

2010
2010
Adams Cooperative
Weed Management Area
End of Year Report

Adams CWMA Steering Committee

Adams County Weed Control

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Introduction

The Adams CWMA formed in 2001 as a means to bring together private landowners and others responsible for and interested in weed management in Adams County. This group consists of County, Federal, State, Local and private landowners who have developed common goals and priorities and sought to share resources and find funding to combat the spread of noxious and invasive weeds. A strategic plan was developed that included a prioritized list of known noxious weeds and new invaders. *This strategic plan was updated in 2005 and in 2007.*

The Adams CWMA goals are to prevent introduction, reproduction and spread of noxious and invasive weeds, to reduce established infestations, to inform the public about the harm exotic weeds cause and to implement an integrated weed management system. The group supports and works closely with the county weed control department and helps obtain the tools, equipment and personnel necessary for an effective program.

The Adams Cooperative Weed Management Area encompasses all of Adams County in west central Idaho, including the upper Weiser River, its tributaries, upper Rapid River and upper Little Salmon River watersheds. The western boundary is the Snake River. (See map page 11)

There are twenty-four (24) listed species of noxious weeds within the Adams CWMA using the revised 2009 Idaho Weed List. Our number one priority weeds are **Mediterranean sage, Hoary alyssum, Orange hawkweed, Dyers woad, Hoary cress, Perennial pepperweed, Yellow starthistle, Diffuse knapweed, Spotted knapweed and Leafy spurge.** These weeds are the main focus of our group activities each year. The group has also focused on providing information about new invaders and other weeds of concern within the CWMA boundaries.

The Adams CWMA co-chairpersons are Julie Burkhardt(outgoing)/Chris Friend(incoming) and Mike Correia. Our cooperators are considered also as advisors as we value all of their opinions, they consist of Idaho Dept of Agriculture, Idaho Power, Idaho Dept of Lands, Bureau of Land Management, Payette National Forest, University of Idaho-Adams County Extension, The Nature Conservancy, Friends of the Weiser Trail, and Local landowners.

2010 Summary

The year 2010 proved to be a very busy year, some of our spray days were dampened with rain and delayed, however those days were rescheduled and completed. A combination of Federal, State, local, private landowners, contractors, and Youth Corp completed many months of digging, spraying, mapping and searching for noxious weeds.

Priority Projects/ Spray Days

Whitetop/ Perennial Pepperweed Project

Whitetop (Hoary cress) and Perennial pepperweed are both top priority weeds in the Adams CWMA. There are about 50+ very small infestations (most less than 1/8 acre) totaling 100 acres mainly located in the southern part of the county and in the Hornet Creek and Bear areas. Patches treated for the past several years show very good results each year. Each year we continue to find a few small patches of both Whitetop and Perennial pepperweed around the CWMA. Most Whitetop and Perennial pepperweed populations are well under control within the CWMA and on-going efforts will keep it that way. Adams County Weed Control spent several days working on White top and Perennial pepperweed in addition to the hours spent by CWMA members.

Dyers Woad Project

There are three very small infestations of Dyers woad that have been sprayed or hand pulled for the past several years. This year, Adams County Weed Control treated a total of approximately 10 acres, all located near the town of Council and to the North on the Weiser Trail.

Northwest Youth Corp (NYC) and Idaho Youth Conservation Corp (IYCC)

The Adams CWMA has been pleased with the work of the Northwest Youth Corp the past five years, and the IYCC for the past 2 years, doing hand chopping follow-up to our spray days on Mediterranean Sage and Yellow starthistle. Their enthusiasm (and their group size) is just what is needed on our two larger project areas, to the south of Council and the Goodrich Creek areas. This crew gives our small group many more hands and eyes on the ground as we seek out the ever-decreasing and elusive “Med sage” and Yellow star thistle. We look forward to working with the crew whenever possible.

The Idaho YCC was again funded by the Idaho Dept of Labor. This crew consisted of local youth who needed summer employment. The Adams CWMA was able to provide three weeks of work for this crew covering almost 400 acres, doing follow-up hand chopping on Mediterranean sage and Yellow Starthistle. The crew also did weed work and other trail maintenance for our partner, Friends of the Weiser River Trail.

Mediterranean Sage Project

CWMA members and volunteers spent hundreds of man-hours chopping and spraying scattered Med. sage plants over about 1100 acres south of Council and west toward the Weiser River. The areas we've concentrated on over the past few years continue to show much improvement, however, the County Weed Control and Youth Groups had been able to broaden the area of treatment and found small infestations which were dug and mapped for next year.

Yellow starthistle Project

Yellow starthistle remains a high priority for eradication in the Adams CWMA. One project workday was scheduled to spot spray and hand pull plants within the project area. A youth group crew of ten joined in on the 80-acre Yellow starthistle project area to hand pull on BLM and private lands near Goodrich. Other volunteers used backpack sprayers to treat steep, south-facing slopes where small patches and single plants were hiding. ATVs with spray units were used on some of the less steep slopes and isolated patches were monitored and treated using backpack sprayers. One new patch was located on the spray day, this was sprayed and then revisited to check for more.

Big Bar Diffuse Knapweed Project

2010 was the eighth year of treatment at Big Bar in Hells Canyon on the Payette National Forest. CWMA partners worked with the Council and New Meadows Ranger District weed crews to treat the 100 acres of Big Bar camping area, the parking areas and the steep hillside between Allison and Eckels Creek. Diffuse Knapweed is the main weed targeted in the area however other weeds treated were Spotted knapweed, Dalmatian toadflax, Hounds tongue, Japanese knotweed, Scotch thistle, Poison hemlock, Puncturevine, Poison ivy, Hoary cress and Perennial pepperweed.

The upper slopes in the area are showing signs of good success with fewer Diffuse knapweed plants found each year. This year, crews finished the area in record time, however, many weed species are still thriving in the lower areas and campsites, including two newly discovered Whitetop populations. These areas are difficult to treat because of the trees and the proximity to the river which limits treatment options, and numerous, well-hidden campsites that are challenging to maneuver around. Idaho Power provided lunch for the group.

Orange Hawkweed Project

Orange Hawkweed remains a high priority for eradication in Adams County. Project Coordinator Mike Correia believes great progress has been made toward this goal. Mike continued to treat affected areas in 2010. He has found that the amount of Orange Hawkweed in the moist areas of New Meadows area has diminished significantly, however on a spray day a large amount of unchecked Hawkweed was found and treated. This coming year it will again be checked and treated. He notes that ungrazed areas make it much more difficult to find and treat Orange hawkweed due to the tall grass and that plants are much harder without grazing pressure. The

CWMA is hopeful that this noxious invader can one day be eradicated in Adams County.

A set of test plots using several herbicide treatments and timing were installed on private land in Meadows Valley 2 years ago. These plots are currently being monitored by Dupont.

Cuprum Area Knapweed Project

This year the Cuprum Spray Day was not held, however 5 local citizens and Adams County Weed Control sprayed this 40 acre area. For the most part there is a drastic reduction of Spotted Knapweed in this area but there were also some new infestations found and treated. This shows that continued treatment of this community and surrounding areas need to be watched, treated and documented.

Rubicon Diffuse Knapweed/Spotted Knapweed Project

The area near the Evergreen saw mill at Tamarack (Rubicon) was treated in early August for a fifth year. The target weeds were Spotted and Diffuse knapweed but there is also Canada thistle, Sulfur cinquefoil, Bull thistle, Yellow toadflax and Hounds tongue. Nearly 400 acres in the Rubicon/Tamarack area were covered during this workday by CWMA members, Adams County Weed Control and Forest Service personnel from New Meadows and Council. As the infestations close by are reducing in numbers it allows us to further our normal spray borders and are finding little pockets of Spotted Knapweed, Yellow Toadflax and Canada Thistle. This area is heavily used and these weeds have the potential to infest nearby US Forest Service and private timberlands.

Contractor Leafy Spurge Project

This year the CWMA selected two contractors Lakeland Restorations and Branch Enterprises to work on Leafy spurge on private and state land. This was mainly due to the availability of each contractor, some work was completed earlier in the season and some work in the fall. We wanted to see if there is a difference in treatment success due to treatment timing. Infestations that have been treated in the past are still present but populations are lower and take less time to cover allowing the contractors to expand their work areas. Over 1000 acres were covered using a contractor trained in rough terrain and allows a larger area to be treated than could be possible using only volunteers on project workdays.

Little Salmon River Corridor Project

One workday was conducted in the Little Salmon River corridor along Highway 95. Cooperators included Idaho County, USFS, IDL, BLM, private landowners and Adams County Weed Control. Crews worked along approximately 12 miles of Highway 95. The main target was Spotted knapweed but Diffuse knapweed, Orange hawkweed, Puncturevine, Rush skeletonweed, Dalmatian toadflax and several thistle species were treated as well. The highway corridor alternates between Idaho and Adams counties four times in this area and passes through or near state and federal lands. This cooperative effort will benefit landowners and land managers alike since travel corridors represent the largest spread of noxious weeds.

Helicopter Mapping Project

A helicopter mapping survey was done by Leading Edge Aviation in the Goodrich Creek area this year. The primary purpose was to survey for Yellow starthistle. While doing this survey a few patches of Leafy Spurge were spotted and mapped for Adams County Weed Control and BLM employees to return and treat. Most of the new patches found were on BLM and State lands. This area has been revisited many times this year to search for more outlying infestations.

Bio-control

A number of bio-control releases were made around the Adams CWMA this year. While these did not involve cost share dollars, we have included this discussion because bio-control is part of our strategic plan and it is important to our overall integrated weed management.

Field Bindweed

4 releases of *Acma Aceria* were made this year in the Council Area, NW, SE, and SW of town.

Leafy spurge

2 releases of *Apthona spp.* were made in the Goodrich area on State land.

Dalmatian Toadflax

2 releases of stem boring weevil, *Mecinus janthinus*, were released on infestations of Dalmatian Toadflax, one on BLM land along the Snake River and one near the Silver King mine near Cuprum. While checking new potential release sites *Mecinus* was found already spreading naturally along the breaks of the Snake River.

Information and Education

Summer Weed Tour and Seminar

The Adams CWMA steering committee sponsored a half day classroom seminar and half day tour for the public on June 9th in Council. CWMA members recognize that on-going information and education opportunities mean keeping the weed issue in front of landowners and will ultimately lead to more weed treatment over time. The morning session covered topics such as: *Pasture weeds and treatment*, *Aquatic weeds and treatment*, and what the CWMA and Adams County Weed Control working together have accomplished over the past few years.

Measurable Outcomes

This year has been very productive in the fight to prevent weed infestations. Adams CWMA, its cooperators and 30+ private landowners surveyed, dug, treated and mapped almost 13,000 acres in Adams County. Adams County Weed Control has been able to control the weed production on the county roadways allowing more time to further the search and treat more private and public lands.

Total acres treated – chemical = 6,000
Total acres treated – mechanical = 1,400
Total acres treated – grazing = none
Total acres treated – bio-control = 90
Total acres inventoried = 6,200
Total acres revegetated=100
Total acres New Invaders = none
Total number of public contacts = approx 150

2010 Chemical Purchases with Grant Funds

Chemical	Quantity	Project(s)
Tordon/Outpost 22K	35 G	All projects
Transline	5 G	All projects
Telar XP	32 oz	WT & PP
Redeem R&P	5 G	Knapweeds
Milestone	2.5G	All projects
Cimarron Max	7.5 G	WT & PP
Weedar 64	5 G	Knapweeds
Surfactants	40 G	All projects
Dyes	20 G	All projects
Forefront	5 G	All projects
Aqua Neat	10G	All projects
Basecamp	5G	All projects

Acres Infested by Noxious Weeds within the Adams CWMA

Common Name	Scientific Name	Gross Acres	Percent of Gross Acres Infested	Average Density(%)
1. Black Henbane	<i>Hyoscyamus niger</i>	0		
2. Bohemian Knotweed	<i>Polygonum bohemicum</i>	5	100%	1.00%
3. Brazilian Elodea	<i>Egeria densa P.</i>	0		
4. Buffalobur	<i>Solanum rostratum</i>	1	1%	1.00%
5. Canada Thistle	<i>Cirsium arvense</i>	142,000	30%	5.00%
6. Common Crupina	<i>Crupina vulgaris</i>	0		
7. Dalmatian Toadflax	<i>Linaria genistifolia ssp. dalmatica</i>	3,500	1%	1.00%
8. Diffuse Knapweed	<i>Centaurea diffusa</i>	400	40%	80.00%
9. Dyer's Woad	<i>Isatis tinctoria</i>	5	100%	1.00%
10. Eurasian Watermilfoil	<i>Myriophyllum spicatum</i>	0		
11. Field Bindweed	<i>Convolvulus arvensis</i>	200,000	80%	1.00%
12. Giant Hogweed	<i>Heracleum mantegazzianum</i>	0		
13. Giant Knotweed	<i>Polygonum sachalinense</i>	0		
14. Hoary Alyssum	<i>Berteroa incana</i>	12,000	10%	1.00%
15. Houndstongue	<i>Cynoglossum officinale</i>	5,000	80%	1.00%
16. Hydrilla	<i>Hydrilla verticillata</i>	0		
17. Japanese Knotweed	<i>Polygonum cuspidatum</i>	0	0%	0.00%
18. Johnsongrass	<i>Sorghum halepense</i>	0		
19. Jointed Goatgrass	<i>Aegilops cylindrica</i>	100	100%	25.00%
20. Leafy Spurge	<i>Euphorbia esula</i>	170,000	10%	1.00%
21. Matgrass	<i>Nardus stricta</i>	0		
22. Meadow Knapweed	<i>Centaurea pratensis</i>	0		
23. Mediterranean Sage	<i>Salvia aethiopis</i>	1,200	80%	1.00%
24. Miliun	<i>Milium vernale</i>	0		
25. Musk Thistle	<i>Carduus nutans</i>	0		
26. Orange Hawkweed	<i>Hieracium aurantiacum</i>	100	25%	1.00%
27. Oxeye Daisy	<i>Chrysanthemum leucanthemum</i>	400	80%	10.00%
28. Parrotfeather Milfoil	<i>Myriophyllum aquaticum</i>	0		
29. Perennial Pepperweed	<i>Lepidium latifolium</i>	5	100%	1.00%
30. Perennial Sowthistle	<i>Sonchus arvensis</i>	0		

31. Plumeless Thistle	<i>Carduus acanthoides</i>	0		
32. Poison Hemlock	<i>Conium maculatum</i>	20	100%	5.00%
33. Policeman's Helmet	<i>Impatiens glandulifera</i>	0		
34. Puncturevine	<i>Tribulus terrestris</i>	400	10%	5.00%
35. Purple Loosestrife	<i>Lythrum salicaria</i>	5,000	15%	5.00%
36. Rush Skeletonweed	<i>Chondrilla juncea</i>	152,000	80%	10.00%
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>	150,000	30%	5.00%
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>	1300	30%	10.00%
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>	0		
49. Toothed Spurge	<i>Euphorbia dentata</i>	0		
50. Vipers Bugloss	<i>Echium vulgare</i>	0		
51. Water Hyacinth	<i>Eichhornia crassipes</i> M.	0		
52. White Bryony	<i>Bryonia alba</i>	0		
53. Whitetop	<i>Cardaria draba</i>	400	100%	10.00%
54. Yellow Devil Hawkweed	<i>Hieracium glomeratum</i>	0		
55. Yellow Hawkweed	<i>Hieracium caespitosum</i>	0		
56. Yellow Starthistle	<i>Centaurea solstitialis</i>	91	50%	1.00%
57. Yellow Toadflax	<i>Linaria vulgaris</i>	1,300	80%	1.00%

Integrated Tools

Tools that were used this year in the fight against noxious weeds consisted of:

- Spray trucks for roadways and broad spectrum spraying.
- UTV's and ATV's for transportation or hard to get areas
- Backpack sprayers used to cover various types of terrain
- Skid Tank sprayers for pickups or UTV/ATV use
- Hoes, Mattocks, Shovels for digging Med Sage and Yellow Starthistle
- GPS units to survey and record the location to treat
- Booklets and pamphlets to share with public inquisitive of what to look for.
- Bio-control agents for Leafy Spurge, Field Bindweed and Dalmation Toadflax.
- Seeders to re-vegetate areas that had been burned or were bare

Highlights of 2010

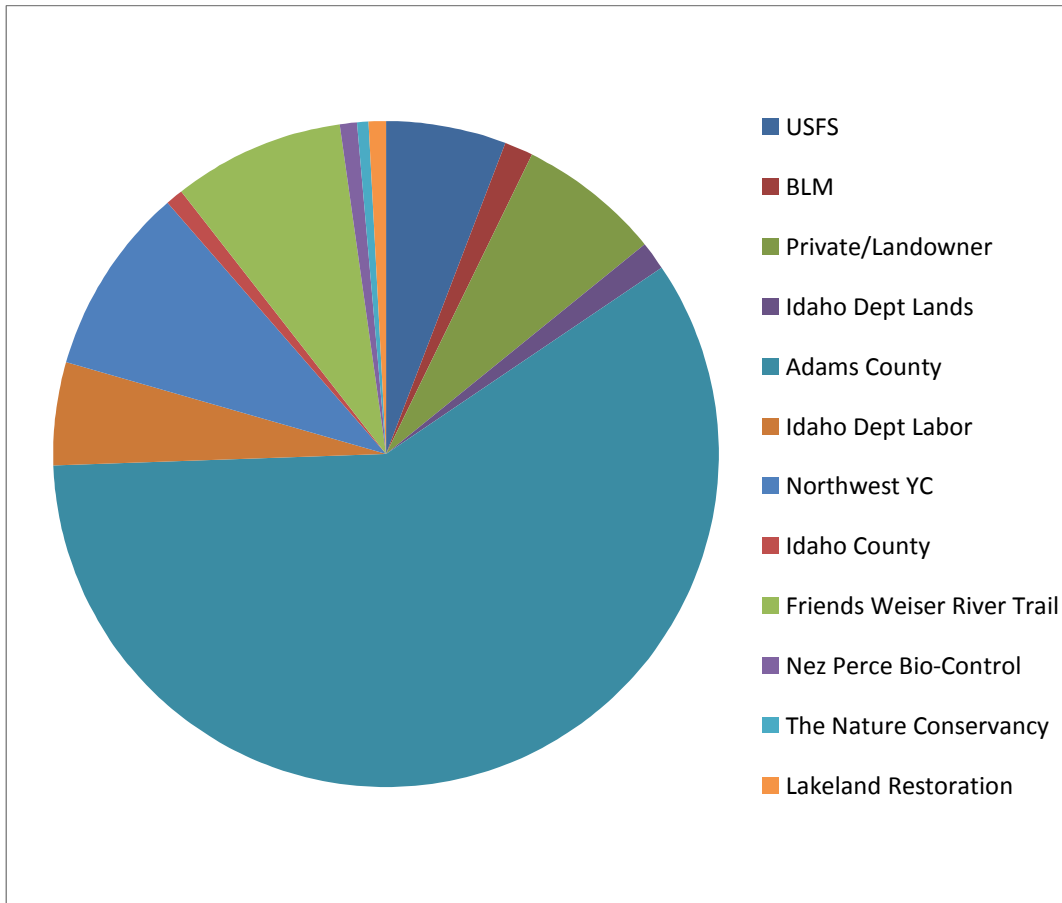
Our project work days consisting of Little Salmon, Rubicon, Mediterranean Sage, Big Bar and Leafy Spurge, have shown weed populations to be reduced and have allowed us to widen our scope and acreage coverage, this is exciting on one hand and on the other we have found weed problems in other areas. Yellow starthistle has not shown much improvement, and one new infestation was found this year which concerns all who work on this project. The main goal of weed management is continuity, we feel that with the perseverance that the Adams CWMA has committed to in the past and the future has and will continue to make a difference.

2011 Work Plan

- Project workdays are planned for Mediterranean sage, Yellow starthistle, Leafy spurge, Spotted knapweed and Diffuse knapweed. There are at least (6) projects planned around the Adams CWMA for 2011.
- Work will continue on Mediterranean Sage, Leafy Spurge, Yellow Starthistle, Hoary cress, Perennial pepperweed, Diffuse/Spotted Knapweeds, Orange hawkweed and Dyers woad by CWMA members.
- The CWMA will hire the Northwest Youth Corp, Idaho Youth Conservation Corp or similar group to assist with Mediterranean sage and Yellow starthistle digging and pulling.
- The CWMA will hire a contractor to work on Leafy spurge outliers over selected areas in the southern end of the county.
- Biological controls will be acquired and released as they become available.
- Mapping and inventory of specific weeds will occur in selected areas.

Details can be viewed in the Adams CWMA 2011 Annual Operating Plan

2010 Contributors to Adams CWMA Projects



APPENDIX

Adams CWMA 2010 Contributors List

<u>Contributor Category</u>	<u>Cooperator</u>	<u>Contact</u>	<u>Phone</u>
Federal Gov.	USDI Bureau of Land Management	Lonnie Huter	208-384-3397
Federal Gov.	USDI BLM	Joey Milan	208-384-3487
Federal Gov.	US Forest Service (Payette NF-Council)	Maura Laverty	208-253-0114
Federal Gov.	US Forest Service (Payette NF- New Meadows)	Amy Baumer	208-347-0338
Non-Federal Gov.	Idaho Department of Lands	Diane Green	208-634-7125
Non-Federal Gov.	University of Idaho Cooperative Extension	Gordon Keetch	208-253-4279
Non-Federal Gov.	Adams County Commissioners	Mike Paradis	208-253-4458
Non-Federal Gov.	Adams County Weed Control	Dave Klaw	208-253-4669
Non-Federal Gov.	Idaho County Weed Dept.	Carl Crabtree	208-983-2667
Non-federal Gov.	Idaho Department of Labor	Ben Phillips	208-332-3570
Private/Landowner	Evergreen Forest Products	Mark Crough	208-347-2111
Private/Landowner	Idaho Power	Sarah Tyrer	208-388-6722
Other	Adams Soil and Water Conservation Dist	Ferrel Crossley	208-253-4770
Other	The Nature Conservancy	Art Talsma	208-350-2204
Other	The Nature Conservancy	Mike Larkin	208-257-3237
Other	Nez Perce Bio-Control Center	Paul Brusven	208-843-9374
Other	Friends of the Weiser River Trail	Patricia Heldt	208-257-3564
Other	Lakeland Restoration	Dave Kluttz	208-448-2222
Private Landowners	8 Private landowners on CWMA steering Committee		
Private Landowners	30+ Private landowners participated in cost share projects/programs in 2009		

