



Demonstration of Calibration Techniques at 2009 Clearwater Weed Clinic

Clearwater Basin Cooperative Weed Management Area 2009 End of Year Report

Introduction

The goal of the Clearwater Basin Cooperative Weed Management Area (CBCWMA) is to facilitate effective treatment and coordinate control and restoration efforts over the long term without regard for jurisdictional boundaries. The area covered by this CWMA includes all or portions of: Nez Perce, Latah, Clearwater, and Lewis County.

Cooperators in the CWMA include private landowners, Lewis, Clearwater, Latah and Nez Perce Counties. The Nez Perce Tribe, and the University of Idaho are represented on the steering committee. State and federal land management agencies, including the U.S. Forest Service, Bureau of Land Management, Idaho Fish and Game, Idaho Transportation Department, Army Corps of Engineers as well as neighborhood groups have partnered as cooperators with the CWMA.

The Chairperson of the Clearwater Basin Weed Management Area is Hugh Jacobs, Weed Superintendent of Nez Perce County.

What worked? The 2009 Weed Clinic was a huge success. Over 170 people attended over a two day period. More on that inside.

What are we still struggling with? Easy inventory methods. How to give “weed people” the ability to gather and manage data without having to become GIS experts is still a struggle. People can gather all of the points they want, but to be able to produce a usable map later is the challenge.

What new weeds did we find? Dyers Woad, and Perennial pepperweed were the two biggies. We are still struggling with knotweed, and white bryony is making it’s way here.

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Accomplishments

Task	2009 Weed Clinic	Neighborhood Coalitions	Clearwater River Launch Weed Treatment	Goat Grazing	ATV Purchase and Mapping	Restoration and Revegetation	Back Country Invasives Prevention	TOTAL
TOTAL ACRES TREATED:								
Chemical		3051	793	50	500		192	4586
Mechanical					200			200
Grazing				506				506
Biocontrol Acres		50	100				185 (37 releases)	335
Inventoried					1000 acres		1000 acres (100 mi trail)	2000
Revegetate EDRR				250		10		260
# public contacts	200	19 (pvt landowners)	500	10 (pvt landowners)				729

Herbicide Project #1– Fraser Coalition

2009 was another successful year for the Fraser Coalition of private landowners. Over **3050 acres** were chemically treated to kill yellow star thistle. This group persists because it uses a well rounded program that keeps folks interested. They host **weed id classes**, and **classes on calibration** to help with spraying techniques. They have their own **biocontrol workshops** where they all take home yellow star thistle insects. Mike Beard reported that both 2008 and 2009 have shown success in areas where insects have been released as well as areas sprayed. Ten more Biocontrol releases were made this year for yellow starthistle and spotted knapweed. Over 19 different landowners are involved spanning an area greater than 10,000 acres.

Herbicide Project #2 – Clearwater River Launch Weed Treatment



Don Beck, of Idaho Fish and Game, is a hard man to get a hold of. Paperwork is not his thing. He lives to get things done on the ground. Don takes care of 72 boat launches for the Clearwater River. His area covers the confluence of the Snake and the Clearwater up the Clearwater to Kooskia ITD maintenance shed. Don uses a strategy designed to **eradicate** new invaders that he encounters. Don said he would

treat 32 boat launches. He treated all 72 in the first application. Then he went back, and 52 needed re-treatment one month later. In his third application 10 boat launches needed weed treatment. It is this persistence that allowed Don to



kill a new invader to the area Dyers Woad (*Isatis tinctoria*).

Don also released **Biocontrol** insects on approximately 100 acres; Cyphocleonus root borer for knapweed, and insects for Yellow starthistle and Dalmatian toadflax. Don also found leafy spurge, scotch thistle, rush skeletonweed, yellow starthistle, and perennial pepperweed. The most valuable contribution Don provides may be his public contacts. He is a front liner and estimates he and his employees contact over 500 people each year and educate them about weeds and what weeds can mean for their favorite fishing hole.

Priority #2 Goat Grazing

The goat grazing project started in 2007 when the Army Corps of Engineers mandated the cleanup of the Kamiah levee in order to provide necessary access. The levee was overgrown, and prison crews were used to remove shrubs and yellow star thistle and spotted knapweed using hand pulling and chemicals. In 2008 and 2009 goats were added to the toolbox, and they grazed along the Levee. Prescriptive Livestock Goat Grazing Company (owner Ray Holes) **grazed about 17 acres along the levee**. In addition the goats were able to help out the Flying B ranch nearby by eating some weeds in hard to get places on **about 489 acres**.



Flying B Ranch is 5,000 acres with many steep slopes in Lawyer Creek. Each year the ranch contracts for helicopter spraying application, fixed wing aircraft, as well as hand spraying 300-400 acres. This provides ample in-kind contributions for the goat grazing contract funded by ISDA. The Flying B followed up the helicopter spraying with **aerial seeding on over 250 acres for revegetation**.

Priority # 3 and #4 ATV Purchase and Mapping

The Nez Perce County Weed Control Department used the ATV partially purchased with ISDA funds to treat over **500 acres of weeds using chemicals**. Over **1000 acres were inventoried**. Since the Sunnyside Bench is largely inaccessible by truck the ATV's were necessary for reaching the areas to inventory and treat. Rush Skeletonweed, Spotted Knapweed, Oxeye daisy, Canada thistle, whitetop and Dalmatian toadflax are all target species that were mapped. Approximately **200 acres** of annual weeds were **mowed**.

Priority #5 Restoration and Revegetation

Plants and seed materials are being purchased as we speak, and planting will take place in early March of 2010 to improve the species mix at boat launches throughout the Clearwater River Basin. Idaho Department of Fish and Game will be providing the in-kind labor to get it done.

Prevention is a key goal in the CBCWMA strategic plan. By having desired native and non-native plants, a weed free result is more likely.

Priority #6 Back Country Invasives Prevention



The commitment to long hikes and hard work continued for 2009 with a project made possible by the Great Burn Study Group (GBSG), North Fork



Ranger District of the Clearwater National Forest, Nez Perce Biocontrol Center, Rocky Mountain Elk Foundation and Five Bears Outfitters. The GBSG inventoried six trail systems in 2009 in the Kelly Creek back country to continue their partnership with the Clearwater National Forest. This area covers over **1000 acres of inventory**. Mapping results will be available in January for this effort.



The spread of noxious weeds in this drainage has been prevented using an integrated approach with chemicals, biocontrol agents, and hand pulling. Herbicides were applied to noxious weeds and invasive plants within Hansen, Bear, and Deer Creek meadows. A total of 25 root feeder Biocontrol releases were made for spotted knapweed, with 50 insects per release, and an additional 12 releases of Klamath beetle for St. John's wort.



The crew has been a great help at monitoring the condition of weeds in the area, with the goal of maintaining the wonderful native plant communities that are there.

A total of 192 acres were treated chemically including knapweed, houndstongue, yellow hawkweed rush skeletonweed, and other invasives.

THE LAST AND THE BEST

Education Priority #1 Clearwater Weed Clinic



Thanks to the hard work of ALL of the Clearwater Basin CWMA members an extremely successful two day weed clinic was held in February of 2009. The first day we had over 105 people in Orofino, and day two we had over 70 in Lewiston. Topics included revegetation, poisonous plants, techniques for

equipment washing in remote areas, using pesticides safely, aquatic plants in North Idaho, Biocontrol of Noxious Weeds, and Calibrating your backpack sprayer and ATV.



new to weed management classes.

Denny Williams deserves credit for starting this idea years ago. Mike and Linda Beard deserve thanks for organizing and making contact with so many local landowners, many



David Forestieri from the Nez Perce Tribe is standing in the back of his pickup explaining a **prevention technique** he developed for bringing a "wash station" to the woods for cleaning excavator equipment used to obliterate roads. This technique was used throughout the Forest for keeping heavy equipment clean

Next Years Plan

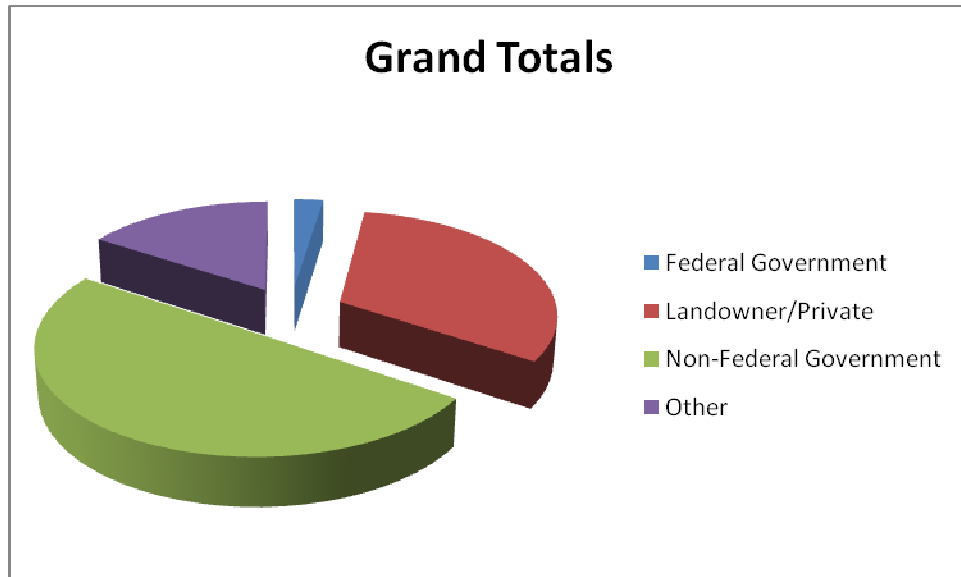
The Nez Perce County Soil and Water Conservation District will be joining the group in 2010 with several proposed projects for mapping and treating weeds. Their knotweed project will fit in very well with the ongoing Knotweed project in the Upper Clearwater CWMA.

We are all excited about the 2010 Clearwater Weed Clinic with many preparation meetings under our belt, it should be even better than last year.

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The goat grazing and boat ramp projects will continue, as well as projects to map and treat weeds in the County and State corridors.

Financial Contributions



Contribution Category	Grand Totals
Federal Government	\$3,000
Landowner/Private	\$38,931
Non-Federal Government	\$60,815
Other	\$19,274
Grand Total	\$122,020

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APPENDICES

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Gross Infested Acres - Please estimate the gross acres, percent of gross acres infested, and the average density of each weed species that is found in your CWMA. Definitions for each term are found in the Application Part A instructions. Please note: this is not an estimate of the population by county; it is an estimate for the entire CWMA. This data is not a substitute or replacement of the mapping data that each CWMA must submit annually. This is an additional measurement for our records.

Common Name	Scientific Name	Gross Acres	Percent of Gross Acres Infested	Average Density (%)
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Example:

1. Black Henbane	<i>Hyoscyamus niger</i>	10,000	40%	60%
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1. Black Henbane	<i>Hyoscyamus niger</i>	10	50	40.00%
2. Bohemian Knotweed	<i>Polygonum bohemicum</i>	300	70	80.00%
3. Brazilian Elodea	<i>Egeria densa P.</i>	0		
4. Buffalobur	<i>Solanum rostratum</i>	50	10	10.00%
5. Canada Thistle	<i>Cirsium arvense</i>	471000	70	20.00%
6. Common Crupina	<i>Crupina vulgaris</i>	110	20	10.00%
7. Dalmatian Toadflax	<i>Linaria genistifolia ssp. dalmatica</i>	2325	50	25.00%
8. Diffuse Knapweed	<i>Centaurea diffusa</i>	40	30	10.00%
9. Dyer's Woad	<i>Isatis tinctoria</i>	0		
10. Eurasian Watermilfoil	<i>Myriophyllum spicatum</i>	0		
11. Field Bindweed	<i>Convolvulus arvensis</i>	151050	80	15.00%
12. Giant Hogweed	<i>Heracleum mantegazzianum</i>	0		
13. Giant Knotweed	<i>Polygonum</i>	0		

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	<i>sachalinense</i>			
14. Hoary Alyssum	<i>Berteroa incana</i>	0		
15. Houndstongue	<i>Cynoglossum officinale</i>	12100	30	10.00%
16. Hydrilla	<i>Hydrilla verticillata</i>	0		
17. Japanese Knotweed	<i>Polygonum cuspidatum</i>	7900	75	30.00%
18. Johnsongrass	<i>Sorghum halepense</i>	2	20	10.00%
19. Jointed Goatgrass	<i>Aegilops cylindrica</i>	100050	25	10.00%
20. Leafy Spurge	<i>Euphorbia esula</i>	0		
21. Matgrass	<i>Nardus stricta</i>	0		
22. Meadow Knapweed	<i>Centaurea pratensis</i>	0		
23. Mediterranean Sage	<i>Salvia aethiopis</i>	0		
24. Miliun	<i>Milium vernale</i>	0		
25. Musk Thistle	<i>Carduus nutans</i>	0		
26. Orange Hawkweed	<i>Hieracium aurantiacum</i>	1025	20	80.00%
27. Oxeye Daisy	<i>Chrysanthemum leucanthemum</i>	42000	50	50.00%
28. Parrotfeather Milfoil	<i>Myriophyllum aquaticum</i>	0		
29. Perennial Pepperweed	<i>Lepidium latifolium</i>	500	50	50.00%
30. Perennial Sowthistle	<i>Sonchus arvensis</i>	200	20	10.00%
31. Plumeless Thistle	<i>Carduus acanthoides</i>	0		
32. Poison Hemlock	<i>Conium maculatum</i>	51200	25	10.00%
33. Policeman's Helmet	<i>Impatiens glandulifera</i>	0		
34. Puncturevine	<i>Tribulus terrestris</i>	300100	50	35.00%
35. Purple Loosestrife	<i>Lythrum salicaria</i>	0		
36. Rush Skeletonweed	<i>Chondrilla</i>	5025	60	10.00%

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	<i>juncea</i>			
37. Russian Knapweed	<i>Acroptilon repens</i>	0		
38. Saltcedar	<i>Tamarix</i>	0		
39. Scotch Broom	<i>Cytisus scoparius</i>	0		
40. Scotch Thistle	<i>Onopordum acanthium</i>	5026	60	30.00%
41. Silverleaf Nightshade	<i>Solanum elaeagnifolium</i>	0		
42. Skeletonleaf Bursage	<i>Ambrosia tomentosa</i>	0		
43. Small Bugloss	<i>Anchusa arvensis</i>	0		
44. Spotted Knapweed	<i>Centaurea maculosa</i>	51000	80	60.00%
45. Squarrose Knapweed	<i>Centaurea squarrosa</i>	0		
46. Syrian Beancaper	<i>Zygophyllum fabago</i>	0		
47. Tall Hawkweed	<i>Hieracium piloselloides</i>	0		
48. Tansy Ragwort	<i>Senecio jacobaea</i>	200	30	10.00%
49. Toothed Spurge	<i>Euphorbia dentata</i>	0		
50. Vipers Bugloss	<i>Echium vulgare</i>	0		
51. Water Hyacinth	<i>Eichhornia crassipes M.</i>	5	10	10.00%
52. White Bryony	<i>Bryonia alba</i>	20	30	15.00%
53. Whitetop	<i>Cardaria draba</i>	2725	75	15.00%
54. Yellow Devil Hawkweed	<i>Hieracium glomeratum</i>	0		
55. Yellow Hawkweed	<i>Hieracium caespitosum</i>	20000	50	80.00%
56. Yellow Starthistle	<i>Centaurea solstitialis</i>	521000	80	50.00%
57. Yellow Toadflax	<i>Linaria vulgaris</i>	200	15	10.00%



CLEARWATER NOXIOUS WEED CLINIC



SAME CLASS - 2 DIFFERENT DAYS

Tuesday, February 17, 2009
National Guard Armory
Orofino, Idaho

Wednesday, February 18, 2009
Idaho Fish and Game Building
Lewiston, Idaho

Each class will start at 8:00 am and end at 3:30 pm

Recertification Credits available for Idaho Pesticide Applicator Training



- Registration and attendance is FREE!!!!
- Lunch will be on your own
- PLEASE BRING A WEED (OR MORE THAN ONE) TO IDENTIFY! Transport them to class in a contained manner to prevent weed spread.
- Bring your magnifying glass, hand lens, and resource books if you want to.
- Topics include: Identifying plants from their characteristics by Dr. Rich Old, Herbicides to control noxious weeds, Revegetation, Poisonous and Aquatic plants in North Idaho, How to calibrate backpack and ATV sprayers, Bio control of certain noxious weeds, and much much more!!!!!!



TO REGISTER CONTACT

OROFINO CLASS

Mike Beard
208-435-4806
1-800-278-9107
beardfarm@orofino-id.com

LEWISTON CLASS

Hugh Jacobs
208-799-3060
hughjacobs@co.nezperce.id.us



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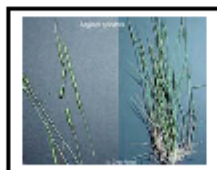




CLEARWATER NOXIOUS WEED CLINIC AGENDA



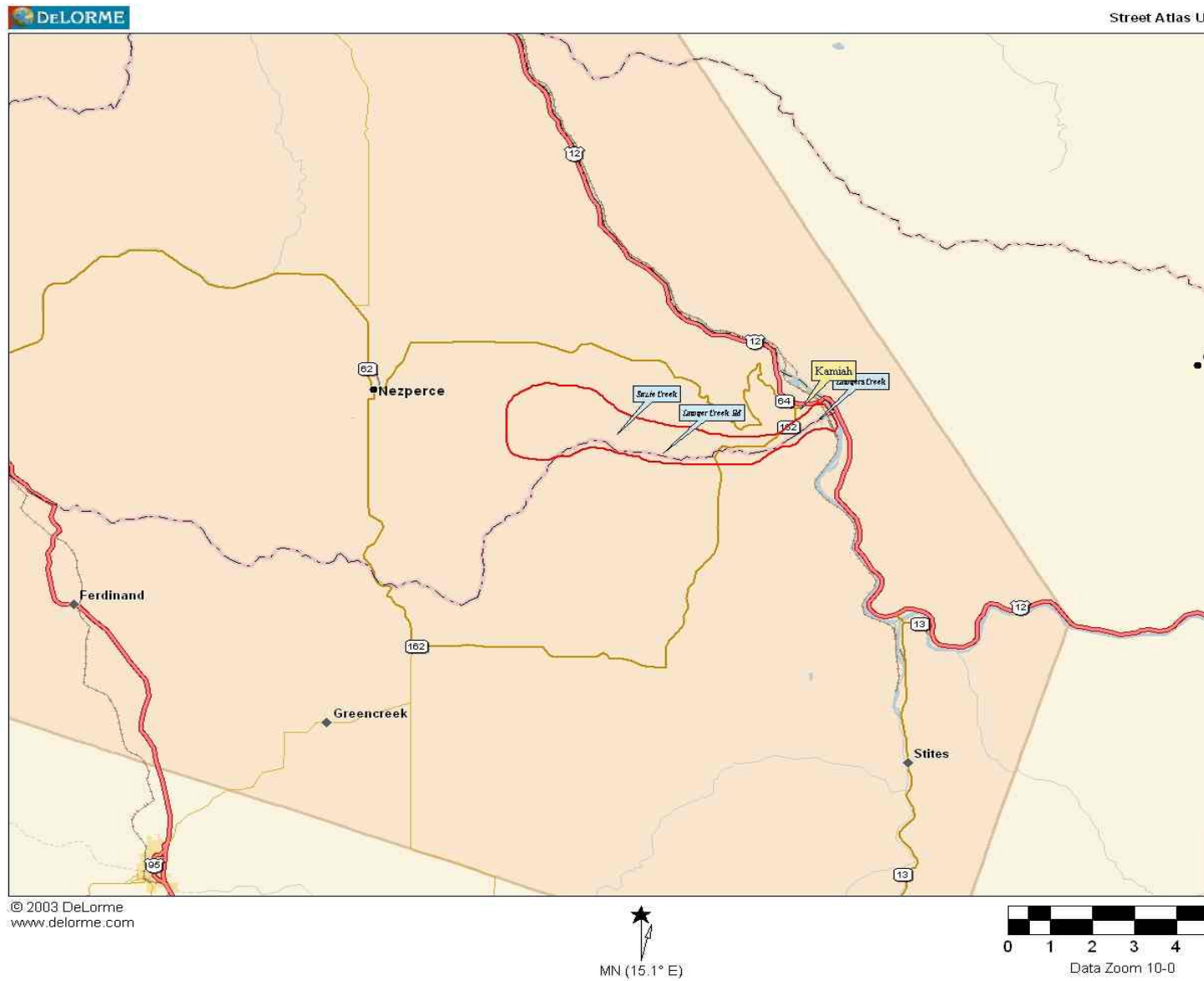
TIME	TOPIC		SPEAKER
8:00 - 8:30	Take the weed quiz - Try to identify noxious weeds using live plant samples		Alan Martinson - Latah County
8:30 - 8:45	Welcome, Introductions and Announcements		Hugh Jacobs - Nez Perce County
8:45 - 11:00	Identify the plants in the weed quiz and review each plants distinguishable characteristics.		Dr. Rich Old
11:00 - 12:00	Using the right herbicide on your noxious weeds		Jerry Ellis - Helena Chemical
12:00 - 1:00	Lunch		On your own
1:00 - 1:45	BREAKOUT 1	Revegetation after the fire, Billy Creek	John Nelson - IDFG
		Poisonous plants in North Central Idaho	Dr. Patricia Talcott - U of I and WSU
1:45 - 2:30	BREAKOUT 2	Using Pesticides Safely	Sherm Takatori - ISDA
		Aquatic plants in North Central Idaho	Nina Eckberg - Kootenai County
2:30 - 3:15	BREAKOUT 3	Bio Control of Noxious Weeds	Paul Brusven - Nez Perce Bio Control Center
		Calibrating your backpack and ATV sprayers	Alan Martinson - Latah County
2:30 - 3:00	WRAP UP AND PASS OUT RECERTIFICATION CREDITS		



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Goat Grazing Project – Lawyer's Canyon Kamiah, Idaho