WALLOWA COUNTY
INTEGRATED WEED MANAGEMENT PLAN

Collaboration for protecting our natural resources

The Weed Curve

Adopted by Wallowa County Commissioners: August 22, 2013
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Participants

Thank you to the many people who have dedicated many years to keeping Wallowa County as weed free as it is. Without their work, and the learning that they generated, this plan would not be possible. The following agencies, organizations and individuals were active participants in developing this plan:

- Wallowa County Weed Control District-Wallowa County Weed Board
- Wallowa County Department of Public Works-Vegetation Department
- Bunchgrass Consulting (Contractor)
- U.S. Forest Service, Wallowa Zone
- The Nature Conservancy
- Wallowa Resources
- Wallowa County Natural Resources Advisory Committee
- Wallowa County Commissioners

Purpose

The Wallowa County Integrated Weed Management Plan (IWMP) provides a written strategy to inform and guide weed management activities over time for the Wallowa County Weed Control District. This plan provides a framework for coordinating countywide noxious weed management within a regional context for the next ten years. Land managers with federal and state agencies, county and tribal governments, private landowners, and community groups may use it as a guide for prioritization of projects through risk assessments of real or potential threats by a specific weed, or to a specific site. This document is not intended to be static, but rather to be added to and modified as needed to fit new priorities and new weeds. This dynamic process is built into the system by allowing for five year goal setting and the annual additions of work plans. Prioritization of work will be based on annual weed district prioritizations, five-year objectives, and the ten-year goals established in the following pages.

The integrated approach to weed management laid out in this document will aid in the prudent use of economic resources and increase ecological benefit to the land. The IWMP will serve as an educational tool for those wishing to understand local weed control efforts and will provide accountability of those working at weed control in the district to citizens and elected officials. This plan will also heighten awareness among citizens, governments, and community groups as to the impacts and management of invasive weeds, the importance of current work. The IWMP will provide a foundation from which to build and maintain strong, effective weed control programs into the future.
Executive Summary

Wallowa County is a rich and diverse landscape with an increasingly diverse human population. Effectively managing threats from invasive weeds requires coordinated strategies on a local and regional scale. Wallowa County has been facing this challenge since 1921 when it formed the Wallowa County Weed Control District. Managing new plant invasions amidst changing social trends provides opportunities for collaboration among diverse groups of people and forging of new partnerships in the effort to control noxious weeds. This integrated weed management plan operates within the context of the Wallowa County Nez Perce Salmon Habitat Recovery Plan, Oregon State Law and Oregon’s Comprehensive Guide for the Protection of Oregon’s resources (2001).

The Wallowa County Weed Board actively provides professional and technical recommendations to the Wallowa County Board of Commissioners, and works cooperatively with the Vegetation Manager and the Public Works Director. The Vegetation Department is the primary entity responsible for implementing Integrated Weed Management in the weed district, in accordance with county weed policies, and enforcement of noxious weed laws. Other partners include local federal and state land management agencies, local service districts, tribal governments, non-profit organizations, Cooperative Weed Management Areas (CWMAs), and interested citizens.

The Wallowa County Weed Board represents a cross section of local citizens and is active in noxious weed management. Their mission is to:

- Work cooperatively to promote and guide implementation of noxious weed control in the Wallowa County Weed District and in doing so help,
  - prevent the import of new invasive plants,
  - eradicate small infestations of noxious weeds where possible
  - and contain and manage existing weed populations
- Raise the value of the land economically and biologically;
- Improve the health of the community, promote stewardship, maintain and enhance natural resources;
- Provide leadership and example for other counties and states in effective vegetation management

The Wallowa County Integrated Weed Management Plan is a fruition of decades of effort and commitment to finding solutions to weed management challenges. The plan uses a prioritizes noxious weed species for treatment using a risk assessment based on the competitive nature of specific weeds, and their occurrence in Management Zones delineated by bio-physical and topographical attributes. The Management Zones include the Wallowa Mountains, North Canyons, East Canyons (defined by the Grande Ronde River and the Imnaha/Snake Rivers respectively), Wallowa Valley, and Forest Lands that are distributed amongst the other zones (see Map 1). This prioritization process provides a baseline for decision making by land managers in the Weed Control District. Appendices to the Plan provide detailed information regarding current Weed Board Members, potential funding sources, Oregon State Weed Laws, and current management plans.
Noxious weeds currently rated as the top priority today include common bugloss, leafy spurge, meadow hawkweed, knapweeds, dalmatian toadflax, sulfur cinquefoil, rush skeletonweed, and yellow starthistle. Common bugloss and whitetop have established a competitive presence in the Imnaha River watershed, and rush skeletonweed is being detected in increasing numbers in the North and East Canyons. Yellow starthistle continues to spread across canyon lands, and a dalmatian toadflax invasion is being battled in the north canyons and ridge tops. Knapweeds, especially spotted, are increasing over thousands of acres, and leafy spurge is spreading along the Wallowa and Grande Ronde Rivers, and adjacent agricultural lands.

Since the formation of the weed control district, local government has adopted several weed control ordinances including hay quarantine, a weed-free forage inspection program, and an enforcement policy. In 2012, a five-year serial tax for the control of noxious weeds was approved by local voters ($0.19/$1,000 of assessed property value) generating approximately $112,000.00 annually for five years.

The Appendices provide information about annual action plans for the primary partners in the weed district, and supplementary information to help partners in the prioritization and implementation of weed control projects.
Map 1. Wallowa County Weed Control District. Weed district boundary is the county line. Colored areas represent management zones.
Invasion of western landscapes by exotic invasive plant species is one of the most significant ecological threats facing North America (1, 2). Weed invasions in natural ecosystems threaten ecological integrity by reducing biodiversity, altering native plant communities, increasing soil erosion, degrading wildlife habitat, and reducing carrying capacity for domestic and wild ungulates (3–9). These detrimental impacts degrade economic and social values of agricultural lands, rangelands, forestlands, and wetlands. Additional descriptors of a weed for management purposes may include exotic, non-native, and invasive, but from a legal standpoint, “noxious weed” means any weed designated by the Wallowa County Board of Commissioners that is injurious to public health, agriculture, range, recreation, wildlife, or any public or private property; any weed that impacts and displaces desirable vegetation, such as Threatened and Endangered Plant Species, wildlife habitat, and livestock forage.

The number of noxious weed species in Wallowa County is growing, as is the number of acres that have some level of weed infestation. Care must be taken to minimize disturbance of already infested areas. Vectors of spread increase as human activity and development increases. Weeds are spread by vehicles, humans, domestic animals, wildlife, wind and water. They prefer disturbed sites such as roadways, construction sites, overgrazed areas, trailheads, and areas affected by fire. However, they can also invade relatively undisturbed communities.

Recreational activities, including the use of off-road vehicles, can increase weed seed dispersal if user groups are not effectively educated in weed control strategies. Some agricultural practices and livestock grazing must also be refined to reverse negative impacts that encourage weed invasion.

Invasive weeds are considered one of the most serious natural resource and economic issues facing Wallowa County. The Wallowa County Weed Board developed a prioritization process to determine the invasive potential of listed weeds. Noxious weeds are classified as either “A”, “B”, Target, or placed on the “Watch List”, with “Target”, listed weed receiving priority for control efforts. The weed list is reviewed and updated annually. Without an increase in coordinated and integrated treatment noxious weeds will continue to spread across the region and degrade productive lands that are Wallowa County’s heritage.

Noxious weeds impact transportation and recreation, and affect human and animal health and cause widespread economic impact. Annual economic losses from 21 of the 99 noxious weeds listed by Oregon, estimated in 2000, were $83 million or about 3,329 jobs per year. In addition, Oregon forgoes an additional $52 million annually in lost opportunity to the impacts of the same 21 weeds (10).

The spread of noxious weeds signals the decline of entire plant communities; they severely impact the beauty and plant diversity of environments. Noxious weeds compete with native vegetation for resources, and replace native plant communities in many areas (11, 12). Many noxious rangeland weeds continue to spread at an estimated rate of 8 to 14% per year (13), and in localized areas may increase in acreage by 60% per year (14). Historic control efforts have been partially successful and have contained the spread of only a few noxious weeds (15, 16). New focus on interjurisdictional coordination, new herbicide technologies, and the expanded use of biological controls gives current weed management efforts a much better chance of success. Integrated Weed Management (IWM) is a comprehensive strategy for managing noxious weed invasion. This approach combines chemical, mechanical, cultural, and biological control methods in a strategic fashion to minimize inputs and maximize weed control (17). Prevention is a critical element of
IWM and requires minimizing creation of conditions that favor invasive plant introduction and establishment. Prevention strategies include:
- educating the public to the threat and identification of noxious weeds,
- managing for healthy, weed-resistant plant communities, and
- diligently surveying to provide early detection and eradication of new invasions.

Herbicides are most effective in the initial stages of infestation, when eradication, and or containment are possible. As research and experience continue to document success of biological controls and prescription livestock grazing, managers increasingly rely on these tools to treat landscape-scale infestations. Biological control and carefully managed grazing hold potential for weed control in situations where traditional methods are restricted by environmental or economic constraints.(18-20)

The challenge for Wallowa County is to define desired plant communities, tolerable thresholds of non-native plants, and to choose target non-native invaders for extirpation and/or containment on a site-specific basis using strategic planning, collaboration, and integrated weed management.
I. General Information

Wallowa County Bio-physical Description
The diverse landscape of Wallowa County, Oregon is built on a dissected basalt plateau, including the Wallowa Mountain uplift, and the canyon-lands of the Snake, Grande Ronde, and Imnaha Rivers. Elevational extremes range from 9,000 plus feet of the glacial-carved Wallowa alpine peaks, to river-cut canyon bottoms below 1,000 feet. The great elevational, geographic, and topographic diversity common to the area creates several climatic zones that can vary over short distances. However, the regional climate is considered continental and dry. The Cascade Mountains, several hundred miles west, create a rain shadow effect, intercepting the majority of precipitation from westerly pacific weather patterns. Consequently, the majority of annual precipitation in the county is deposited as winter snows, with secondary rains in late spring. Summer rainfall may occur with convectional storms, and associated lightning storms are the most common cause of forest and grassland fires. Low elevation canyons may receive less than 10 inches of annual rainfall, while moisture on mountain peaks may exceed 50 inches. Seasonal temperatures also vary greatly, depending on elevational extremes, slope and aspect. Consequently, daily temperatures vary greatly depending on slope and aspect, location, and season. January temperatures above 6,000 feet may be 14°F; while below 3,000 feet may be 30°F. Summer temperatures below 3,000 feet range from 80 to 90°F, and above 6,000 feet temperature average may be 54°F in July.

Soils of the region are derived from basaltic parent material with older geologic material exposed at high elevations in the mountains, and low elevations in the canyons. Soils are also influenced by ash deposited from ancient volcanoes in the Cascade Range, and wind deposited loess from Pleistocene scablands to the north. Soil types range from thin, rocky, low-productivity ridge-top scablands to deep ash accumulations on productive grand fir sites. Continued weathering has resulted in mixing of ash and loess with rocky colluvium. Consequently, soils fall under the general categories of:

(A) Residual – derived in place from bedrock or colluvial rock materials.
(B) Ash-loess – derived from deposited and accumulated as and/or loess over older buried soil material.
(C) Mixed – derived from colluvium, ash and/or loess well mixed in surface layers over older buried soil material.

Soil types influence the distribution of plant communities and the potential for weed invasion. Bluebunch wheatgrass communities, scabland communities, and xeric shrub lands occur on soils without loess, while Idaho fescue-prairie June grass, and mesic shrub lands occur on soils that are loess influenced. The presence of ash in forested communities indicates sites capable of supporting grand fir or sub alpine fir communities. Douglas fir and ponderosa pine stands occur on soils with little ash influence. Douglas fir is at a competitive advantage over ponderosa pine in loess-influenced soils, and ponderosa pine is more competitive on residual soils with little loess presence. Soil types form a continuum with transitional areas between differing plant communities where mixing of species occurs. The new plant invaders (i.e. noxious weeds) are now contributing to species mixing and establishing dominance in many plant communities.

Local diversity and the productivity of many sites provide opportunities to maintain native plant communities and restore degraded sites. Conversely, this diversity and productivity - combined with increasing rates of human-caused disturbance- also provides opportunities for non-native invasive plants establish populations across the landscape. The native canyon bunchgrass plant communities are at extreme risk for noxious weed invasion due to their proximity to neighboring weed infestations and to the intense disturbance regimes that canyon soils and plant communities are subject to. The rugged terrain in the canyons makes them remote to large numbers of people allowing for some weed populations to expand unnoticed. The river corridors provide an excellent vector for the spread of noxious weeds because they are...
subject to annual flooding and erosion events associated with steep canyons. Recreational activities are concentrated along travel routes, providing a potential source of new weed infestations.

**Wallowa County Demographic and Economic History**

According to the 2000 U.S. Census, Wallowa County has a population of 7,150. The County covers 3,153 square miles, or 2,034,000 acres, and has a population density of 2.27 persons per square mile. The federal government owns over 57 percent of county lands. Federally designated wilderness areas total 576,813 acres, and Hells Canyon National Recreational Area and Eagle Cap Wilderness offer numerous outdoor recreation opportunities. The Forest Service maintains 750 miles of trail in these areas. Total Federal ownership, combined is 1,159,491 acres. Wallowa County borders Idaho on the east and Washington on the north. Umatilla and Union Counties are to the west and Baker County is to the south.

Population is concentrated in the four incorporated towns surrounded by rural and agricultural lands. The nearest large towns are La Grande, Oregon, approximately 50 miles away, and Lewiston, Idaho approximately 80 miles away. The county is accessed by Oregon State Highway 82 from La Grande and by Highway 3, which runs north to Lewiston. Both roads traverse rugged topography and deep cut canyons. The County has a jurisdiction of over 700 miles of road, the USFS has jurisdiction over 2,400 miles of road and the State Highway Department manages 100 miles. There are scattered populations of weeds along all roadways in Wallowa County. Weed populations continue to expand on secondary roads and form satellite populations across all landscapes.

Federal, state and local governments are the largest employers in the County (including three local school districts). The forest products industry and agriculture remain important critical economic sectors. Livestock is the major component in local agriculture, followed by hay and grain.

The local economy has been subject to severe economic impacts as the forest products and agriculture industries are curtailed and market forces fluctuate. The Endangered Species Act, increased environmental regulations, and environmental litigation have resulted in restrictions on natural resource use and pose a threat to the natural resource industries. Increased regulation and decreasing federal budgets may also limit the recreational use of the National Forests. Noxious weed control has suffered similar restrictions over the last twenty years (See Appendix I for details). Many feel these restrictions allowed noxious weeds to increase exponentially on public lands. However, the Wallowa Zone of the USFS now has an active weed management program, and is a partner in strategic planning and treatment implementation.

Since the 1980s, a downturn in the timber industry has resulted in a loss of 112 timber industry jobs with another 132 jobs lost from the U.S. Forest Service. The County has frequently ranked as having one of the highest unemployment rates in the state. The monthly employment rate has been as high as 19% during certain times of the year. As it is very difficult for natural resource-dependent communities to diversify their economies, one of the most successful strategies for rural economic development has been to support entrepreneurial businesses. According to the 2000 Census, Wallowa County has a 20% self-employment rate, the highest in the state. Government agencies and local non-profit corporations are contracting services for many natural resource projects, including weed control and other restoration activities. Community out-sourcing of services requires increased coordination and collaboration to fulfill management objectives. Weed managers continually seek alternate funding sources for project work, partnership opportunities, and cost-share programs for private landowners.

An arts industry has developed in the past 20 years with the establishment and expansion of bronze foundries and galleries. A growing tourism industry is creating additional businesses and jobs and adding to the local tax base, and economic diversity for Wallowa County. Loss of natural beauty and land productivity from noxious weeds adversely affects recreational activities and aesthetic value.
Many rural areas, like Wallowa County, are experiencing demographic shifts. Land investment opportunities, driven by high market values create economic disincentives for local producers (i.e., high land prices, development pressures, and low commodity prices). An aging population, combined with economic disincentives, affects the transition of ownership from one generation to the next. Increasing absentee land ownership continues to pose challenges to local weed managers by contributing to the loss of local knowledge and disruption of information derived from past experiences. As the County seeks to improve and diversify its economy, maintaining our quality of life and our ability to promote healthy communities remains one of our greatest assets.
II. Wallowa County Weed Control District

Wallowa County formed a weed control district on July 26, 1921, when the primary weeds of concern were Jim Hill mustard (*Sisymbrium altissimum* L.), Canada thistle (*Cirsium arvense*), and devil weed (*Thlaspi arvense* L.). Now, more than ninety years later, the weed list has expanded over 10 fold.

The Weed Control District currently operates under Oregon Regulatory Statute (ORS) 569.350. The Weed Control District boundary is the county line (see Map 1, page 6). The management objective of the Weed Control District is: To promote healthy and diverse ecological communities by using early detection and integrated weed management techniques, including restoration and rehabilitation, to eradicate new infestations and contain and/or reduce existing populations.

The weed district supports the responsible use of natural resources by the local community. Stock growers, loggers, farmers, and other resource managers are invaluable allies in finding and controlling noxious weeds and in creating healthy plant communities that are more resistant to noxious weeds. However, it is also recognized that any disturbance from resource use can provide a niche and a vector for noxious weeds. Therefore, all land owners and managers in the district are encouraged to consider the risk created by disturbance and the potential for noxious weed invasion and manage accordingly. Careful use and management of natural resources generates community benefit that can sustain multigenerational knowledge and stability among natural resource managers and landowners. This type of knowledge and stability is critical to long-term understanding of weed control and proper resource use, and therefore community and landscape health.

The following chart illustrates the general functioning of the Wallowa Weed Control District. Descriptions of the major players and their roles and responsibilities are then described in the following paragraphs.

![Wallowa County Weed Control District Organizational Chart](image)
Wallowa County Commissioners
The Wallowa County Commissioners are the elected officials ultimately responsible to the community for the management of noxious weeds in the Weed District. They make all noxious weed policy and budget decisions. Their decisions are based on recommendations provided by the Wallowa County Weed Board.

The Weed Board
The Weed Board is an advisory committee appointed by the Wallowa County Commissioners to help set noxious weed program priorities and serve as a technical advisor to the Wallowa County Vegetation Department. They are to assist in increasing public awareness of the spread of noxious weeds and in keeping the Board of Commissioners and budget committees informed of problems regarding funding and management of the noxious weed program. The Weed Board reports to the Board of Commissioners and acts as a liaison between the Vegetation Department, County Commissioners and general public.

The objectives of this organization shall be:

To work cooperatively to promote and guide an ecologically based integrated pest/weed management strategy noxious weed control in Wallowa County Weed District and in doing so help to:

1. Manage the natural resources to provide healthy landscapes that are pest and weed resistant
2. Use knowledge of site potential and history of management to predict weed invasion risk and prioritization of control and restoration activities
3. Prevent the import of new invasive plants
4. Eradicate small infestations of noxious weeds where possible
5. Contain and manage existing weed populations
6. Raise the value of the land economically and ecologically
7. Improve the health of the community, promote stewardship, preserve natural resources
8. Provide leadership and examples for other counties and states in effective weed control management

Strategic planning by the Wallowa County Weed Board (with additional partners and cooperators) is ongoing and includes yearly updates of the noxious weed list and priority status organized by species and weed management zones. Action Items related to site specific projects are developed and implemented. Responsibility for each item is designated to sub-committees or individuals. Monitoring results and reporting on a regular basis provide additional strategies and inputs. Project objectives are projected over a temporal and spatial scale and goals may be short and long term.

The Wallowa County Weed Board will develop an action plan each year. They will also develop five-year plans and evaluate the effectiveness of the Integrated Weed Management Plan every ten years and as needed. The Integrated Weed Management plan includes perspectives on the current condition of weeds in the county as well as strategies and action items to achieve best possible outcomes regarding weed control (see Appendix K, p. 66).

The Weed Board and the Vegetation Manager will meet with the County Commissioners twice a year, in February (year-end report), and April (pre-season plans). The April meeting will be open to the public and be in the evening.

Information on the governance of the Weed Board is contained in the organization’s bylaws, attached here as Appendix ???.

Vegetation Department Manager
The Vegetation Department Manager administers the County’s weed program. The Vegetation Manager is supervised by the County Commissioners and has a direct working relationship with the Wallowa County Weed Board. Weed funds are managed by the Vegetation Manager. The vegetation manager is involved in the planning, organizing, directing and evaluating programs that control weeds throughout Wallowa County. Specific responsibilities:

1. Develop, implement and evaluate programs and services for noxious weed and roadside weed control programs. Inventory and map target areas and plan both short-term and long-range goals for eradication of target species. Oversee and participate in weed treatments.

2. Prepare budget and monitor fiscal recordkeeping. Develop grant applications and solicit other funding to support programs. Oversee in-coming and out-going contracts; order materials and supplies.

3. Serve as liaison between the County, Wallowa County Weed Board, landowners, agencies and partners, and contractors in coordinating weed control programs; establish, maintain and interpret policy and procedures including the Wallowa County Integrated Weed Management Plan.

4. Provide educational materials in plant identification, proper selection and application of chemicals; answer questions and complaints concerning vegetation and noxious weed programs. Prepare and present presentations to public and other agencies. Work with Oregon Department of Agriculture and other partners to provide publically available credit hours in Wallowa County for renewal of pesticide applicators licenses.

5. Recruit, hire and supervise the Vegetation Department staff (permanent, temporary and contracted help) necessary to effectively implement County weed control programs.

6. Interpret policy and procedure. Ensure compliance to safety policies and procedures regarding the use of herbicides and equipment. Assume responsibility for work performed in program.

7. Prepare and maintain a variety of records, maps, statistical, and costing reports, and other matters involving research, statistical and spatial data; assemble, analyze and represent data for grants and other recurring reports related to services of the program.

8. Enforce County and State Ordinance and statutes by issuing warnings/citation.

9. Attend educational programs to ensure required state pesticide credits are obtained.

The Vegetation Department Manager will develop the annual work plan for the Vegetation Department to be presented to the Weed Board for advice and recommendations at the March meeting (the Weed Board will be available for a review of a draft budget as well, if so desired by the Vegetation Department Manager). The annual work plan will be presented to the County Commissioners at the April meeting and upon approval will be signed by the County Commissioners, Vegetation Manager, and Weed Board Chair.

The Wallowa County Road Department
The County Road Department is managed by the Public Works Director and works cooperatively with the Vegetation Department Manager and Weed Board to accomplish common management goals and objectives. Vegetation management duties are:

1. Coordinate roadside residual herbicide programs on county rights-of-way.
2. Control broadleaf weeds and other undesirable vegetation on rights-of-way and rock/gravel pits.
3. Ensure the safe operation of roads in an efficient manner.

**Wallowa County Weed Policy (2013)**

“NOXIOUS WEED” means any weed designated by the Wallowa County Board of Commissioners that is injurious to public health, agriculture, range, recreation, wildlife, or any public or private property; any weed that impacts and displaces desirable vegetation, such as Threatened and Endangered Plant Species, wildlife habitat, and livestock.

It is acknowledged that certain noxious weeds have become so thoroughly established and are spreading so rapidly on state, county, and federally owned lands, as well as on private land, that they may have been declared by Oregon Revised Statue 569.350 to be a menace to public welfare. Steps leading to eradication where possible are necessary. It is further recognized that the responsibility for such eradication and/or intensive control rests not only on the private landowner and operator, but also the county, state and federal government.

**THEREFORE, IT SHALL BE THE POLICY OF WALLOWA COUNTY TO:**

1. Increase awareness of potential economic loss due to existing and new invading weeds through continuous education of the public.
2. Rate and classify weeds at the county level.
3. Prevent the establishment and spread of noxious weeds.
4. **Encourage and implement control** of infestations of designated weed species and, where possible their eradication. When budgets allow, offer a landowner cost share program for “TARGET,” “A,” “B” and Watch List rated weeds (projects controlling B and Watch List rated weeds will generally be lower priority than those controlling “TARGET” and “A” rated weeds, but will be evaluated on a case by case basis for the merit of the project).
5. Manage a biological control of weeds program for yellow starthistle, leafy spurge, St. Johnswort, diffuse/spotted knapweed, Dalmatian toadflax and others, in cooperation with ODA’s Biological Control of Weed Program.
6. Cooperate with other states, federal agencies, private citizens, the Tri-County and Tri-State Weed Management Areas, The Lower Grande Ronde Noxious Weed Program, Nez Perce Tribe and other groups in controlling noxious weeds in Wallowa County and our region.

**Noxious Weed Rating System**

The purpose of the rating system is to provide an official guideline for implementing noxious weed control programs in Wallowa County, and assist Wallowa County in the distribution of available funds as specified in ORS 569.470 to 569.495 (cost share assistance grant and matching fund grants). Noxious Weeds shall be designated “Target”, “A” or “B” or placed on the “Watch List”.

Additional information may be obtained from the Integrated Road Management Plan.
1. An “A” designated weed is: a weed of known economic importance which occurs in the county in small enough infestations to make eradication or containment possible; or is not known to occur, but its presence in neighboring counties make future occurrence in Wallowa County seem imminent.

**Recommended Action: Infestations are subject to intensive control when and where found.**

2. A “B” designated weed is: a weed of economic importance which is regionally abundant, but which may have limited distribution in some areas

**Recommended Action: Limited to intensive control at the county or region, or landownership level as determined on a site specific, case-by-case basis. Where implementation of a fully integrated county wide management plan is not feasible, biological control (when available) shall be the primary control method.**

3. “Target” Designated Weed – a priority noxious weed designated by the Wallowa County Weed Board as a priority for which the county vegetation department will develop and implement a county wide management plan. “Target” designated noxious weeds are species selected from either the “A” or “B” or “Watch” list (Table 3).

**Recommended action: Infestations of “Target” Weeds are subject to eradication or intensive control - according to the management plan - when and where found.**

4. A Plants on the “Watch List” are weeds that are known or are likely to occur in Wallowa County that have economic or ecological importance but, for whatever reason have not been given the emphasis of rating as an A or B Noxious Weed are listed in the Watch List.

**Recommended Action: Inventory and monitor existing infestations, elevate awareness through education, contact affected landowners. Control is encouraged but at the discretion of the landowner.**

**Legal Standing of the Weed District**

Oregon State laws and Wallowa County ordinances provide legal standing for action to control noxious weeds. The Wallowa County Board of Commissioners has passed the following ordinances:

- **1921:** Formation of the Wallowa County Weed Control District
- **1985:** Ordinance Controlling Spread of Tansy Ragwort and establishing a Hay Quarantine
- **1990:** Ordinance 90-002 Declaring Emergency to Eradicate Yellow Starthistle and All Species of Noxious Weed in the Wallowa County Weed Control District
- **1991:** Ordinance 91-001 Controlling Spread of Noxious Weeds in Wallowa County
- **2000:** Resolution 2000-001 In the Matter of Amending Ordinance 91-001 / Controlling the Spread of Noxious Weeds in Wallowa County
- **2000:** Article 43 Citation Ordinance to Authorize Enforcement of Weed Laws
- **2002:** Resolution 2002-006 In The Matter of Adopting a Weed Free Forage Inspection Program within Wallowa County
- **2006:** Adoption of the IWMP: its policies and procedures, and strategic plans.

**Oregon State Weed Control Laws**

Rationale for Oregon State noxious weed control laws is provided below. Full text of Oregon weed laws is provided on-line following this link: [http://www.leg.state.or.us/ors/569.html](http://www.leg.state.or.us/ors/569.html); or in Appendix D.
**569.515 Legislative findings; need for evaluation.** The Legislative Assembly finds and declares that

1. Noxious weeds present a serious threat that adversely affects industries vital to the Oregon economy, including but not limited to the agriculture, forestry, fishing and tourism industries;
2. Failure to control the spread of noxious weeds in Oregon will reduce the productivity of Oregon industries and adversely affect marketing by those industries, resulting in a loss of business and the loss of existing jobs;
3. The use of aggressive measures to control the spread of noxious weeds will improve the actual and perceived quality of Oregon products and further the promotion and expansion of markets for those products; and
4. The control of noxious weeds through county weed control district programs will benefit Oregon’s economy by preventing the loss of existing jobs, by promoting and expanding Oregon business and by preventing the decline of Oregon business. [2011 c.392 §1]

**Noxious Weed Enforcement Policy and Procedures**

In accord with ORS 569.175-569.990 (see Appendix D ORS for weed control), the Wallowa County Weed Board will annually submit a proposed list of A and B designated weeds (see Tables 1 and 2) and the recommendations for enforcement to the Wallowa County Board of Commissioners list by the third Tuesday of April.

The Wallowa County Commissioners will review, revise and publish the final lists and enforcement policy for two consecutive weeks (in accord with ORS) in local newspapers.

The Wallowa County Vegetation Manager (Weed Inspector as appointed in accord with ORS 570.520) will be designated as the primary enforcement officer for management of noxious weeds in Wallowa County. The Vegetation Manager will locate and record infestations of noxious weeds on public and private lands within the county.

An infestation is defined as the presence of one or more plants listed as a Noxious Weed in the current Wallowa County Weed List. The Vegetation Manager is directed to implement Noxious Weed enforcement actions in the progressive manner described below (steps 1-4). However, it is noted that before moving to enforcement actions, the inspector should use all available means (such as education, facilitation, and reasonable cost share) to resolve noxious weed issues. It is also noted that a violation of noxious weed law may be deemed urgent and that the inspector, at his/her discretion, is required to use only steps 3 and 4 below.

1. Notification Letter (Optional)
   The inspector shall send a letter of friendly tone notifying the property owner of: a Noxious Weed infestation on their property (with photo of their property, if possible), informing them of their obligation to control the infestation (copy of ORS 569.175-569.990 and the WC Weed List), offering technical assistance and requesting that the property owner report to the WC Weed Inspector their intentions for controlling the infestation. The WC Weed Inspector should sign the letter.

2. Hand Delivered Or Certified Letter (Optional)
   A hand delivered or certified letter will be sent to property owners who fail to respond to the Notification Letter. The letter reminds the property owner of the previous notification letter (a copy of which is enclosed), cites appropriate sections of 569.175-569.990, and repeats the offer of technical assistance. The letter also directs them to report, within 10 days, to the WC Weed Inspector their plans for controlling the infestation. Sent by WC Weed Inspector and carbon copied to WC District Attorney.

3. Posting/Enforcement Letter (Hand Delivered or Certified Letter)
The property may be posted and/or a hand delivered or certified letter sent by the WC Weed Inspector and carbon copied to the WC District Attorney directing the property owner to initiate specific control efforts within 2-20 days (or by a specific date the following spring) and that failing to do so will result in criminal citation and financial liability for control efforts implemented by the county or its agents.

4. Citation
If there is no response to the Enforcement letter or if there is non-compliance with the expected control plan within the allotted time, the landowner will be cited by the appropriate law enforcement agency and referred to the District Attorney for prosecution. The WC Weed Inspector will be directed to undertake control efforts on the property, with the property owner to be held liable for costs within the criminal prosecution or a lien on the property will be established.

Weed District Funding
Historically, the noxious weed program has been funded through fees for services, the county general fund, road department, and grants. Road Department dollars are distributed to meet safety, maintenance and environmental needs. The road department receives 33% of its revenues from Highway User Fees, 57% from Federal Forest Receipts, and 10% from miscellaneous revenues. The loss of timber receipts from U.S. Forest lands and budget reductions have constrained weed management activities. Consequently, the county government supported three tax levy proposals in 1998, 2000, and 2002.

In 1998, a one-year local option was passed with a majority of voters, but not approved due to a less than 50 percent voter turn out. In 2000, a five-year serial tax for control of invasive noxious weeds was placed on the ballot and was defeated. In 2002, a similar measure was successful in appropriating approximately $85,000.00 annually for five years. Weed Control District partners actively search for additional funding sources (Appendix E.).

Weed District Local and Regional Partner
Each of the organizations represented as local and regional partners in the Wallowa County Integrated Weed Management Plan have financial resources and/or skills and equipment to perform certain tasks. Partners collaborate on noxious weed control and coordinate application for supplemental funding to accomplish weed district goals. Local volunteers and partners will be instrumental in educational events, work days, prevention strategies and other aspects of weed management.

Weed District Planning
The Wallowa County Weed District has developed this Integrated Weed Management Plan to guide weed control efforts over a ten-year period. The Integrated Weed Management plan includes perspectives on the current status of weeds in the county as well as strategies and action items to achieve best possible outcomes regarding weed control. Work plans and district wide goals are presented as:

- Ten year Goals
- Five-year objectives and
- Annual action plans.

The Wallowa County Weed Board developed a list of 16, ten-year goals. In the process of developing these goals, six main areas of emphasis surfaced:

1. Prevention and education,
2. Inventory and mapping,
3. Treatment,
4. Monitoring and restoration,
5. Enforcement, and
6. Programmatic issues.
The ten-year goals have been further detailed by the formation of five-year objectives that forward a particular ten year goal. The 2012 action plans, representing current efforts from the USFS, Wallowa Resources, the Wallowa County Weed Board, and the Wallowa County Vegetation Department, are located in section: VI. Appendices K-N.

1. **Prevention and Education**

**Goal 1:** Publicize current status of individual noxious weeds, their identification, threat and their management strategies and plans.

*5-Year Objectives:*
A. Share plans with concerned landowners and managers
B. Publish weed management plans for high priority weeds in the local media.
C. Publicize & improve annual meeting with County Commissioners

**Goal 2:** Provide education for the public on the nature of the weed problem and current management status and strategies.

*5-Year Objectives:*
A. Assemble, publicize and analyze noxious weed impacts on agriculture (farm, forest, forage).
B. Assemble, publicize and address noxious weed impacts on biodiversity and habitat function.
C. Demonstrate effectiveness of weed control efforts
D. Update county brochures & education materials including presentations
E. Have 3 demonstration prescription grazing projects in district
F. Expand weed tour and broaden appeal
G. Update weed website and promote 1-866-Invader hotline
H. Improve education efforts in the local media
I. Evaluate and improve public weed information road signs
J. Continue to update Advanced Weed Guide for managers
K. Hold annual weed volunteer/managers appreciation events
L. Display the role and by-laws for the Wallowa County Weed Board
M. Be available to clubs, interested groups, schools, etc., to present on the safe use of pesticides and other methods of control, including IWM strategies.
N. Incorporate weed education into school curriculums
O. Target field workers for weed identification

**Goal 3:** Undertake and support noxious weed prevention efforts

*5-Year Objectives:*
A. Support the Certified Weed Free Forage Inspection Program with technical advice and educational/enforcement efforts such as the Wallowa County Hay Quarantine.
B. Evaluate & make mobile and permanent Wash Stations for vehicles and equipment
C. Support, man, and recruit help to run the Minam Hay Station
D. Promote certified hay sales outside the county
E. Promote weed bounty program
2. **Inventory and Mapping**
   
   **Goal 1:** Survey and map all noxious weeds in Wallowa County by species.

   **5-Year Objectives:**
   A. Assemble and maintain integrated GIS Weed Map and data for all
   B. Map and evaluate rock pits – designate active vs. inactive
   C. Inventory high use sites annually (i.e. fairgrounds, landfills, trailheads)
   D. Conduct aerial inventory on backcountry risk areas every two years

3. **Treatment**
   
   **Goal 1:** Assist all Weed District partners with effective implementation of weed control measures.

   **5-Year Objectives:**
   A. Establish successful treatment/revegetation plots
   B. Manage containment areas for “no flow”
   C. Reduce chemical use by successful management/prevention
   D. Provide technical assistance to private landowners with pesticide recommendations and alternative methods of weed control.
   E. Coordinate weed control on all county land including county road shoulders, rights-of-way, gravel pits, state highways, and county recreation areas, as determined for legal and safety purposes.

   **Goal 2:** Facilitate and support the distribution of biological control agents where appropriate for noxious weeds.

   **5-Year Objectives:**
   A. Release and monitor biological control agents aggressively
   B. Evaluate biological control agents on a case-by-case basis
   C. Support the research and development of new biological control agents for noxious weeds impacting Wallowa County (e.g. sulfur cinquefoil, Scotch thistle)

4. **Monitoring and Restoration**
   
   **Goal 1:** Support ongoing project inventory and monitoring

   **5-Year Objectives:**
   A. Review IWMP on an area-by-area basis
   B. Monitor/document success/failure of all treatments
   C. Begin restoration on at least 1500 acres

5. **Enforcement**
   
   **Goal 1:** Develop and comply with federal, state and local laws, regulations and policies regarding noxious weed control.

   **5-Year Objectives:**
   A. Evaluate enforcement policy and procedure particularly in regards to:
      i. the hay quarantine
ii. regulations regarding the introduction of noxious weeds through construction and recreation vehicles
B. Work with landowners to obtain compliance with existing weed laws

6. **Programmatic**

**Goal 1:** Identify traditional and non-traditional funding sources for weed programs.

*5-Year Objectives:*
A. Stabilize long term funding for all weed programs (levy, grants, etc)
B. Inform the public as to the impact and importance of the weed levy

**Goal 2:** Provide funding for noxious weed treatment efforts and when budgets allow offer a cost share opportunity to landowners with listed noxious weeds.

*5-Year Objectives:*
A. Make cost share available/accessible/adequate for treatment (all phases)
B. Expand weed program staff to match workload

**Goal 3:** Implement the Weed Policy and Classification System.

*5-Year Objectives:*
A. Develop “A,” “B,” “T” and “Watch” lists to identify noxious weeds and their severity.
B. Update lists annually
C. Assess new noxious weeds not presently known to occur in Wallowa County, but that have high invasion potential.

**Goal 4:** Facilitate cooperation and coordination between jurisdictions, agencies, land managers and private owners.

*5-Year Objectives:*
A. Update MOU
B. Integrate programs with CWMA’s and state agencies
III. Weed Control Methods

Effective weed management depends on an understanding of plant biology and ecological community dynamics. A multi-scale multi-disciplinary, ecological perspective is helpful in reviewing the history of weed infestations, management approaches, and developing management strategies. The pervasiveness and complexity of noxious weeds necessitates using IWM. Education, inventory, and impact assessment comprise the first phase of an IWM program. The second phase includes prioritizing sites by level of degradation and invasibility from and by a weed species, and choosing an appropriate and cost effective management strategy. The third phase is adopting proper land management practices. The fourth phase is evaluating the management strategy through monitoring, and adjusting techniques to optimize the IWM program (23). Surveying and mapping weed populations allows data to be used for estimating and mapping weed populations and density, followed by weed classification, and a prioritization process to schedule control activities. Management tools are nested within the IWM model and include:

Prevention and Education
Prevention and education are the best long-term strategies by managing for healthy weed-resistant plant communities and limiting the spread of noxious weed seed and plant parts by humans and associated animals. Identification of weeds and assessing invasive characteristics is critical to early detection and prevention strategies. Increasing awareness by the general public through educational information will add community support, increase weed identification and detection, and foster cooperation and partnerships. Implementing weed control laws, hay quarantines, and educating the public on weed control strategies will increase awareness of individuals to clean infested equipment, and manage their activities to minimize negative impacts to the environment (Fig. 2). A prioritization process for determining invasive potential of specific weeds in concert with delineated management zones, provides a risk assessment to improve prevention strategies.

Biological Weed Management
Biological control is using living organisms to affect the biology of a target species. Insects, nematodes and microorganisms like fungi and bacteria are among organisms introduced to weed populations through programs coordinated by Oregon Department of Agriculture. Insect herbivory has played an important role in plant evolution and community dynamics. The release of host-specific seed-head flies, and root boring insects show promise in reducing weed populations and containing their spread. The annually revised Pacific Northwest Weed Control Handbook includes a list of the current status of biological weed control agents in Oregon, Washington, and Idaho (22).

Herbivory from larger grazing herbivores can also be directed to negatively impact weed populations while enhancing the competitive nature of desired plant communities. By matching animal preference for individual weed species, a grazing prescription can be developed. Prescription grazing for weeds must be applied when weeds are most palatable to the herbivore and susceptible to damage by grazing. Furthermore, grazing should be implemented when the associated plant community expresses the most grazing tolerance or lowest relative palatability, and timed to not negatively impact bio-agents if present. Prescription grazing should be approached primarily from the standpoint of weed management, not livestock production.

Selective grazing has been used to alter the community composition in favor of native species (18, 19, and 26). Goats have been used for browsing invasive shrubs and reducing fire threats and sheep have been used in conifer plantations for selective grazing and fine fuel reduction. Cattle, goats and sheep have been used in rangeland rehabilitation for trampling seeded areas to enhance seed to soil contact. Current research is studying the effects of combined grazing and biological control to create synergistic effects on targeted noxious weeds. The Ecological Area-wide Management (TEAM) of leafy spurge is encouraged by results.
from sheep grazing leafy spurge and knapweed. Biocontrol agents seem to work better if grazing breaks up the dense canopy cover (25).

Regarding prescription-grazing strategies, it is recognized by weed control district partners that contact between domestic sheep or goats and wild bighorn sheep is to be avoided to reduce risk of disease transmission and negative impacts to bighorn populations. The Weed district hopes for the day when this situation will be resolved by disease control research or policy changes. Although grazing has been considered a cultural practice in the context of IWM, prescription grazing exerts biological pressure on target species, and is therefore categorized in this plan as biological control.

**Chemical Control**

Use of herbicide applications to target plants is most effective during initial establishment of weed populations when eradication may be possible. However, chemical control will remain an integral part of weed containment and landscape scale infestation management. Timing and rate of application is critical and knowledge of plant physiology, phenology, and morphology are essential for effective chemical control. Use of selective herbicides such as 2, 4-D, and clopyralid can remove broad leaf weeds and shift the competitive balance towards grasses. Broad-spectrum herbicides such as glyphosate may affect all plants, thereby requiring additional care in application and revegetating open niches with desired species may be appropriate. Herbicides with residual soil activity such as picloram are effective in range and forestland settings when follow-up treatment may be restricted by remoteness. The annually revised Pacific Northwest Weed Control Handbook provides herbicide treatment recommendations (22). This handbook is designed as a reference for weed control practices used in cropping systems, and site/situations in Oregon, Washington, and Idaho. Herbicide use is subject to Federal Law and label information provides legal guidelines.

**Cultural Control**

Cultural controls are aimed at enhancing desirable vegetation to minimize weed invasion. Agricultural practices including the use of cover crops, competitive crop species, no-till cultivating, revegetating with desired species to fill empty niches and to develop weed resistant pastures and agricultural fields. Fertilization can also be useful in increasing competitiveness of desired species.

**Mechanical Control**

Physical and mechanical control methods can be effective on small infestations. Methods include hand pulling/grubbing individual plants, tillage to uproot weeds, mowing actively growing plants, mulching to exclude light to target plants, flooding to create anaerobic conditions, and fire to remove biomass and create seed bed for revegetating efforts. Some perennial weeds with adventitious rooting and rhizomes, such as leafy spurge, may be spread through tillage, but repeated tillage every 21 days during the growing season, effectively controlled Canada thistle (23).

**Revegetation**

Revegetation is the seeding or planting degraded and treated sites to fill empty niches created by removal of a weed species. Methods include seed bed preparation by chemical, cultural, and mechanical control of weed population and seeding of desired species by hand or with equipment, including range drills. Incorporating livestock trampling shows promise to enhance seed-bed preparation and seed-soil contact. Knowledge of weed seed dormancy cycles and soil bank characteristics are important to the application of all IWM methods (23,24).
IV. Strategic Plan

The weed district realizes that prevention and education, combined with early detection and eradication, are the most powerful tools for long-term management of noxious weeds. Early detection can lead to eradication, which is hugely more cost effective than managing containment areas and landscape level infestations. The weed population curve below illustrates the concept. Weed managers want to operate on the bottom end of this curve, while population levels, ecological impacts and costs are low. Often times though, we end up trying to “catch” a weed as it climbs the steep part of its population growth curve or, worse yet, we attempt to manage a weed after the curve has flattened and the weed has arrived at or near it’s biological potential.

**THE WEED CURVE**

![The Weed Curve](image)

*Figure 2. The Weed Curve. This graph shows the lag time between introduction of weeds, detection of infestations by professionals and producers, recognition by the general public, and illustrates the critical need for early detection.*

**Noxious Weed Prioritization Rating System**

The Wallowa County Weed Board prioritizes noxious weeds using four weed management criteria:

1. Invasibility characteristics and threat level,
2. Confirmation of presence and estimated area affected,
3. Potential to eradicate and or contain population, and
4. Effectiveness of biological control.

Invasive ability (invasibility) is measured by the competitive characteristics of a particular plant (Appendix F). For management purposes, Wallowa County is divided into zones based on biophysical characteristics. The Wallowa Mountains, Wallowa Valley, North canyons, East canyons, Forested Lands, and the Zumwalt...
Prairie, comprise the basic geography of the county (see map 1). Current or potential threats by invasive weeds in any of the management zones are assessed for risk by the four criteria stated earlier. A total score provides a reference by combining ratings by species across the management zones. That score informs designation of a weed as “TARGET” “A” “B” or Watch list”. In addition, the Weed Board can consider local history and community input regarding weed species placement on the each list.

Many annual, biennial, and certain perennial weeds can rapidly colonize new sites by flowering early, producing numerous seeds, and having adaptive dispersal mechanisms. Perennial weeds have the ability to store carbohydrates for growth over several years, and many produce seed that can germinate in numerous environments with variable dormancy rates. Consequently, the soil seed bank becomes enriched with seed with potential germination over time (24)

Low priority weeds

1 = Invasibility and/or threat low, containment impossible, and/or bio-control is effective.
2 = Invasibility and/or threat medium, containment impossible, and/or bio-control is effective.
3 = Invasibility high, presence confirmed or probable, threat high, containment may not be possible, and/or bio-control possible.
4 = Invasibility high, presence confirmed threat high, eradication/containment possible, and bio-control not effective.

High priority weeds
<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Mountains</th>
<th>East Canyons</th>
<th>North Canyons</th>
<th>Wallowa Valley</th>
<th>Forest Lands</th>
<th>Prairie</th>
<th>Total Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bloodrop/Pheasant Eye</td>
<td>Adonis aestivalis</td>
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<td>3</td>
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<tr>
<td>Bugloss, Annual</td>
<td>Anchusa arvensis</td>
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<td>Dalmatian Toadflax</td>
<td>Linaria dalmatica</td>
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<td>False Hoary Alysum</td>
<td>Bertara incana</td>
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<td>Hieracium aurantiacum</td>
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<td>Sulfur Cinquefoil</td>
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Yellowed cells indicate high priority weeds
Table 2. "B" Listed weeds by species, management zone, and priority score.

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<th>Forest Lands</th>
<th>Prairie</th>
<th>Total Score</th>
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<td>Hounds Tongue</td>
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Table 3. “Watch” Listed weeds by species, management zone, and priority score.

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<th>Forest Lands</th>
<th>Prairie</th>
<th>Total Score</th>
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<td>Salt Cedar</td>
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<td>Sweet Briar Rose</td>
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<td>Tree of Heaven</td>
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**Yellowed cells indicate high priority weeds**

**Red letters indicate the top priority weeds for the county at this time**
Wallowa County Weed District Weed Management Plan
The Weed Board and Area Weed Managers are working together to accomplish the following specific objectives:

**Blood Drop** Treat all roadside infestations (and other sites that have high potential to spread this weed). Intensively inventory so that current distribution is apparent, work with ODA to analyze this plant's invasibility and potential threat to Wallowa County, evaluate containment area designation and treat accordingly.

**Mediterranean Sage and Orange Hawkweed** Neither of these weeds is known to be present in the weed district. However, they are known to exist near the county line and do present a substantial threat if they were to invade. Therefore, managers will actively monitor for new sites in high-risk areas. Any sites found will be immediately and aggressively treated with the goal being eradication.

**Rush Skeletonweed** This relatively new invader is perhaps the weed with greatest potential to negatively impact the weed district. Rush Skeletonweed was discovered very early in its invasion of the weed district due to the commendable efforts of state and regional weed managers to communicate about new species. Weed District managers now have the opportunity to control this weed while its population is very small. However, Rush Skeletonweed is very invasive (largely due to its wind born seeds) and will require a very high level of vigilance to successfully contain this invader. All known sites should be managed to control seed production and be aggressively treated. Biological controls are in place, but they are not consistently controlling populations.

**Russian and Meadow Knapweed, Perennial Pepperweed, False Hoary Alyssum, Purple Loosestrife, and Tansy Ragwort** All of these weeds have very limited known distributions within the weed district and they also have great potential to impact the district. All sites of these weeds will be treated aggressively with eradication as the goal. Of these weeds only Purple Loosestrife has a potentially effective biological control though it is affected along the Snake River by fluctuating water levels. Also, current inventory does not indicate that there is enough of this weed to merit biological control. Tansy Ragwort has an effective biological control in the more temperate climates of the Pacific Northwest. They do not survive the cold winters east of the Cascade Range. The weed district will cooperate with ODA implementing their eradication program for Tansy Ragwort.

**Spotted Knapweed, Leafy Spurge, Meadow Hawkweed, Whitetop and Dalmatian Toadflax** All of these weeds are top priorities for the district because of their known invasiveness and due to the huge economic and ecological threat they pose to the weed district. Containment areas for these weeds have been established (see Maps 2 and 2a-f, below) because they are present in high enough numbers that eradication is locally impossible. However, all of these populations require the most aggressive management and the utmost vigilance. Within the containment areas, intensively treat and monitor all sites that present a risk of spread outside the containment area, particularly roadsides and waterways. Also, within the containment area biological and cultural controls shall be prioritized if they are thought to be potentially effective in reducing the impact of the weed and/or if they will benefit integrated control measures. Currently only Dalmatian Toadflax and Leafy Spurge have potentially effective biological control agents; within their containment areas the impact of these agents are being evaluated. Sites that do not present a high risk of spread shall be evaluated on a case-by-case basis for the potential of extirpation and revegetation success.

All sites of these weeds outside the containment area shall be intensively managed for the purpose of extirpation. The primary means of treatment shall be chemical control but other methods can be used if they are seen to benefit the eradication process. Sites of these weeds outside their containment areas shall receive
the highest priority for cost share and treatment. Weed managers are encouraged to treat these sites themselves to ensure proper treatment or, at least, to provide close inspection of work.

Weed District managers should annually reevaluate containment area boundaries and treatment prescriptions in light of new inventory data or treatment methods. Meadow Hawkweed in particular needs immediate attention due to new inventory and treatment data from 2004 fieldwork.

Map 2. Weed Containment Areas in Wallowa County (current 5/2006).
Map 2a. Spotted Knapweed Containment Areas in Wallowa County (current 5/2006).
Map 2b. Leafy Spurge Containment Areas in Wallowa County (current 5/2006).
Map 2c. Meadow Hawkweed Containment Areas in Wallowa County (current 5/2006).
Whitetop Containment Areas

Map 2d. Whitetop Containment Areas in Wallowa County (current 5/2006).
**Common Crupina and Musk Thistle**  Like the weeds above, Common Crupina also has an established containment area (managed by the Lower Grande Ronde Noxious Weed Program). It is not thought to be as invasive nor as harmful as the weeds above. Funding has not been secured to date for treatment of this weed.

Musk Thistle has been present on one site in the district for many years. ODA released a biological control agent that seems to keep it in check. However, it has recently been noticed that it is spreading. Therefore, it shall be managed on containment basis hence forward.

**Common Bugloss, Yellowstar Thistle, Sulfur Cinquefoil, Poison Hemlock and Medusahead Rye**  These weeds are very serious invaders that all have a fairly wide distribution within the district but whose populations are centered in particular areas. With the exception of Common Bugloss (see Map 2f), containment area designations are needed for all of these weeds. Intensive mapping efforts are needed ASAP for Sulfur Cinquefoil in particular. Treatment prescriptions for these species need to be informed by the context of the site to other populations. All of these weeds have substantial impacts on the district already. Once containment area designations are in place, all sites outside should be treated with the same principles and diligence as applied to those above (i.e. Leafy Spurge).
Scotch Thistle and Diffuse Knapweed  Both of these weeds have very wide distributions across the weed district. Eradication of either of these weeds is impossible. Diffuse Knapweed has a suite of biological control agents that are performing extremely well and appear to have the potential to reduce the
population and the impact of weed to a level where it shouldn’t be a problem for landowners and managers. Scotch Thistle has no biological control agents. Management of these two weeds will be selective. Both of these weeds are very important to the public because they have been fighting them for years. Managers should work to educate the public as to the relative threat of these weeds compared to other A list species. Cost share will remain available for these two weeds as a matter of public interest.

Yellow Toadflax, Japanese Knotweed and Jointed Goatgrass  District managers are just beginning to become familiar with the distribution of these three species. Inventory efforts are a high priority for these species. All three species should be aggressively treated wherever they are found.

B Rated Weeds  All of the weeds on the B list will be selectively managed as motivated by restoration, agricultural production, roadside vegetation management or other reasons.

Watch List  Weed managers will monitor populations of these species for spread or other issues that might warrant their listing.
V. Literature Cited


VI. Appendices
## Appendix A.
Wallowa County Weed Board 2013

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<th>Position/Member/Address</th>
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<tr>
<td>1. Luke Royes</td>
<td>Membership pending</td>
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<tr>
<td>Enterprise OR 97828</td>
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<tr>
<td>541-398-0413</td>
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<tr>
<td>email - <a href="mailto:royescl@oregontrail.net">royescl@oregontrail.net</a></td>
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<tr>
<td>2) Larry Aschenbrenner</td>
<td>12/2013</td>
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<tr>
<td>612 Mildred Ave</td>
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<tr>
<td>541-426-3574</td>
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<tr>
<td>email - <a href="mailto:lasch@eoni.com">lasch@eoni.com</a></td>
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<td>3) Jerry McLain</td>
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<td>PO Box 1003</td>
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<td>4) Melvin Lathrop</td>
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<td>78080 Leap Lane</td>
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<td>5) Paul Spriggs-Flanders</td>
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<tr>
<td>paul <a href="mailto:sprung-flanders@class.orednet.org">sprung-flanders@class.orednet.org</a></td>
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<tr>
<td><a href="mailto:warnock@eaglecap.net">warnock@eaglecap.net</a></td>
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<td>7) Mark Porter</td>
<td>12/2013</td>
</tr>
<tr>
<td>PO Box 18</td>
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<tr>
<td>Lostine, OR 97857</td>
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<tr>
<td><a href="mailto:mark@wallowaresources.org">mark@wallowaresources.org</a></td>
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</tr>
<tr>
<td>8 Julia Lakes</td>
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<tr>
<td><a href="mailto:julia@wallowalandtrust.org">julia@wallowalandtrust.org</a></td>
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Appendix B.
Other Noxious Weed Contacts

Wallowa County Commissioners
541-426-4543(ext.11)
wcboc@oregonvos.net

Allen Schnetzky
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wcweeds@co.wallowa.or.us

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June Colony
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Greg Winans
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Dennis Sheehy
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John Williams
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john.williams.1@oregonstate.edu

Matt Zupich
WC SWCD
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matt.zupich@or.nacdnet.net
Appendix C.
Wallowa County Road Department Management

County road right-of-ways are divided into five vegetation management zones. Zones start at pavement edge and continue to property boundary fence-line. These zones are compatible with Oregon Department of Transportation maintenance definitions. Zones are listed as:

1. Pavement Drainage Zone - mandatory 12” strip from the edge of pavement with no vegetation. Exception: owner will maintain.
2. Vegetation Free Zone – section up to eight feet from pavement edge of road to ditch line/shoulder edge on drivable shoulder where no vegetation should grow.
3. Operational Zone – section up to eight feet from pavement edge of road to ditch line/shoulder edge on drivable shoulder where low growing vegetation should be maintained.
4. Ditch Zone – maintenance of ditches free of obstructions to allow water to flow freely.
5. Special Requirement Zone – control noxious weeds, remove dangerous trees, fence-line requirements, other.
Appendix D.
Oregon State Weed Control Laws

569.175 Definitions for ORS 569.175 to 569.195. As used in ORS 569.175 to 569.195:

(1) “Noxious weed” means a terrestrial, aquatic or marine plant designated by the State Weed Board under ORS 569.615 as among those representing the greatest public menace and as a top priority for action by weed control programs.

(2) “Person” means a person as defined in ORS 174.100, the federal government or any of its agencies, the State of Oregon or any of its agencies, or any city, county, district or municipal corporation of this state. [Formerly 452.610]

569.180 Noxious weeds as public nuisance; policy. In recognition of the imminent and continuous threat to natural resources, watershed health, livestock, wildlife, land and agricultural products of this state, and in recognition of the widespread infestations and potential infestations of noxious weeds throughout this state, noxious weeds are declared to be a public nuisance and shall be detected, controlled and, where feasible, eradicated on all lands in this state. It is declared to be the policy of this state that priority shall be given first to the prevention of new infestations of noxious weeds and then to the control and, where feasible, eradication of noxious weeds in infested areas. [Formerly 452.615]

569.185 State Department of Agriculture authority; rules; integrated weed management approach. The State Department of Agriculture shall administer and enforce ORS 569.175 to 569.195. The department may:

(1) Adopt rules to carry out ORS 569.175 to 569.195. In adopting the rules the department shall consider:

   (a) The effect on the immediate environment of the use of chemical, biological or other means for control or eradication; and

   (b) The overall benefit to be derived compared to the costs to be incurred.

(2) Implement an integrated weed management approach that focuses on the prevention of noxious weeds through:

   (a) A combination of techniques that may include, but need not be limited to, the use of:

      (A) Surveillance and monitoring;

      (B) Early detection;

      (C) Eradication or other rapid response techniques;

      (D) Mechanical control;
(E) The selective use of pesticides;

(F) Cultural practices;

(G) Modified land management; and

(H) Biological controls; and

(b) Control practices selected and applied to achieve desired weed management objectives in a manner that minimizes risks to human health, non-target organisms, native fish and wildlife habitat, watersheds and the environment.

(3) Cooperate with Oregon State University or any other person in the administration and enforcement of ORS 569.175 to 569.195.

(4) Collect, publish, disseminate and furnish information, statistics and advice concerning the research, experimentation, control and eradication of noxious weeds and the land management and cultural practices recommended for such control and eradication.

(5) Notwithstanding any provisions of ORS 279.835 to 279.855 and 561.240 and ORS chapters 279A, 279B and 279C to the contrary, enter into contracts with Oregon State University or any other person for the purpose of research, experimentation, control or eradication of noxious weeds, to receive and expend funds pursuant to such contracts and to employ or authorize personnel to act on behalf of the department.

(6) Rear, propagate and release biological control agents approved by the United States Department of Agriculture, including insects or disease organisms, and to construct, purchase, maintain and operate facilities and equipment for such purpose.

(7) Control, or direct control of, predators and diseases of biological control agents, and to limit or prohibit the movement or use of pesticides or other agriculture chemicals that reasonably could damage or injure such biological control agents.

(8) Purchase, use and apply chemical control agents, including pesticides, and purchase, maintain and operate any application equipment for such purpose.

(9) Regulate, restrict or prohibit the movement or sale of hay, straw, seed, other agricultural crops or residues thereof, that are found to contain noxious weeds or seeds or propagules of noxious weeds.

(10) Limit or prohibit the collection or taking of any biological control agents from public or private lands within this state.

(11) Develop appropriate measures for the control or eradication of noxious weeds on any lands in this state.
(12) Have access to all lands within this state to carry out ORS 569.175 to 569.195, including survey, control and eradication activities and the establishment of quarantines.

(13) Request any person owning or controlling land within this state to control, prevent the spread of, when feasible, eradicate noxious weeds, and to supervise such activities.

(14) If abatement procedures are required of a landowner, recommend that the landowner and the department jointly develop a management strategy or plan that describes a course of action to address the abatement requirement.

(15) To the extent funds are available for such purpose, employ or use personnel of other agencies of this state, including but not limited to persons acting under work-release, rehabilitation or youth programs or persons employed and paid from funds received under federal or state programs intended primarily to alleviate unemployment or to advance research.

(16) Establish advisory committees to assist the department and the State Weed Board in carrying out ORS 569.175 to 569.195. [Formerly 452.620; 2011 c.9 §76]

569.190 Authority of Oregon State University. Oregon State University, acting by itself or in cooperation with the State Department of Agriculture, may:

(1) Collect, publish, disseminate and furnish information, statistics and advice concerning the research, experimentation, control and eradication of noxious weeds and the land management and cultural practices recommended for such control and eradication.

(2) Rear, propagate and release biological control agents approved by the United States Department of Agriculture, including insects or disease organisms, and construct, purchase, maintain and operate facilities and equipment for such purpose. [Formerly 452.625]

569.195 Cooperation with department; court suit. (1) No person shall fail to cooperate with the State Department of Agriculture in the administration or enforcement of ORS 569.175 to 569.195, or rules promulgated pursuant thereto, nor otherwise violate any provision of ORS 569.175 to 569.195.

(2) In addition to any other remedy provided by law, the department may bring suit in circuit court to enjoin or restrain any person from violating any provision of ORS 569.175 to 569.195 or any rule promulgated thereunder. [Formerly 452.630]

CONTROL EFFORTS

(Generally)

569.350 Necessity of eradication of weeds; cooperation in control and eradication. Noxious weeds have become so thoroughly established and are spreading so rapidly on state, county and federally owned lands, as well as on property in individual ownership and in transition to county ownership through tax delinquency, that they hereby are declared a menace
to the public welfare. While it is recognized that complete eradication may not be practicable, it
hereby is established that steps leading to eradication and control are necessary and that
responsibility rests not only on the individual landowner and operator but also on the county,
state and federal government, and that the county, state and federal government should cooperate
with individual owners in the control and eradication of noxious weed pests. [Formerly 570.505]

569.355 State and counties to control noxious weeds. The state and the respective counties
shall control any weeds designated as noxious by the state or the respective counties in any such
county on land under their respective ownerships. [Formerly 570.510]

569.360 County governing body may create weed control district; petition for special
weed control district. (1) The county governing body of each county may declare the county, or
any portion of the lands in a county, a weed control district for the purpose of destroying such
weeds and of preventing the seeding and spread of such other weeds and plants as the governing
body may for the purposes of ORS 569.360 to 569.495 declare noxious.

(2) If the county is not made a weed control district or if the county weed control district does
not include all such weeds or plants desired as included as noxious, interested parties may
present a petition for a special weed control district. The petition shall describe the area to be
included in the special weed control district and name the noxious weeds to be destroyed or
prevented from blooming and producing seed within the district, and must be signed by more
than half of the landowners in the area described in the petition who also own more than half of
the acreage in the area. Upon presentation of such a petition, the county governing body shall
declare such area a special weed control district and such weeds noxious within the district, in
accordance with the petition. [Formerly 570.515]

569.370 Weed inspectors; appointment; duties; compensation. (1) The court shall, upon
declaring a weed control district, appoint a weed inspector or inspectors, whose duties it shall be:

(a) To find out if any noxious weeds or plants are being permitted to grow and produce
bloom or seed within the district or districts contrary to the provisions of ORS 569.360 to
569.495;

(b) To serve notices;

(c) When necessary to destroy or cut or to supervise the destruction or cutting of the noxious
weeds growing or seeding within the weed control district; and

(d) To conduct investigations, approve plans and certify expenditures pertaining to weed
control projects pursuant to ORS 569.480.

(2) The person or persons appointed by the county court shall receive for their services
reasonable wages, as determined by the county court, for the time actually employed in the
performance of duty under ORS 569.360 to 569.495. [Formerly 570.520]
569.375 Notice of district creation and weeds to be controlled. The county court shall, upon declaring a weed control district or districts, cause to be published an official notice describing each district and naming weeds to be destroyed and to be prevented from producing seed within the districts. The notice shall be published in a newspaper or newspapers, not exceeding three in number, serving the districts, in two consecutive issues if weekly, or two times at intervals of one week if daily or semiweekly. Immediately after the last publication of the official notice, the provisions of ORS 569.360 to 569.495 shall be enforced. [Formerly 570.525]

569.380 Weed inspector right of entry; service of notice to eradicate weeds; department or district control measures. (1) The weed inspector shall have access to the land within the district.

(2) When the provisions of ORS 569.360 to 569.495 are not being complied with, the weed inspector shall serve a written notice to the owner or occupant of the land. When the weed inspector is unable to serve the notice personally, the weed inspector shall post the notice and two copies thereof in three conspicuous places on the land. The notice shall contain:

(a) The date of service or posting of notice.

(b) The name of the weed or weeds growing on the land, and a statement setting forth that the weeds must be destroyed or must be prevented from producing seed within a specified time of not less than two days or more than 20 days, to be established by the inspector, from the date of service of the notice.

(3) The service of notice as provided in subsection (2) of this section imposes a requirement on the owner or occupant of the land to destroy or prevent the weeds from seeding or spreading during the continuation of ownership or occupancy of the land or until the district is dissolved. A copy of the notice, together with proof of service indorsed thereon, shall be filed with the county court.

(4) Notwithstanding subsections (2) and (3) of this section, ORS 569.370 or 569.390, with permission of the owner or occupant of land, employees of the State Department of Agriculture, or of designated weed control districts, may enter the land to identify noxious weeds and to implement or provide for the implementation of integrated noxious weed control measures, including but not limited to the application of pesticides to the land. The control or eradication of noxious weeds may be conducted with or without charge to the owner or occupant of the land. A notice as described in subsection (2) of this section is not required for the conduct of activities described in this subsection. [Formerly 570.530]

569.390 Owner or occupant to eradicate weeds. Each person, firm or corporation owning or occupying land within the district shall destroy or prevent the seeding on such land of any noxious weed within the meaning of ORS 569.360 to 569.495 in accordance with the declaration of the county court and by the use of the best means at hand and within a time declared reasonable and set by the court, except that no weed declared noxious shall be permitted to produce seed. [Formerly 570.535; 2011 c.597 §233]
569.395 Eradication of weeds on public lands and rights of way. The State Highway Commission, the respective county courts, reclamation districts and municipalities shall destroy or prevent the spread or seeding of any noxious weed within the meaning of ORS 569.360 to 569.495 on any land owned by them or constituting the right of way for any highway, county road, drainage or irrigation ditch, power or transmission line, or other purposes under their respective jurisdictions. [Formerly 570.540]

569.400 Eradication of weeds when owner or occupant refuses to do so; request for quarantine; statement of expenses to be filed. (1) If the owner or occupant of the land fails or refuses to immediately destroy or cut the noxious weeds in accordance with ORS 569.360 to 569.495, the weed inspector shall at once notify the district attorney of the county who shall at once take necessary steps for enforcement of ORS 569.360 to 569.495. The county court shall authorize the weed inspector or such assistants as the weed inspector may employ to go upon the land or premises and destroy the noxious weeds or control them in such manner as will destroy all seeds of such noxious weeds; provided, however, that if destruction or control of the weeds on any farm is in the judgment of the county weed inspector impracticable because the weeds may be too far advanced, or if for any other reason the means of control available are unsatisfactory, the weed inspector shall so notify the county court, which shall request the State Department of Agriculture to immediately quarantine any such uncontrolled noxious weed infested farm within the county to prevent the movement of infested crops or of livestock from such farm except under conditions prescribed in the quarantine that will prevent spread of the weeds by such crops or livestock. In all cases where the inspector undertakes to destroy or control noxious weeds, the most effective and practical method, in the judgment of the inspector, and with least injury to the land or crops, shall be used.

(2) Upon the completion of such work the person so appointed and authorized by the county court shall file with the county clerk an itemized statement of the expenses necessarily incurred in the destruction of such weeds, including the wages of the person as provided in ORS 569.370, verified by the oath of the person. [Formerly 570.545]

569.410 Statement to be entered on lien docket; recovery of unpaid amount. When the statement of expenses is filed, the county clerk shall cause it to be entered upon a lien docket prepared for that purpose. The amount of the charges and expenses when so docketed shall constitute a first lien upon such lands or premises, except as to taxes. If the charges and expenses are not paid and the lien discharged by the owner or occupant of such lands within 90 days from the date the lien is docketed, the county may recover the expenses in an action at law. [Formerly 570.550]

569.415 Payment for work. If within 10 days from the date of filing and docketing the lien as provided in ORS 569.400 and 569.410, no objections have been filed thereto, the county court shall pay to the person or persons appointed by the court, as provided in ORS 569.370 (1), out of the general funds of the county, the amount of such lien. [Formerly 570.555]

569.420 County tax for weed control fund; expenditure. (1) The county courts of the
several counties of this state hereby are required to levy a tax and create a fund to be known as the weed control fund for the control of weeds on county highways and public lands and for cooperation with individuals, state and federal agencies in controlling noxious weeds within weed control districts. The amount estimated by the county court as being sufficient for such purposes may be placed in the county budget and after consideration at the meeting held for the purpose of passing upon the tax levy by the electors of the county, may become one of the items for which expenditure may be made during the ensuing year.

(2) When such a fund is created, it shall be expended under the supervision of the county court in such manner as to effectuate the purposes of ORS 569.360 to 569.495. [Formerly 570.560]

569.425 Special assessment. Notwithstanding ORS 569.420, in addition to or in lieu of the tax authorized by ORS 569.420, a county governing body may levy a special assessment based upon benefit to finance weed control activities. All such assessments shall be treated in the same manner as the tax referred to in ORS 569.420. [Formerly 570.562]

569.435 Dissolution of weed control district; disposition of funds. If in the judgment of the court the enforcement of ORS 569.360 to 569.495 in any county which has been declared a weed control district seems impracticable or likely to work injury to the people of the district, it may after a hearing declare that such weed control district no longer exists. Any special weed control district shall be declared terminated by the county court when a majority of landowners in the district, by petition or by public hearing state that they desire such district terminated for any weeds declared noxious in the district. Any moneys remaining in any fund for weed control shall, after the termination of the district, be credited to the general fund of the county. [Formerly 570.565]

569.445 Duty to clean machinery before moving; weed infested residue not to be moved. No person operating or having control of any threshing machinery, clover huller, hay baler, seed cleaning or treating machinery or other machinery shall move said machinery over any public road or from one farm to another without first thoroughly cleaning it. Before moving it, all hay or bundle racks and all other equipment shall be thoroughly swept and cleaned. All hay, straw or other crop residue infested with noxious weeds under the meaning of ORS 569.360 to 569.495 having partially or fully formed seeds shall not be moved from the land on which grown to other lands not infested with any of the weeds in the field from which such crop material came. [Formerly 570.570]

569.450 Copy of statute to be posted on machinery; copies furnished by county clerk. (1) No person shall operate any threshing machine, clover huller or hay baler, seed cleaning or treating machinery or any other similar machinery within any duly created weed control district in this state without first having posted in a conspicuous place on such machinery a copy of ORS 569.445 and this section.

(2) The county clerks of the various counties of this state hereby are authorized and directed to have printed a sufficient number of copies of ORS 569.445 and this section and shall deliver such copies upon request to owners or operators of such machinery. [Formerly 570.575]
569.470 Cost-share assistance grants for weed control; application. Any person owning or occupying land within a weed control district or special weed control district who conducts a weed control project in accordance with the provisions of ORS 569.370 and 569.470 to 569.495 may apply to the county court or commission for a cost-share assistance grant. [Formerly 570.580]

569.475 Cost-share assistance grants for weed control; source of expenditures; limit on grants. (1) The county courts of the several counties of this state hereby are required to provide cost-share assistance grants to persons owning or occupying land within such counties who conduct a weed control project in accordance with the provisions of ORS 569.370 and 569.470 to 569.495. Expenditures by any county court or commission for cost-share assistance grants shall be made from the county’s weed control fund pursuant to ORS 569.420.

(2) In any fiscal year, the amount of cost-share assistance to any person eligible for such assistance under ORS 569.470 and 569.480 shall be an amount equal to, but not exceeding, 50 percent of the actual cost of the eligible person’s weed control project. [Formerly 570.585]

569.480 Eligibility for grants. No person shall be eligible for a cost-share assistance grant under ORS 569.370 and 569.470 to 569.495 unless:

(1) A weed control inspector has:

(a) Conducted a field inspection of the weed control site;

(b) Approved the eligible person’s plan for implementing a weed control project; and

(c) Certified that specific expenditures are appropriate for implementation of the project.

(2) The eligible person has made certified expenditures for the purpose of implementing an approved weed control project. Adequate proof of such expenditures shall consist of:

(a) Receipts, invoices or other evidence indicating the amount and cost of the project; and

(b) Such other weed control information as the county court or commission may require. [Formerly 570.590]

569.490 Department funds for grants; reports by county. (1) Subject to ORS 291.232 to 291.260, the State Department of Agriculture may distribute in the manner prescribed in subsection (3) of this section to each county court an amount equal to 50 percent of the amount of cost-share assistance grants actually provided by the county court to eligible persons pursuant to ORS 569.470 to 569.480.
Any funds available and received by any county court under this section shall be placed in the county’s weed control fund and shall be expended by the county court to carry out the purposes of ORS 569.370 and 569.470 to 569.495.

Each county court receiving funds under this section shall report to the department, at such times as the department shall require:

(a) The total number of eligible owners who have received cost-share assistance grants under ORS 569.470; and

(b) Any other weed control information the department shall require to carry out the purposes of ORS 569.370 and 569.470 to 569.495. The department shall make any necessary adjustments in the amounts due each county court at such times as the department determines appropriate in order to avoid overpayment. [Formerly 570.595]

569.495 Financial assistance by department for weed control; limit on county responsibility. (1) The State Department of Agriculture may provide financial assistance to counties to promote the implementation of noxious weed control projects.

Notwithstanding any other provision of ORS 569.370 and 569.470 to 569.495, a county court is not required to perform any duty, function or power provided in ORS 569.370 and 569.470 to 569.495 unless the department provides financial assistance to the county pursuant to subsection (1) of this section. [Formerly 570.600]

569.515 Legislative findings. The Legislative Assembly finds and declares that:

1. Noxious weeds present a serious threat that adversely affects industries vital to the Oregon economy, including but not limited to the agriculture, forestry, fishing and tourism industries;

2. Failure to control the spread of noxious weeds in Oregon will reduce the productivity of Oregon industries and adversely affect marketing by those industries, resulting in a loss of business and the loss of existing jobs;

3. The use of aggressive measures to control the spread of noxious weeds will improve the actual and perceived quality of Oregon products and further the promotion and expansion of markets for those products; and

4. The control of noxious weeds through county weed control district programs will benefit Oregon’s economy by preventing the loss of existing jobs, by promoting and expanding Oregon business and by preventing the decline of Oregon business. [2011 c.392 §1]

569.520 Grants for carrying out county weed control district duties; rules. (1) The State Department of Agriculture shall establish a grant program for the purpose of assisting counties in
carrying out weed control district duties, functions and powers under ORS 569.360 to 569.495. After deducting department administrative expenses for the program, the department shall apply the balance of moneys received for the grant program to fund grants as described in this section.

(2) A county qualifies for a grant under this section if the county has:

(a) Established a weed control district under ORS 569.360 to 569.495;

(b) Provided county moneys to carry out the duties, functions and powers of the district in an amount that equals or exceeds the grant amount available to the county under this section; and

(c) Complied with any department rules adopted under this section.

(3) The department may establish rules for carrying out the grant program described in this section. The rules may include, but need not be limited to, rules:

(a) Requiring that priority in the use of grant moneys be given to noxious weed control projects that restore, enhance or protect water quality, watersheds and riparian habitats;

(b) Requiring a participating county to report to the department concerning the use of grant moneys by the county; and

(c) Adopting a methodology for the recovery of the direct and indirect costs necessarily incurred as administrative expenses for the grant program. [2011 c.392 §2]

STATE WEED BOARD

569.600 State Weed Board; membership; terms. (1) The State Weed Board is created in the State Department of Agriculture. The board shall consist of seven members appointed by the Director of Agriculture as follows:

(a) At least two members shall be residents of that portion of the state east of the summit of the Cascade Mountains.

(b) At least two members shall be residents of that portion of the state west of the summit of the Cascade Mountains.

(c) Two members shall be selected from among those individuals recommended by the Association of Oregon Counties.

(d) The director or a designee of the director shall serve as a member.

(2) The term of each member is four years, but a member serves at the pleasure of the director. Before the expiration of the term of a member, the director shall appoint a successor. A member is eligible for reappointment. If there is a vacancy for any cause, the director shall make an appointment to become immediately effective for the unexpired term.
(3) As used in subsection (1) of this section, “summit of the Cascade Mountains” means a line beginning at the intersection of the northern boundary of the State of Oregon and the western boundary of Hood River County; thence southerly along the western boundaries of Hood River, Jefferson, Deschutes and Klamath Counties to the southern boundary of the State of Oregon. [Formerly 561.650]

569.605 Compensation of members. A member of the State Weed Board is entitled to compensation and expenses as provided in ORS 292.495. [Formerly 561.660]

569.610 Officers; quorum; meetings. (1) The State Weed Board shall select one of its members as chairperson and another as vice chairperson, for such terms and with duties and powers necessary for the performance of the functions of those offices as the board determines appropriate.

(2) A majority of the members of the board constitutes a quorum for the transaction of business.

(3) The board shall meet at such times and places as are specified by the call of the Director of Agriculture or the chairperson. [Formerly 561.670]

569.615 Duties of board. The State Weed Board shall:

(1) Act in conjunction with the State Department of Agriculture to identify those weeds growing in this state that represent the greatest public menace and establish those weeds as the top priority for action by weed control programs in this state.

(2) Assist the Director of Agriculture in allocating moneys made available to the State Department of Agriculture for the payment of weed control expenses to weed control programs conducted in the various counties on the basis of the plan implemented under ORS 569.620.

(3) Help the department to coordinate the weed control program efforts of the various counties and advise the director in performing weed control duties, functions and powers assigned to the State Department of Agriculture. [Formerly 561.680]

569.620 Implementation of weed control effort improvement plan. (1) The State Department of Agriculture, in conjunction with the State Weed Board, shall implement a board plan to improve the effectiveness of noxious weed control efforts by weed control districts, state agencies and others within this state. The department shall act as the primary state agency for assisting weed control districts, state agencies and others in coordinating their noxious weed control efforts.

(2) The department and the board shall initiate and actively pursue efforts to secure an optimum level of federal and private funding for noxious weed control efforts in this state. The department and the board shall give priority under this subsection to securing funding for noxious weed control projects that are consistent with the plan implemented under subsection (1) of this section. [Formerly 561.683]
569.990 Penalties. (1) Violation of a provision of ORS 569.175 to 569.195 or a rule adopted under ORS 569.175 to 569.195 is a Class B violation.

(2) Violation of a provision of ORS 569.360 to 569.495 is a Class A violation. [2009 c.98 §9(1),(3); 2011 c.9 §77]
Appendix E. 
Potential Funding Sources

BMEI & RMEF: Blue Mt. Elk Initiative, Rocky Mt. Elk Foundation –
http://www.fs.fed.us/pnw/bmnn/initiatives.htm#BMEI

BPA: Bonneville Power Adm.

DU: Ducks Unlimited – http://www.ducks.org/


MDF: Mule Deer Foundation – http://www.muledeerfoundation.org/


OW: Oregon Wetlands – http://wetlands.dfw.state.or.us/

OWEB: Oregon Watershed Enhancement Board – http://www.oweb.state.or.us/


R6CCS: USFS Region 6 Challenge Cost Share –


TF: Turner Foundation – http://www.turnerfoundation.org/

Title II: RAC/NRAC

Title III: Wallowa County Board of Commissioners

**Please see annual operating plan for this years funding proposals

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Appendix F.
Competitive Characteristics of Weeds

1. Germination requirements fulfilled in many environments
2. Discontinuous germination (internally controlled) and longevity of seed
3. Rapid growth through vegetative stage to flowering
4. Continuous seed production for as long as growing conditions permit
5. Self-compatibility but not complete autogamy (self-fertilization) or agamospermy (asexual reproduction)
6. Cross-pollination by unspecialized visitors or wind
7. Very high seed output in favorable environmental conditions
8. Production of some seed in wide range of environmental conditions
9. Adaptations for short and long distance dispersal
10. If perennial, vigorous vegetative reproduction or regeneration from plant fragments
11. If perennial, brittleness so as not to be pulled easily from the ground and ability to compete interspecifically by special means, i.e. rosettes, choking growth, and allelochemicals.
Appendix G.
An Eradication Plan for Plant Invasion

Why is a plan needed?
To counteract increasing number of invasions by new plant species and cost of resulting control program.

Plan should include:
1. early detection of new species
2. assessment of invader’s noxious potential
3. surveys
4. understanding of invader’s biology
5. eradication technology
6. integration of steps 1-5 into an eradication strategy to eliminate the species and vegetate the invasion site

Early detection can minimize spread if contained quickly and is most effective at the local level.
1. train personnel to ID pest, and increase roadside surveys
2. disturbed habitats are most susceptible to invasion
3. most aliens found along roadsides, and frequency decreases as distance from roadside increases
4. closed tree canopies and higher elevation = fewer invaders

Noxious potential: once detected, a pest’s noxious potential must be evaluated for:
1. interactions with other species, including activities by humans and animals
2. climatic characteristics in native country
3. history in other countries
4. similarities to other weeds

Climatic characteristics
- analogous agro-climatic areas (similar seasonal temp., ppt. patterns, growing season)
- however, don’t exclude atypical climates because the new pest may lack natural enemies and competitors, and invader may be polyploid

History of spread and distribution
- helps assess threat
- wide vs. limited distribution
- spread vs. genetic variation within invading species

Similarities to weeds
- taxon (Poaceae, Asteracae)
- seed morphology for dispersal
- germination range

Surveys: detection, delimiting, appraisal – eradication success depends on survey accuracy and considering viability of seeds in soil seed bank

Methods: detection and delimiting – questionnaire (descriptive bulletin) – not reliable, but used to supplement other methods
- plant ID can be difficult
- survey efficiency unknown
• owners / users difficult to locate
• response time limited
• takes a lot of time
• soil surveys are difficult obtain a representative sample
• site examination for invader (walking, aircraft, ATV, horses, etc.)

*Tactics – where to survey*
• work progressively outward from known foci
• commercial channels (roads, trails, rivers, gravel-pits, log landings, etc.)
• ID invading plant’s habits and plant association
• focus on high probability areas, establish major boundaries through surveys (appraisal)
• requires pessimism, training, good data collection (GPS/GIS), plant location, plant population, site characteristics

*Invader’s Biology: need to know about –*
• life cycle most vulnerable to control (vital rate or growth stage)
• seedbank longevity (reproductive or vegetative structure longevity
• strategies to stop spread

*Life-cycle probability of surviving to each successive stage*
• look for mortality periods, apply eradication treatments at this time
• for annuals, seedling stage is usually best

*Seedbank – eradication not complete until All propagules are eliminated from soil*
• Cohen’s model to predict seed number for annuals “after 1 yr under natural conditions”
  (1) fraction of seeds that germinate
  (2) fraction of seeds that decay
  (3) seed production / surviving seedlings that reproduce
  (4) eradication efficiency
• the model does not consider seedbank over time, need to add information each year
• model can predict years required to deplete propagules

*Strategies to stop spread* – determines area requiring survey, quarantine, or treatment. Must consider:
• population growth rate = rate of change in number of individuals (single species growth rate can be exponential)
• spread rate = rate of change in distribution of individuals (advancing front)
  i) greater mobility = faster population growth rate
  ii) multiple foci = faster spread and population growth rates compared to centralized population
  iii) increase in number of foci, increase area occupied per unit time
  iv) remnant population escaping treatment can increase faster than single initial focus
  v) high mobility, many scattered foci = big trouble; need to act fast
• dispersal vectors
  i) copious seed producers attract many animals
  ii) human activity responsible for quickest and most distant spread
  iii) livestock = slow, local spread
  iv) heavy seed = solid dispersal front vs. lighter, wind dispersed seed = diverse front of scattered individuals
• probability of establishment
  i) ecological amplitude
  ii) birthrate must exceed death rate for successful establishment

**Eradication Technology:** goal for eradication is different from goal for weed control – need much higher efficacy
• must be developed for different locations and strategies of plant’s life cycle
  1. location – maximum efficacy and safety
     i) cultural methods near residence or water
     ii) chemical treatments include herbicides, fumigants, germination stimulants
     iii) other methods = hand pulling, thermal
  2. life cycle stage – apply at most susceptible stage
     i) depends on non-target vegetation
     ii) avoid selecting phenotypes that escape treatment

**Eradication Strategy:** stop spread, prevent reproduction, deplete propagules from soil
• treatment location – must be strategically located and cover enough area to stop spread
• establish priorities based on probability of population spreading
  1st – eradicate satellite infestations
  2nd – borders of large infestations
  3rd – control population growth in large areas, i.e. need to determine MINIMAL treatment area – uninfested buffer zone on periphery large enough to encompass area plant can invade in a given period of time

**Preventive Weed Management**
• most basic of all weed control methods = prevention
  i) slow introduction and spread of weeds
  ii) produce weed-free seed
  iii) clean weed infested seed
  iv) quarantine and regulation of contaminated crop seed

• planting contaminated crop seed IS STILL a major way of spreading noxious weeds
• largely preventable - mostly common sense
• economic thresholds vs. prevention (control of newly introduced species)
• prevention programs usually require enactment and enforcement of laws and regulations

**Farm management practices**
• lean crop seed (cereal and soybean)
• smoother crops – highly competitive, make sure they don’t develop into weed problem
• crop rotation – effect life cycles

**Clean farm equipment**
• harvesting, mowing, hay baling, tilling, and earth moving
• combine harvester = nearly perfect devise to spread weed seed
• jointed goat grass (KS → NE)
• on average 59% of weed seed removed with combine, 39% shed to soil 2% removed with baled straw

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2 The Weed Board also recommends cleaning of logging and rock-pit equipment as well.
Animal feed and manure

- sheep manure – 650,000 seeds/A
- weed screenings
  i) grinding vs. not grinding
  ii) coarse vs. fine grinding
  iii) heat treatment
- ensiling seeds
  i) increase or decrease seed germination
  ii) depends on species and time of fermentation
  iii) ensiling + rumen digestion
- livestock confinement time (10 to 12 days)

Weed free irrigation and drainage water

137 different species in irrigation laterals and 77 in Columbia River (690 to 6,070 seeds/A)

Weeds with wind-borne seeds

i) keep fence rows and waste areas clean
ii) vegetation barriers
iii) fences – Russian thistle

Handling weed-infested crops

i) need plan based on prevention not control
ii) weed control should be used to provide final measure of crop protection, not the only measure – which is often the case today
iii) prevent as much seed or vegetative propagule production as possible

The laws

- Federal Seed Act
- state seed laws
- state weed laws
- Federal Noxious Weed Act
- county or local weed laws
Appendix H.
Wallowa County Weed Free Forage Inspection Program

Introduction
There is a growing demand in North America for the use of certified noxious weed free forage and straw as a preventive program to limit the spread of noxious weeds. This voluntary inspection program is designed to assure that forage and straw sold with proper inspection identification meets minimum standards designed to limit the spread of noxious weeds. Buyers are provided assurance that forage and straw, inspected through this program, meet these minimum standards.

These inspection standards comply with and in some cases exceed the North America Weed Free Forage Certification Standards developed by the Regional Weed Free Committee of the North American Weed Management Association. The North America Weed Free Forage Committee has established minimum standards to allow uniform participation by states and provinces in the program. Forage and straw inspection under the program with proper markings attached will be eligible to be shipped into restricted areas where only forage and straw inspected under the North America Weed Free Forage Certification Standards can be used.

The various inspections that are an integral part of this program minimize the opportunity for misleading or fraudulent actions on the part of the applicants participating in the program. However, the production and distribution of inspected material depends on the integrity of those participating in the program.

It is the responsibility of every member of the Wallowa County Weed Free Forage Inspection Program to abide by the rules, adhere to the standards, and report irregularities or violations.

Field Inspection Application
Applicants desiring to have their forage and/or straw inspected must apply to the Wallowa County Inspection Program on an application form supplied by the County. Forms are available upon request from:
Wallowa County Extension Services
668 NW First
Enterprise, Oregon 97828
541-426-3143

Applications must be received ten (10) working days prior to cutting. Late applications may result in the field inspection not being made.

A field is defined as the area occupied by one crop, covered by one inspection report and not divided by streams, public roads, other crops, or other barriers that materially increase the difficulty of inspection. If the inspected forage or straw field is also being inspected for certified seed production, indicate the corresponding seed production field number(s) on the application form.

Field Inspections
To be eligible for forage or straw inspection, fields must be inspected by the County Weed Free Forage Inspector before harvest. A crop that is harvested prior to inspection is not eligible for certification. It is the applicant’s responsibility to ensure that the crop has been inspected before harvest.

Field inspection is a thorough examination of the forage or straw production site to confirm compliance with the inspection standards. The inspector will make a visual inspection of the field and entire field border. County inspection procedures will follow the guidelines established by the North America Weed
Free Forage Standards. Any condition(s) which are apt to make inspection inaccurate or bring the certification process into disfavor shall be cause for rejection.

Field Standards
Forage and straw shall be free of those noxious weeds and undesirable plant species identified in Appendix H-1.
1. In Wallowa County, forage and straw fields shall be inspected by the County Weed Free Forage Inspector.
2. Forage and straw shall be inspected in the field of origin. The field shall include the surrounding ditches, fence rows, roads, easements, grass waterways, or a buffer zone surrounding the field.
3. The field must be inspected by County Inspector prior to cutting or harvesting.
4. Forage which contains any noxious weeds, or undesirable plant species, as identified in Appendix H-1, may be certified if the following requirements are met:
   a) Field upon which the forage was produced was treated to prevent seed formation or seed ripening to the degree that there is no danger of dissemination of the seed, or any injurious portion thereof from such noxious weeds, or undesirable plant species, or the propagating parts of the plant are not capable of producing a new plant.
   b) Noxious weed(s) or undesirable plant species was treated not later than rosette to bud stage, or boot stage for perennial grass species classified as weeds, prior to cutting or harvesting.
   c) Treatment method can include but is not limited to:
      - burning
      - mowing, cutting or rouging
      - mechanical methods
      - chemicals.
5. An Inspection Certificate shall be issued by Wallowa County indicating that the above requirements have been met based upon field inspection.

Maintaining Identity of Harvested Forage
The applicant must keep accurate records of the amount of forage or straw harvested from each field including where the forage or straw is stored after harvest. The following records must be maintained:
1. The number and average weight of bales harvested;
2. The exact location where bales are stored;
3. Date of harvest;
4. Field number and location of the field where the product was produced;
5. Copies of all certification documents; and
6. Current inventory records.

Certification Markings
Inspection tags and/or Transit Certificates will be issued for eligible forage or straw, by Wallowa County Extension Office, upon request by applicant. Applicants may request inspection tags and/or Transit Certificates by declaring the amount of forage or straw harvested on the Inspection Certificate.
### Regional Designated Noxious Weed and Undesirable Plant List

The following weeds have been designated as noxious or undesirable in the Regional Weed Free forage Certification Standards:

<table>
<thead>
<tr>
<th>No.</th>
<th>Weed Name and Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Absinth Wormwood (Artemisia absinthium)</td>
</tr>
<tr>
<td>2.</td>
<td>Bermuda Grass (Cynodon dactylon)</td>
</tr>
<tr>
<td>3.</td>
<td>Buffalo bur (Solanum rostratum)</td>
</tr>
<tr>
<td>4.</td>
<td>Canada thistle (Cirsium arvense)</td>
</tr>
<tr>
<td>5.</td>
<td>Common burdock (Arctium minus)</td>
</tr>
<tr>
<td>6.</td>
<td>Common crupina (Crupina vulgaris)</td>
</tr>
<tr>
<td>7.</td>
<td>Common Tansy (Tanacetum vulgare)</td>
</tr>
<tr>
<td>8.</td>
<td>Dalmation toadflax (Linaria dalmatica)</td>
</tr>
<tr>
<td>9.</td>
<td>Diffuse knapweed (Centaurea diffusa)</td>
</tr>
<tr>
<td>10.</td>
<td>Dyers woad (Isatis tinctoria)</td>
</tr>
<tr>
<td>11.</td>
<td>Field bindweed (Cynobyvalus arvensis)</td>
</tr>
<tr>
<td>12.</td>
<td>Hemp (Marijuana) (Cannabis sativa)</td>
</tr>
<tr>
<td>13.</td>
<td>Henbane, Black (Hyoscyamus niger)</td>
</tr>
<tr>
<td>14.</td>
<td>Hoary cress (Cardaria draba desu L.)</td>
</tr>
<tr>
<td>15.</td>
<td>Horse nettle (Solarin carolinense)</td>
</tr>
<tr>
<td>16.</td>
<td>Houndstonge (Cymaglossum officinale L.)</td>
</tr>
<tr>
<td>17.</td>
<td>Johnsongrass (Sorghum halepense)</td>
</tr>
<tr>
<td>18.</td>
<td>Jointed Goatgrass (Aegilops cilindrica)</td>
</tr>
<tr>
<td>19.</td>
<td>Leafy spurge (Euphorbia esula)</td>
</tr>
<tr>
<td>20.</td>
<td>Purple Loosestrife (Lythrum salicaria L.)</td>
</tr>
<tr>
<td>21.</td>
<td>Matgrass (Nardus stricta)</td>
</tr>
<tr>
<td>22.</td>
<td>Meadow knapweed (Centaurea seula)</td>
</tr>
<tr>
<td>23.</td>
<td>Medusa head (Taenotherum capit-medusa)</td>
</tr>
<tr>
<td>24.</td>
<td>Milium (Milium vernale)</td>
</tr>
<tr>
<td>25.</td>
<td>Musk thistle (Carduus nutans)</td>
</tr>
<tr>
<td>26.</td>
<td>Orange hawkweed (Hieracium aurantiacum)</td>
</tr>
<tr>
<td>27.</td>
<td>Oxeye daisy (Chrysanthemum Leucanthemum)</td>
</tr>
<tr>
<td>28.</td>
<td>Perennial pepperweed (Lepidium latifolium)</td>
</tr>
<tr>
<td>29.</td>
<td>Perennial sorghum (Sorghum almanum)</td>
</tr>
<tr>
<td>30.</td>
<td>Perennial sowthistle (Sonchus arvensis)</td>
</tr>
<tr>
<td>31.</td>
<td>Plumeless thistle (Carduus acanthoides)</td>
</tr>
<tr>
<td>32.</td>
<td>Poison hemlock (Conium maculatum)</td>
</tr>
<tr>
<td>33.</td>
<td>Puncturevine (Tribulus terrestris)</td>
</tr>
<tr>
<td>34.</td>
<td>Quackgrass (Agropyron repens)</td>
</tr>
<tr>
<td>35.</td>
<td>Rush skeletonweed (Chondrilla juncea)</td>
</tr>
<tr>
<td>36.</td>
<td>Russian knapweed (Centaurea repens)</td>
</tr>
<tr>
<td>37.</td>
<td>Scentsless chamomile (Matricaria maritima)</td>
</tr>
<tr>
<td>38.</td>
<td>Scotch broom (Cytisus scoparius)</td>
</tr>
<tr>
<td>39.</td>
<td>Scotch thistle (Onagordum acanthium)</td>
</tr>
<tr>
<td>40.</td>
<td>Silverleaf nightshade (Solanum elaeagnifolium)</td>
</tr>
<tr>
<td>41.</td>
<td>Skeletonleaf pursage (Ambrosia tomentosa)</td>
</tr>
<tr>
<td>42.</td>
<td>Spotted knapweed (Centaurea stoebe L.)</td>
</tr>
<tr>
<td>43.</td>
<td>Squarrose knapweed (Centaurea virgata)</td>
</tr>
<tr>
<td>44.</td>
<td>St. John wort (Hypericum perforatum)</td>
</tr>
<tr>
<td>45.</td>
<td>Sulfur cinquefoil (Potentilla recta)</td>
</tr>
<tr>
<td>46.</td>
<td>Syrian bean caper (Zygophyllum angustifolium L.)</td>
</tr>
<tr>
<td>47.</td>
<td>Tansy ragwort (Senecia jacobaea)</td>
</tr>
<tr>
<td>48.</td>
<td>Toothed supuge (Euphorbia dentata)</td>
</tr>
<tr>
<td>49.</td>
<td>Wild oats (Avena fatua)</td>
</tr>
<tr>
<td>50.</td>
<td>Wild PROSO millet (Panicum millicium)</td>
</tr>
<tr>
<td>51.</td>
<td>Yellow hawkweed (Hieracium pratense)</td>
</tr>
<tr>
<td>52.</td>
<td>Yellow starthistle (Centaurea solstitialis)</td>
</tr>
<tr>
<td>53.</td>
<td>Yellow toadflax (Linaria vulgaris)</td>
</tr>
</tbody>
</table>
Appendix H-2: Responsibilities

Applicant’s responsibilities:
1. Submit the application for field inspection ten (10) working days prior to cutting, for forage. Application must include:
   a. map indicating location of field,
   b. indication of whether the field is being applied for under the seed certification program,
   c. the field inspection fee, and
   d. approximate cutting date.
2. Prepare the field for inspection. Treat noxious weeds and undesirable plant species (see Appendix H-1) adjacent to the production field as described in the standards. If noxious weeds in adjacent areas are not treated, a 10-foot wide isolation/buffer strip must be established by mowing or cultivation.
3. All fields must be inspected prior to harvest by Wallowa County Inspector to qualify for certification. Notify Wallowa County Weed Free Forage Inspector if your fields are within a week of cutting and you do not have an inspection report indicating that the field has been inspected.
4. If the field meets certification standards, proceed to Step 6. If the field does not meet the standards, proceed to the Re-inspection Procedures below.
5. Maintain the identity of all forage or straw harvested from fields meeting the certification standards. The forage or straw must be stored separate from uncertified forage or straw. A written record of certified material stored at this site must be maintained.
6. Request transportation certificates by submitting the number and size of the packages/bales from each eligible field to the Extension Office.
7. Attach the certification tags provided by Wallowa County to eligible forage or supply purchaser with transit certificates.
8. Prior to harvest, members should clean all equipment before entering a field.

Re-inspection Procedures: (To be used when a portion of field does not meet the certification standards - i.e. noxious weeds in the field and/or lack of required isolation/buffer strips).
1. Make the required correction(s) as indicated on the inspection report by the Weed Inspector.
2. Contact the Weed Inspector for re-inspection to verify that the required corrections have been completed. A re-inspection fee will be charged.
3. Proceed to Step 6 above.

Wallowa County and Extension Office Responsibilities:
1. Oregon State University Extension will supply each grower with instructions and materials for making applications for field inspections;
2. Wallowa County will provide a weed inspection.
3. OSU Extension will issue labels for product that qualifies under the certification standards.
4. OSU Extension will maintain records including field applications, inspection reports and the serial numbers of tags issued.
Appendix H-3: Wallowa County Forage Inspection Program
Noxious Weed Free Forage and Straw Field Inspection Procedures

Introduction
The purpose of the Noxious Weed Free Forage and Straw (NWFF&S) certification program is to prevent the spread of noxious weeds. Wallowa County standards meet or exceed standards developed by the Regional Weed Free Forage Committee of the North American Weed Management Association. These standards were established to assure uniformity between states and provinces in the development and implementation of individual noxious weed free forage and straw programs. The Regional Weed Free Forage committee has established a list of noxious weed seeds and propagating materials that are not permitted in any material that is to be entered into the program. NOTE: See Appendix H-1. In addition to these weeds Wallowa County is including the following:

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Night flowering catch fly</td>
<td>Silene noctiflora</td>
</tr>
<tr>
<td>White campion</td>
<td>Silene alba</td>
</tr>
<tr>
<td>Redroot Pigweed</td>
<td>Amaranthus retroflexus</td>
</tr>
<tr>
<td>Jim Hill Mustard</td>
<td>Sisymbrium altissimum</td>
</tr>
<tr>
<td>Tansymustard, pinnate</td>
<td>Descurainia pinnata</td>
</tr>
<tr>
<td>Knapweed</td>
<td>Chaenorhabditis rhomboides</td>
</tr>
<tr>
<td>Shepherd’s-purse</td>
<td>Capsella bursa-pastoris</td>
</tr>
<tr>
<td>Field pennycress</td>
<td>Thlaspi arvense</td>
</tr>
<tr>
<td>Prickly lettuce</td>
<td>Lactuca serriola</td>
</tr>
<tr>
<td>Fiddleneck tarweed</td>
<td>Amsinckia intermedia</td>
</tr>
<tr>
<td>Common mallow</td>
<td>Malva neglecta</td>
</tr>
<tr>
<td>Common mullein</td>
<td>Verbascum thapsus</td>
</tr>
<tr>
<td>Common teasel</td>
<td>Dipsacus fullonemum</td>
</tr>
<tr>
<td>Black nightshade</td>
<td>Solanum nigrum</td>
</tr>
<tr>
<td>Hairy nightshade</td>
<td>Sarracenia hirsuta</td>
</tr>
<tr>
<td>Catchweed bedstraw</td>
<td>Galium aparine</td>
</tr>
<tr>
<td>Green Foxtail</td>
<td>Setaria viridis</td>
</tr>
<tr>
<td>Smartweed (sp)</td>
<td>Polygonaceae</td>
</tr>
<tr>
<td>Curly dock</td>
<td>Rumex crispus</td>
</tr>
<tr>
<td>Western salsify</td>
<td>Tragopogon dubius</td>
</tr>
<tr>
<td>Wild buckwheat</td>
<td>Polygonum convolvulus</td>
</tr>
<tr>
<td>Kochia</td>
<td>Kochia scoparia</td>
</tr>
<tr>
<td>Barnyardgrass</td>
<td>Echinochloa crus-galli</td>
</tr>
</tbody>
</table>

Inspector Certification
As field inspectors, it is required that you read and understand the specific standards and inspection procedures for this program. An inspection training session will be required each year.

Applications
Field inspection applications for noxious weed free forage and straw fields will be assigned to the field inspector by the field supervisor at the earliest possible date. It is the responsibility of the field inspector to complete the field inspection before harvest. It is the responsibility of the applicant to notify Wallowa County if they are ready to harvest and the field has not been inspected. Any field not inspected before harvest will be ineligible for the program.
Inspections
Inspections of NWFF&S fields consist of identifying noxious weeds in the field and adjacent areas of the fields such as other fields, road ditches, fence rows, waterways, rock or brush piles or other areas. All inspections for this program must be accurate and thorough.

When to Inspect
For materials to be eligible for the NWFF&S certification program, all field inspections must take place prior to harvest. It is recommended that all forage fields be inspected within ten (10) days of harvest. Fields in which straw will be harvested can be inspected two weeks prior to harvest or when more appropriate prior to baling. If other corrections need to be made, this time will allow the applicant to make the correction prior to re-inspection.

Walking the Field
The procedures used for walking NWFF&S fields are different from those methods used for walking fields for certified seed inspection. There shall be a minimum of two entry points per field. There shall be a minimum of one entry point per each 10 acres. Each point of entry shall be at least 150 feet into the field, and each additional 150 feet traveled shall constitute an entry point. Travel shall be uninterrupted, proceeding through the field being inspected. The entire field border shall be walked or driven. Fields shall be inspected within 10 days prior to harvest. An inspector may not inspect fields of which said inspector has ownership or financial interest. If there is a heavy infestation of weeds other than those on the noxious weed list, the inspector should make note of it in the comment section of the inspection certificate.

Determining Field Status
If any noxious weeds are found in the field during the field inspection, the field must be rejected. The field may be re-inspected at a later date, however in order for the field to pass a second inspection, the applicant must make the necessary correction to eliminate the cause for rejection. NOTE: If fields being inspected for the NWFF&S program are also being inspected for certified seed, field reports must be completed and field status must be determined for each individual program. A field may meet the criteria of one program but not another.

Tolerance
1. No noxious weeds on Wallowa County’s “A” list
2. No weeds on NAWMA list with reproductive parts.
3. No weeds found on NAWMA list that would cause quality impairment
4. No undesirable plants in a form to cause quality impairments.

Grades of Wallowa County weed free forage
Premium grade ---meets all 4 criteria above
Reclamation Grade --- meets criteria 1 & 2 above

Field Corrections
Options are to cut, mow or avoid the infested areas at harvest time. If the area has been cut, mowed or avoided at harvest time, the areas must also be left undisturbed so the inspector can verify, during the re-inspection, that the infested areas were not harvested.

Field Borders
Areas adjacent to fields inspected under the NWFF&S certification program are required to be free of noxious weeds. Adjacent areas include: other fields, road ditches, waterways, fence lines, rock or brush piles or any other areas that may serve as a source of noxious weed contamination. When adjacent areas contain noxious weeds, a 10-foot buffer zone must be established by mowing, cutting, cultivating or spraying between the production field and the noxious weed infested area. Any borders not maintained in
accordance with the standards at the time of field inspection must be rejected. The applicant will have the opportunity to make the border correction. A re-inspection will be required and additional fees paid.

**Border Corrections**
If the field is rejected due to non-maintenance of adjacent areas, the applicant has the option of establishing a buffer zone to separate the field to be harvested from the source of noxious weed infestation. This buffer zone must be a minimum of 10-feet wide and may be established by mowing, cutting, cultivating or spraying. The buffer zone must be established in a manner that allows the inspector to check the area at the time of re-inspection to verify that no material from the buffer zone was harvested as certified material. It is recommended that 2 rows be cut before inspection (this is not required but will speed the inspection process and aid in assuring proper borders are maintained.)

**Storage**
The storage area is to be a weed free environment or the producer must not include the bottom bales when shipping.

**Warranty**
The Wallowa County Hay/Straw inspection program expressly represents that it has acted in accordance with those standards and procedures established for hay/straw inspection in Wallowa County. The issuance of an inspection certificate neither warrants that any other person or entity has acted in accordance with such standards and procedures, nor constitutes any other warranty, express or implied including merchantability or fitness for purpose or otherwise which extends beyond that the certification that the product inspected met the regulations of the program.
Appendix I.
Wallowa Whitman National Forest Integrated Weed Management Plan


An injunction prohibiting the use of herbicides on Federal lands in the Pacific Northwest Region started in 1984. The Environmental Impact Statement for Managing Competing and Unwanted Vegetation was signed in 1988. This program-level analysis needed to be complete before site-specific analysis could begin. The 1988 decision was appealed, and litigation and appeals were finally resolved through a mediated agreement. In 1992, the Wallowa Whitman signed its forest-wide noxious weed plan and the first opportunity to use herbicides on the Wallowa-Whitman National Forest. Many feel the herbicide-free period on public lands, allowed noxious weeds to increase exponentially on public lands. However, the local Forest Service District has an active weed management program, and is a partner in local strategic planning.

Presently the Pacific Northwest Region is in the process of updating policy by developing a Draft Environment Impact Statement entitled "Invasive Plant Program, Preventing and Managing Invasive Plants. This document will replace the current direction and integrate new technology and science. The final Regional EIS is due in the spring of 2005. At that time, a site specific EIS for the Wallowa Whitman National Forest will also be developed and provide further direction for forest lands located within Wallowa County.

Under the current direction the following requirements are included:

- Stress Integrated Weed Management Emphasize prevention strategy
- No aerial spraying
- All treatment sites must have NEPA approval
- Approved Herbicide chemicals include glyphosate (Roundup & Rodeo), picloram (Tordon), triclopyr (Garlon), atrazine, hexazinone, and dicamba.

Riparian Habitat Conservation Areas (RHCA) buffers:

- 0-50ft.-no spray
- 50-100ft. – Rodeo
- Other (Picloram)
- 100ft. – non-fish intermittent streams and wetlands, seeps and springs
- 300 ft. – Class I streams/invl. Boom mounted truck for road side treatment

*herbicide application within RHCA will be hand spot spray with drift control
*herbicide to be sprayed on calm days or slight wind of 7 mph or less moving away from RHCA
* herbicide storage and mixing will be greater than 300 ft. from streams

All Forest Service contracts must follow the above-stated requirements as well as the contract specifications defined in Contract #53-04M3-2-0025A. This forest-wide contract for weed abatement is active for three years with renewal scheduled for 2005. The contract includes inventory and treatment of noxious weeds.
Appendix J.
Wallowa Canyonlands Partnership Cooperative Weed Management Area (CWMA)

Project summary
The Wallowa Canyonlands Partnership WMA (WCP) is a cooperative effort to secure and maintain healthy plant communities on over 1.4 million acres of canyon lands in and immediately neighboring Wallowa County through the coordinated application of Integrated Weed Management Principles across land ownership boundaries and jurisdictions.

These canyons are relatively un-infested lands and provide a host of habitats including critical winter homes for wildlife and ranching, unique wild-land beauty and recreational opportunities: the WCP will protect these resources that are so integral to our local communities and America’s natural heritage.

Project abstract
The purpose of the Wallowa Canyonlands Partnership project is to maintain and protect the plant communities of the canyon lands within and around the north and east sides of Wallowa County from noxious weed invasion, completing the regional network of weed control. The Project area encompasses Joseph Creek, The Lower Grande Ronde, Imnaha, and many miles of the Snake River Canyons (see attached map). The native bunchgrass plant communities in these canyons are at extreme risk for noxious weed invasion because of their proximity to neighboring weed infestations and because of the intense disturbance regimes that canyon plant communities are subject to. These river canyons provide an excellent vector for the spread of noxious weeds because they are extremely rugged, have locally concentrated recreation (a source of new weeds) and because they are subject to annual flooding and erosion events associated with rivers and steep canyons. Wallowa Resources’ Lower Grande Ronde Noxious Weed Program (PTI project 2003-0086-037) is currently managing weed control on the north and west flanks of Wallowa County. However, Hells Canyon, on the eastern flank, of the county has not received adequate attention from weed managers for several years. The Wallowa Canyonlands Partnership will continue the work of the Lower Grande Ronde Noxious Weed Program and invigorate weed control efforts in the same coordinated manner in Hells Canyon. This project will also provide a large measure of security from noxious weed invasion for the interior valley of Wallowa County and the Eagle Cap Wilderness.

Target weed species
Rush skeletonweed, Yellow starthistle, Dalmatian toadflax, Leafy spurge, Spotted, Diffuse, Russian, and Meadow knapweeds, White-top, Common crupina, Common bugloss, Meadow and Orange hawkweed, Japanese knotweed, Purple loosestrife, Perennial pepperweed, Scotch thistle, Sulfur cinquefoil, Italian thistle, and Tansy ragwort.
### Appendix K.
#### Wallowa County Weed Board 2006 Action Plan

Monthly Weed Board meetings are dynamic brainstorming sessions with strong participation from the members and other community partners. Adjustments to existing projects are made, and additional projects are created as necessary.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Goals</th>
<th>Time frame</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Annual Weed Tour</strong></td>
<td>Work with the Vegetation Manager and Extension to have the county weed tour accredited for four hours credit. Tour will focus on weed ID and IWM, calibration, labels, and safety. 50 people BBQ</td>
<td>Late June</td>
<td>underway</td>
</tr>
</tbody>
</table>
| **Policy Enforcement** | - Develop five year Goals for weed board policy  
- Update the County Weed List and present it to the County Commish for adoption by 4/15.  
- Update Cost share Policy for County weed funds  
- Clarify hay quar/enforcement laws | Feb.-March | Complete |
| **Restoration Sites** | Work collaboratively to adopt sites that have vegetation problems, particularly:  
- Wallowa Nez Perce Band Site  
- Joseph rodeo Grounds  
- Bates Mill | March-November | On-going |
| **Integrated Weed Management Plan (IWMP)** | The weed board will write an IWMP to guide noxious weed management for approximately the next ten years. | To NRAC by May | Underway |
| **Educational Events** | Implement the following educational events during 2004:  
- Shadow boxes – restore  
- Man the County Fair booth  
- Evaluate “Paddy Wagon”  
- Informational Radio Spots | Year-round | On-going |
| **OTHER** | • WEED LEVY RENEWAL | Jan - Nov | Ongoing |
| | • Weed Board will recruit Hay Station volunteers | August | Not started |
| | • Weed Warriors – Help Improve quality of volunteer projects | May - Sept | Not started |
| **Prevention Sites** | • Adopt prevention sites | ? | Not started |
Appendix L.
Wallowa County Vegetation Department 2006 Action Plan

<table>
<thead>
<tr>
<th>Activity</th>
<th>Goals</th>
<th>Time frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant Applications</td>
<td>Apply for available funding from and for:</td>
<td>March-November</td>
</tr>
<tr>
<td></td>
<td>Common bugloss</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spotted knapweed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White-top</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leafy spurge</td>
<td></td>
</tr>
<tr>
<td>Contract Work</td>
<td>Contract weed control from:</td>
<td>April-August</td>
</tr>
<tr>
<td></td>
<td>Umatilla NF</td>
<td>April-August</td>
</tr>
<tr>
<td></td>
<td>ODOT</td>
<td>April-August</td>
</tr>
<tr>
<td></td>
<td>WURR</td>
<td>April-July</td>
</tr>
<tr>
<td></td>
<td>Joseph Airport</td>
<td></td>
</tr>
<tr>
<td>Roadside Treatment</td>
<td>Provide IWM throughout the weed season:</td>
<td>mid March-mid April</td>
</tr>
<tr>
<td></td>
<td>1. Pre-emergence spray on all oiled county roads, and majority of gravel roads</td>
<td>April-November</td>
</tr>
<tr>
<td></td>
<td>2. Broadleaf post-emergence spray on selected oil and gravel roads throughout county</td>
<td>March-November</td>
</tr>
</tbody>
</table>
# Appendix M.
USFS Wallowa Mountains Office Noxious Weed Management Program 2006 Annual Plan

<table>
<thead>
<tr>
<th>Project</th>
<th>Objective / Annual Goal</th>
<th>1st Quarter (Nov.–Feb.)</th>
<th>2nd Quarter (March–May)</th>
<th>3rd Quarter (June–Aug.)</th>
<th>4th Quarter (Sept.–Oct.)</th>
<th>Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management</td>
<td>Comply with FS regulations/requirements</td>
<td>Complete reports</td>
<td>Write Contracts</td>
<td>Supervise crews</td>
<td>investigate 07 funding opportunities</td>
<td>FS</td>
</tr>
<tr>
<td></td>
<td>EIS</td>
<td>Update forest contract</td>
<td>Develop agreements</td>
<td>Inspect contracts</td>
<td>EIS involvement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Strengthen partnerships</td>
<td>Site specific EIS</td>
<td>Budget projections</td>
<td>EIS involvement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete W/CMW</td>
<td>EIS involvement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inventory / Assessment</td>
<td>monitor Biocontrol effectiveness</td>
<td>Collaborate w/agency</td>
<td>Share data with Counties</td>
<td>Continue fire.</td>
<td>Follow up inventory/treatment</td>
<td>FS</td>
</tr>
<tr>
<td></td>
<td>Monitor fire plots/FHM</td>
<td>Collaborate with partners (OR/ID)</td>
<td>Begin fire inventory</td>
<td>Continue ODA inventory</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Implement DASM for high risk sites &amp; fire areas</td>
<td>Work on partnership agreements</td>
<td>Begin ODA inventory</td>
<td>Inventory void areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inventory void areas</td>
<td></td>
<td>Bio monitor of YST in HCW</td>
<td>DASM inventory</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coordinate with ODA on inventory of exchange lands</td>
<td></td>
<td>Inventory of Dug Bar for common crupina</td>
<td>Fire area inventory</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inventory/ monitor of fire areas including Tryon, Granite, Turner Fires</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mapping</td>
<td>Complete Area Map Update</td>
<td>Input 05 inventories in GIS</td>
<td>Combine inventories into WMO layer</td>
<td>Complete input from 05 inventories</td>
<td></td>
<td>FS</td>
</tr>
<tr>
<td></td>
<td>Update maps</td>
<td>Update old maps</td>
<td>Share WMO 05 layer w/ partners</td>
<td></td>
<td></td>
<td>Intern?</td>
</tr>
<tr>
<td></td>
<td>Link sites into TERRA</td>
<td></td>
<td>Incorporate WMO layer to forest layer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment</td>
<td>Treat knotweed in Tyron Fire Complex</td>
<td>Submit annual reports</td>
<td>Begin Treatment on Imnaha/Snake</td>
<td>YST/DK/Dt bio collection/release</td>
<td>treat Rush Skeletonweed spray (ID/OR)</td>
<td>FS</td>
</tr>
<tr>
<td></td>
<td>Exterminate New invaders</td>
<td>Check on past treatments</td>
<td>Treat new invaders</td>
<td>Treat of FS sites as possible</td>
<td>Implement Knotweed project</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manage Landscape scale infestations</td>
<td></td>
<td>Bugloss contract</td>
<td>Contract inspections</td>
<td>Fall treatments/contract inspections</td>
<td></td>
</tr>
<tr>
<td>Revegetation</td>
<td>Implement integrated weed management including restoration in project design</td>
<td>Choose sites for fall</td>
<td>Purchase seed?</td>
<td>YST/DK/Dt bio collection/release</td>
<td></td>
<td>FS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transfer rangeland drill and trailer</td>
<td></td>
<td></td>
<td></td>
<td>Contract partners</td>
</tr>
<tr>
<td>Coordination</td>
<td>Collaborate with ID</td>
<td>Assist w/ ID grants</td>
<td>Share data</td>
<td>Weed tours</td>
<td></td>
<td>FS</td>
</tr>
<tr>
<td></td>
<td>Collaborate with Partners/Volunteers</td>
<td>Coordinate w/TNC on Collins</td>
<td>Design volunteer projects</td>
<td>Implement volunteer activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Define agreements</td>
<td></td>
<td>Finalize agreements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education/Prevention</td>
<td>Develop, design and implement County news awareness</td>
<td>Develop news releases</td>
<td>Presentations</td>
<td>Work on 07 objectives</td>
<td></td>
<td>FS</td>
</tr>
<tr>
<td></td>
<td>Educate visitors to area</td>
<td>Implement Ed contract for field guide</td>
<td>FFA/HCW project</td>
<td>FHM presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Develop presentations</td>
<td>Update fair displays</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collaborate with WV Weed Warriors</td>
<td></td>
<td>Implement news ads</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Appendix N.
Wallowa Resources Lower Grande Ronde Noxious Weed Program 2006 Annual Plan

<table>
<thead>
<tr>
<th>Project / Assessment</th>
<th>Objective / Annual Goal</th>
<th>1st Quarter Milestones</th>
<th>2nd Quarter Milestones</th>
<th>3rd Quarter Milestones</th>
<th>4th Quarter Milestones</th>
<th>Persons</th>
</tr>
</thead>
</table>
| **Inventory / Assessment** | - Inventory unexplored areas of LGR  
- Asses Biocontrol effectiveness  
- Implement DASM for high risk sites | - Collaborate w/ County Road/Veg Deps. on N end work  
- Collaborate w/ agencies  
- MDH inv. ODFW | - Share data with Counties  
- Inventory Elgin To Rondowa  
- Lower Joe/Schu Inv  
- Inventory river sites | - Inv Wenaha Wilderness  
- DASM Mtn View for Dt  
- Reread al monitor plots  
- YST plot in Hackberry | - Follow up treatments | - MP  
- Contract |
| **Mapping** | - Complete Area Map Update | - Update old maps  
- Create LGR 05 layer | - Distribute landowner maps  
- Share LGR 05 layer w/ partners | - Begin adding new inventory data to LGR layer | - Create 06 GRR layer | - MP  
- Intern? |
| **Treatment** | - Contain DT LS  
- Extirpate New invaders  
- Manage Landscape scale infestations | - Plan Lower Jo aerial  
- Check on past treatments | - Lower Joe Aerial trt  
- Trt new invaders  
- Implement Crupina containment  
- Plan River Spray | - Release M janthinus in Wildcat/Mud  
- Release A. lacertosa on river LS  
- Implement River Spray and RSW seed control  
- Collect/export DKW bios | - Implement Rush Skeletonweed spray | - MP  
- Contract |
| **Revegetation** | - Revegetate/Reclaim 500 acres | - Choose sites for fall  
- Implement seedings  
- Acquire additional funding as needed  
- Order plugs | - Purchase seed?  
- Choose sites for fall | - Monitor past seeding sites/ photograph | - Implement projects | - MP  
- Contract |
| **Coordination** | - Collaborate with Pomeroy and WW RD’s  
- Refine WDFW agreement  
- WCP or LGRNWP | - Schedule presentation district meetings  
- Determine Umatilla NF needs | - Give Presentations  
- Share data | - Tour w/ new managers | - Line funding and agreements treatments for 06 | - MP |
| **Education / Prevenion** | - Implement Bounty Program  
- Educate visitors to area | - Finalize and Announce Bounty design  
- Find apply for funding for Weed Signs Minam…  
- Write up Toadflax brochure | - Implement and check bounties  
- Secure funding Design Boards  
- Write up Medusa head brochure | - Implement and check bounties  
- Write up Whitetop brochure | - River Boards at Minam, Troy, Boggan’s, Schumaker, Rogersburg, Cottonwood | - MP |