17.1/6.7		
	9/2023	17.1/6.7		
	6/2024	17.1/6.7		
	9/2024	17.1/6.7		
	6/2025	17.1/6.7		
	9/2025	17.1/6.7		

7. Operating Instructions

Prior to arriving at the treatment site, all equipment/vehicles will be cleaned in order to reduce the introduction/spread of noxious weeds.

Additional Narrative:

Follow all label instructions. See also Oregon-Washington Conservation (ORWAC) programmatic opinion conservation measures.

8. Wildlife Considerations

All work conducted will be performed at times that meet the needs of resident and transient wildlife.

Additional Narrative:

Only herbicides approved for use in wetlands will be applied in field WETL. See also ORWAC conservation measures.

9. Special Precautions or Requirements:

Additional Narrative:

All pertinent ORWAC conservation measures will be followed to minimize adverse impacts to listed fishes.

10. Special requirements if Integrated Pest Mgt. 595 is required:

Additional Narrative:

N/A

Operation and Maintenance - perform the following items:

- Monitor each year to evaluate desired plant community and any regrowth or recurrence of target pest species. Apply appropriate spot treatments as needed to maintain desired plant community.
- Review and update the plan annually to incorporate new IPM technology.
- Maintain mitigation techniques selected to ensure continued effectiveness.
- Develop a safety plan for individuals exposed to pesticides
- Follow labels requirements for mixing/loading setbacks from wells, streams, rivers and natural or

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impounded pond, lakes and reservoirs.

- Post signs according to label directions and/or Federal, Tribal, state and local laws around treated sites. Follow restricted entry intervals.
- Dispose of pesticide containers according to label directions and Federal, Tribal, state and local regulations.
- Calibrate application equipment according to Oregon State University Extension and/or manufacturer recommendations before each seasonal use and with each major chemical change.
- Replace worn nozzle tips, cracked hoses and faulty gages.
- Handle all pesticides with caution, and wear appropriate protective clothing according to label instructions.
- Maintain appropriate Material Safety Data Sheets (MSDS).
- Maintain records of pesticide application as per the Oregon Department of Agriculture record keeping requirements.

11. References

NRCS does not develop chemical treatment recommendations; however NRCS can provide current acceptable chemical control references. A list of these references is below;

- [Pacific Northwest Weed Management Handbook](#)
- [Pacific Northwest Insect Management Handbook](#)
- [Pacific Northwest Plant Disease Management Handbook](#)
- [Integrated Plant Protection Center](#)
- [ODA Pesticide and Fertilizer Programs](#)

12. Additional Specifications:

Additional Narrative:

See also Herbaceous Weed Treatment (315) Mechanical, Conservation Cover (327), and Tree/Shrub Establishment (612) job sheets.

Design Approval:

Practice code No.	Practice	Lead Discipline	Controlling factor	Units	Job class				
					I	II	III	IV	V
315	Herbaceous Weed Control	BCSD Graz Land Spec	Treatment Type: 1= Mech, 2= Chem, 3= Bio	Type	Type 1	Type 2	All Types	All Types	All Types
This practice is classified as Job Class (check one):					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Design Approved By: /s/ _____

Date: 3/26/2020

Job title State Wetlands Planner

Refer to the Following Conservation Practice Specifications [✓]

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<input type="checkbox"/>	Prescribed Grazing 528	<input checked="" type="checkbox"/>	Access Control 472
<input type="checkbox"/>	Integrated Pest Management 595	<input type="checkbox"/>	Critical Area Planting 342
<input type="checkbox"/>	Brush Management 314	<input type="checkbox"/>	Rangeland Planting 550
<input type="checkbox"/>	Forage Harvest Management 511	<input type="checkbox"/>	Forage and Biomass Planting 512
<input checked="" type="checkbox"/>	Wetland Wildlife Habitat Mgt. 644	<input checked="" type="checkbox"/>	Upland Wildlife Habitat Mgt. 645
<input checked="" type="checkbox"/> Other: Herbaceous Weed Treatment (315) Mechanical, Conservation Cover (327), Tree/Shrub Establishment (612), Wetland Restoration (657)			

Client’s Acknowledgement Statement:

The Client acknowledges that:

- a. They have received a copy of the specification and understand the contents and requirements.
- b. It shall be the responsibility of the client to obtain all necessary permits and/or rights, and to comply with all ordinances and laws pertaining to the application of this practice.
- c. Certification documentation (see below) must be provided to NRCS by the client before the practice can be certified as applied:

Accepted By: /s/ _____ Date: _____

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Certification:

Check one or more of the following and place in case file.

- Applicators logs/ receipts from the applicator
- Client Documentation Worksheet
- Map(s) – including field numbers, fields treated, and acres treated
- Photo monitoring
- Other:

Brief Description:

I have completed a review of the information provided by the client and certify this practice with field verification has been applied according to this specification.

Multiple CIN Certification Table

CIN #	ACRES	SIGNATURE & DATE	CIN #	ACRES	SIGNATURE & DATE

I have completed a review of the information provided by the client and certify all planned instances of this practice have been applied.

Certified By: /s/ _____ Date: _____

Job title _____

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Client Documentation Worksheet

Examples in grey

Field Number(s)	Date Sprayed	Applicator Name	Wind Speed/ Direction	Weather*/ Air Temp.	Equipment Used**
14	9/10/2014	Western Spray Inc.	5 mph, S-SE	Partly cloudy, 65 F	ATV

Alternative Selected: Alternative 1 Alternative 2 Alternative 3 Alternative 4

Product Name: List all Herbicides, water conditioner, surfactants, or dyes used.	Rate (per acre) oz., pints, etc.	Acres Treated	Total Quantity Used	Amount of Water Used per Acre
Plateau (Imazapic)	4 oz.	45	180 oz.	10 gallon acre

Comments:

*Clear, partly cloudy, overcast, showers, etc. ** Back pack sprayer, ATV, Boom sprayer, Fixed winged aircraft, helicopter etc.

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