Olympic Peninsula Cooperative Noxious Weed Control

2007 Project Report

A Title II Participating Agreement between the
USDA NFS Olympic National Forest
and the
Clallam County and Jefferson County Noxious Weed Control Boards

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Executive Summary

Project Goal:
The goal of this project is to protect the natural resources of Clallam and Jefferson Counties from the negative impacts of invasive non-native plants. This goal is be implemented by reducing existing weed populations and preventing the establishment of new ones, across both counties. Coordinating and standardizing weed control efforts across jurisdictional boundaries will maximize the efficiency of these efforts and help to minimize the negative impacts of noxious weeds on watershed function, wildlife habitat, human and animal health, and recreational activities.

Project Overview:
This project is a comprehensive program for noxious weed control on the North Olympic Peninsula. On National Forest lands, the project involves monitoring and treating sites previously identified, as well as survey and identification of new sites, particularly at focus areas like Botanical Areas, campgrounds, trailheads, rock sources and roads scheduled to be decommissioned. On non-federal lands this project, coordinated by Clallam County, oversees and implements Jefferson County Noxious Weed Control Board's program. This program includes public education, survey and monitoring of noxious weed infestations, and seeking landowner compliance with RCW 17.10. A new addition to the project this year was using a 10-person crew from the Olympic Correction Center (OCC) in west Jefferson County to control Scotch broom in pits and quarries on non-forest service land in west Jefferson.

2007 Project Goals:
1. Increase the amount of control work performed.
2. Continue herbicide treatments on National Forest sites as allowed.
3. Revisit previously controlled sites and perform necessary follow-up control work.
4. Scope and prioritize weed sites for future treatment by the Weed Board or other cooperators.
5. Survey and treat rock sources.

2007 Resources:
Clallam/Jefferson Noxious Weed Control Boards Staff:
- Supervisor (4 hours/week, 9 months)
- Project Specialist (40 hours/week, 4 months)
- Field Technician (40 hours/week, 3 months)
- Jefferson County Noxious Weed Coordinator (25 hours/week, 7 months, 40 hours/week, 1 month).

Other crews: OCC--Eight to ten person crew, (40 hours/week, 10 weeks)
Washington Conservation Corps (WCC)--Four to five person crew, (40 hours/week, 4 weeks)
Clallam County Sheriff's/Road Department Chain Gang as time allowed

2007 Accomplishments:
- Treated a total of 419.3 weed-infested acres (CCNWCB, WCC and OCC).
- Surveyed 369 miles of Forest Service road.
- Coordinated the Jefferson County Noxious Weed Control Program for 7 months.
- Manually removed 72,700 weeds from Forest Service roads (Sheriff's Chain Gang).
- Completed and submitted FACTS treatment forms to USFS for upload to their database.

Conclusions and Recommendations:
Weed infestations are reduced in size and density at sites where control work is repeated regularly. Treatments are most effective on new, poorly established infestations, demonstrating that this project must continue to operate under a policy of early detection/ rapid response. Changes in reporting methods make it difficult to compare this year's achievements to those of prior years. Herbicide treatments in 2006 and 2007 have been seen to be effective, demonstrating the efficacy and efficiency of an integrated control strategy.

In the immediate future this project must continue to focus primarily on treatment, though new infestations must be controlled whenever found. While the Weed Board is not equipped to operate large-scale treatment crews, expert staff are ideal to act as supervisors for other collaborators controlling large sites. This will allow a smaller Weed Board crew the freedom to resurvey large areas and control a number of smaller sites while overseeing one or more larger projects. Finally, with Title II funding scheduled to sunset in 2008, a new funding source must be found soon to meet the continuing need for noxious weed control both on and off of federal lands on the North Olympic Peninsula.

Project Summary

Project Goal:
The goal of this project is to protect the natural resources of Clallam and Jefferson Counties from the negative impacts of invasive non-native plants. This goal is be implemented by reducing existing weed populations and preventing the establishment of new ones, across both counties. Coordinating and standardizing weed control efforts across jurisdictional boundaries will maximize the efficiency of these efforts and help to minimize the negative impacts of noxious weeds on watershed function, wildlife habitat, human and animal health, and recreational activities.

Project Overview:
This project is a comprehensive program for noxious weed control on the North Olympic Peninsula. Included are activities to survey, identify, and control noxious weeds, to coordinate action and communication between local, state and federal jurisdictions, and to raise public awareness of the impacts imposed by noxious weeds. This project also provides funding for the Jefferson County Noxious Weed Control Board and their local education, survey, and treatment programs. Work on this project began in 2002 and under current funding will continue through 2008.

On National Forest lands, the project involves monitoring and treating sites identified previously under this project and sites identified in the 1998 Olympic National Forest Integrated Weed Management Program Environmental Assessment (1998 EA). Other components include surveying and recording additional locations of noxious weed infestations, and developing a comprehensive control plan while implementing currently approved treatments, as resources allow. All noxious weed sites are mapped in the County's ArcView GIS. New sites that are not immediately controlled are entered into the NRIS TERRA database. The Forest Activity Tracking Sheet (FACTS) form is used to document manual or chemical treatment.

The program also operates on non-Forest Service land. It is coordinated by Clallam County Noxious Weed Control Board (CCNWCB) and utilizes CCNWCB staff. Because funding for weed control in Jefferson County is limited, the program assists with oversight and implementation of the Jefferson County Noxious Weed Control Board's program (JCNWCB). Program goals include public education, monitoring of infested sites previously identified by JCNWCB staff, surveying for new noxious weed infestations, seeking private and public landowner compliance with RCW 17.10 and WAC 16-750, and assisting other public agencies with their efforts to control noxious weeds. An addition to the program this year was using a 10-person crew from the Olympic Correction Center (OCC) in west Jefferson County to control Scotch broom in pits and quarries on non-forest service land in west Jefferson.

2007 Project Description:
This project implements control measures using the most effective treatments in accordance with the 1998 EA and state/county guidelines on state land and county rights-of-way. The focus is on areas where uncontrolled noxious weed populations on federal, state, county, and private land are spreading and hindering control activities elsewhere. The Clallam and Jefferson County Weed Boards provide the vital link to private landowners whose weeds threaten federal lands. On Forest Service lands, first and foremost, the project continues to work under a policy of early discovery and rapid response to prevent the establishment of new infestations wherever possible. For known sites, the emphasis is on controlling noxious weeds along roads and trails, in high use locations like campgrounds and trailheads, and in gravel pits. Due to heavy use or potential off-site movement of infested materials, these types of sites serve as the primary source of new weed

invasions into previously uninfested areas. Special emphasis is also placed on Botanical Areas and similar critical sites, because of the severe threat that invasive weeds pose to these unique environs. Roads scheduled to be decommissioned in the near future are also targeted because of the difficulty of reaching these sites to control weeds after decommissioning. In addition to the Weed Board survey team and the OCC crew mentioned above, the Clallam County Sheriff's/Road Department Chain Gang and a WCC crew performed weed control in 2007.

In 2007, the project focus for Forest Service lands was to:

1. Revisit previously controlled sites and perform necessary follow-up control work.
2. Control small populations as soon as they are seen, to prevent spread.
3. Continue herbicide treatments as allowed under the1998 EA and the National Forest Service Region 6 Invasive Species Environmental Impact Statement.
4. Scope and prioritize weed sites for future treatment by the Weed Board or other cooperators.
5. Survey and control weeds in rock sources (pits).

2007 Project Resources and Performance:
The number of staff/participants, the amount of time devoted to this project, and tasks completed were:

- **1 Supervisor: 4 hours/week, for 9 months, licensed applicator**
  - Supervised the project
  - Provided technical information and support, crew training, and assisted with field treatments
  - Participated in 3 planning meetings with Forest Service staff
  - Participated in new EIS planning/integration
  - Oversaw end-of-season reporting and planning for 2008 field season
  - Cordinated a three-day pesticide training, attended by the WCC and OCC leaders and CCNWCB staff. In addition to training, attendees could take pesticide exams on site.

- **Field team: 1 project specialist, 40 hours/week for 4 months; 1 field technician for 40 hours/week for 3 months, both licensed applicators**
  - Treated a total of 59.95 acres
  - Surveyed 369 miles of roads
  - Filled out FACTS forms for all treated sites
  - Mapped 2007 treated areas and roads surveyed in ArcView GIS
  - Surveyed pits and provided reports to FS
  - Created a work plan for WCC crews and supplied a licensed applicator to work with WCC
  - Coordinated the OCC crew and supplied tools and herbicide

- **1 Jefferson County Noxious Weed Control Coordinator: 25 hours/week, for 7 months, 40 hours/week for 1 month**
  - Coordinated Jefferson County Noxious Weed Control Program for seven months
  - Compiled data and prepared report

- **Clallam County Sheriff's/Road Department Chain Gang, as available**
  - Removed 72,700 weeds

- **WCC crew: 4-5 persons, 40 hours/week for four weeks**
    - Controlled weeds on 22.35 acres in the Dungeness and Big Quilcene River watersheds.

- **OCC crew: 8-10 persons, 40 hours/week for ten weeks**
    - Controlled Scotch broom on 337 acres in the Hoh River watershed, mainly in pits

2007 Project Accomplishments:
It is evident that the inclusion of herbicide treatments for the second year and using both OCC and WCC crews allowed the project to accomplish much more noxious weed control than in previous years. In 2007 419.3 acres of noxious weeds were treated. However, comparison with previous years work is difficult because of changes in crews, focus and reporting.

- More funding allowed the hiring of WCC crews for four weeks. These crews performed chemical and manual treatments in the Dungeness and Big Quilcene watersheds. It also paid for a 10-person crew from the Olympic Correction Center (OCC), who did both chemical and manual treatment of Scotch broom in pits and quarries in the Hoh River watershed in the west end of Jefferson County. The OCC crew was extremely efficient and cost-effective.
- Clallam County Chain Gang continued to perform weed control on Forest Service roads and removed more weeds in 2007 than in 2006.
- Chemical control was allowed for a second year, in designated areas, but on fewer sites than in 2006. Chemical and manual treatments combined were more efficient than manual control alone.
- The focus in 2007 was almost exclusively on control, not on surveying or recording new sites.

A summary of work performed under this project from 2002-2007 is shown in the following table but changes in reporting over the years make comparison difficult**.** Specific changes are listed below**.**

- Prior to 2006 the program combined reporting of road miles surveyed and/or treated. Acres were extrapolated from those miles. In 2006 and 2007 the FS requirement was to record only acres treated. However, in both those years staff kept track of miles driven and surveyed. Survey miles are probably under-reported since crews often traveled the same road many times.
- Prior to 2006 the program reported all treatments as number of weeds removed (manually). Chemical control was implemented in 2006, after manual treatments began. The Forest Service now requested reporting forf all treatments in acres. Therefore, in 2006 manual treatments include number of weeds treated and acres. Chemical treatments record only acres treated. Number of weeds removed is not reported by CCNWCB-supervised crews in 2007. The Chain Gang continues to report numbers of weeds removed. This explains data gaps in the table for certain years.
- 0.1 acres is the smallest unit allowed in the activity forms. This caused some artificial inflation of the figures for acres treated. This is most evident in the small infestations treated by the CCNWCB.

If possible, accomplishment reporting in future years' reports should allow direct comparison to this report. This can be more easily accomplished if data reporting requirements remain consistent.

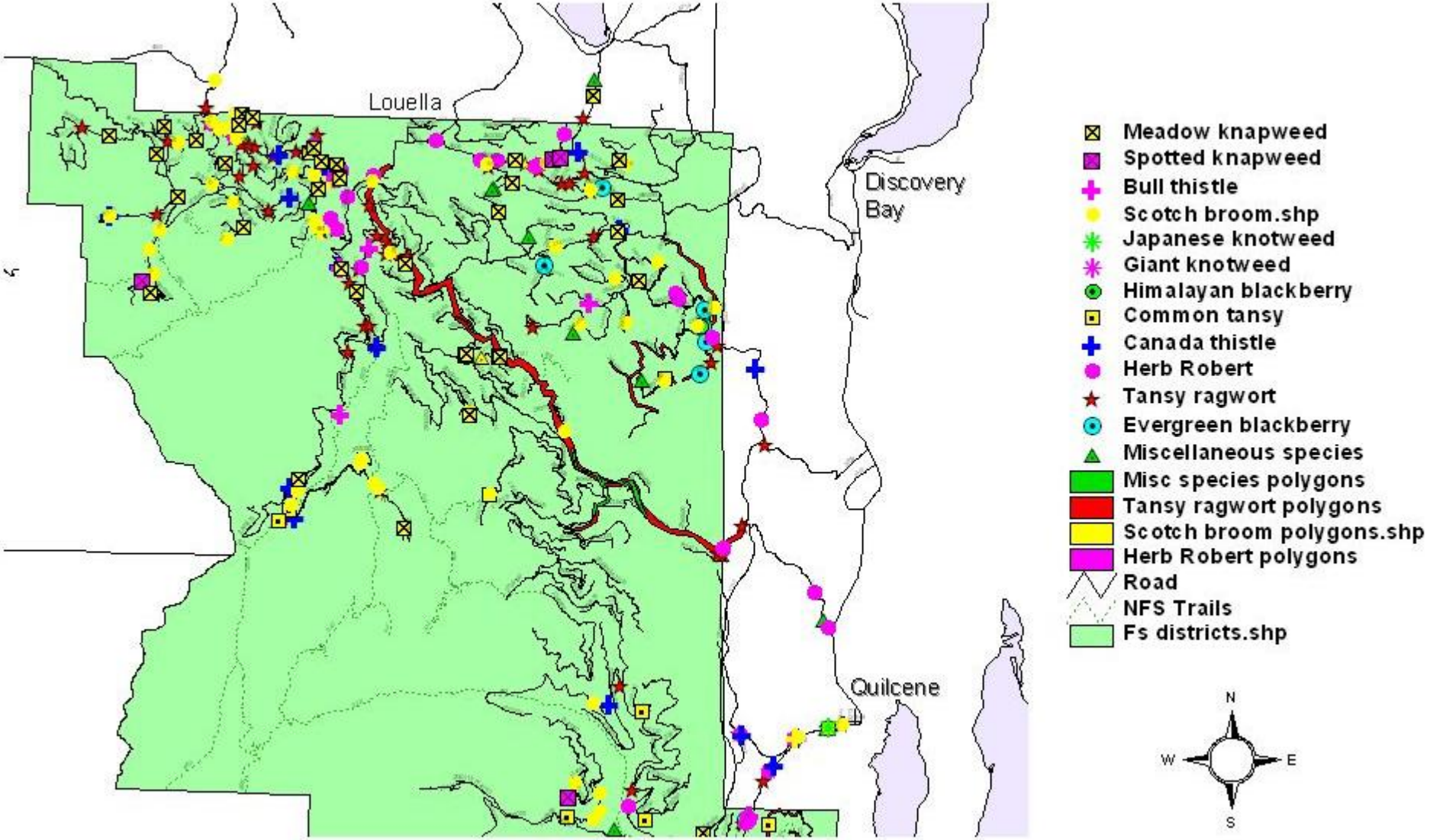
2002-2007 Accomplishments Summary Table							
	2002	**2003**	**2004**	**2005**	**2006**	**2007**	**TOTAL**
Miles of Roads Surveyed/Treated	192	702	265	113	N/A	N/A	**1,272**
Acres Surveyed/Treated*	233	851	321	137	N/A	N/A	**1,542***
Miles of Roads Surveyed	-	-	-	-	390.44	368.77	**759.31**
Acres Surveyed**	-	-	-	-	946.52**	893.99**	**1,840.51****
New Sites/Total	**122**	**497/619**	**147/766**	**74/840**	**147/986**	**12/998**	**998**

Number of Weeds Removed by Crew							
# of Weeds Removed by Field Crew***	736	886	11,716	51,775	21,016***	N/A	**86,129*****
# of Weeds Removed by WCC Crew	31,085	87,623	1,166,200	880,655	N/A	N/A	**2,165,563**
# of Weeds Removed by Chain Gang	8,286	102,748	112,858	108,225	56,775	72,700	**461,592**
TOTAL # of Weeds Removed	**40,107**	**191,257**	**1,290,774**	**1,040,655**	**77,791**	**72,700**	**2,713,284**

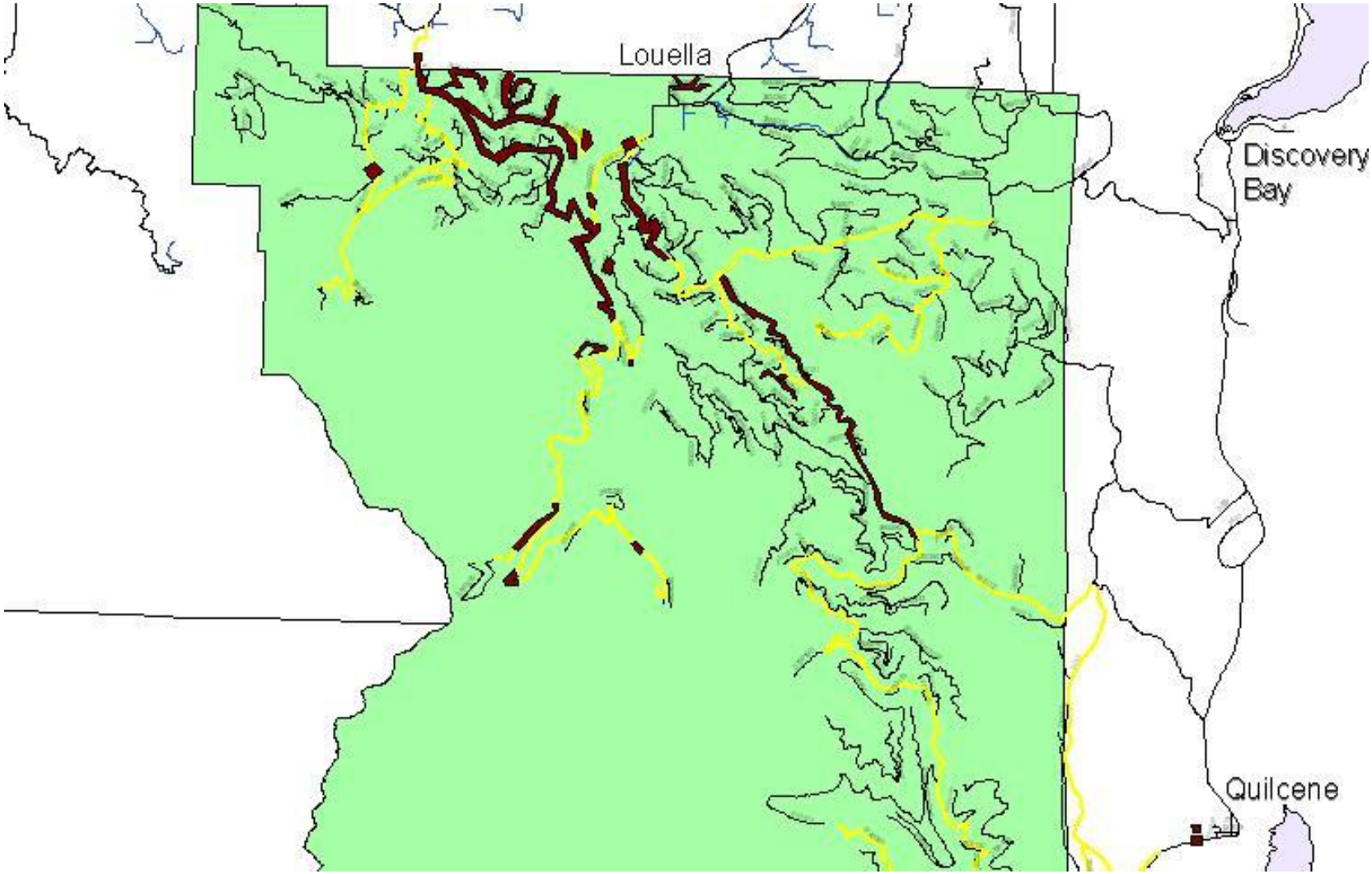
Acres Treated, by Crew							
Acres Treated by Field Crew****	-	-	-	-	20.28****	59.95****	**80.23****
Acres Treated by WCC Crews						22.35	22.35
Acres Treated by OCC Crew						337	**337**
Acres Treated by Chain Gang*****					5.67*****	7.27*****	**12.94*****
TOTAL # of Acres Treated					**25.95**	**426.57**	**452.52**

*Derived from miles surveyed/treated
**Derived from miles surveyed. Recorded as a separate value for 2006 and 2007 only, previously combined in miles treated/surveyed and acres treated/surveyed
*** "# of Weeds Removed" refers to manual only, does not account for chemical treatment
**** "Acres Treated" includes chemical and manual treatment. Area was recorded on FACTS forms by field crew; these forms require both "Gross Infested Area Treated" and "Infested Area Treated", the latter meaning the area occupied by the plants that were treated. The figures given here, in all cases, are "**Infested Area Treated**" and were taken directly from the FACTS forms.
*****For the Chain Gang, each thousand plants were estimated to encompass .1 acre.

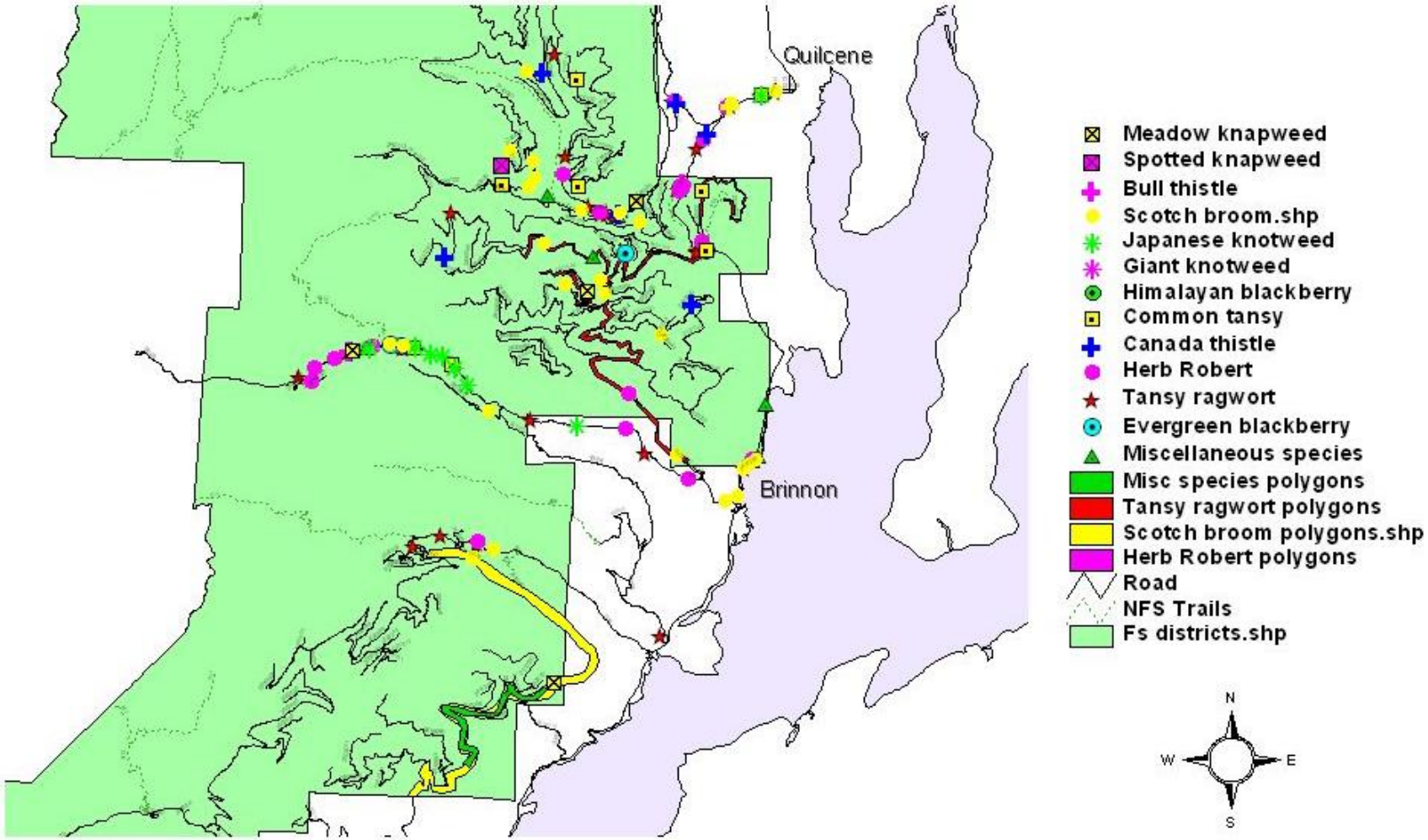
Maps
Hood Canal District North
Weed Sites found 2002-2007



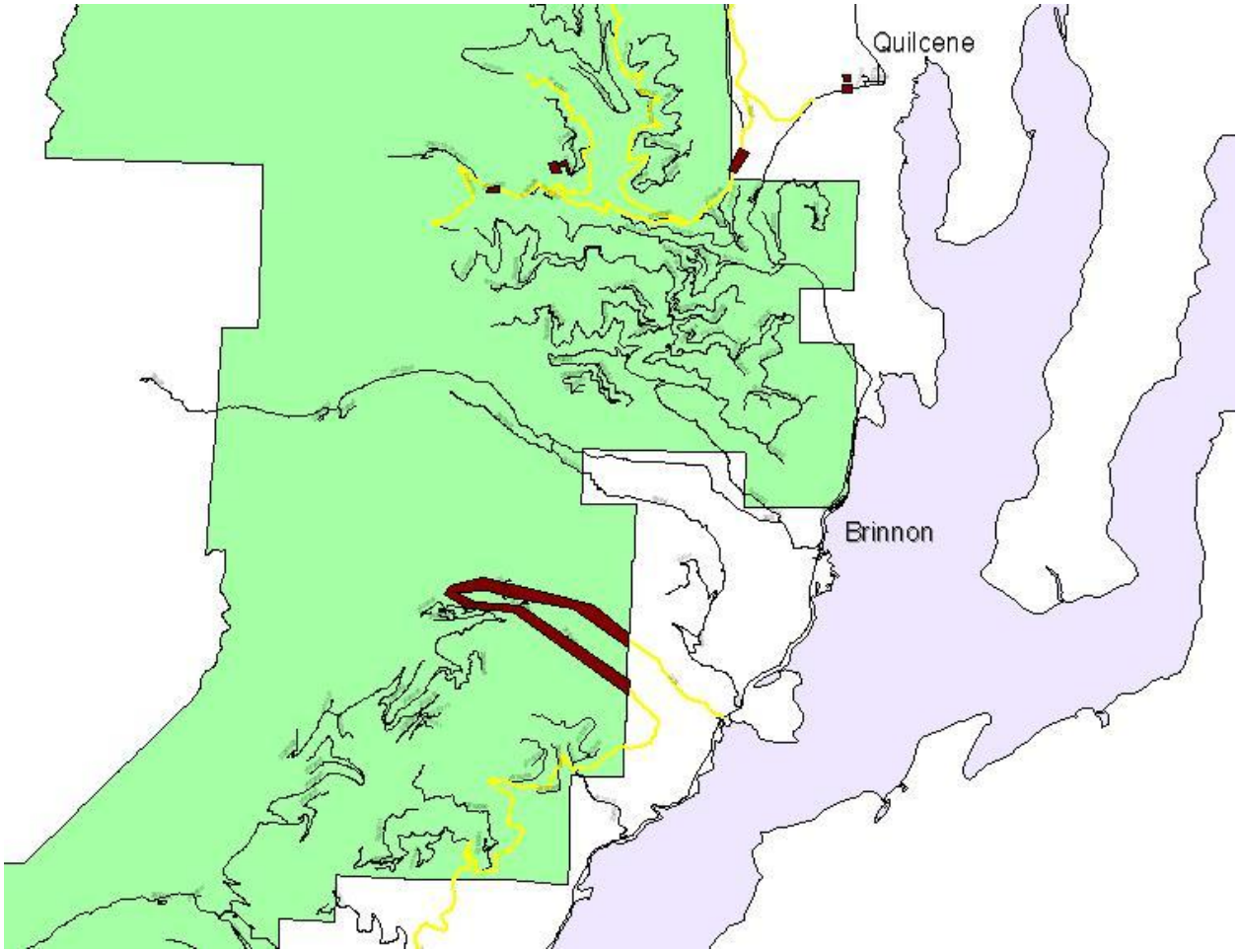
Hood Canal District North
2007 Survey—yellow lines. 2007 treatments—brown



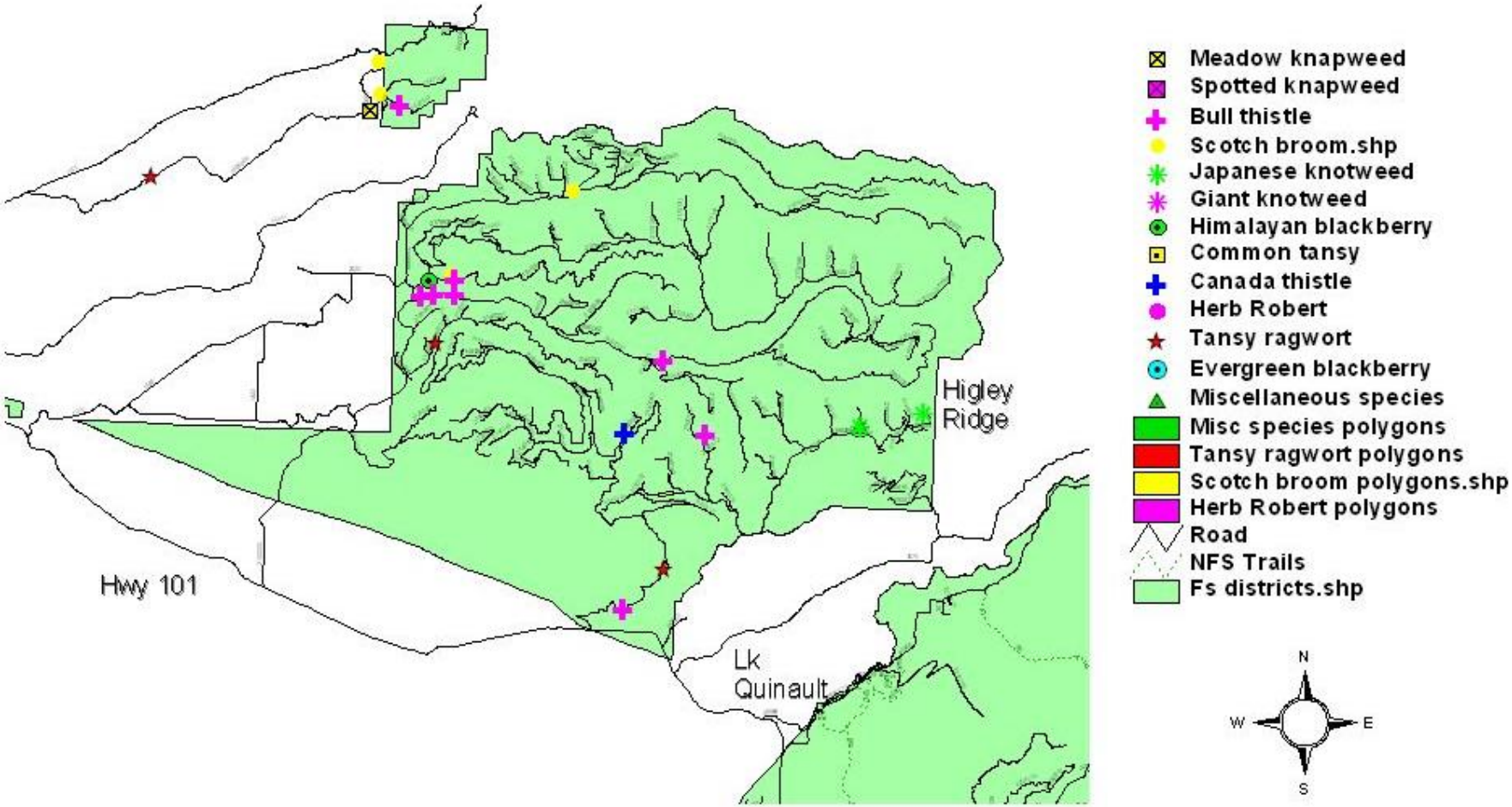
Hood Canal District South
Weed Sites found 2002-2007



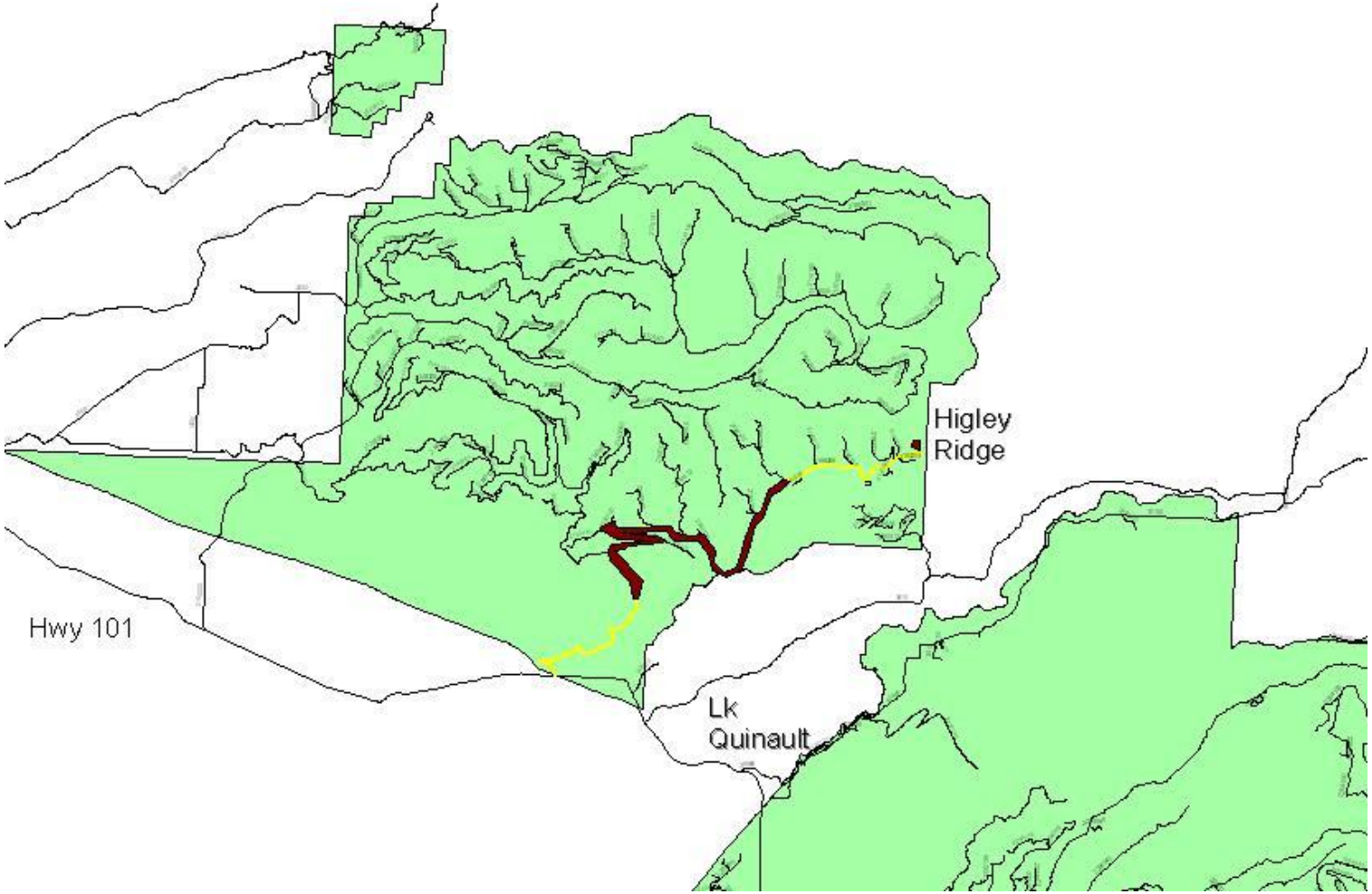
Hood Canal District South
2007 Survey—yellow lines. 2007 treatments—brown



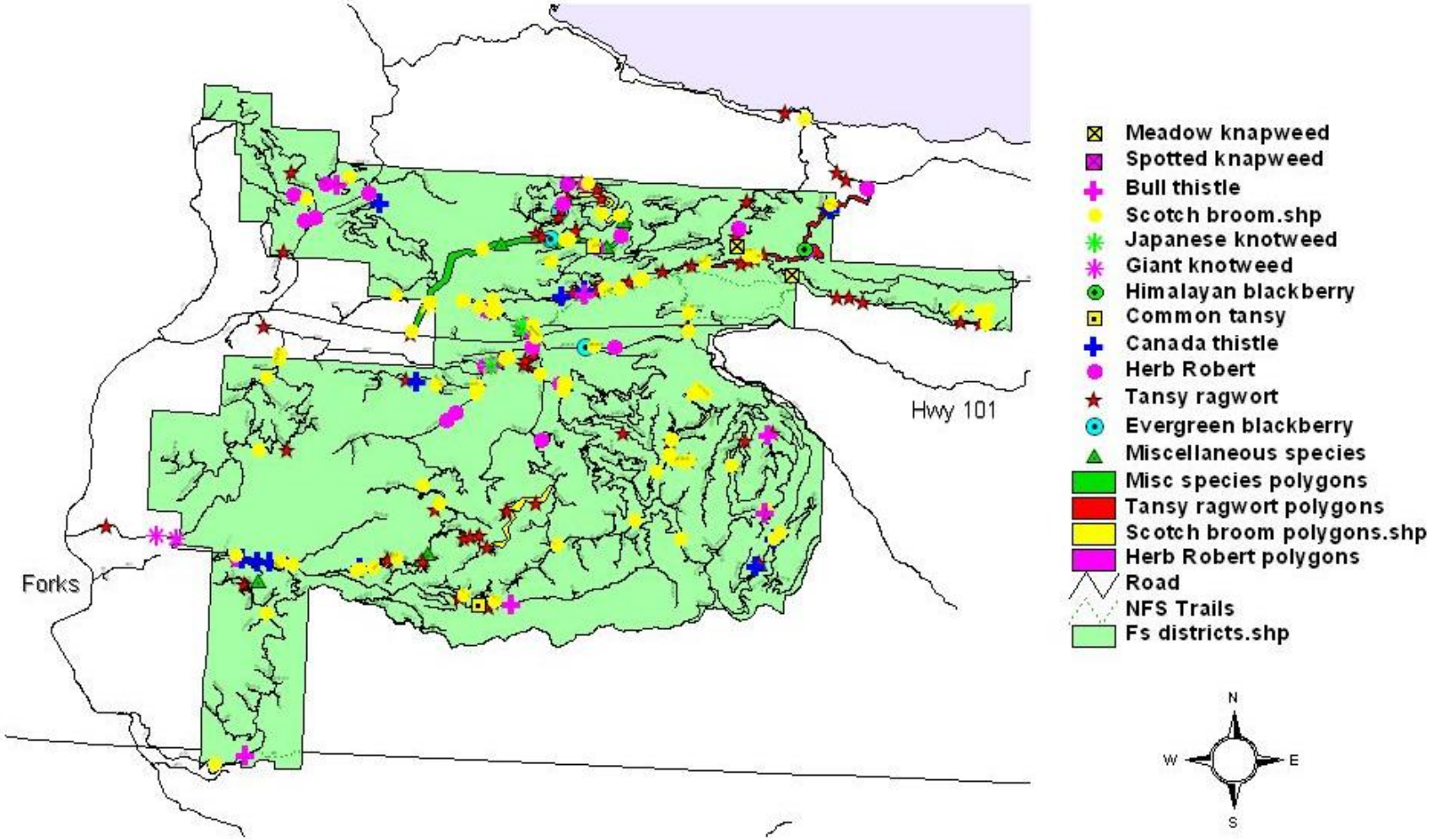
Pacific District South
Weed Sites found 2002-2007



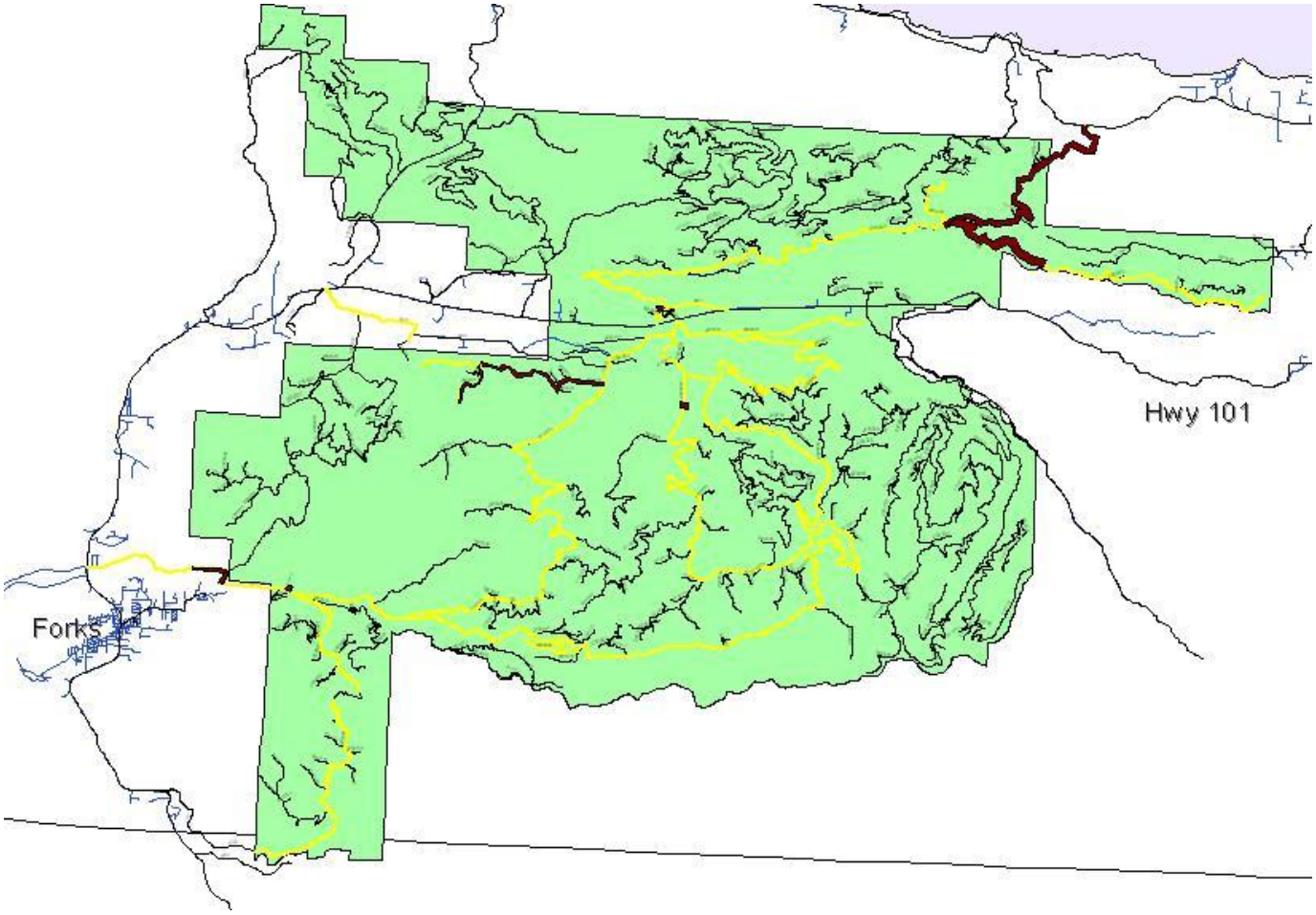
Pacific District South
2007 Survey—yellow lines. 2007 treatments—brown



Pacific District North
Weed Sites found 2002-2007



Pacific District North
2007 Survey—yellow lines. 2007 treatments—brown



Conclusions and Recommendations

Nature of the Problem:
Known infestations where control work is repeated regularly show decreasing size and density. New, poorly established infestations respond best to control efforts and should remain the focus of this project, but addressing long standing infestations is both essential and possible. The inability to combine manual and herbicide treatments where appropriate did continue to hamper progress in this area. However, the higher level of funding to this year's project resulted in a marked increase in treatment. Good follow-up next year will capitalize on the gains made to date. An improved awareness of the negative impacts of invasive species and the higher priority placed upon controlling them by Forest Service personnel is very encouraging. We believe that continued cooperation and close coordination with weed boards and others engaged in protecting natural resources will continue to be key to a long term solution. Overall descriptive statistics and conclusions about the nature of the problem are provided below.

- In 2007 the program's focus was control. However, 12 new sites were noted and treated.
- The total number of sites recorded under this project (2002-07) is now approximately 998.
- The most commonly recorded invasive species continue to be Scotch broom, tansy ragwort, herb Robert, and Canada thistle, although a significant number of meadow knapweed sites have shown up.
- Herb Robert sites, although increasingly common, continue to be a high concern.
- The most infrequently recorded species are borage, hawkweeds, knotweed, and spotted and diffuse knapweed. All known sites of these species were treated this year. Controlling these species, and locating and treating neighboring populations will continue to be a high priority.
- Many treated infestations, especially those treated chemically in '06, are smaller. Manual treatments were effective on several species, not particularly effective on others, depending on the size and density of last year's population. Most could have been more effectively controlled through a combination of manual and selective herbicide treatment.
- Small populations of purple loosestrife and common reed (*Phagmites australis*) have appeared on Jefferson County roadsides. Small roadside populations of sulfur cinquefoil occur in both Clallam and Jefferson. We consider control of all three of these plants—as yet unrecorded on Forest Service land—a high priority to prevent their spread.
- CCNWCB crews surveyed 12 rock sources and treated 5 manually. A knotweed crew, under a different project, sprayed just the knotweed at The Forks Sand and Gravel (non Forest Service). No weeds of concern were found in three rock sources, but the others were heavily infested with meadow knapweed, Scotch broom and tansy ragwort in addition to other weeds of lesser concern. In many cases, treatments were slowed, severely limited by, or not performed because of the inability to use herbicides.
- The OCC crew removed extremely heavy infestations of Scotch broom from additional pits and quarries in the Hoh River watershed in the west end of Jefferson County. These areas were of significant concern because the few good rock sources available in the area are shared by multiple users, and therefore serve as a major source of infestations throughout the county. This crew proved to be extremely efficient and cost effective.

- More data and a comprehensive strategy are needed for quarries in the entire project area, on Forest Service and non-Forest Service land.
- Active quarries should be monitored annually or treated then monitored for 2-3 years before being activated.
- The ends of spur roads are commonly infested sites, and may act as a source for new infestations. It is essential in both treatment and survey to work to the end of the road.
- The extent of invasive plant populations in less accessible areas continues to be less well documented. More should be done to enlist volunteers or visitors to record invasives in these areas.
- The large, remote area covered by this project makes travel time a significant limiting factor for fieldwork. Therefore it is essential that field crews be able to recognize invasive species and be prepared to conduct both survey and treatment, either manual or chemical, on any given day.
- Both WCC and OCC crews did a good job documenting work and turned in their reports in a timely fashion.
- WCC crews traveling long distances to Olympic Forest sites did not maximize funding dollars and required greater supervision because they were working in unfamiliar territory and with unfamiliar plants.
- WCC crews made progress and considerable effort towards being ready to make herbicide treatments, but still lack experience and will need more assistance and training. Providing herbicide ready and willing crew should be a requisite for WCC weed contracts next year.
- The chain gang was under-utilized this year for weed control projects. The weed board should put more effort into coordinating large projects with this crew next year.
- Work plans for field work are chronically disrupted by weather, changes in crew and other unforeseen circumstances. Excellent communication is absolutely necessary to maintain up-to-date information among cooperators to maximize the ability to upgrade the work plan to reflect these constantly changing conditions.
- There were a number of changes in the program that made coordination more difficult. In general, communication and scheduling between WCC crews, Forest Service personnel and Weed Boards was not as good as in previous years and probably resulted in mutual frustration and dissatisfaction. Better planning and coordination will be needed in the future.
- Crews should return to a running log of roads surveyed; null surveys would provide useful information.
- It is exceedingly difficult for centralized Forest Service personnel to be in the field as often as necessary. This issue needs to be recognized and addressed.

Future Direction of the Project:

In the final year of guaranteed funding under Title II, this project should focus on treatment. Weed Board staff has extensive knowledge of everything from project history and infestation locations to weed identification and best treatment methods. However, the Clallam County Noxious Weed Control Program is not equipped to carry on large-scale treatment operations, and the expertise of the Weed Board staff would be most efficiently used in other ways. Ideally, this staff is best suited to identify and control new or small infestations, while serving as advisors and/or supervisors for other contractors, such as the WCC or the OCC, that are necessary to tackle larger control projects. Paperwork must be kept to a minimum to maximize the amount of time crews can spend performing control work, while still providing adequate records. We strongly urge the Forest Service to take advantage of weed board input as it ramps up the scale of weed control projects.

Specific recommendations are listed below.

Program Development

- The current lack of funding beyond 2008 will make effective long-term control difficult in most areas. Stable weed control funding needs to be secured.
- Control crews must be thoroughly trained and their work monitored. High staff turn-over makes this task very difficult in the course of the short field season. Funding limitations additionally abbreviate staff positions. Increased funding could provide both improved year-to-year continuity and an improved weed control program in Jefferson County lands that are adjacent and directly connected to the Olympic National Forest.
- Before Title II has expired, the Forest Service should consider implementing alternative long-term partnerships with local weed boards to utilize their expertise in the weed control arena.
- Communication and cooperation with other agencies and partners is vital. Only excellent communication between this project and the Forest Service will allow enough project flexibility to be responsive to Forest Service requests and priorities.
- It is important that an agency-wide commitment be made to a noxious weed control and prevention program, and that this commitment be communicated agency-wide.

Treatment and Survey

- The large size of the project area and remoteness of many sites necessitates that field crews be fully trained and equipped at all times to perform survey and both mechanical and chemical treatments. WCC crews may need to improve skills in plant recognition and gain more experience with chemical treatment. Crew leaders must be required to hold an applicator's license.
- As the project focuses more and more on treatment it will become necessary to return to all roads at some point both to check on the efficacy of treatments and to search for new infestations. This could be best accomplished under this project by dividing the Forest into four sections and conducting two complete surveys of one section each year, once in early or mid summer, the second later in the season. This would be the most efficient way to set aside the necessary field time for early detection and rapid response while focusing primarily on treating known sites forest-wide. Surveys may be conducted in conjunction with treatment as appropriate.
- Widely dispersed treatments that do not remove all invasive species from a given location are an excellent measure to prevent less common species from spreading, but make completion of any specific area very difficult. In addition to ongoing forest-wide treatment, this problem can be addressed by selecting a single road or area in which all noxious weeds of all species will be removed. This area could then be expanded from one year to the next, gradually accomplishing a much larger task.

Documentation

- **A simple reporting procedure** for treatment is essential to allow project goals to be achieved. Consistency in reporting procedures is imperative if work accomplished in different years is to be compared. Furthermore, a comprehensive table detailing treatments at specific sites or roads over the years would be extremely instructive and useful.

Treatment Recommendations:

With the imminent completion of the Olympic National Forest EIS, chemical control of invasive species will become available in many areas. This will allow effective treatment of many larger sites and certain weed species that do not lend themselves to non-chemical methods. While

this project will continue to consider all treatment options in all cases, the most effective treatments for a small Clallam County Noxious Weed Control Board crew will likely utilize herbicides on a regular basis. With this in mind, specific and ongoing recommendations are detailed below.

- Early detection and prevention must be emphasized. This allows for the greatest number of control options to be considered. More agency personnel as well as visitors need to learn to identify and report invasive plants to facilitate this effort.
- Rock sources that contain noxious weeds should be treated before being utilized.
- Both substantial initial treatment efforts and **sustained follow-up** are necessary for successful control of noxious weed infestations. Not only is it necessary to continue treatments year after year, but multiple treatments to the same site during a single growing season provides substantially improved weed control.
- In many cases, the overwhelming size of invasive plant infestations needs to be reduced before manual and mechanical methods become feasible. For example, the size of herb Robert infestations often makes manual control impractical, and treatment with an herbicide may be necessary.
- For species with a particularly large or rhizomatous root system (knotweeds, Canada thistle, reed canarygrass, everlasting peavine, etc.) manual control is impractical if not impossible. Herbicide will be necessary to control these species in the long run.
- Restoration or specific future management goals should be part of all control plans.
- Specific arrangements for disposal of plants removed during manual treatment need to be completed and communicated throughout and between all agencies involved prior to the start of manual control work.
- Certain forest maintenance tasks create noxious weed contaminated waste that should be documented and monitored.
- Ongoing monitoring of treatment work, as well as repeat surveys of previously uninfested areas will be essential as the project focuses more and more on treatment.
- The work plan must be re-evaluated as herbicides become more of an option.
- Close attentionshould be paid to previous lists, treatments and results.

2008 Work Plan Recommendations:
In light of new ability to utilize herbicides, a planning meeting should be held to discuss the possibility of re-prioritizing weed sites and incorporating the resulting list into a workable plan. This meeting should be conducted well in advance of the treatment season, and coordinated between the Forest Service, the Weed Board, and other significant cooperators. The meeting should focus on a decision making process for establishing priorities that make sense in the field. Weed boards will have valuable insight into a sensible strategy that meets the needs of the Forest Service.

However, until such a meeting takes place, a preliminary list of sites to treat in 2008 is presented in Appendix F. Appendix F shows treatment sites that were chosen, then prioritized based on the number of times they fell into certain categories. Although this table gives an indication of the relative importance of treatment at each site, it cannot include all of the necessary parameters that must be considered when planning for actual treatment. This list does not, for example, take into account weed species, elevation, size of site, or ease of access. Field personnel must consider these and other factors as they select sites during the treatment season. In addition to the prioritized list, the weed board will provide at the spring meeting an additional list of recommended sites that should receive first priority for control in 2008, as time and resources allow: The categories in the list are described below.

- **2007 Forest Service priorities**
- **County requirements and priorities (see Appendix K for the Washington State Weed List)**
- **Sites treated under this project in previous years (2002-05)**

Rationale– Continuing control work begun in prior years is essential.

- **New (2005-2007) Infestation**

Rationale– Control work is essential at new sites where infestations are not yet well established

- **Trailheads and Campgrounds**

Rationale – High use areas, particularly trailheads and campgrounds, are important because seeds hitchhiking on clothing, vehicles, stock, etc. are likely to establish at and spread from these locations.

- **Sites listed for chemical control in the 1998 Olympic National Forest Invasive Plant Environmental Assessment**
- **Sites listed as priorities for WCC, OCC or chain gang work**
- **National Forest Service Botanical Areas**

Rationale – Botanical Areas are intended to be reserves of rare, native flora and habitats; invasives should be removed whenever possible.

- **Rock Sources**

Rationale – One of the major sources of new weed infestations is new construction, especially from seeds and plant fragments in gravel, so all previously documented weed sites in rock sources are considered for treatment.

- **Roads scheduled to be decommissioned**

Rationale – Road decommissioning and subsequent regrowth of the forest canopy may in itself eradicate infestations of some weed species, but others, most notably herb Robert, knotweeds, English ivy, English holly, and English laurel, may persist and be made nearly inaccessible to future treatment if not dealt with prior to decommissioning.

- **Action taken in 2006**
- **Action taken in 2007**

Rationale –– Continuing control work begun in prior years is essential

- ****Additional consideration is given to sites harboring weeds that are relatively uncommon in the forest**

Rationale – This project must continue to operate with early detection and rapid response as the most efficient weed control strategy. Weeds that are not widely distributed should be targeted for control or removal whenever possible. Although the project will focus almost entirely on treatment of known sites rather than additional survey, treatment of sites newly discovered in 2007 that can be easily controlled will often take precedence over sites listed in Appendix F.

Note that the list in Appendix F is not exhaustive. There are other sites in the database that should not be overlooked. In addition, all areas must be monitored for new infestations so that these can be targeted first and foremost to prevent establishment.

Specific treatment recommendations for each species encountered are given in Appendix H. General recommendations based on plant lifecycle are listed below.

- Annuals like herb Robert, particularly at campgrounds, should be treated as early in the season as possible. With herb Robert in particular it will almost certainly be necessary to repeat treatments within the season, though if seed set is prevented each time the size of the infestation can be greatly reduced with each treatment effort.
- Early blooming perennials, such as orange and yellow hawkweed should be treated as soon as possible as well.

- Biennials like tansy ragwort are often difficult to treat effectively with either chemical or manual treatment alone; once plants have bolted it may be most effective to pull and deadhead flowering stalks, though first year rosettes may be easier to treat chemically.
- Scotch broom and other woody shrubs can be most effectively pulled early in the season before seed set and while the ground is damp; herbicide treatments will be most effective later in the summer.
- Later blooming perennials like reed canarygrass, Canada thistle, everlasting peavine, knotweeds, knapweeds, common tansy and common toadflax may be effectively treated from midsummer until fall, depending on the specific species and the location (altitude, aspect, etc).

2007 Protocols

1. Team and Project Dates

This year's project focused almost entirely on treatment rather than survey. Cathy Lucero (coordinator), control specialist Ross McDorman, and field technician Erin Moilanen performed treatments and collected data. Fieldwork began in May 2007 and continued through early September.

2. Invasive Species Recorded

Treatment and surveys focused on Class A and B-designate weeds on the Washington State Noxious Weed List (see Appendix K). In most cases Class B non-designate, Class C, and unlisted non-native weeds were only documented when an infestation was in a site of particular concern (e.g. a Botanical Area) or when the infestation was of notable size. Exceptions were made for especially invasive species, such as herb Robert or knotweeds, which can threaten undisturbed areas. These species were always recorded, and controlled whenever feasible. Forest Service staff directed the project toward additional species of concern as necessary. See Appendix J for a complete listing of species recorded from 2002 to 2007. Treatment and surveys were not intended to target all non-native species.

3. Road Survey and Treatment (see Appendix A):

The project focus was on treatment of known infestations, especially at sites that had received treatment in the past. Survey and/or location of new infested sites was a secondary priority. However, survey was carried out while en route to planned control sites or as requested by the Forest Service.

a. Roads were generally "windshield" surveyed, i.e. roadsides were scanned for weeds while driving.
b. Trailheads, campground parking areas, and gravel pits were surveyed on foot whenever found.
c. Typically, 10 feet on both sides of each road was surveyed. The distance surveyed was recorded in the field and the area surveyed was calculated using the following formula.

$$\frac{\text{miles surveyed} \times 5280 \text{ ft/mi} \times 10 \text{ ft/roadside} \times 2 \text{ roadsides/survey}}{43560 \text{ ft}^2\text{/acre}}$$

d. Note that distances and areas surveyed are cumulative. Prior to 2007, two surveys on the same road on separate days were recorded twice. This is justified because many plants are only visible on a windshield survey at a specific time of year. Miles surveyed in 2007 were estimated from treatment sites (recorded on FACTS forms) and roads taken to get to those treatment sites.
e. Weed sites were combined whenever possible to cut down on the number sites entered, thereby increasing the amount of time available for fieldwork. Patches of the same species on the same road that were separated by less than 0.5 mi were recorded as a single site (with a low cover class).
f. Whenever possible, small weed infestations were treated manually when found.
    i. Treated area for manual sites was calculated as infested area × percent cover class, with a minimum of 0.1 acres recorded for any treatment site, as

constrained by NRIS Terra and FACTS requirements. Thus the area treated reported is likely artificially inflated.

g. Where allowed and deemed to be safe, effective, and efficient, herbicide treatments were applied.
    i. Areas less than or equal to 0.1 acre were reported as 0.1 acre. Because most sites selected for herbicide treatment had large infestations of invasives, the artificial inflation of area treated was minimal in this case.
    ii. No measurement of the number of plants treated was made, thereby making any comparison to accomplishments of previous years difficult. This data was not required and was not collected in favor of accomplishing more treatment.
    iii. All foliar herbicide applications were made using 1.5% Aqua Neat (glyphosate) and 0.375% Agri-dex (surfactant), except when targeting woody brush or knotweed species, where 5-8% Aqua Neat and 1.5% Agri-dex was used. Cut-stump applications for woody shrubs and trees used 100% Aqua Neat.
    iv. A legal notice listing all sites under consideration for herbicide treatment (see Appendix E) was published in the Peninsula Daily News on 7-26-2007, more than 1 week before any herbicide applications. Herbicide applications were carried out between 8/06/07 and 9/25/07.
    v. On-site postings (see Appendix E) were in place at least 24 hours before and after herbicide application, and at least 1 week prior to application in high-use areas like campgrounds and trailheads.

4. Data Collection

In the field, weed site data for new sites that were not controlled were recorded on a modified Olympic NF Invasive Plant Inventory Data Collection Form (see Appendix L). Minor modifications to this form allowed for collection of <u>county</u> noxious weed data as well as Forest Service data. The specifics of data entry for the form are described below.

Olympic NF Invasive Plant Inventory Data Collection Form (see Appendix L)

a. Site ID field (30 characters) contains the concatenation of the following:

Year	YYYY
Month	MM
Day	DD
Township	TT
Range	RR
Section	SS
Qtr. Section	QQ
Road ID	XXXXXXX (all 7 characters required, fill with zeros (0) or spaces)
Weed Code	CCCCCCC (typically 4-5 characters, leave extra space blank for codes less than 7 characters)
Complete Site ID	YYYYMMDDTTRRSSQQXXXXXXXCCCCCCC
Example Site ID	20050917241001SE2170000CIVU

    i. The Road ID for trails surveyed is a “T” and the trail number (fill to 7 characters with spaces), e.g: T823□□□.
    ii. The Road ID for botanical areas (BA) surveyed is the abbreviated name of the BA, e.g: South Fork Calawah River Botanical Area = SFCRBA.

iii. Road IDs for non Forest Service roads were denoted by a two-letter prefix and the road number. County road numbers were preceded by "CR" and state highway routes received the prefix "SR".
iv. In the case of identical Site IDs (e.g. two (or more) separate sites of the same weed found on the same day, on the same road, and in the same quarter quarter section), the second or subsequent site simply received an additional number (second site gets 2, third gets 3, etc.) at the end of the original Site ID in the first available open weed code character space (e.g. 20060701281118NW2923000CEJA and 20060701281118NW2923000CEJA2).
v. Prior to 2007, revisits were entered into Rangeland PC with the **original Site ID**. All other information (e.g. date in the date field, not the date embedded in the Site ID) is entered based on the actual revisit. No revisits were recorded in 2007; FACTS forms were used instead.

b. Locational information was primarily recorded as road number and milepost (typically recorded to the nearest 0.05 mi. as estimated from the vehicle trip odometer). The legal description of township, range, section, quarter section, and quarter quarter section was then determined based on road and milepost and either a GIS database or a Forest Service brown line map. Milepost numbers and any additional useful on-the-ground information (e.g. at turnout) were recorded under site comments.
c. Location at site, site address, owner information, parcel number, site ID, database record number, and contact information were intended for county sites and were not recorded at Forest Service sites.
d. Aspect and slope were not recorded. Elevation was estimated from GIS or brown line maps.
e. Dominant plant life form type was selected from the list; dominant species were considered optional.
f. Site comments included locational information (e.g. milepost) and/or directions to the site.
g. Phenology, life form, and distribution were selected from the lists.
h. Infested area was always noted with a minimum size of 0.1 acres (due to NRIS Terra and FACTS constraints). Gross area was only recorded for very large sites with low cover class and/or scattered patchy distribution. Infested area, cover class, and distribution were sufficient to characterize most sites. Note that the definitions of infested and gross area vary slightly from those used in previous years.
    i. *Infested Area* was defined as the sum of the areas of all separate patches of the weed (not including the area between patches; including the space between plants within a single patch of low cover class) within one site.
    ii. *Gross Area* was defined as the total area of a box (polygon or circle) circumscribed about all of the separate patches of a weed within one site. It is effectively equal to infested area plus the total area between individual patches.
i. Daubenmire cover class was selected from the list based on a visual estimate of weed canopy cover within the *infested* area.
j. Distance to water was estimated visually if water was near enough to be a significant factor. This field was left blank for most upland sites that were far removed from water.
k. Associated species were included only if they stood out for any reason.
l. Treatment actions taken were recorded on FACTS forms.

Forest Inventory Tracking Sheet (FACTS)—Manual
The Forest Activity Tracking Sheets (FACTS) forms, which were introduced in 2006, became a requirement in 2007 for all treatment sites. One form was supplied for manual treatment and one for chemical treatment. A sample manual treatment form and instructions for filling it out, as supplied by USFS are in Appendix L.

Forest Inventory Tracking Sheet (FACTS)—Chemical
The FACTS chemical treatment form took the place of the Department of Agriculture Pesticide Forms that were used in 2006. A sample chemical treatment form and instructions for filling it out, as supplied by USFS are in Appendix L.

Rock Source Inspections
Four quarries were inspected and forms submitted to the FS. A sample form is in Appendix L. Weed treatment was performed in other quarries both on and off of FS land. Details are given in Appendix D

5. RangelandPC Data Entry for NRIS Terra Database:

a. All site data collected were to be entered into RangelandPC files and submitted to Forest Service staff for upload to the NRIS Terra database. The exceptions were data collected for pits that contained no weeds or only low priority non-native species; these data were not entered into RangelandPC.
b. The NRIS Terra database allows a minimum entry of 0.1 acres in the Infested Area field. Since many sites were well under 0.1 acres, the total infested area for the project reported to NRIS Terra is likely artificially inflated somewhat above the actual infested area found.
c. Site revisits, records of weeds found at previously recorded sites, were entered into separate RangelandPC files than new sites. Revisits were entered using the original Site ID, but the actual date of the revisit was entered into the Date Found field.
d. New sites were also recorded into a separate spreadsheet that included Site ID, road number, and beginning and ending milepost numbers. This spreadsheet was submitted separately to Forest Service GIS staff so that the Forest Service invasive plants coverage could be updated and linked to all available NRIS Terra data.

6. Arc View Plotting:

Weed sites were mapped in ArcView GIS on a laptop computer so that a real-time map was available to the field crew throughout the season. The shape files produced for this map are retained by the Clallam County Noxious Weed Control Board for use in future fieldwork as necessary. These files are not submitted to the Forest Service because a Forest Service GIS analyst must construct a GIS coverage that coincides with other Forest Service database materials.

a. Sites were plotted as points for individual sites. Where practical, multiple sites on a road of the same species were turned into a linear polygon. Each point or polygon was identified with its Site ID.
b. There is a separate layer (shape file) for each weed species.
c. Polygons were drawn on a separate layer – one layer for each species.
d. Point and polygon layers were joined with the database (table) from the NRIS TERRA system.
e. Two new layers were added—one of roads surveyed and one of sites where control work was done. Maps are presented on pages 6 to 13. Two maps are shown for each section—one showing weed sites recorded over the years and one showing roads surveyed and areas treated in 2007.

7. Data Reporting

All FACTS forms and Rock Source Surveys forms were submitted to the Forest Service at the end of the field season for entry into the NRIS database. Additional field data was collected during the season which cannot be effectively uploaded to the NRIS database and is included in this report, as described below. Copies of FACTS forms have been retained in the Clallam County Weed Board office.

a. A master list of the roads surveyed and treated over the course of this project is shown in Appendix A. This list shows the amount of survey completed on each road, and totals for each year, as well as the number of weeds pulled manually for each year up to 2006. It also lists the area of treatment, by road, completed in 2007, and weed species treated.
b. A list of all sites treated in 2007, with acreage, date and species controlled, is shown in Appendix B. This is based on the list supplied by the Forest Service at the start of the season, and is a comprehensive account of work accomplished in 2007.
c. The 2006 prioritized site list has been updated to show treatment that occurred in 2007. It shows all sites that were considered for treatment at the beginning of 2006 and notes what treatment was completed at each site, in 2006 and 2007. (Appendix C)
d. A summary of the rock source inspections and treatments is shown in Appendix D.
e. Appendix F is a prioritized list of weed sites for consideration in 2008. Prioritization is based on the number of priority categories into which the site fell. These priorities give an indication of the relative importance of the site, though other factors like size of site, species present, time of year, elevation, etc, must also be considered before beginning treatment at a given site.
f. A preliminary list of sites to consider for future OCC work is given in Appendix G.
g. Control recommendations for each invasive species identified during the course of this project are given in Appendix H.
h. Appendix I is a summary of weed control work performed by the Clallam County Sheriff's Chain Gang during the 2007 season.
i. All weed species reported and entered into the NRIS Terra database during the course of this project are listed in Appendix J.
j. The Washington State Noxious Weed List is updated annually in the WAC Chapter 16-750. Appendix K shows the 2007 State Weed List. Under RCW Chapter 17.10 all non-federal landowners in the state are responsible for controlling or eradicating any listed noxious weeds on their property. This same law provides for the formation of the County Noxious Weed Control Boards, and thus the weed control program in Jefferson County that is administered under this project. Federal agencies are required to work with local agencies to meet or match local weed control standards under the Federal Noxious Weed Act amended in 1994.
k. All forms used in the project are shown in Appendix L

Appendix A: Roads Surveyed/Treated

The following table shows survey and treatment work for each year since the initiation of the project in 2002, as well as totals for the entire project. The numbers of weeds pulled and areas treated below include work carried out by the Weed Board crews, WCC crews, and the Clallam County Sheriff's Department Chain Gang. There is no differentiation between crews for 2002-05 work. However, for 2006, all work carried out by Weed Board staff is in plain text, Chain Gang work is in italics, and work on the same plants along the same road carried out by both crews is in bold. Since area of treatment was not required for reporting in the past, it is only listed for 2006and 2007. Further, since Chain Gang work was only reported as number of weeds pulled, area of treatments has been estimated at 0.1 acre per 1000 weeds, rounded up.

Project accomplishments are directly tied to project funding which has varied since its inception. Additionally, the project focus has shifted each year as the program has matured. The specific focus for each year is listed below.

- 2002: Weed Board staff familiarization with the Olympic National Forest road system. Begin learning which noxious weeds threatened the health of the forest. Begin the formal survey of the Pacific and Hood Canal districts, learn documentation and mapping processes, and begin control efforts.
- 2003: Survey as many roads as possible and document findings. Continue control efforts. Roads in Mason and Grays Harbor Counties (numbered 2500000 or lower) were surveyed as part of a Botanical Areas survey.
- 2004: Survey any roads not previously completed, monitor prior control sites, and perform as much new control work as possible.
- 2005: Increase the amount of control work preformed and continue to monitor prior control sites, repeating treatments as necessary.
- 2006: Focus primarily on control work, especially herbicide applications on selected sites. Also survey and treat as many rock sources as possible. Continue monitoring prior control sites and repeating treatments as necessary.
- 2007: Focus primarily on control work, including herbicide applications on selected sites. Continue monitoring prior sites and repeating treatments as necessary. Survey and remove small infestations en route to treatment sites.

For definitions for the Forest Service weed species plant codes, see Appendix J.

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
SR101	3		3.00	0	-			-		1.00	-	HIAC10 GERO	1.00	4	0.10	SEJA	1.0	0.68	POBO10 POSA4 CYSC4
CR5695	4	8,499	4.98	3.32	8,499	SEJA CIAR4 CYSC4	1.66	-			-		-	-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
CR5331	2	-	10.24	0									8.24	-	-		2.0	1.03	GERO CEDE5 SEJA
CR3057	1	-	1.90	0									1.90	3	0.10	SEJA	0	0	
CR3039	1	4,800	1.10	0	4,800	GERO		-			-		1.10	159	0.10	SEJA, CYSC4, GERO	0	0	
CR2515	1		0.40	0									0.40	-	-		0	0	
CR2500	4	35,074	25.05	15.7	35,074	GERO CYSC4	7.85	-			-		1.50	-	-		0	0	
CR2274	1	-	3.70	0									3.70	-	-		0	0	
CR2071	1	-	1.80	0									1.80	15	0.20	SEJA	0	0	
CR2065	3	22,049	8.52	0.01	5,564	CYSC4		-		4.4	16,485	CYSC4 SEJA GERO	4.11	-	-		0	0	
3116000	2	-	10.00	10.0	-			-			-			-	-		0	0	
3100420	1	-	0.60	0.6	-			-			-			-	-		0	0	
3100400	1	-	2.90	2.9	-			-			-			-	-		0	0	
3100300	1	-	5.00	5.0	-			-			-			-	-		0	0	
3071015	1	-	0.60	0.6	-			-			-			-	-		0	0	
3071000	2	60	1.20	1.2	60	CYSC4		-			-			-	-		0	0	
3071000	2	-	3.40	3.4	-			-			-			-	-		0	0	
3068200	3	815	7.20	2.4	-		2.4	80	CYSC4	2.4	735	CYSC4		-	-		0	0	
3068190	2	-	0.40	0.4	-			-			-			-	-		0	0	
3068000	4	30	3.20	0.8	-		0.8	-		0.8	30	SEJA		-	-		0.8	0.1	CYSC4

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
3068000	3	491	29.10	9.7	86	SEJA	9.7	250	CYSC4 SEJA	9.7	155	CEJA SEJA		-	-		0	0	
3067000	1	1,402	3.53	3.53	1,402	SEJA CYSC4		-			-			-	-		0	0	
3050011	1	-	1.50	1.5	-			-			-			-	-		0	0	
3050000	1	2	3.80	3.8	2	SEJA		-			-			-	-		0	0	
3040900	1	-	0.50	0.5	-			-			-			-	-		0	0	
3040800	2	54,709	0.55	0.1	-			-			54,709	POCU6 GERO	0.45	-	1.85	POCU6, ARMI2, GERO, ILAQ80	0	0	
3040595	2	370	1.00	0.5	370	CIVU	0.5	-			-			-	-		0	0	
3040595	2	3	3.00	1.5	-		1.5	3	SEJA		-			-	-		0	0	
3040200	1		0.02	0									0.02	-	-		0	0	
3040115	2	-	1.20	0.7	-			-			-		0.50	95	0.10	GERO	0	0	
3040100	2	-	4.10	0.5	-			-			-		2.30	8	0.30	SEJA, CYSC4	2.3	0	
3040100	1	-	1.80	1.8	-			-			-			-	-		0	0	
3040025	3	1	0.50	0.2	-			-		0.2	1	RUDI2	0.10	-	-		0	0	
3040012	1		0.31	0									0.31	2	0.10	CYSC4	0	0	
3040011	2	-	0.77	0.7	-			-			-		0.07	-	-		0	0	
3040 st 15888	1		0.12	0									0.12	-	-		0	0	
3040 st 17000	1		0.02	0									0.02	-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
3040000	5	-	57.10	11.0	-		5.5	-			-		22.60	255	1.30	CYSC4, SEJA	18.0	8.4	SEJA CYSC4 GERO ARMI2 CIVU ILAQ80 LALA4 PHAR3 POBP10
3040000	3	-	25.50	17.0	-		8.5	-			-			-	-		0	0	
3040000	4	35,136	28.80	14.4	3,877	SEJA CYSC4 GERO	7.2	30,519	CYSC4 SEJA GERO	7.2	740	GERO SEJA		-	-		0	0	
30-200	1		16.00	0													16.0	16.55	GERO LALA4 CIVU
30-250	1		7.60	0													7.6	2.66	
3006300	1	-	4.10	4.1	-			-			-			-	-		0	0	
3006011	1	-	1.20	1.2	-			-			-			-	-		0	0	
3006000	1	-	7.80	7.8	-			-			-			-	-		0	0	
3000401	1	-	1.00	1.0	-			-			-			-	-		0	0	
3000400	1	-	2.20	2.2	-			-			-			-	-		0	0	
3000400	1	-	2.30	2.3	-			-			-			-	-		0	0	
3000395	1	-	0.20	0.2	-			-			-			-	-		0	0	
3000300	1	-	3.50	3.5	-			-			-			-	-		0	0	
3000260	1	-	0.70	0.7	-			-			-			-	-		0	0	
3000250	2	-	9.45	3.9	-			-			-		5.55	10	1.20	CYSC4	0	0	
3000220	1	-	2.80	2.8	-			-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
3000215	2	-	3.60	0.6	-			-			-		3.00	-	-		0	0	
3000200	2	-	3.00	3.0	-			-			-			-	-		0	0	
3000200	3	-	32.67	6.0	-			-			-		26.67	6	0.20	SEJA	0	0	
3000200	2	-	7.00	7.0	-			-			-			-	-		0	0	
3000011	1	-	0.70	0.7	-			-			-			-	-		0	0	
3000000	3	-	35.21	2.86	-			-			-		32.35	553	1.00	CYSC4	0	0	
3000000	3	14,745	22.50	15.0	2,743	CYSC4	7.5	12,000	GERO RULA CYSC4		2	SEJA		-	-		0	0	
3000000	3	867,800	33.90	22.6	-		11.3	867,800	CYSC4 GERO CIVU		-			-	-		0	0	
2978085	2	-	1.10	0	-		1.1	-			-			-	-		0	0	
2978040	2	-	0.30	0	-		0.3	-			-			-	-		0	0	
2978035	2	-	0.10	0	-		0.1	-			-			-	-		0	0	
2978030	2	-	0.60	0	-		0.6	-			-			-	-		0	0	
2978030	2	-	0.70	0	-		0.7	-			-			-	-		0	0	
2978025	2	-	0.30	0	-		0.3	-			-			-	-		0	0	
2978025	2	-	0.80	0	-		0.8	-			-			-	-		0	0	
2978015	2	18	1.60	0	-		1.6	18	CYSC4		-			-	-		0	0	
2978011	2	-	0.40	0	-		0.4	-			-			-	-		0	0	
2978000	2	3,604	4.70	0	-		4.7	3,604	CYSC4 SEJA		-			-	-		0	0	
2932070	1	12	0.90	0.9	12	CYSC4		-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2932050	1	-	0.30	0.3	-			-			-			-	-		0	0	
2932040	1	-	0.40	0.4	-			-			-			-	-		0	0	
2932035	1	-	0.20	0.2	-			-			-			-	-		0	0	
2932031	1	-	0.50	0.5	-			-			-			-	-		0	0	
2932030	2	-	1.40	1.3	-			-			-		0.10	-	-		0	0	
2932000	4	1,970	17.80	7.6	20	LEVU CYSC4	3.8	1,950	CYSC4		-		3.20	143	0.30	CYSC4	3.2	0	
2931200	1	-	2.50	2.5	-			-			-			-	-		0	0	
2931190	1	-	1.70	1.7	-			-			-			-	-		0	0	
2931000	1	1	11.90	11.9	1	SEJA		-			-			-	-		0	0	
2929070	2	525	5.80	0	-		2.9	525	GERO RULA CYSC4		-			-	-		2.9	0	
2929000	2	-	4.40	0	-		2.2	-			-			-	-		2.2	0	
2929000	2	-	6.20	0	-		3.1	-			-			-	-		3.1	0	
2929000	2	-	8.80	0	-		4.4	-			-			-	-		4.4	0	
2923100	1		0.20	0									0.20	-	-		0	0	
2923077	1		15.60	0													15.6	2.15	CYSC4 SEJA
2923070	2	2	11.60	5.2	2	SEJA		-			-			-	-		6.4	8	CIVU HYPE GERO SEJA CYSC4
2923060	1		0.80	0									0.80	-	-		0	0	
2923000	3	106	54.84	13.7	83	SEJA CIAR4 HIAU	13.7	23	CYSC4		-		**13.74**	**1,328**	**0.50**	**SEJA, CYSC4**	13.7	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2922000	2	-	25.20	12.6	-			-			-			-	-		12.6	0.1	GERO
2920210	1	-	0.20	0.2	-			-			-			-	-		0	0	
2920020	1	-	1.40	1.4	-			-			-			-	-		0	0	
2920000	1	-	1.40	1.4	-			-			-			-	-		0	0	
2920000	1	-	1.80	1.8	-			-			-			-	-		0	0	
2920000	1	-	5.70	5.7	-			-			-			-	-		0	0	
2918110	1	-	0.80	0.8	-			-			-			-	-		0	0	
2918100	1	-	3.30	3.3	-			-			-			-	-		0	0	
2918000	1	-	9.00	9.0	-			-			-			-	-		0	0	
2918000	2	2,315	11.00	11.0	765	SEJA CYSC4		-			1,550	CYSC4 SEJA		-	-		0	0	
2912060	2	3	2.80	0	-		2.8	3	SEJA		-			-	-		0	0	
2903000	1	78	6.80	6.8	78	SEJA CYSC4		-			-			-	-		0	0	
2902375	1	-	0.80	0.8	-			-			-			-	-		0		
2902300	1	-	0.60	0.6	-			-			-			-	-		0	0	
2902000	3	2,500	1.11	0	-		1.1	2,500	CYSC4		-		*0.01*	*1,627*	*0.20*	*CYSC4*	0	0	
2902000	1	48	1.80	1.8	48	SEJA CYSC4		-			-			-	-		0	0	
2902000	1	-	2.50	2.5	-			-			-			-	-		0	0	
2900990	2	5,300	2.40	1.2	5,050	CYSC4	1.2	250	GERO		-			-	-		0	0	
2900950	1	-	0.10	0.1	-			-			-			-	-		0	0	
2900650	1	-	1.20	1.2	-			-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
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2900540	1	-	2.00	2.0	-			-			-			-	-		0	0	
2900200	2	54	0.70	0	-			-		0.7	54	SEJA CYSC4		-	-		0	0	
2900070	1	-	0.40	0.4	-			-			-			-	-		0	0	
2900070	1	-	2.30	2.3	-			-			-			-	-		0	0	
2900015	2	-	0.3	0.1	-			-			-			-	-		0.2	4	CYSC4
2900000	3	-	12.60	3.4	-			-			-		4.60	420	0.30	SEJA, GERO, HIAU	4.6	0.2	HIAU SEJA
2900000	3	-	4.21	3.7	-			-			-		*0.01*	*15, 253*	*2.00*	*CYSC4, SEJA*	0.5	0.1	SEJA
2900000	1	1,074	13.90	13.9	-			-			1,074	CYSC4 GERO		-	-		0	0	
2900000	2	595,386	22.60	11.3	170	HIAU	11.3	11,700	CYSC4 HIAU GERO		583,516	HIAU GERO SEJA		-	-		0	0	
2900000	4	52,092	24.00	12.0	35,692	POSA4 CYSC4 SEJA CIAR4	6	14,775	SEJA CYSC4 GERO	6	1,625	SEJA CYSC4		-	-		0	0	
2880050	5	247,264	0.60	0.1	1,860	GERO	0.1	3,900	GERO	0.1	241,504	GERO	0.30	7,740	0.50	GERO	0	0	
2880000	5	8,700	22.65	1.81	2,100	GERO	1.81	6,600	SEJA		-		13.02	1,223	0.30	GERO	4.2	4.0	CEDE5 SEJA
2878123	2	-	0.40	0.2	-			-			-			-	-		0.2	0	
2878120	2	2,170	2.10	1.05	2,170	CYSC4		-			-			-	-		1.05	0	
2878110	1	-	0.90	0.9	-			-			-			-	-		0	0	
2878109	1	-	0.27	0.27	-			-			-			-	-		0	0	
2878108	1	-	0.13	0.13	-			-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
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2878102	1	-	0.40	0.4	-			-			-			-	-		0	0	
2878100	1	-	1.59	1.59	-			-			-			-	-		0	0	
2878085	1	-	0.90	0.9	-			-			-			-	-		0	0	
2878080	1	-	1.40	1.4	-			-			-			-	-		0	0	
2878060	1	127	0.40	0.4	127	CYSC4		-			-			-	-		0	0	
2878050	1	-	0.60	0.6	-			-			-			-	-		0	0	
2878000	3	1,344	8.13	4.06	1,340	CYSC4		-			4	CYSC4	*0.01*	*1,627*	*0.20*	*CYSC4*	4.06	0	
2877100	1	-	0.30	0.3	-			-			-			-	-		0	0	
2877052	1	-	0.29	0.29	-			-			-			-	-		0	0	
2877050	1	-	1.00	1.0	-			-			-			-	-		0	0	
2877050	1	-	1.65	1.65	-			-			-			-	-		0	0	
2877040	1	-	0.51	0.51	-			-			-			-	-		0	0	
2877040	1	-	0.78	0.78	-			-			-			-	-		0	0	
2877000	1	-	4.60	4.6	-			-			-			-	-		0	0	
2875090	1	-	0.10	0.1	-			-			-			-	-		0	0	
2875070	2	-	2.60	2	-			-			-		0.60	-	-		0	0	
2875020	1	6	0.50	0.5	6	CYSC4		-			-			-	-		0	0	
2875000	3	-	14.1	2.3	-			-			-		5.90	238	0.40	CEJA	5.9	5	CEDE5
2875000	2	30	9.4	3.6	30	CEJA		-			-			-	-		5.8	1.5	CEDE5

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2870270	2		3.50	0									3.50	-	0.28	CIAR4, CIVU	0	3.2	CIVU CEDE5 SEJA HYPE
2870250	1			0													0	1.5	CEDE5 CEBI2
2870230	4	18	3.97	0						1.41	18	SEJA	2.56	20	0.30	CIAR4, CIVU, HYPE	0	0.4	CIVU CIAR4 GERO
2870150	1		0.60	0									0.60	-	-		0	0	
2870130	1		0.70	0									0.70	1	0.10	CYSC4	0	0	
2870110	1	729	0.30	0.3	729	CYSC4		-			-			-	-		0	0	
2870059	5	19,529	3.36	0.96	-		0.48	20	CEJA	0.48	19,509	CIAR4 CIVU SEJA CEJA CYSC4 GERO	0.96	-	-		0.96	0	
2870058	4	-	6.20	0.5	-		0.5	-			-		1.60	-	2.55	GERO, CIAR4, PHAR3	3.6	5	PHAR3 CIAR4 CIVU GERO
2870057	1		2.4	0													2.4	1.5	CIAR4 CIVU HYPE
2870056	4	14	2.80	0.7	10	CEJA SEJA	0.7	4	CEJA		-		0.70	-	0.10		0.7	2.9	SEJA CIVU CEDE5 CYSC4
2870054	1		0.5	0													0.5	3	CEDE5
2870053	1		0.5	0													0.5	0.2	CEDE5

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
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2870050	5	110	18.10	2.8	16	SEJA HYPE	2.8	-		2.3	94	SEJA	7.80	-	0.80	CEJA, CYSC4, GERO, CIAR4, LALA4, CIVU	2.4	0.5	SEJA
2870030	4	78	6.80	1.7	4	CEJA CYSC4	1.7	39	SEJA CEJA	1.7	35	SEJA CEJA		-	-		1.7	2	CEDE5 SEJA
2870000	6	1,963	255.24	9.9	50	SEJA	9.9	101	SEJA CYSC4	9.9	1,812	SEJA GERO CYSC4	112.77	1,890	3.13	CEJA, SEJA, CYSC4	112.77	9.4	CIAR4 CIVU GERO SEJA HYPE LEVU CEDE5 CYSC4
2860120	1	-	1.60	1.6	-			-			-			-	-		0	0	
2860011	2	2,708	0.40	0	-			-		0.4	2,708	SEJA GERO		-	-		0	0	
2860000	4	54,000	49.45	32.3	-		16.15	50,500	GERO CIVU	1	3,500	CIVU		-	-		0	0	
2855100	2	-	2.40	1.2	-		1.2	-			-			-	-		0	0	
2855070	4	103	2.40	0.6	-		0.3	103	CEBI2 RULA	0.3	-		1.50	1,976	0.52	GERO, SEJA, CEBI2	0	0	
2855070	2	3,418	2.60	1.3	1,127	SEJA CIAR4		-		1.3	2,291	CEBI2 GERO SEJA CYSC4		-	-		0	0	
2855032	2	1	1.60	0.8	-		0.8	1	RULA		-			-	-		0	0	
2855030	2	19,200	5.40	2.7	-		2.7	19,200	SEJA		-			-	-		0	0	

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2855000	3	51,701	9.90	2.7	6,156	CEJA SEJA	2.7	45,545	CEBI2 CYSC4 CIVU GERO SEJA		-		4.50	246	0.40	SEJA	0	0	
2852150	2	25	1.29	0	-		1.29	25	CYSC4		-			-	-		0	0	
2852090	2	1,550	0.40	0.2	1,550	SEJA CIAR4	0.2	-			-			-	-		0	0	
2852000	3	45,331	5.41	2.7	5,550	SEJA CIAR4	2.7	39,781	SEJA CEJA RULA GERO		-		*0.01*	*2,274*	*0.30*	*SEJA*	0	0	
2851090	2	-	1.20	0.6	-		0.6	-			-			-	-		0	0	
2851080	2	1,660	3.20	1.6	-		1.6	1,660	TAVU CYSC4 SEJA		-			-	-		0	0	
2851000	3	4,750	8.21	4.1	-		4.1	-			4,750	SEJA	*0.01*	*5,340*	*0.60*	*SEJA*	0	0	
2850124	1	-	0.20	0.2	-			-			-			-	-		0	0	
2850120	2	-	2.81	2.8	-			-			-		*0.01*	*1,400*	*0.20*	*CYSC4*	0	0	
2850093	1	-	0.10	0.1	-			-			-			-	-		0	0	
2850090	1	-	1.02	1.02	-			-			-			-	-		0	0	
2850010	3	12	3.21	1.6	-		1.6	12	RULA		-		*0.01*	*5,340*	*0.90*	*SEJA*	0	0	
2850000	4	61,544	22.21	14.8	35,889	GERO SEJA CYSC4	7.4	10,555	SEJA GERO RULA		15,100	SEJA GERO	*0.01*	*5,790*	*0.60*	*SEJA*	0	0	
2845200	1	-	0.28	0.28	-			-			-			-	-		0	0	
2845150	1	-	0.20	0.2	-			-			-			-	-		0	0	

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2845120	2	84	3.40	1.7	84	SEJA CYSC4		-			-			-	-		1.7	1.9	CIVU SEJA CYSC4
2845090	2	12	1.00	0.5	11	SEJA	0.5	1	CYSC4		-			-	-		0	0	
2845073	1	-	0.90	0.9	-			-			-			-	-		0	0	
2845070	2	1,860	3.20	1.6	1,860	CYSC4		-			-			-	-		1.6	0	
2845040	1	160	0.30	0.3	160	SEJA		-			-			-	-		0	0	
2845000	3	5,204	9.21	4.6	5,204	SEJA		-			-		*0.01*	*7,174*	*0.70*	*SEJA*	4.6	0	
2840150	1	1	0.64	0.64	1	SEJA		-			-			-	-		0	0	
2840130	1	-	1.10	1.1	-			-			-			-	-		0	0	
2840120	1	-	0.73	0.73	-			-			-			-	-		0	0	
2840120	1	-	1.27	1.27	-			-			-			-	-		0	0	
2840084	1	-	0.25	0.25	-			-			-			-	-		0	0	
2840080	1	-	0.73	0.73	-			-			-			-	-		0	0	
2840080	1	1	0.89	0.89	1	RULA		-			-			-	-		0	0	
2840071	2	36	2.00	1.0	1	SEJA	1.0	35	BORAG		-			-	-		0	0	
2840070	2	5,753	3.54	1.77	3	SEJA	1.77	5,750	SEJA CYSC4		-			-	-		0	0	
2840034	1	-	1.44	1.44	-			-			-			-	-		0	0	
2840030	1	-	3.04	3.04	-			-			-			-	-		0	0	
2840000	3	10,010	16.20	5.4	9,085	CIAR4 SEJA CYSC4	5.4	925	SEJA		-			-	-		5.4	0	
2830034	1	-	0.33	0.33	-			-			-			-	-		0	0	

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2830032	1	-	1.00	1.0	-			-			-			-	-		0	0	
2830030	1	-	1.80	1.8	-			-			-			-	-		0	0	
2830000	2	1,250	9.90	4.95	-		4.95	1,250	CEBI2		-			-	-		0	0	
2820000	2	-	4.01	4	-			-			-		*0.01*	*2,274*	*0.20*	*SEJA*	0	0	
2810070	1	-	0.61	0.61	-			-			-			-	-		0	0	
2810000	2	10,190	8.02	8.02	10,190	SEJA CYSC4		-			-			-	-		0	0	
2800351	1		1.20	0													1.2	1.0	CEDE5 CYSC4
2800310	4	2,155	0.60	0	-		0.25	1,550	CYSC4	0.25	605	CYSC4	0.10	2,500	0.20	CYSC4	0	0	
2800290	2	1	0.30	0	-			-		0.3	1	SEJA CYSC4		-	-		0	0	
2800270	1	310	0.47	0						0.47	310	SEJA CYSC4		-	-		0	0	
2800262	1	-	0.60	0.6	-			-			-			-	-		0	0	
2800260	1	-	1.20	1.2	-			-			-			-	-		0	0	
2800250	3	7	4.60	1.1	-			-		1.1	7	SEJA	2.40	85	0.10	SEJA	0	0	
2800240	1	-	0.80	0.8	-			-			-			-	-		0	0	
2800220	1	-	1.20	1.2	-			-			-			-	-		0	0	
2800210	1	-	0.40	0.4	-			-			-			-	-		0	0	
2800145	1	-	0.30	0.3	-			-			-			-	-		0	0	
2800132	2	-	1.2	0	-			-			-		0.60	463	0.10	CEDI3, CEJA	0.6	0	
2800130	1		1.6	0													1.6	1.2	SEJA CEBI2

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2800060	1	-	1.10	1.1	-			-			-			-	-		0	0	
2800010	1	-	1.10	1.1				-			-			10	0.10		0	00	
2800000	6	60,883	119.74	29.0	17,302	SEJA CIAR4 CYSC4 GERO	14.5	7,750	CIAR4 CIVU SEJA	14.5	35,831	SEJA CEJA	**30.87**	**9,438**	**1.00**	**SEJA, CYSC4**	30.87	52.3	SEJA CIVU CIAR4 DIPU CEDE5
2750020	1	-	1.50	1.5	-			-			-			-	-		0	0	
2750000	1	-	4.90	4.9	-			-			-			-	-		0	0	
2740075	1	-	0.47	0.47	-			-			-			-	-		0	0	
2740072	3	-	1.2	0.4	-			-			-		0.40	200	0.10	CEBI2	0.4	0	
2740070	2	-	4.00	3.05	-			-			-		0.95	-	-		0	0	
2740060	3	-	11.48	5.8	-			-			-		2.84	33	0.20	CYSC4	2.84	0	
2740000	4	-	34.12	13.7	-			-			-		6.72	-	-		13.7	1.61	CYSC4 CEBI2 SEJA
2730300	2	934	1.10	1.1	834	CYSC4		-			100	CYSC4		-	-		0	0	
2730200	4	19,621	5.10	1.7	470	GERO SEJA	1.7	2,502	GERO SEJA	1.7	16,649	GERO SEJA CIVU		-	-		0	0	
2730100	3	35	0.40	0.2	5	SEJA	0.2	30	SEJA		-			-	-		0	0	
2730020	3	-	1.20	0.6	-		0.6	-			-			-	-		0	0	
2730011	1	51	0.90	0.9	51	GERO		-			-			-	-		0	0	
2730000	4	146,400	15.20	7.6	5,140	SEJA CYSC4	3.8	140,020	SEJA TAVU	3.8	1,240	SEJA		-	-		0	0	
2700330	1		1.00	0									1.00	-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2700140	1	-	1.20	1.2	-			-			-			-	-		0	0	
2700100	1	-	4.60	4.6	-			-			-			-	-		0	0	
2700090	1	-	1.99	1.99	-			-			-			-	-		0	0	
2700000	5	4,201	48.24	23.2	1	TAVU	11.6	4,200	SEJA		-		1.84	-	-		11.6	0.05	GERO
2650090	1	-	1.68	1.68	-			-			-			-	-		0	0	
2650050	2	-	0.90	0	-		0.9	-			-			-	-		0	0	
2650000	2	2	15.00	7.5	2	ARMI2	7.5	-			-			-	-		0	0	
2620056	2	24	0.76	0	-		0.76	24	CEJA		-			-	-		0	0	
2620053	2	-	1.30	0	-		1.3	-			-			-	-		0	0	
2620051	2	-	0.89	0	-		0.89	-			-			-	-		0	0	
2620050	2	-	2.80	0	-		2.8	-			-			-	-		0	0	
2620043	1	-	0.70	0.7	-			-			-			-	-		0	0	
2620030	1	-	9.70	9.7	-			-			-			-	-		0	0	
2620000	3	39,464	34.86	11.62	15,287	SEJA CIVU CYSC4 GERO	11.62	10	RULA	11.62	24,167	SEJA CYSC4 GERO CIVU		-	-		0	0	
2610200	5	3,454	8.90	3.2	804	CYSC4 SEJA HEHE	1.6	150	HEHE RUDI GERO	1.6	2,500	CYSC4	2.50	222	0.20	CYSC4	0	0	
2610040	2	3,000	0.40	0	-			-		0.4	3,000	SEJA		-	-		0	0	
2610012	1		0.85	0									0.85	397	0.20	GERO	0	0	
2610000	2	50	0.50	0	-			-		0.5	50	CYSC4		-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2610000	5	6,520	19.60	8.2	61	SEJA	4.1	2,531	GERO SEJA CYSC4 RULA	4.1	3,928	SEJA CIVU CIAR4 GERO CYSC4	3.20	2	0.10	CEJA	0	0	
2530000	2	-	5.70	5.7	-			-			-			-	-		0	0	
2527000	1	-	1.20	1.2	-			-			-			-	-		0	0	
2510070	3	1,600	1.10	0.1	1,600	GERO		-			-		1.00	-	0.82	GERO	0	0	
2510065	1		0.15	0									0.15	-	-		0	0	
2510012	1		1.10	0									1.10	-	-		0	0	
2510000	2	-	0.60	0.2	-			-			-			-	-		0.4	8	GERO HYPE CIAR4 CIVU RUDI2 RULA SEJA
2510000	2	-	34.76	1.8	-			-			-		32.96	8	0.53	CEJA, CYSC4	0	0	
2510000	1	45	4.60	4.6	45	SEJA		-			-			-	-		0	0	
2500000	1	-	0.20	0.2	-			-			-			-	-		0	0	
2500000	1	-	0.98	0.98	-			-			-			-	-		0	0	
2500000	1	-	1.20	1.2	-			-			-			-	-		0	0	
2500000	1	-	1.32	1.32	-			-			-			-	-		0	0	
2500000	1	-	1.46	1.46	-			-			-			-	-		0	0	
2500000	1	-	4.16	4.16	-			-			-			-	-		0	0	
2500000	1	-	4.54	4.54	-			-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2480000	1	-	0.91	0.91	-			-			-			-	-		0	0	
2480000	1	-	1.54	1.54	-			-			-			-	-		0	0	
2480000	1	-	5.27	5.27	-			-			-			-	-		0	0	
2471022	1	-	0.42	0.42	-			-			-			-	-		0	0	
2471020	1	-	0.88	0.88	-			-			-			-	-		0	0	
2471013	1	-	2.60	2.6	-			-			-			-	-		0	0	
2471000	1	-	0.15	0.15	-			-			-			-	-		0	0	
2471000	1	-	0.23	0.23	-			-			-			-	-		0	0	
2471000	1	-	0.70	0.7	-			-			-			-	-		0	0	
2471000	1	-	0.76	0.76	-			-			-			-	-		0	0	
2471000	1	-	1.97	1.97	-			-			-			-	-		0	0	
2469022	1	-	0.59	0.59	-			-			-			-	-		0	0	
2469022	1	-	0.63	0.63	-			-			-			-	-		0	0	
2469000	1	-	0.10	0.1	-			-			-			-	-		0	0	
2469000	1	-	0.54	0.54	-			-			-			-	-		0	0	
2469000	1	-	0.63	0.63	-			-			-			-	-		0	0	
2469000	1	-	0.67	0.67	-			-			-			-	-		0	0	
2469000	1	-	0.80	0.8	-			-			-			-	-		0	0	
2469000	1	-	1.46	1.46	-			-			-			-	-		0	0	
2469000	1	-	1.96	1.96	-			-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2464000	1	-	0.15	0.15	-			-			-			-	-		0	0	
2464000	1	-	0.65	0.65	-			-			-			-	-		0	0	
2464000	1	-	0.90	0.9	-			-			-			-	-		0	0	
2464000	1	-	5.00	5.0	-			-			-			-	-		0	0	
2451115	1	-	0.32	0.32	-			-			-			-	-		0	0	
2451100	1	-	1.50	1.5	-			-			-			-	-		0	0	
2451100	1	-	4.70	4.7	-			-			-			-	-		0	0	
2451020	1	-	0.40	0.4	-			-			-			-	-		0	0	
2451017	1	-	0.30	0.3	-			-			-			-	-		0	0	
2451000	1	-	0.03	0.03	-			-			-			-	-		0	0	
2451000	1	-	0.67	0.67	-			-			-			-	-		0	0	
2451000	1	-	0.84	0.84	-			-			-			-	-		0	0	
2451000	1	-	0.90	0.9	-			-			-			-	-		0	0	
2451000	1	-	1.20	1.2	-			-			-			-	-		0	0	
2451000	1	-	1.42	1.42	-			-			-			-	-		0	0	
2451000	1	-	1.59	1.59	-			-			-			-	-		0	0	
2441200	1	-	3.47	3.47	-			-			-			-	-		0	0	
2421000	1	-	0.13	0.13	-			-			-			-	-		0	0	
2421000	1	-	0.19	0.19	-			-			-			-	-		0	0	
2421000	1	-	0.19	0.19	-			-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2421000	1	-	1.95	1.95	-			-			-			-	-		0	0	
2421000	1	-	2.08	2.08	-			-			-			-	-		0	0	
2419014	1	-	1.00	1.0	-			-			-			-	-		0	0	
2419000	1	-	0.31	0.31	-			-			-			-	-		0	0	
2419000	1	-	1.24	1.24	-			-			-			-	-		0	0	
2419000	1	-	2.53	2.53	-			-			-			-	-		0	0	
2419000	1	-	2.66	2.66	-			-			-			-	-		0	0	
2419000	1	-	3.44	3.44	-			-			-			-	-		0	0	
2401100	1	-	0.12	0.12	-			-			-			-	-		0	0	
2401033	1	-	1.08	1.08	-			-			-			-	-		0	0	
2401012	1	-	0.15	0.15	-			-			-			-	-		0	0	
2401000	1	-	0.59	0.59	-			-			-			-	-		0	0	
2401000	1	-	1.07	1.07	-			-			-			-	-		0	0	
2401000	1	-	1.21	1.21	-			-			-			-	-		0	0	
2401000	1	-	1.81	1.81	-			-			-			-	-		0	0	
2401000	1	-	1.85	1.85	-			-			-			-	-		0	0	
2401000	1	-	2.38	2.38	-			-			-			-	-		0	0	
2401000	1	-	3.19	3.19	-			-			-			-	-		0	0	
2361700	1	-	0.69	0.69	-			-			-			-	-		0	0	
2361210	1	-	2.76	2.76	-			-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2361200	1		0.67	0.67	-			-			-			-	-		0	0	
2361000	1	-	0.50	0.5	-			-			-			-	-		0	0	
2361000	1	-	0.90	0.9	-			-			-			-	-		0	0	
2361000	1	-	1.00	1.0	-			-			-			-	-		0	0	
2361000	1	-	3.50	3.5	-			-			-			-	-		0	0	
2353140	1	-	0.10	0.1	-			-			-			-	-		0	0	
2353140	1	-	0.30	0.3	-			-			-			-	-		0	0	
2353140	1	-	0.50	0.5	-			-			-			-	-		0	0	
2353140	1	-	0.60	0.6	-			-			-			-	-		0	0	
2353100	1	-	0.60	0.6	-			-			-			-	-		0	0	
2340088	1	-	0.96	0.96	-			-			-			-	-		0	0	
2340080	1	-	0.70	0.7	-			-			-			-	-		0	0	
2340000	1	-	0.46	0.46	-			-			-			-	-		0	0	
2340000	1	-	0.73	0.73	-			-			-			-	-		0	0	
2340000	1	-	1.11	1.11	-			-			-			-	-		0	0	
2300000	1	-	0.12	0.12	-			-			-			-	-		0	0	
2300000	1	-	0.26	0.26	-			-			-			-	-		0	0	
2300000	1	-	4.88	4.88	-			-			-			-	-		0	0	
2300000	1	-	7.47	7.47	-			-			-			-	-		0	0	
2190240	1	-	0.30	0.3				-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2190220	1	251	0.00	0	-			-			251	POCU6 COTON		-	-		0	0	
2190200	2		22.10	0									3.50	-	0.10	POCU6	18.6	1.6	POBO10 DIPU SEJA CIVU CYSC
2190170	1	-	1.59	1.59	-			-			-			-	-		0	0	
2190000	2	-	2.98	1.49	-			-			-			-	-		1.49	0	
2190000	2	-	3.40	1.7	-			-			-			-	-		1.7	0	
2190000	2	-	4.82	2.41	-			-			-			-	-		2.41	0	
2190000	2	-	12.66	8.44	-			-			-			-	-		4.22	0	
2180000	2	-	2.52	2.52	-			-			-			-	-		0	0	
2180000	1	-	4.24	4.24	-			-			-			-	-		0	0	
2180000	1	-	4.60	4.6	-			-			-			-	-		0	0	
2170020	1	-	4.28	4.28	-			-			-			-	-		0	0	
2170000	1	-	8.24	8.24	-			-			-			-	-		0	0	
2160000	2	-	4.70	4.7	-			-			-			-	-		0	0	
2160000	2	-	11.60	11.6	-			-			-			-	-		0	0	
2140000	1	-	1.70	1.7	-			-			-			-	-		0	0	
2140000	1	-	3.10	3.1	-			-			-			-	-		0	0	
2140000	1	-	7.20	7.2	-			-			-			-	-		0	0	
2120000	1	-	1.20	1.2	-			-			-			-	-		0	0	

Totals 2002-2007				2002-2003			2004			2005			2006				2007		
ROAD	No. Years Visited	Total Weeds Removed '02 - '07	Total Miles '02 - '07	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Weed Species Removed	Survey Miles	# of Weeds Removed	Area Treated (acres)	Weed Species Removed	Survey Miles	Area Treated (Acres)	Weed Species Removed
2100000	1	-	2.84	2.84	-			-			-			-	-		0	0	
2100000	2	-	3.40	3.40	-			-			-			-	-		0	0	
2100000	2	50	7.40	7.40	50	SEJA		-			-			-	-		0	0	
TOTALS		**2,562,778**	**1918.48**	**896.54**	**231364**		**264.92**	**1,290,774**		**90.63**	**1,040,640**		**297.62**	**77,792**	**26.68**		**368.77**	**112.06**	

Appendix B: 2007 Site List with Action Taken

(This Appendix constitutes a comprehensive list of work completed in 2007)

A list of sites was given to the partners in the Clallam/Jefferson Participating Agreement by USFS staff at the start of the 2007 field season. It was presented as a complete list of known sites in the Olympic National Forest where weed control was needed. Clallam County Noxious Weed Control Board (CCNWCB) staff summarized sites for work in 2007 and resubmitted the list to USFS. Staff focused on sites where chemical treatment was allowed and ones that had been previously treated.

- 2007 work sites are listed under a **yellow** heading.
- Six additional sites were treated--they are shown under the **grey** heading.
- New sites which were given subunuit numbers by FS staff are shown under an orange heading
- Sites which were treated but do not have subunit numbers are shown under a **green** heading.
- Sites which were on the original list but were not considered part of this year's work plan and were not inspected or treated are listed under a **pink** heading.
- Finally, non-forest service sites that were treated by the OCC crew are listed under a **lilac** heading.

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
2007 Work Plan Sites										
Calawah River	5	Mr. Hankey (Two Y EA) Road 2923-070	5	Clallam	2923-070	CYSC4, SEJA	3	Manual	8/7/07	Clallam/Jefferson PA
Calawah River	5	Mr. Hankey (Two Y EA) Road 2923-070	5	Clallam	2923-070	CIVU, HYPE, GERO SEJA	1.1	Manual	9/6/07	Clallam/Jefferson PA
Calawah River	10	Calawah Pit	5	Clallam	2900-015	CYSC4	3	Manual	7/18/07	Clallam/Jefferson PA
Calawah River	11	2923 Orange Hawkweed Site	5	Clallam	2923	HIAU	0	Manual		Not treated
Calawah River	12	2900 Orange Hawkweed Site	5	Clallam	2900	HIAU, SEJA	0.2	Manual	6/25/07	Clallam/Jefferson PA
Discovery Bay	5	Rock Source for Century TS	2	Clallam	2845-070	unknown	0	Manual		Not found

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
2007 Work Plan Sites										
Dungeness River	1	Cranberry Bog Botanical Area	2	Clallam	2870-058	PHAR3 CIAR4, CIVU GERO	4	CHEMICAL	8/29/07	Clallam/Jefferson PA
Dungeness River	2	Dungeness Collaborative Stewardship Rd 2870-053 decomm.	2	Clallam	2870-053	CEDE5	0.2	Manual	9/7/07	Clallam/Jefferson PA
Dungeness River	3	Dungeness Collaborative Stewardship Rd 2870-054 decomm.	2	Clallam	2870-054	CEDE5	0.2	Manual	9/7/07	Clallam/Jefferson PA
Dungeness River	4	Slab camp/Road 2875 Decom	2	Clallam	2875	CEDE5	0.15	Manual	8/8/07	WCC
Dungeness River	7	Lower Dungeness Trailhead	2	Clallam	2870-230	CIAR4 CIVU GERO	0.3	CHEMICAL	8/28/07	Clallam/Jefferson PA
Dungeness River	7	Lower Dungeness Trailhead	2	Clallam	2870-230	CEDE5 CEBI2	0.2	Manual	9/7/07	Clallam/Jefferson PA
Dungeness River	8	Maynard Burn Trail	2	Clallam	2870-270	CIVU	1.5	CHEMICAL	9/11/07	WCC
Dungeness River	8	Maynard Burn Trail	2	Clallam	2870-270	CIAR4 GERO	0.4	CHEMICAL	9/11/07	Clallam/Jefferson PA

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
2007 Work Plan Sites										
Dungeness River	8	Maynard Burn Trail	2	Clallam	2870-270	CEDE5 SEJA HYPE	1.7	Manual	9/11/07	Clallam/Jefferson PA
Dungeness River	9	Dungeness Trailhead	2	Clallam	2870	CIAR4 CIVU, GERO, SEJA, HYPE LEVU	3	CHEMICAL	9/7/07	Clallam/Jefferson PA
Dungeness River	9	Dungeness Trailhead	2	Clallam	2870	SEJA	0.1	Manual	8/8/07	Clallam/Jefferson PA
Dungeness River	9	Dungeness Trailhead	2	Clallam	2870	CIAR4 GERO	0.3	CHEMICAL	8/28/07	Clallam/Jefferson PA
Dungeness River	10	Tubal Cain Trailhead	2	Clallam	2870	CIAR4 CIVU	0.3	CHEMICAL	8/28/07	Clallam/Jefferson PA
Dungeness River	10	Tubal Cain Trailhead	2	Clallam	2870	CYSC4	0.1	Manual	8/8/07	Clallam/Jefferson PA
Dungeness River	11	Silver Cr waytrail	2	Clallam	2870	CIAR4	0.4	CHEMICAL	8/28/07	Clallam/Jefferson PA
Dungeness River	13	Cranberry Bog Botanical Area Roads	2	Clallam	A) 2870-058 B) 2870-059	PHAR3, CIAR4	0.5	Manual	8/29/07	Clallam/Jefferson PA
Dungeness River	14	Ned Hill Quarry	2	Clallam	2878-125	unknown	0			Surveyed--no weeds found

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
2007 Work Plan Sites										
Dungeness River	15	Upper Caraco Quarry	2	Clallam	2870	unknown	0			Surveyed--no weeds found
Dungeness River	16	Lower Caraco Quarry	2	Clallam	2870	unknown	0			Surveyed--no weeds found
Dungeness River	18	Canine (Gold Creek) Pit/stockpile	2	Clallam	2800-130	SEJA CEBI2	0.7	Manual	6/27/07	Clallam/Jefferson PA.
Dungeness River	18	Canine (Gold Creek) Pit/stockpile	2	Clallam	2800-130	SEJA	0.1	Manual	8/3/07	WCC
Dungeness River	18	Canine (Gold Creek) Pit/stockpile	2	Clallam	2800-130	SEJA	0.15	Manual	8/29/07	WCC
Dungeness River	20	2830/2810 jct. Stockpile	2	Clallam	2800	SEJA, CIVU, CIAR4 DIPU	7	Manual	8/29/07	WCC
Dungeness River	21	Dungeness Collaborative Stewardship Rd 2870-056 decomm.	2	Clallam	3E+06	CEDE5, SEJA CYSC4	1.8	Manual	7/2/07	Clallam/Jefferson PA
Lyre River/Twin River	1	Road 30-200	5	Clallam	30-200	GERO, LALA4 CIVU	8.55	CHEMICAL	8/6/07	Clallam/Jefferson PA and WCC

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
2007 Work Plan Sites										
Lyre River/Twin River	1	Road 30-200	5	Clallam	30-200	GERO	5	CHEMICAL	9/13/07	Clallam/Jefferson PA
Lyre River/Twin River	2	Road 30-250 GERO	5	Clallam	30-250	GERO	2.66	CHEMICAL	8/6/07	Clallam/Jefferson PA
Lyre River/Twin River	3	Road 3040 GERO non-FS	5	Clallam	3040	GERO	0.1	Manual	7/3/07	Clallam/Jefferson PA
Lyre River/Twin River	4	3040-100 Road Knapweed Site	5	Clallam	3040-100	CEJA	0	Manual		Not found
Sequim Bay	1	Wolf Quarry	2	Clallam	2840-120	SEJA	0	Manual		Not found
Sol Duc River	1	Snider Work Center	5	Clallam	2071	POBO10, GERO,	0.3	CHEMICAL	9/5/07	Clallam/Jefferson PA
Sol Duc River	1	Snider Work Center	5	Clallam	2071	GERO, ARMI2, CIVU, ILAQ80, LALA4 PHAR3	5	CHEMICAL	9/6/07	Clallam/Jefferson PA
Sol Duc River	1	Snider Work Center	5	Clallam	2071	GERO,	0.75	CHEMICAL	9/25/07	Clallam/Jefferson PA
Sol Duc River	1	Snider Work Center	5	Clallam	2071	CYSC4	0.1	Manual	9/25/07	Clallam/Jefferson PA

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
2007 Work Plan Sites										
Sol Duc River	2	Road 3040 GERO	5	Clallam	3040	GERO SEJA CYSC4	0.6	Manual	6/26/07	Clallam/Jefferson PA
Sol Duc River	10	Road 2929-070 GERO	5	Clallam	2929-070	GERO	0.1	Manual	6/25/07	Clallam/Jefferson PA
Sol Duc River	28	Mary Clark Pit	5	Clallam	2010	CYSC4 DIPU POCU6 LALA4	0	Inventory	9/5/07	Clallam/Jefferson PA
Sol Duc River	31	Road 2900 GERO	5	Clallam	2900	SEJA	0.1	Manual	6/26/07	Clallam/Jefferson PA
Upper West Hood Canal Frontal	5	Bon Jon Quarry	2	Clallam	2800		0			Could not find
Big Quilcene River	3	Charlia Lakes East Waytrail	2	Jefferson	2740-110	CYSC4, CIAR4, SEJA, CEBI2	0	CHEMICAL		Not treated
Lower West Hood Canal Frontal	4	2510 Rd	1	Jefferson	2510	GERO, HYPE, CIAR4, CIVU, RUDI2, RULA SEJA	8	CHEMICAL	8/23/07	Clallam/Jefferson PA
Upper Quinault River	6	Higley Ridge Knotweed Site	3	Jefferson	2190-200	POBO10 DIPU	1.1	CHEMICAL	8/21/07	Clallam/Jefferson PA
Upper Quinault River	6	Higley Ridge Knotweed Site	3	Jefferson	2190-200	SEJA, CIVU CYSC4	0.8	Manual	8/21/07	Clallam/Jefferson PA

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
Sites Added to Work Plan										
Calawah River	8	Mr. Hankey (Two Y EA) Road 2923-074	5	Clallam	2923-074	CYSC4 SEJA	1.15	Manual	9/6/07	Clallam/Jefferson PA
Calawah River	8	Mr. Hankey (Two Y EA) Road 2923-074	5	Clallam	2923-074	CYSC4	1	Manual	8/7/07	Clallam/Jefferson PA
Dungeness River	5	Schmidt Knob Meadow Restoration	2	Clallam	2800	CYSC4	0.25	8/2/07		WCC
Big Quilcene River	2	Broom removal on landing	2	Jefferson	2740-100	CEBI2 SEJA	0.5	Manual	7/9/07	Clallam/Jefferson PA.
Big Quilcene River	2	Broom removal on landing	2	Jefferson	2740-100	CYSC4	0.1	Manual	8/5/07	WCC
Big Quilcene River	2	Broom removal on landing	2	Jefferson	2740-100	CYSC4	0.35	Manual	8/30/07	WCC
Dungeness River	9	2870 jct 2880 to 2870-230	5	Clallam	2870	GERO	0.5	Manual	8/4/07	WCC
Dungeness River	33	Rd 2800	5	Clallam	2800	SEJA	0.1	Manual	8/8/07	Clallam/Jefferson PA.
Dungeness River	33	Rd 2800	5	Clallam	2800	SEJA	8.7	Manual	9/12/07	WCC.
Dungeness River	36	Rd 2880 near Gray Wolf Trail	5	Clallam	2880	SEJA	0.1	Manual	8/8/07	Clallam/Jefferson PA

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
New Sites, Given a Subunit Number by USFS										
Dungeness River	35	Rd 2880	5	Clallam	2880	CEDE5	0.1	Manual	8/8/07	Clallam/Jefferson PA
Dungeness River	27	2870 0.5 mi from 2800-230 jct	5	Clallam	2870	SEJA	0.1	Manual	8/8/07	Clallam/Jefferson PA
Dungeness River	28	Rd 2870-030	5	Clallam	2870	SEJA CEDE5	0.4	Manual	9/11/07	Clallam/Jefferson PA
Dungeness River	29	Rd 2870-050	5	Clallam	2870	SEJA	0.1	Manual	9/11/07	Clallam/Jefferson PA
Dungeness River	30	Rd 2870-057	5	Clallam	2870	SEJA, CIVU, CIAR4 HYPE	0.5	Manual	9/11/07	Clallam/Jefferson PA
Sol Duc River	38	3068 Decom Restoration	2	Clallam	3068	CYSC4	0.1	Manual	7/3/07	Clallam/Jefferson PA
Big Quilcene River	9	2700 road off of Penny Creek	2	Jefferson	2700	GERO	0.03	Manual	8/7/07	WCC
Big Quilcene River	10	2740-072 rd	2	Jefferson	2740-072	CYSC4	0.02	Manual	8/5/07	WCC
Sites With no Subunit Number										
Dungeness River		Dungeness Forks Campground	2	Clallam		GERO	0.3	Manual	8/3/07	WCC
Dungeness River		Dungeness Forks Campground	2	Clallam		GERO	0.18	Manual	8/9/07	WCC

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
Sites With no Subunit Number										
Dungeness River		2875 road, large pit	2	Clallam	2875	CEDE5	0.3	Manual	8/4/07	WCC
Dungeness River		2800-351, 353, 354	2	Clallam	2800	CEDE5	0.5	Manual	8/4/07	WCC
Dungeness River			2	Clallam	2870-056	SEJA CIVU	0.2	Manual	9/11/07	Clallam/Jefferson PA
Big Quilcene River		Quilcene Ranger Station	2	Jefferson		POBO10	0.1	CHEMICAL	8/23/07	Clallam/Jefferson PA
Big Quilcene River		Quilcene Ranger Station	2	Jefferson		POSA4	0.1	CHEMICAL	8/27/07	Clallam/Jefferson PA
Big Quilcene River		Quilcene Ranger Station	2	Jefferson		CYSC4	0.3	Manual	8/27/07	WCC
Big Quilcene River		Quilcene Ranger Station	2	Jefferson		CYSC4	0.08	Manual	9/13/04	WCC
Sites Not Added to Work Plan and not Treated, 2007										
Calawah River	3	Road 2932 GERO	5	Clallam	2932	GERO		Manual		
Calawah River	4	Road 2900 GERO	5	Clallam	2900	GERO		Manual		
Calawah River	6	Mr. Hankey (Two Y EA) Road 2923-072	5	Clallam	2923-072	unknown		Manual		
Calawah River	7	Mr. Hankey (Two Y EA) Road 2923-073	5	Clallam	2923-073	unknown		Manual		

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
Sites Not Added to Work Plan and not Treated, 2007										
Pysht River/Clallam River	1	Road 3100-400 GERO	5	Clallam	3100-400	GERO		Manual		
Sol Duc River	3	Road 3100-300 GERO	5	Clallam	3100-300	GERO		Manual		
Sol Duc River	5	Road 3006 GERO	5	Clallam	3006	GERO		Manual		
Sol Duc River	7	Road 3116 GERO	5	Clallam	3116	GERO		Manual		
Sol Duc River	9	Bear Saddle TS (For offer 2007) - 30 road	5	Clallam	30	CIAR4, CIVU, CYSC4, DIPU, GERO, HYPE, PHAR3, SEJA, TAVU, RUDI2, RULA, LIVU2		Manual		
Sol Duc River	12	Mr. Hankey (Two Y EA) Road 2923-090	5	Clallam	2923-090	CYSC4, SEJA		Manual		
Sol Duc River	13	Mr. Hankey (Two Y EA) Road 2923-095	5	Clallam	2923-095	unknown		Manual		
Sol Duc River	14	Rainy TS (Bear-Saddle EA) Road 3100-010	5	Clallam	3100-010	CYSC4		Manual		

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
Sites Not Added to Work Plan and not Treated, 2007										
Sol Duc River	15	Rainy TS (Bear-Saddle EA) Road 3100-011	5	Clallam	3100-011	unknown		Manual		
Sol Duc River	16	Rainy TS (Bear-Saddle EA) Road 3100-012	5	Clallam	3100-012	unknown		Manual		
Sol Duc River	17	Rainy TS (Bear-Saddle EA) Road 3100-013	5	Clallam	3100-013	unknown		Manual		
Sol Duc River	18	Rainy TS (Bear-Saddle EA) Road 3100-014	5	Clallam	3100-014	unknown		Manual		
Sol Duc River	19	Rainy TS (Bear-Saddle EA) Road 3000-011	5	Clallam	3000-011	unknown		Manual		
Sol Duc River	20	Rainy TS (Bear-Saddle EA) Road 3000-012	5	Clallam	3000-012	unknown		Manual		
Sol Duc River	21	Rainy TS (Bear-Saddle EA) Road 3006	5	Clallam	3006	unknown		Manual		

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
Sites Not Added to Work Plan and not Treated, 2007										
Sol Duc River	22	Rainy TS (Bear-Saddle EA) Road 3006-011	5	Clallam	3006-011	CYSC4		Manual		
Sol Duc River	23	Rainy TS (Bear-Saddle EA) Road 3006-012	5	Clallam	3006-012	unknown		Manual		
Sol Duc River	24	Rainy TS (Bear-Saddle EA) Road 3006-013	5	Clallam	3006-013	unknown		Manual		
Sol Duc River	25	Rainy TS (Bear-Saddle EA) Road 3006-014	5	Clallam	3006-014	unknown		Manual		
Sol Duc River	36	Lower Mt. Muller Trail	5	Clallam		GERO, CYSC				
		Cooper / Spruce ODT Trailhead	5	Clallam						
		Snow Creek Culvert Design	2	Clallam	2850					
		Olympic Discovery Trail	5	Clallam						

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
Sites Not Added to Work Plan and not Treated, 2007										
Big Quilcene River	1	Tunnel CR Rd 2740000 stream crossing removal	2	Jefferson	3E+06	CIAR4, SEJA		Manual		
Bogachiel River	1	Road 2932 GERO MP 10.8	5	Jefferson	2932	GERO		Manual		
		Rd 2610000-3.1 EIS	2	Jefferson	2610000-3.1					
		Rd 2610012 Decom/Convert to Trail	2	Jefferson	3E+06					
		Rd 2740000 MP 1.3 Culvert Replacement	2	Jefferson	3E+06					
		Bogachiel Pond Fish Passage	5	Jefferson	2932	CIAR4, RULA		Manual		
Non-Forest Service Lands, Weeds Controlled by OCC Crew										
Hoh River		Winfield Pit	5	Jefferson		CYSC4	43	Manual and CHEMICAL	6/19/07	OCC
Hoh River		Winfield Pit	5	Jefferson		CYSC4	28	Manual	6/26/07	OCC
Hoh River		Winfield Pit	5	Jefferson		CYSC4	15	Manual	7/3/07	OCC

Watershed Name	Sub unit	Project Name	Dist	County	Road Number	Inv plants	Acres Treated	Method	Date	Work Force
Non-Forest Service Lands, Weeds Controlled by OCC Crew										
Hoh River		Hoh Mainline	5	Jefferson		CYSC4	144	Manual and CHEMICAL	7/10/07	OCC
Hoh River		Winfield Pit	5	Jefferson		CYSC4	9	Manual	7/12/07	OCC
Hoh River		Capitol Split/Dry Creek	5	Jefferson		CYSC4 RUDI1	25	Manual	7/17/07	OCC
Hoh River		Capital Split Road	5	Jefferson		CYSC4 RUDI1	21	CHEMICAL	7/25/07	OCC
Hoh River		Snahappish Pit	5	Jefferson		CYSC4	9	Manual	7/31/07	OCC

Appendix C: Update of 2006 Site List with Action Taken

This priority matrix with a list of sites was submitted to Forest Service Staff in 2006. This priority system is still applicable. It has been updated with actions taken in 2007. Note that one point was added to the Total No of Categories if action was taken in 2007.

Item No.	Priority	FS Road	Location Description	Weed(s)	FS Priority	County Priority	Prior Ctrl	New (05) Infestation	TrHd/CG	'98 EA Site	06 WCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Total No. of Categories	Action 2007
1	**1**	2870059	Cranberry Bog	CYSC4 SEJA CEDE5 CIAR4 CIVU PHAR3	Y	Y	Y			Y	Y	Y			Treated all - chemical	7	Treated all - chemical
2	**2**	2730300	Quilcene Ranger Station	POBO10 CYSC4	Y	Y	Y			Y	Y				Knotweed cut - could not treat	6	POBO10-- chemical, CYSC-- manual
3	**2**	3040800	Snider Work Center	POBO10	Y	Y	Y	Y		Y					Treated all - chemical	6	Treated all - chemical
4	**3**	2870000	Gray Wolf Trailhead (834)	GERO	Y		Y		Y	Y					Treated all - chemical	5	Treated all - chemical
5	**3**	2190200	D-78 Landing	POBO10	Y	Y	Y			Y					Treated all - chemical	5	Treated all - chemical
6	**3**	2870050	Off Lost Mtn. Rd.	CYSC4 CEDE5 SEJA	Y	Y	Y			Y					Treated all - chemical	5	Treated all - chemical
7	**4**	2870230	Lower Dungeness TrHd (833.3)	CIAR4	Y				Y	Y					Treated all - chemical	4	Treated all - chemical
8	**4**	2870000	Dungeness TrHd (833.2)	CIAR4	Y				Y	Y					Treated all - chemical	4	Treated all - chemical
9	**5**	2870000	Tubal Cain TrHd (840)	CIAR4	Y					Y					Treated all - chemical	3	Treated all - chemical
10	**5**	2870300	Silver Cr Waytrail	CIAR4	Y					Y					Treated at trailhead - chemical	3	Treated all - chemical
11	**5**	3000200		GERO PHAR3	Y					Y					Treated to MP 2.5 - chemical	3	None
12	**5**	3000250		GERO PHAR3	Y					Y					Treated all - chemical	3	None
13	**5**	2923100	at 2923 fork	GERO	Y					Y					Surveyed for - could not find	2	None

Item No.	Priority	FS Road	Location Description	Weed(s)	FS Priority	County Priority	Prior Ctrl	New (05) Infestation	TrHd/CG	'98 EA Site	06 WCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Total No. of Categories	Action 2007
14	**6**	3040025	.2 mi - walk (poss drv?)	RUDI2 ??	Y		Y							Y	Surveyed all - no weeds	3	SEJA, GERO and CYSC4 treated manually
15	**7**	2610012	Dose Rd. spur - 1.8mi - cond unknown	CIAR4 ??	Y									Y	Surveyed to CMP sta. 25+22 - Treated some - manual	3	None
16	**7**	2700330	1.4 mi -cond unk	GERO	Y									Y	Surveyed all - scattered weeds: SEJA, CIAR4, LALA4, etc.	2	None
17	**7**	2740000	From spur 060 to end (at TrHd 841.1) >7mi	??	Y									Y	Surveyed all - few weeds - repeat survey in 2007 in July	2	CYSC4 treated manually
18	**7**	2920020	1.4 mi - 4x4?	??	Y									Y	None	2	None
19	**7**	3040012	.32 mi - walk (poss drv?)	??	Y									Y	Surveyed to sta. 0+500 - cut down all CYSC4 (3)	3	SEJA, GERO and CYSC4 treated manually
20	**7**	3040100	2.22 mi - drive	??	Y									Y	Surveyed all - no weeds	2	Surveyed all - no weeds
21	**7**	3040115	.68 mi - drive	??	Y									Y	Surveyed all - no weeds	2	Surveyed all - no weeds
22	**7**	3040200	.47 mi - drive	??	Y									Y	Surveyed all - no weeds	2	Surveyed all - no weeds
23	**7**	3040000	unlabelled spur - station 15888 - near jct 2068 - .12mi - drive	??	Y									Y	Surveyed all - no weeds	2	Surveyed all - no weeds

Item No.	Priority	FS Road	Location Description	Weed(s)	FS Priority	County Priority	Prior Ctrl	New (05) Infestation	TrHd/CG	'98 EA Site	06 WCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Total No. of Categories	Action 2007
24	**7**	3040000	unlabelled spur - station 17000 - near MP 11 - .33mi - walk	??	Y									Y	Surveyed all - no weeds - no spur at this location	2	None
25	**8**	2875000	Slab Camp Cr (TR 838)	SEJA CYSC4, CEDE5	Y	Y	Y		Y						Surveyed all - Lots of CEJA - pulled small patches	5	Controlled all--manually
26	**8**	2860011	East Crossing CG	GERO SEJA	Y		Y	Y	Y						None	4	None
27	**9**	2900000	at MP 36	HIAU	Y	Y	Y								Treated all - manual x2 revisits	4	Controlled all--manually
28	**9**	2870059	Off Lost Mtn. Rd.	CYSC4 CEDE5	Y	Y	Y								Treated all - chemical	3	SEJA controlled manually
29	**9**	3068000	Off 3040, above Snider	CYSC4 SEJA, CEDE5	Y		Y	Y							None	3	None
30	**9**	2870030	Off Lost Mtn. Rd.	CYSC4 CEDE5 SEJA	Y	Y	Y								Surveyed all - lots of CYSC4	3	CEDE5 controlled manually
31	**9**	2610040	Dosewallips Rd.	SEJA	Y		Y	Y							None	3	None
32	**9**	3040800	Snider Work Center	GERO	Y		Y	Y							Treated most - chemical	4	Treated--chemical
33	**10**	3068200	Off 3040, above Snider	CYSC4	Y		Y								None	2	None
34	**10**	2860000		CYSC4	Y		Y								None	2	None
35	**10**	2870000		CYSC4	Y		Y								Treated some - manual	2	CYSC4 SEJA CIVU and CEDE5 treated manually
36	**10**	2860000	Gold Creek extension	CIVU	Y		Y								None	2	None

Item No.	Priority	FS Road	Location Description	Weed(s)	FS Priority	County Priority	Prior Ctrl	New (05) Infestation	TrHd/CG	'98 EA Site	06 WCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Total No. of Categories	Action 2007
37	**10**	2650000	MP 1.56	ARMI2	Y		Y								None	2	None
38	**11**	2870000	Off Lost Mtn. Rd.	SEJA	Y										Treated most - manual	2	Treated manually
39	**11**	3068050	Off 3040, above Snider	any	Y										None	1	CYSC4 treated manually
40	**11**	3068150	Off 3040, above Snider	any	Y										None	1	CYSC4 treated manually
41	**11**	3068190	Off 3040, above Snider	any	Y										None	1	CYSC4 treated manually
42	**11**	2860000	Gold Creek extension	CYSC4	Y										None	1	None
43	**11**	2900000	Bonidu Elk Opening	CIAR4 PHAR3	Y										None	1	None
44	**12**	2900200	Pit	CYSC4	Y		Y	Y			Y		Y		None	5	None
45	**13**	2610000	Dosewallips Rd.	CIVU CIAR4, CYSC4 SEJA, GERO	Y		Y	Y			Y				Treated some - manual	5	None
46	**13**	2900000	South Fork Calawah River Botanical Area	CIAR4, CYSC4 GERO	Y		Y				Y	Y			None	4	SEJA controlled manually
47	**13**	2880050	Dungeness Forks Campground	GERO	Y		Y		Y		Y				Treated some - manual x2 revisits	5	GERO controlled manually
48	**14**	2740000	Tunnel Cr TrHd (841.1)	CIAR4 SEJA					Y	Y					Surveyed - no weeds	2	None
49	**14**	2750000	Upper Big Quil TrHd (833)	CIAR4					Y	Y					None	2	None
50	**15**	2610200	Seal Rock CG	HIPR GERO, CYSC4 RUDI2		Y	Y		Y						Treated some - manual	3	None
51	**15**	2730200	Falls View CG	GERO SEJA, CIVU			Y		Y		Y				None	3	None

Item No.	Priority	FS Road	Location Description	Weed(s)	FS Priority	County Priority	Prior Ctrl	New (05) Infestation	TrHd/CG	'98 EA Site	06 WCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Total No. of Categories	Action 2007
52	**16**	2510000	entire rd sys - Duckabush and Fulton Ck	PHAR3 SEJA, CEDE5 CEBI2		Y				Y					Treated some - chemical	3	GERO, HYPE, CIAR4, CIVU, RUDI2, RULA and SEJA treated chemically
53	**16**	2610050	Elkhorn CG	POBO10		Y				Y					Surveyed - no weeds	2	None
54	**16**	2740110	Charlia Lks E Waytrail-WILDERNESS	CEBI2		Y				Y					None	2	None
55	**17**	3040800	West Snyder Rd	GERO						Y					Treated some - chemical	2	GERO treated chemically
56	**17**	2180000	entire rd sys	GERO						Y					None	1	
57	**17**	2870270	Maynard Burn Trail	CIAR4						Y					Treated all - chemical	2	CIVU treated chemically
58	**17**	TR 833.2	Buckhorn WILDERNESS Meadows-Camp Handy	CIAR4						Y					None	1	None
59	**18**	2800000		CEDE5		Y	Y	Y							Treated most - manual	3	CEDE5 controlled manually
60	**18**	2190220	MP 0.20	COTON POBO10		Y	Y	Y							Treated all - chemical	3	Treated chemically
61	**19**	2855070	Off Woods Rd. MP 0.49, 0.71	CEBI2 GERO, SEJA CYSC4		Y	Y	Y							Treated all SEJA, some GERO and CEBI2 - manual	3	None
62	**20**	SR101	N. of Seal Rock CG	HIPR GERO		Y		Y							Marked for WSDOT to spray	3	Controlled manually
63	**20**	2620056	MP 0.75	CEDE5		Y	Y								None	2	None
64	**20**	2830000	MP 0.61	CEBI2, CEDE5		Y	Y								None	2	None

Item No.	Priority	FS Road	Location Description	Weed(s)	FS Priority	County Priority	Prior Ctrl	New (05) Infestation	TrHd/CG	'98 EA Site	06 WCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Total No. of Categories	Action 2007
65	**20**	2855000		CEBI2, CEDE5		Y	Y								Treated some - manual	3	None
66	**20**	2900000		POSA4		Y	Y								None	2	None
67	**20**	2923000	MP 4.57	HIAU		Y	Y								Surveyed - did not find site	2	Surveyed - did not find site
68	**21**	2800000		SEJA			Y	Y							Treated some - manual	3	Controlled some - manual
69	**21**	2800250		SEJA			Y	Y							Treated all - manual	3	Controlled some - manual
70	**21**	2800270		CYSC4 SEJA			Y	Y							None	2	None
71	**21**	2851000		SEJA			Y	Y							None	2	None
72	**21**	2870230		SEJA			Y	Y							Treated some - chemical	2	None
73	**21**	2878000		CYSC4			Y	Y							None	2	None
74	**21**	2900200	West end	CYSC4 SEJA			Y	Y							None	2	None
75	**21**	3000000		SEJA			Y	Y							None	2	None
76	**21**	2800290		SEJA CYSC4			Y	Y							Surveyed all - some CIAR4	2	None
77	**22**	2900000	MP 36.3ish	GERO CYSC4			Y	Y			Y				None	3	None
78	**23**	CR2065	Cooper-Ranch Rd.	GERO				Y			Y				None	2	None
79	**24**	2855000		CEBI2 CEDE5		Y	Y								Treated some - manual	3	None
80	**24**	2870056		CEDE5		Y	Y								Treated all - chemical	3	SEJA, CIVU controlled manually
81	**25**	2800310	Schmith Knob	CYSC4			Y								Treated some - manual	1	CYSC4 controlled manually
82	**25**	2840071	MP 0.42	BOOF			Y								None	1	None
83	**25**	2851080	MP 1.31	TAVU CYSC4			Y								None	1	None
84	**25**	2855070	Off Woods Rd.	SEJA			Y								Treated all - manual	2	None

Item No.	Priority	FS Road	Location Description	Weed(s)	FS Priority	County Priority	Prior Ctrl	New (05) Infestation	TrHd/CG	'98 EA Site	06 WCC Priority	Botanical Area	Pit	To be decomm issioned	Action 2006	Total No. of Categories	Action 2007
85	**25**	2855070	Off Woods Rd. MP 0.01, 0.13	GERO			Y								Treated some - manual	2	None
86	**25**	2900000	West end	SEJA			Y								Treated some - manual	2	SEJA controlled manually
87	**25**	2918000		CYSC4 SEJA			Y								None	1	None
88	**25**	3040000	from Hwy 112 to 3068000	SEJA GERO			Y								None (Treated some CYSC4)	1	SEJA, GERO and CYSC4 controlled manually
89	**25**	2800000		SEJA			Y								Treated some - manual	1	SEJA and CEDE5 controlled manually
90	**25**	2700000	unk - 2700.140 MP 0.1?	SEJA TAVU			Y								None	1	None
91	**26**	CR2065	Cooper-Ranch Rd.	CYSC4 SEJA			Y				Y				None	2	None
92	**26**	2730000	Mt. Walker	SEJA TAVU			Y				Y				None	2	None
93	**26**	2620000	Rocky Brook Rd.	SEJA CYSC4 GERO CIVU, RULA			Y				Y				None	2	None
94	**26**	2850000		SEJA GERO			Y				Y				None	2	None
95	**26**	2852000	Road sys	SEJA			Y				Y				None	2	None
96	**27**	2851080	MP 0.33	LALA4											None	0	None

Appendix D: 2007 Rock Source Surveys

The following is a list of rock sources surveyed/ treated in 2007, as requested through the FS work plan. This is not an exhaustive list of rock sources surveyed/treated to date. It does not include all rock sources surveyed/treated in 2006 or prior years.

Name	Road	Weed	Date	Treatment Type	Acreage Treated
Canine (Gold Creek) Pit/stockpile	2800-130	SEJA	6/27/07, 8/03/07, 8/29/07	Manual	1.2
Upper Caraco Quarry	2870			Surveyed, no weeds found	
Lower Caraco Quarry	2870			Surveyed, no weeds found	
Ned Hill Quarry	2878-125			Surveyed, no weeds found	
Slab Camp Pit	2875	CEDE5	8/08/07	Manual	1.0
Bonidu Pit	2900	HIAU SEJA	6/25/07	Manual	0.2
Calawah Pit	2900-015	CYSC4	7/18/07	Manual	4.0
Louella Rock Pit		SEJA CEDE5	6/27/07	Manual	0.2
Mary Clark Pit		CYSC4 DIPU POCU6 LALA4	9/5/07	Surveyed, report filed	
Forks Sand and Gravel		CYSC4 POCU6 CIVU SEJA RUDI2	9/5/07	Surveyed, report filed	
Grindstone Pit		LALA4 PHAR3 CIVU DIPU HYPE CYSC4	9/5/07	Surveyed, report filed	
Winfield Pit		CYSC4	June to July 2007	Treatmentt	
Snahappish Pit		CYSC4	July 2007	Treatment	

Appendix E: Herbicide Notification-Legal Ad and On-Site Posting

The legal notice preceding herbicide application on the Olympic National Forest was published in the Peninsula Daily News (PDN), which is distributed throughout both Clallam and Jefferson Counties. The notice appeared on 7/26/07, more than one week before the first herbicide application was carried out on 8/06/07.

The text of the legal notice in the PDN read as follows:

> The Pacific and Hood Canal Ranger Districts, Olympic National Forest may be applying herbicide containing glyphosate to noxious weeds at the following Forest Service sites in Clallam and Jefferson Counties between July 24 and October 20, 2007. Application will be conducted as planned in the Olympic National Forest Integrated Weed Management Program Environmental Assessment, which was completed in October of 1998. Caution notices indicating that glyphosate will be applied will be posted at the site of application at least 24 hours prior to application. People with questions about the application should contact Joan Ziegltrum, Forest Ecologist, at (360) 956-2320. PACIFIC RANGER DISTRICT SITES: D-78 Landing on Rd 2190200 (T24N, R09W, Section 28), Rds 3000200 and 3000250 (T30N, R11W), Rd 2923100 (T29N, R12W, Section 3), Snyder Work Center on Rd 3040800 (T30N, R11W, Section 28). HOOD CANAL RANGER DISTRICT SITES: Cranberry Bog Botanical Area off of Rd 2870059 (T29N, R03W, Section 19), Quilcene Ranger Station on Rd 2730300 (T27N, R02W, Section 24), the 2870050 road system (T29N, R04W, Section 23), Lower Dungeness Trailhead (833.3) on Rd 2870230 (T28N, R03W, Section 8), Dungeness Trailhead (833.2) on Rd 2870 (T28N,R04W, Section 36), Tubal Cain Trailhead (840) on Rd 2870 (T28N, R03W, Section 29 and T27N, R03W, Section 7), Silver Creek Waytrail off of Rd 2870300 (T28N, R03W, Section 32), the Duckabush/Fulton Creek road system (Rd 2510) (T25N, R03W, Section 10), Charlia Lakes East Waytrail off of Rd 2740110 (T27N, R04W, Section 25), Maynard Burn Trail off of Rd 2870270 (T28N, R04W, Section 35), and Buckhorn Wilderness Meadows along Tr 833.2 (T27N, R04W, Section 14).

Onsite Posting Sample: **P**ostings were placed at each application site at least 24 hours prior to applications, and at least one week prior for high use sites (campgrounds and trailheads). The blank lines (planned/actual date of application and weed species targeted) were filled out by hand at the site.

NOTICE

The herbicide glyphosate will be applied to this site between July 24, 2007 and October 20, 2007 to control noxious weeds, which threaten native vegetation and habit in this area.

Planned / Actual application date*: _____
*Actual date of application contingent upon weather conditions.

Targeted Noxious Species:** _____
**Other weed species in this area may also be treated at this time.

NO USE RESTRICTIONS ARE IN PLACE

Avoid contact with treated vegetation until after it has dried.

FOR MORE INFORMATION CONTACT:

Olympic National Forest
Joan Ziegltrum, ecologist
1835 Black Lake Blvd. SW, Suite A
Olympia, WA 98512-5623
(360) 956-2320
or
Clallam County Noxious Weed Control Board
223 East Fourth Street, Suite 15
Port Angeles, WA 98362
(360) 417-2442

Appendix F: 2008 Potential Treatment Sites

The following table lists potential invasive weed treatment sites to target during the 2008 field season. The priority ranking in Column 1 was based on the Total No of Categories each site fell into. Note that one point each was given for Action in 2006 and 2007.

No of Categories	Priority Ranking
7 or 8	1
6	2
5	3
4	4
3	5
2	6

This gives some indication of the relative importance of known sites to each other. However, this table does not take any additional parameters (elevation, species, aspect, size of site, etc.) into account, and so cannot be relied on as a work plan for 2008. In addition, this list is not exhaustive; any sites that matched fewer than two categories were removed from the list. Many newly-discovered sites do not appear in this table, though as described in the Recommendations section, many of these should be the prime targets in 2008.

Priority	FS Road	Location Description	Weed(s)	2007 FS Priority	County Priority	Prior Control?	New (05-07) Infestation	TrHd/CG	'98 EA Site	WCC, OCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Action 2007	Total no. of Categories
1	2870059	Cranberry Bog	CYSC4 SEJA CEDE5 CIAR4 CIVU PHAR3	Y	Y	Y			Y	Y	Y			Treated all - chemical	Treated all - chemical	8
1	2730300	Quilcene Ranger Station	POBO10 CYSC4	Y	Y	Y			Y	Y				Knotweed cut - could not treat	POBO10-- chemical, CYSC-- manual	7
1	3040800	Snider Work Center	POBO10	Y	Y	Y	Y		Y					Treated all - chemical	Treated all - chemical	7
2	2870000	Gray Wolf Trailhead (834)	GERO	Y		Y		Y	Y					Treated all - chemical	Treated all - chemical	6
2	2190200	D-78 Landing	POBO10	Y	Y	Y			Y					Treated all - chemical	Treated all - chemical	6
2	2870050	Off Lost Mtn. Rd.	CYSC4 CEDE5 SEJA	Y	Y	Y			Y					Treated all - chemical	Treated all - chemical	6

Priority	FS Road	Location Description	Weed(s)	2007 FS Priority	County Priority	Prior Control?	New (05-07) Infestation	TrHd/CG	'98 EA Site	WCC, OCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Action 2007	Total no. of Categories
2	2880050	Dungeness Forks Campground	GERO	Y		Y		Y		Y				Treated some - manual x2 revisits	GERO controlled manually	6
3	2800000		CEDE5		Y	Y	Y							Treated most - manual	CEDE5 controlled manually	5
3	2870230	Lower Dungeness TrHd (833.3)	CIAR4	Y		Y		Y	Y					Treated all - chemical	Treated all - chemical	5
3	2870000	Dungeness TrHd (833.2)	CIAR4	Y		Y		Y	Y					Treated all - chemical	Treated all - chemical	5
3	2875000	Slab Camp Cr (TR 838)	SEJA CYSC4, CEDE5	Y	Y	Y		Y						Surveyed all - Lots of CEJA - pulled small patches	Controlled all--manually	5
3	2900000	at MP 36	HIAU	Y	Y	Y								Treated all - manual x2 revisits	Controlled all--manually	5
3	3040800	Snider Work Center	GERO	Y		Y	Y							Treated most - chemical	Treated--chemical	5
3	2610000	Dosewallips Rd.	CIVU CIAR4, CYSC4 SEJA, GERO	Y		Y	Y			Y				Treated some - manual	None	5
3	2900000	South Fork Calawah River Botanical Area	CIAR4, CYSC4 GERO	Y		Y				Y	Y			None	SEJA controlled manually	5
3	2190220	MP 0.20	COTON POBO10		Y	Y	Y							Treated all - chemical	Treated chemically	5
3	2900200	Pit	CYSC4	Y		Y	Y			Y		Y		None	None	5
4	2800250		SEJA			Y	Y							Treated all - manual	Controlled some - manual	4

Priority	FS Road	Location Description	Weed(s)	2007 FS Priority	County Priority	Prior Control?	New (05-07) Infestation	TrHd/CG	'98 EA Site	WCC, OCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Action 2007	Total no. of Categories
4	2800000		SEJA			Y	Y							Treated some - manual	Controlled some - manual	4
4	3040025	.2 mi - walk (poss drv?)	RUDI2 ??	Y		Y							Y	Surveyed all - no weeds	SEJA, GERO and CYSC4 treated manually	4
4	3040012	.32 mi - walk (poss drv?)	??	Y		Y							Y	Surveyed to sta. 0+500 - cut down all CYSC4 (3)	SEJA, GERO and CYSC4 treated manually	4
4	2860011	East Crossing CG	GERO SEJA	Y		Y	Y	Y						None	None	4
4	2870059	Off Lost Mtn. Rd.	CYSC4 CEDE5	Y	Y	Y								Treated all - chemical	SEJA controlled manually	4
4	2870030	Off Lost Mtn. Rd.	CYSC4 CEDE5 SEJA	Y	Y	Y								Surveyed all - lots of CYSC4	CEDE5 controlled manually	4
4	2870000		CYSC4	Y		Y								Treated some - manual	CYSC4 SEJA CIVU and CEDE5 treated manually	4
4	2610200	Seal Rock CG	HIPR GERO, CYSC4 RUDI2		Y	Y		Y						Treated some - manual	None	4
4	2855070	Off Woods Rd. MP 0.49, 0.71	CEBI2 GERO, SEJA CYSC4		Y	Y	Y							Treated all SEJA, some GERO and CEBI2 - manual	None	4
4	2870056		CEDE5		Y	Y								Treated all - chemical	SEJA, CIVU controlled manually	4

Priority	FS Road	Location Description	Weed(s)	2007 FS Priority	County Priority	Prior Control?	New (05-07) Infestation	TrHd/CG	'98 EA Site	WCC, OCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Action 2007	Total no. of Categories
4	2510000	entire rd sys - Duckabush and Fulton Ck	PHAR3 SEJA, CEDE5 CEBI2		Y	Y			Y					Treated some - chemical	GERO, HYPE, CIAR4, CIVU, RUDI2, RULA and SEJA treated chemically	4
4	2870000	Tubal Cain TrHd (840)	CIAR4	Y		Y			Y					Treated all - chemical	Treated all - chemical	4
4	2870300	Silver Cr Waytrail	CIAR4	Y		Y			Y					Treated at trailhead - chemical	Treated all - chemical	4
4	SR101	N. of Seal Rock CG	HIPR GERO		Y	Y	Y							Marked for WSDOT to spray	Controlled manually	4
5	3040000	from Hwy 112 to 3068000	SEJA GERO			Y								None (Treated some CYSC4)	SEJA, GERO and CYSC4 controlled manually	3
5	2800000		SEJA			Y								Treated some - manual	SEJA and CEDE5 controlled manually	3
5	2855070	Off Woods Rd.	SEJA			Y								Treated all - manual	None	3
5	2855070	Off Woods Rd. MP 0.01, 0.13	GERO			Y								Treated some - manual	None	3
5	2900000	West end	SEJA			Y								Treated some - manual	SEJA controlled manually	3
5	2900000	MP 36.3ish	GERO CYSC4			Y	Y			Y				None	None	3
5	2855000		CEBI2 CEDE5		Y	Y								Treated some - manual	None	3

Priority	FS Road	Location Description	Weed(s)	2007 FS Priority	County Priority	Prior Control?	New (05-07) Infestation	TrHd/CG	'98 EA Site	WCC, OCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Action 2007	Total no. of Categories
5	2855000		CEBI2, CEDE5		Y	Y								Treated some - manual	None	3
5	2870230		SEJA			Y	Y							Treated some - chemical	None	3
5	2870000	Off Lost Mtn. Rd.	SEJA	Y		Y								Treated most - manual	Treated manually	3
5	3068000	Off 3040, above Snider	CYSC4 SEJA, CEDE5	Y		Y	Y							None	None	3
5	2610040	Dosewallips Rd.	SEJA	Y		Y	Y							None	None	3
5	2800310	Schmith Knob	CYSC4			Y								Treated some - manual	CYSC4 controlled manually	3
5	2740000	From spur 060 to end (at TrHd 841.1) >7mi	??	Y		Y							Y	Surveyed all - few weeds - repeat survey in 2007 in July	CYSC4 treated manually	3
5	2730200	Falls View CG	GERO SEJA, CIVU			Y		Y		Y				None	None	3
5	2610012	Dose Rd. spur - 1.8mi - cond unknown	CIAR4 ??	Y		Y							Y	Surveyed to CMP sta. 25+22 - Treated some - manual	None	3
5	2700330	1.4 mi -cond unk	GERO	Y		Y							Y	Surveyed all - scattered weeds: SEJA, CIAR4, LALA4, etc.	None	3

Priority	FS Road	Location Description	Weed(s)	2007 FS Priority	County Priority	Prior Control?	New (05-07) Infestation	TrHd/CG	'98 EA Site	WCC, OCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Action 2007	Total no. of Categories
5	3000200		GERO PHAR3	Y		Y			Y					Treated to MP 2.5 - chemical	None	3
5	3000250		GERO PHAR3	Y		Y			Y					Treated all - chemical	None	3
5	3040800	West Snyder Rd	GERO			Y			Y					Treated some - chemical	GERO treated chemically	3
5	2870270	Maynard Burn Trail	CIAR4			Y			Y					Treated all - chemical	CIVU treated chemically	3
6	CR2065	Cooper-Ranch Rd.	CYSC4 SEJA			Y				Y				None	None	2
6	2730000	Mt. Walker	SEJA TAVU			Y				Y				None	None	2
6	2620000	Rocky Brook Rd.	SEJA CYSC4 GERO CIVU, RULA			Y				Y				None	None	2
6	2850000		SEJA GERO			Y				Y				None	None	2
6	2852000	Road sys	SEJA			Y				Y				None	None	2
6	CR2065	Cooper-Ranch Rd.	GERO				Y			Y				None	None	2
6	2800270		CYSC4 SEJA			Y	Y							None	None	2
6	2851000		SEJA			Y	Y							None	None	2
6	2878000		CYSC4			Y	Y							None	None	2
6	2900200	West end	CYSC4 SEJA			Y	Y							None	None	2
6	3000000		SEJA			Y	Y							None	None	2
6	2800290		SEJA CYSC4			Y	Y							Surveyed all - some CIAR4	None	2
6	2620056	MP 0.75	CEDE5		Y	Y								None	None	2
6	2830000	MP 0.61	CEBI2, CEDE5		Y	Y								None	None	2

Priority	FS Road	Location Description	Weed(s)	2007 FS Priority	County Priority	Prior Control?	New (05-07) Infestation	TrHd/CG	'98 EA Site	WCC, OCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Action 2007	Total no. of Categories
6	2900000		POSA4		Y	Y								None	None	2
6	2923000	MP 4.57	HIAU		Y	Y								Surveyed - did not find site	Surveyed - did not find site	2
6	2610050	Elkhorn CG	POBO10		Y				Y					Surveyed - no weeds	None	2
6	2740110	Charlia Lks E Waytrail-WILDERNESS	CEBI2		Y				Y					None	None	2
6	2740000	Tunnel Cr TrHd (841.1)	CIAR4 SEJA					Y	Y					Surveyed - no weeds	None	2
6	2750000	Upper Big Quil TrHd (833)	CIAR4					Y	Y					None	None	2
6	3068050	Off 3040, above Snider	any	Y		Y								None	CYSC4 treated manually	2
6	3068150	Off 3040, above Snider	any	Y		Y								None	CYSC4 treated manually	2
6	3068190	Off 3040, above Snider	any	Y		Y								None	CYSC4 treated manually	2
6	3068200	Off 3040, above Snider	CYSC4	Y		Y								None	None	2
6	2860000		CYSC4	Y		Y								None	None	2
6	2860000	Gold Creek extension	CIVU	Y		Y								None	None	2
6	2650000	MP 1.56	ARMI2	Y		Y								None	None	2
6	2920020	1.4 mi - 4x4?	??	Y									Y	None	None	2
6	3040100	2.22 mi - drive	??	Y									Y	Surveyed all - no weeds	Surveyed all - no weeds	2
6	3040115	.68 mi - drive	??	Y									Y	Surveyed all - no weeds	Surveyed all - no weeds	2
6	3040200	.47 mi - drive	??	Y									Y	Surveyed all - no weeds	Surveyed all - no weeds	2

Priority	FS Road	Location Description	Weed(s)	2007 FS Priority	County Priority	Prior Control?	New (05-07) Infestation	TrHd/CG	'98 EA Site	WCC, OCC Priority	Botanical Area	Pit	To be decommissioned	Action 2006	Action 2007	Total no. of Categories
6	3040000	unlabelled spur - station 15888 - near jct 2068 - .12mi - drive	??	Y									Y	Surveyed all - no weeds	Surveyed all - no weeds	2
6	3040000	unlabelled spur - station 17000 - near MP 11 - .33mi - walk	??	Y									Y	Surveyed all - no weeds - no spur at this location	None	2
6	2923100	at 2923 fork	GERO	Y					Y					Surveyed for - could not find	None	2

Appendix G: Potential OCC Projects for 2008

This is a list of sites treated by the OCC crew in 2007. It is highly recommended that they return and re-treat all of these sites in 2008 and treat other pits and quarries in western Jefferson and Clallam Counties as they are discovered. Their focus in 2007 was Scotch broom and it is recommended that this remain the primary focus but that they treat blackberry (both Himalayan and evergreen), tansy ragwort, knapweed and knotweed species as time allows.

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Watershed	Site Name	County	Weed Species	Acres Treated 2007	Method	Date
Hoh River	Winfield Pit	Jefferson	CYSC4	43	Manual and CHEMICAL	6/19/07
Hoh River	Winfield Pit	Jefferson	CYSC4	28	Manual	6/26/07
Hoh River	Winfield Pit	Jefferson	CYSC4	15	Manual	7/3/07
Hoh River	Hoh Mainline	Jefferson	CYSC4	144	Manual and CHEMICAL	7/10/07
Hoh River	Winfield Pit	Jefferson	CYSC4	9	Manual	7/12/07
Hoh River	Capitol Split/Dry Creek	Jefferson	CYSC4 RUDI2	25	Manual	7/17/07
Hoh River	Capital Split Road	Jefferson	CYSC4 RUDI2	21	CHEMICAL	7/25/07
Hoh River	Snahappish Pit	Jefferson	CYSC4	9	Manual	7/31/07

Appendix H: Control Recommendations By Weed Species

Tansy ragwort (*Senecio jacobaea*)

Control Recommendations Protocol:

1. These control recommendations are based on best management practices for our local forest.
2. The overall system burden of invasive plant species needs to be reduced before manual and mechanical methods become feasible in many cases.
3. Greater emphasis needs to be placed on prevention and early detection, continued surveys, early intervention, and incorporation of weed control into Forest Service projects such as road decommissioning, restoration, and routine road maintenance.
4. Effective noxious weed control depends on a combination of factors: plant biology, level of infestation, and location. These control recommendations reflect a consideration of Olympic National Forest conditions with currently available data.
5. For additional control recommendations, see Common Control Measures for Invasive Plants of the Pacific Northwest Region. (A NFS publication.)

Plant Code	Common Name	*Botanical Name*	Control Recommendation
BORAG	borage	*Borago officinalis*	Minimal occurrence; spot herbicide application
CIVU	bull thistle	*Cirsium vulgare*	Where minimal occurrence, manual removal; spot herbicide application to rosettes by early spring or to second year growth, before budding
CIAR4	Canada thistle	*Cirsium arvense*	Manual removal has limited effectiveness, for only very early infestations; spot herbicide application with glyphosate at bud to full bloom; fall or foliar application of a selective herbicide throughout the summer, fall
ARMI2	common burdock	*Arctium minus*	Where minimal occurrence, manual removal; spot herbicide application to rosettes by early spring; or to second year growth, before budding
TAVU	common tansy	*Tanacetum vulgare*	Spot herbicide application
LIVU2	common toadflax	*Linaria vulgaris*	Spot herbicide application
CEDI3	diffuse knapweed	*Centaurea diffusa*	Manual removal for very small sites; foliar herbicide application - clopyralid preferred
ILAQ80	English holly	*Ilex aquifolium*	Manual removal; cut stump or foliar herbicide treatment
HEHE	English ivy	*Hedera helix*	Manual removal; cut stump or foliar herbicide application
RULA	evergreen blackberry	*Rubus laciniatus*	Cut stump or foliar herbicide application - triclopyr preferred
LALA4	everlasting peavine	*Lathyrus latifolius*	Foliar herbicide application - clopyralid preferred

Plant Code	Common Name	*Botanical Name*	Control Recommendation
CEJA	meadow knapweed	*Centaurea jacea x nigra*	Foliar herbicide application with selective herbicide - clopyralid preferred
GERO	herb Robert	*Geranium robertianum*	Manual removal for small infestations; spot herbicide application where feasible;
RUDI	Himalayan blackberry	*Rubus discolor*	Treat cut stump with glyphosate or foliar application as appropriate to site
	knotweed species	*Polygonum spp.*	Injection with glyphosate; and/or foliar application of glyphosate
CEJA	meadow knapweed	*Centaurea jacea x nigra*	Foliar herbicide application - clopyralid preferred
HIAU	orange hawkweed	*Hieracium aurantiacum*	Spot spray with selective herbicide in late spring or summer; - clopyralid preferred - possible manual removal for very small infestation
LEVU	oxeye daisy	*Leucanthemum vulgare*	Pervasive. Preventative control should be incorporated into restoration and maintenance projects. Herbicide control options are available should this species otherwise become a resource management issue.
LYSA2	purple loosestrife	*Lythrum salicaria*	There is only one known site: manual removal should be possible, however herbicide application is available (potential aquatic application)
PHAR3	reed canary grass	*Phalaris arundinacea*	Selective or glyphosate in mid-June and mid-Sept.
COTON	rockspray cotoneaster	*Cotoneaster horizontalis*	Manual removal; herbicide treatment only if size of infestation increases
CYSC4	Scotch broom	*Cytisus scoparius*	Manual removal for small infestations; cut stump treatments preferred for very large infestations, foliar herbicide applications possible
CEBI2	spotted knapweed	*Centaurea stoebe*	Manual removal very small sites; spot application with selective herbicide - clopyralid preferred
HYPE	St. Johnswort	*Hypericum perforatum*	Pervasive. Preventative control should be incorporated into restoration and maintenance projects. Herbicide control options are available should this species otherwise become a resource management issue.
SEJA	tansy ragwort	*Senecio jacobaea*	Will require systematic removal from roadsides and follow-up; manual removal before full bloom (after full bloom, flower heads need to be removed and disposed of); selective herbicide application in first year or by April/May of 2nd year.
DACA6	wild carrot	*Daucus carota*	Manual removal; spot herbicide application
ANSY	wild chervil	*Anthriscus sylvestris*	Manual removal; spot herbicide application

Appendix I: Clallam County Sheriff's/Road Department Chain Gang Work Summary

In 2007, the Chain Gang continued its effort to control noxious weeds on National Forest lands in Clallam County. Their participation in this project is important for its success.

Weed – by date	Date	Road(s)	# of Plants Removed
Scotch broom	4/07	2918	1,500
Scotch broom	6/07	2900	4,850
tansy ragwort	6/07	2900,2850	3,750
meadow knapweed	7/07	2850 and spur 200, 2855 and spur 070	1,100
Scotch broom	7/07	3000, 2900, 2850 and spur 200, 2855 and spur 070	3,550
tansy ragwort	7/07	2700, 2800, 2900, 2952, 2945, 2940, 2950, 2850 and spur 200, 2855 and spur 070	3,825
Scotch broom	8/07	2875, 2870 spur 260	46,900
tansy ragwort	8/07	2855, 2850 spur 010, 2851, 2900, 2840	50
Scotch broom	9/07	2900, 3000, 3067	5,425
tansy ragwort	9/07	2900	75
Scotch broom	10/07	2900, 2918	1,675
TOTAL			**72,700**

Weed – by weed	Date		
Scotch broom	4/07	2918	1,500
Scotch broom	6/07	2900	4,850
Scotch broom	7/07	3000, 2900, 2850 and spur 200, 2855 and spur 070	3,550
Scotch broom	8/07	2875, 2870 spur 260	46,900
Scotch broom	9/07	2900, 3000, 3067	5,425
Scotch broom	10/07	2900, 2918	1,675
Sub-total			**63,900**
tansy ragwort	6/07	2900,2850	3,750
tansy ragwort	7/07	2700, 2800, 2900, 2952, 2945, 2940, 2950, 2850 and spur 200, 2855 and spur 070	3,825
tansy ragwort	8/07	2855, 2850 spur 010, 2851, 2900, 2840	50
tansy ragwort	9/07	2900	75
Sub-total			**7,700**
meadow knapweed	7/07	2850 and spur 200, 2855 and spur 070	**1,100**
TOTAL			**72,700**

Appendix J: Weed Species Reported, 2002-2007

herb Robert (*Geranium robertianum*)

Plant Codes come from the USDA/Natural Resources Conservation Service PLANTS database.

Common Name	*Botanical Name*	Plant Code
borage	*Borago officinalis*	BOOF
bull thistle	*Cirsium vulgare*	CIVU
Canada thistle	*Cirsium arvense*	CIAR4
common burdock	*Arctium minus*	ARMI2
common tansy	*Tanacetum vulgare*	TAVU
common toadflax	*Linaria vulgaris*	LIVU2
diffuse knapweed	*Centaurea diffusa*	CEDI
English holly	*Ilex aquifolium*	ILAQ80
English ivy	*Hedera helix*	HEHE
evergreen blackberry	*Rubus laciniatus*	RULA
everlasting peavine	*Lathrus latifolius*	LALA4
giant knotweed	*Polygonum sachalinense*	POSA4
herb Robert	*Geranium robertianum*	GERO
Himalayan blackberry	*Rubus discolor*	RUDI2
Japanese knotweed	*Polygonum cuspidatum*	POCU6
meadow knapweed	*Centaurea debeauxii*	CEDE5
orange hawkweed	*Hieracium aurantiacum*	HIAU
oxeye daisy	*Leucanthemum vulgare*	LEVU
purple loosestrife	*Lythrum salicaria*	LYSA2
reed canary grass	*Phalaris arundinacea*	PHAR3
rockspray cotoneaster	*Cotoneaster*	COTON
Scotch broom	*Cytisus scoparius*	CYSC4
spotted knapweed	*Centaurea stoebei*	CEBI2
St. Johnswort	*Hypericum perforatum*	HYPE
tansy ragwort	*Senecio jacobaea*	SEJA
wild carrot	*Daucus carota*	DACA6
wild chervil	*Anthriscus sylvestris*	ANSY
yellow hawkweed	*Hieracium caespitosum*	HICA10

Appendix K: WA State Noxious Weed List

Noxious weeds are non-native plants introduced to Washington through human actions. Because of their aggressive growth and lack of natural enemies in the state, these species can be highly destructive, competitive or difficult to control. These exotic species can reduce crop yields, destroy native plant and animal habitat, damage recreational opportunities, clog waterways, lower land values and poison people and livestock.

To help protect the state's resources, the Washington State Noxious Weed Control Board adopts a State Noxious Weed List each year. This list categorizes weeds into three major classes - A, B & C -according to the seriousness of the threat they pose to the state or a region of the state.

Class A Weeds: Non-native species with a limited distribution in Washington. Preventing new infestations and eradicating existing infestations is the highest priority. **Eradication is required by law.**

Common Name	Scientific Name
bean-caper, Syrian	*Zygophyllum fabago*
blueweed, Texas	*Helianthus ciliaris*
broom, Spanish	*Spartium junceum*
buffalobur	*Solanum rostratum*
clary, meadow	*Salvia pratensis*
cordgrass, dense flower	*Spartina densiflora*
cordgrass, salt meadow	*Spartina patens*
crupina, common	*Crupina vulgaris*
flax, spurge	*Thymelaea passerina*
four o'clock, wild	*Mirabilis nyctaginea*
goatsrue	*Galega officinalis*
hawkweed, yellow devil	*Hieracium floribundum*
hogweed, giant	*Heracleum mantegazzianum*
hydrilla	*Hydrilla verticillata*
johnsongrass	*Sorghum halepense*
knapweed, bighead	*Centaurea macrocephala*
knapweed, Vochin	*Centaurea nigrescens*
kudzu	*Pueraria montana* var. *lobata*
lawnweed	Soliva sessilis
mustard, garlic	*Alliaria petiolata*
nightshade, silverleaf	*Solanum elaeagnifolium*
*primrose-willow, floating	*Ludwigia peploides*
sage, clary	*Salvia sclarea*
sage, Mediterranean	*Salvia aethiopis*
spurge, eggleaf	*Euphorbia oblongata*
starthistle, purple	*Centaurea calcitrapa*
*sweetgrass, reed	*Glyceria maxima*
thistle, Italian	*Carduus pycnocephalus*
thistle, milk	*Silybum marianum*
thistle, slenderflower	*Carduus tenuiflorus*
velvetleaf	*Abutilon theophrasti*
woad, dyers	*Isatis tinctoria*

Appendix K: WA State Noxious Weed List, continued

Class B Weeds: Non-native species presently limited to portions of the state. Species are designated for control in regions where they are not yet widespread. Preventing new infestations in these areas is a high priority. In regions where a Class B species is already abundant, control is decided at the local level, with containment as the primary goal.

Common Name	Scientific Name
alyssum, hoary	*Berteroa incana*
arrowhead, grass-leaved	*Sagittaria graminea*
blackgrass	*Alopecurus myosuroides*
blueweed	*Echium vulgare*
broom, Scotch	*Cytisus scoparius*
bryony, white	*Bryonia alba*
bugloss, common	*Anchusa officinalis*
bugloss, annual	*Anchusa arvensis*
camelthorn	*Alhagi maurorum*
carrot, wild	*Daucus carota*
catsear, common	*Hypochaeris radicata*
chervil, wild	*Anthriscus sylvestris*
cinquefoil, sulfur	*Potentilla recta*
cordgrass, smooth	*Spartina alterniflora*
cordgrass, common	*Spartina anglica*
daisy, oxeye	*Leucanthemum vulgare*
elodea, Brazilian	*Egeria densa*
fanwort	*Cabomba caroliniana*
fennel, common	*Foeniculum vulgare*
fieldcress, Austrian	*Rorippa austriaca*
floating heart, yellow	*Nymphoides peltata*
gorse	*Ulex europaeus*
hawkweed, mouseear	*Hieracium pilosella*
hawkweed, orange	*Hieracium aurantiacum*
hawkweed, queen-devil	*Hieracium glomeratum*
hawkweed, smooth	*Hieracium laevigatum*
hawkweed, yellow	*Hieracium caespitosum*
hedgeparsley	*Torilis arvensis*
helmet, policeman's	*Impatiens glandulifera*
herb-Robert	*Geranium robertianum*
houndstongue,	*Cynoglossum officinale*
indigobush	*Amorpha fruticosa*
knapweed, black	*Centaurea nigra*
knapweed, brown	*Centaurea jacea*
knapweed, diffuse	*Centaurea diffusa*
knapweed, meadow	*Centaurea jacea x nigra*
knapweed, Russian	*Acroptilon repens*
knapweed, spotted	*Centaurea stoebe*
knotweed, Bohemian	*Polygonum bohemicum*
knotweed, giant	*Polygonum sachalinense*
knotweed, Himalayan	*Polygonum polystachyum*
knotweed, Japanese	*Polygonum cuspidatum*
kochia	*Kochia scoparia*
laurel, spurge	*Daphne laureola*
lepyrodiclis	*Lepyrodiclis holosteoides*
loosestrife, garden	*Lysimachia vulgaris*
loosestrife, purple	*Lythrum salicaria*
loosestrife, wand	*Lythrum virgatum*
nutsedge, yellow	*Cyperus esculentus*
oxtongue, hawkweed	*Picris hieracioides*
parrotfeather	*Myriophyllum aquaticum*
pepperweed, perennial	*Lepidium latifolium*
primrose, water	*Ludwigia hexapetala*
puncturevine	*Tribulus terrestris*
ragwort, tansy	*Senecio jacobaea*
saltcedar	*Tamarix ramosissima*
sandbur, longspine	*Cenchrus longispinus*
skeletonweed, rush	*Chondrilla juncea*
sowthistle, perennial	*Sonchus arvensis* ssp. *arvensis*
spurge, leafy	*Euphorbia esula*
spurge, myrtle	*Euphorbia myrsinites*
starthistle, yellow	*Centaurea solstitialis*
swainsonpea	*Sphaerophysa salsula*
thistle, musk	*Carduus nutans*
thistle, plumeless	*Carduus acanthoides*
thistle, Scotch	*Onopordum acanthium*
toadflax, Dalmatian	*Linaria dalmatica ssp. dalmatica*
watermilfoil, Eurasian	*Myriophyllum spicatum*

Appendix K: WA State Noxious Weed List, continued

Class C Weeds: Non-native weeds found in Washington. Many of these species are widespread in the state. Long-term programs of suppression and control are a county option, depending upon local threats and the feasibility of control in local area.

Common Name	Scientific Name
babysbreath	Gypsophila paniculata
beard, old man's	*Clematis vitalba*
bindweed, field	*Convolvulus arvensis*
butterfly bush	*Buddleja davidii*
canarygrass, reed	*Phalaris arundinacea*
cockle, white	*Silene latifolia* ssp. *alba*
cocklebur, spiny	*Xanthium spinosum*
cress, hoary	*Cardaria draba*
dodder, smoothseed alfalfa	*Cuscata approximata*
goatgrass, jointed	*Aegilops cylindrica*
groundsel, common	*Senecio vulgaris*
hawkweed, nonnative and invasive species not listed elsewhere	*Hieracium* spp.
henbane, black	*Hyocyamus niger*
iris, yellow flag	*Iris pseudocorus*
ivy, English	*Hedera helix* 'Baltica'
four cultivars only	*Hedera helix* 'Pittsburgh'
	*Hedera helix '*Star
	'Hedera hibernica 'Hibernica'
mayweed, scentless	*Matricaria perforata*
poison-hemlock	*Conium maculatum*
pondweed, curly-leaf	*Potamogeton crispus*
reed, common (nonnative genotypes)	*Phragmites australis*
rye, cereal	*Secale cereale*
spikeweed	*Hemizonia pungens*
St. Johnswort, common	*Hypericum perforatum*
tansy, common	*Tanacetum vulgare*
thistle, bull	*Cirsium vulgare*
thistle, Canada	*Cirsium arvense*
toadflax, yellow	*Linaria vulgaris*
water lily, fragrant	*Nymphaea odorata*
whitetop, hairy	*Cardaria pubescens*
willow-herb, hairy	*Epilobium hirsutum*
wormwood, absinth	*Artemisia absinthium*
archangel, yellow	*Lamiastrum galeobdolon*

Appendix L: Project Forms

- Sample Invasive Plant Inventory Data Collection Form
- FACTS Manual Treatment Data Form
- Instructions for Filling out FACTS Manual Treatment Data Form
- FACTS Herbicide Application Data Form
- Instructions for Filling out FACTS Herbicide Application Data Form
- Rock Source Inspection Form

Sample Invasive Plant Inventory Data Collection Form

20060911.pdr

Olympic NF/Clallam and Jefferson County Noxious Weed Control Boards
Invasive Plant Inventory Form
Adapted from NF/pg NRIS TERRA Form
July 2003 cld

Fill out one form for each weed, and attach a map to each form. Site ID must be unique for each form.

Site ID: Region 06, Forest 09, District: (circle) 01 Hoodsport 03 Quinault ~~02 Quilcene~~ 05 Soleduck

Twnshp (2): 28W Range (2): 03W Section (2): 10 Qtr. Section (2): SW (NE, NW, SE, SW) Qtr Qtr: SE

Initials (2): [illegible] Road ID (6): 2800132 Ownership: FS

Weed PLANTS Code (4): CEDI3 *Common Name:* Diffuse Knapweed

Weed Class: A B+ Bs Cs Date (MM/DD/YYYY): 09/16/06

Primary Examiner (Last, First, Middle): McDorman Land Use: Roadside

WA State County (Circle) 009 Clallam 031 Jefferson Compliance Date

Location at site: _____

Site Address: _____

Owner and Owner Address: _____

_____

Parcel #: _____ Situs ID: _____ Land ID: _____

Previous Contact? ____ Contact? ____ Name: _____

Aspect (deg) ____ OR ALL Average Slope (%) ____

Elevation (ft) _____ min _____ max OR _____ average

Circle *Dominant Life Form: AL Algae, FB Forb, GR Graminoid, LC Lichen, NP Nonvascular plant, SH Woody shrub, SS Subshrub, TR Tree

3 Dominants	PLANTS Code	Scientific Name.

Site Comments (Directions, description, aerial photo # and aerial photo date, etc) _____

End of Road

Infestation Density (1-5): ____

Infestation Size in Acres (≤1, 1-5, 5-10, 10-20): ____

* Must make address based on nearest possible – then estimate

Sample Invasive Plant Inventory Data Collection Form, continued

Circle one each for phenology, life form, and distribution of the weed.

Phenology		Grasses		Forbs and Shrubs	
	G1	Leaves Partially Developed, no heads	F1	Vegetative, rosette, pre-flowering	
	G2	Inflorescence inside the sheath	(F2)	Flowering	
	G3	Inflorescence partially or fully extended	F3	Fruiting	
	G4	Seeds maturing or mature	F4	Senescent or dormant	
	G5	Senescent or dormant			
	RG	Regrowth			

Life Form	AL	Algae	LC	Lichen	SS	Sub-shrub
	(FB)	Forb	LI	Woody liana	TR	Tree
	FU	Fungus	NP	Nonvascular plant	UN	Unknown
	GR	Graminoid	SH	Woody Shrub	VI	Herbaceous Vine

Distribution	(CL)	Clumpy	SE	Scattered even
	SP	Scattered patchy	LI	Linear

*Infested Area (acres) _____1_____ Gross area (ac) _____

(Infested area is REQUIRED. Minimum size is 0.1 acre. Use Gross Area ONLY when portions of polygon are uninfested. Minimum Gross Area ≥ 1 acre. Gross Area x % of land occupied by weeds = Infested Area.)

*Weed Canopy Cover of Infested Area

Daubenmire Cover Class				OR	Estimated percent cover _____		
T	0 – 1%	(2)	5.1 – 25%	4	50.1 – 75.0%	6	95.1 – 100%
1	1 – 5.0 %	3	25.1 – 50.0%	5	75.1 – 95.0%		

Horizontal Distance to Water (ft) _____ Vertical Distance to Water (ft) _____

as crow flies, not slope distance

Associated Species	PLANTS Code	Scientific Name
	_____	_____
	_____	_____
	_____	_____

Comments: ~~Sweep~~ pulled all found (453) +10 Meadow Knapweed

Map: **North**

FACTS Manual Treatment Data Form

General Activity Fields

Region	Forest	District	Watershed Name (FACTS_ID)	Subunit #	Treatment (Subunit) Name	Owner	Workforce
06	09	2	Dungeness River	2	Dungeness corrective stewardship Rd 2870053 decomm.	FS	Clallam/Jeff PA

Method Code	Equipment Code	Fund Code	# of Units Accomplished (Acres)	Comments
100	113 Davey Digger		2	mp

Site Fields

Treatment Type	Start Date	Stop Date	Application Site	Crew Leader
MH	9/7/01	9/7/01	Roadway	Ross McDorman

Target Weeds	Infested Area Treated (Acres)	Phenology—circle appropriate stage for the majority of the plants
Meadow knapweed CEDE5	.2	Vegetative / (Flowering) / Fruiting
		Vegetative / Flowering / Fruiting
		Vegetative / Flowering / Fruiting
		Vegetative / Flowering / Fruiting
		Vegetative / Flowering / Fruiting
		Vegetative / Flowering / Fruiting
		Vegetative / Flowering / Fruiting
		Vegetative / Flowering / Fruiting

Instructions for filling out the FACTS Manual Treatment Data Form
Olympic National Forest

General Activities Fields

District:
Provided in the projects table included in the contract or agreement package.

Watershed Name:
Provided in the projects table included in the contract or agreement package.

Subunit #:
Provided in the projects table included in the contract or agreement package.

Treatment (Subunit) Name:
Provided in the projects table included in the contract or agreement package.

Workforce:
Name of company, agency, or group performing the work.

Equipment Code:
Enter the number code for the type of equipment used for the treatment.

Manual treatments	
101	axe
103	hand saw
105	hoe
108	loppers
109	machette
110	planting bar
112	pole pruner
113	hand tool
118	rake
121	shovel
122	pulaski

Fund Code:
Provided in the projects table included in the contract or agreement package.

# of Units Accomplished (Acres):
This is the actual extent in acres of the treatment. This represents the non-overlapping treatment area.

Comments:

Enter comments relevant to the project.

Site Fields

Start Date/Stop Date:

Date treatment work began and ended on the project.

Application Site:

Select a category below that best describes the treatment area.

Campground
Forest
Right of way/road edge
Riparian
Trailhead

Crew Leader:

Name of the crew leader.

Target Weeds:

Name of the weeds being treated.

Infested Area Treated (Acres):

Portion of the area infested by a single species that was treated. Report in acres.

FACTS Herbicide Application Data Form

General Activity Fields

Region	Forest	District	Watershed Name (FACTS_ID)	Subunit #	Treatment (Subunit) Name	Owner	Workforce
06	09	2	Dungeness River	1	Cranberry Bog Botanical Area	FS	Clallam/Jefferson PA WCC

Method Code	Equipment Code	Fund Code	Comments
700	712		Treatment should be done earlier in the season. Reed canarygrass and thistle had both set seed.

Site Fields

Treatment Type	Start Date	Stop Date	Application Site	Licensed Applicator: Name and License #	Applicators
Pesticide	8/28/07	8/28/07	Botanical Area	Ross McDorman #72443	Dave Coffey's WCC Crew

Target Weeds	Infested Area Treated (Acres)	Phenology—circle appropriate stage for the majority of the plants
Reed Canarygrass (PHAR3)	2	Vegetative / Flowering / (Fruiting)
Canada Thistle (CIAR4)	1	Vegetative / (Flowering) / Fruiting
Bull thistle (CIVU)	1	Vegetative / Flowering / (Fruiting)
Herb Robert (GERO)	1	Vegetative / (Flowering) / Fruiting
		Vegetative / Flowering / Fruiting

DailyLog

Application Date	Time Start (military time)	Time Stop (military time)	Application Area (Acres)	Temp (F)	Wind Speed (MPH)	Wind Direction	Cloud Cover	RH%	Water Distance
8/28/07	10:00	14:00	4	65-70°	5-10	S/SE	5%		

Calibrated Volume	UOM	Volume Applied	UOM	Dilutant
	Gal/Acre	80	Gal	Water

Herb Product Name	Product Rate	UOM	Adjuvants	Product Rate	UOM
Agua Neat	40	Oz/Ac	Competitor	13.3	Oz/Ac
		Oz/Ac	Blazon Blue	10	Oz/Ac
		Oz/Ac			Oz/Ac

Remarks: Spot spray. 160 oz of Agua Neat applied in a 1.5% solution (2 oz/gal)

Instructions for filling out the FACTS Herbicide Application Data Form
Olympic National Forest

General Activities Fields

District:
Provided in the projects table included in the contract or agreement package.

Watershed Name:
Provided in the projects table included in the contract or agreement package.

Subunit #:
Provided in the projects table included in the contract or agreement package.

Treatment (Subunit) Name:
Provided in the projects table included in the contract or agreement package.

Workforce:
Name of company, agency, or group performing the work.

Equipment Code:
Enter the number code for the type of equipment used for the treatment.

Chemical treatments

711	hand sprayer
712	backpack sprayer
713	hack and squirt
714	hand spreader
716	infector
721	mobile ground sprayer
000	other

Fund Code:
Provided in the projects table included in the contract or agreement package.

Comments:
Enter comments relevant to the project. **Note:** comments specific to the date of treatment should be reported in the Daily Log block under remarks

Site Fields

Start Date/Stop Date:
Date treatment work began and ended on the project.

Application Site:
Select a category below that best describes the treatment area.

Campground
Forest
Right of way/road edge
Riparian
Trailhead

Licensed Applicator:
Name of licensed applicator at the site.

License #:
Provide the licensed applicator's Washington State pesticide applicator license number.

Target Weeds:
Name of the weeds being treated.

Infested Area Treated (Acres):
Portion of the area infested by a single species that was treated. Report in acres.

Daily Log

Application Date:
Date the application was applied. **Note:** if more than one day is needed to treat the site, a daily log must be filled out for each day herbicide applications occurred.

Time Start/Time Stop:
Record the time herbicide application began and ended in military time.

Application Area:
This is the actual extent in acres of the treatment for the specific Daily Log entry. This represents the non-overlapping treatment area.

Calibrated Volume:
The volume (gallons per acre) in which the applicator and equipment have been calibrated and is used to determine the mixing rate. Example: spot treatment with backpack sprayers calibrated for 100 gallons per acre, enter 100. **Note:** the 'calibrated volume' value must be within the parameters established by the pesticide label.

Volume Applied:
The total volume of the tank mix applied on the site (including product and dilutant). Example: 2.5 gallons of spray mix are actually applied on a 1/10 acre site. This will often be less than the calibrated volume for the site, where the calibrated volume would be to

apply 10 gallons of mix by backpack sprayer on 1/10 acre if the total area were sprayed rather than spot spraying within 1/10 acre.

Remarks:
Enter relevant comments concerning the pesticide application.

Herb Product Name:
Record the product name. **Note:** if tank mixing, list all products added to the tank.

Product Rate:
The label rate of the pesticide product in oz per acre as instructed on the product label.

Adjuvants:
Record the product name and product rate of adjuvants used.

Compliance Form: Invasive Plant ROD Standard 7:

"Inspect active gravel, fill, sand stockpiles, quarry sites and barrow material for invasive plants before use and transport.
Treat or require treatment of infested sources before any use of pit material
Use only gravel, fill, sand, and rock judged to be weed free by District or Forest Weed Specialists" per ROD, October 11, 2005

This form is to be placed in project implementation folder:

Project Name: Cakawah Pit
Legal Description (Township/Range/Section) _____
Name of Rock Source: Cakawah Pit
Pit or Quarry Rock Source Inventory (RSI) Number or Road Number & Milepost: 7900015 MP. 0.1
Name and Title if Inspector: Ross McDermen Clallam Cnty. weed tech
Date of Inspection: 7/24/07

District or Forest Weed Specialist compliance statement and signature:
Based on the results of the rock source inventory (see backside of this form) conducted on the date above…..

CHECK ONE

☐ ***I hereby judge this rock material to be weed free and in full compliance with Standard 7 of the Invasive Plant FEIS and ROD.***

☒ ***I herby quarantine this rock material until it is treated and judged to be weed free.***

Name of Local Weed Specialist: Date:

_____ _____

Over ⟹

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REPORT ON ROCK SOURCE INVENTORY

Target species for conducting rock source inventories consist of the priority 1 & 2 invasive plants on the Olympic National Forest invasive plant list (attached). Report any invasive plants growing on the rock source itself, rimming the piles, or in the yard area.

Please attach:

1. **NRIS forms**
2. **Sketch map of the pit showing the location of the invasive plants**
3. **FACTS treatment form if treatment was conducted on site.**

Infested Area:

1. **Estimated size of the pit:** 4 **acres**
2. **Estimate the percent of the pit that is occupied by invasive plants** (if plants are scattered, mentally lump them together to estimate their cover in the pit)
   75 **%**

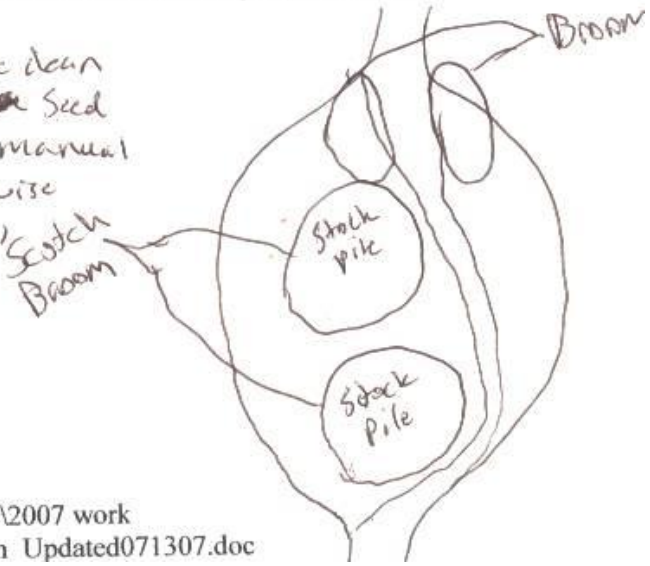
NRIS Site ID numbers for inventory:

Site ID #	Species Code	Common Name	Comments
	CYSC4	Scotch Broom	only on Stock piles

Mitigation/Treatment:

Provide recommendations for mitigation measures that would allow the rock material to be judged weed free. Include a proposed treatment plan listing possible treatment options and a timeline for anticipated follow-up treatments. Make notations on pit sketch map for clarification.

Many years before material will be clean lots of old plants guaranteed ~~the~~ Seed Bank, multiple years of more manual or chemical treatments, otherwise Broom will grow where material goes.



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