

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES HABITAT CONSERVATION PLAN FY 2003 Annual Report



Annual Report to the Services:
NOAA Fisheries
U.S. Fish and Wildlife Service

For the period July 1, 2002 – June 30, 2003

Habitat Conservation Plan Annual HCP Report to the Services for FY2003

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HABITAT CONSERVATION PLAN

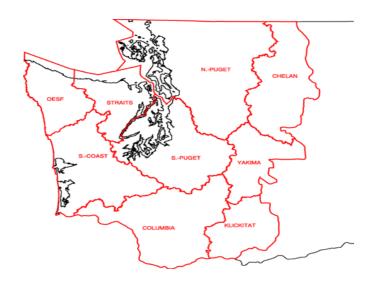
Annual Report to the Services

July 1, 2002 - June 30, 2003Fiscal Year 2003

INTRODUCTION

The Washington State Department of Natural Resources (DNR) Habitat Conservation Plan (HCP) is a forest management plan that applies to approximately 1.6 million acres of forestlands within the range of the northern spotted owl (*Strix occidentalis*) and managed by the DNR. The Plan (HCP) is a partnership between the DNR and the United States Fish and Wildlife Service and National Marine Fisheries Service (now known as NOAA Fisheries) (Services), authorized under the Endangered Species Act (ESA). In general, the HCP area includes all DNR trust lands west of the Cascade crest and those on the eastern slopes of the Cascades, from the Canadian border to the Columbia River. The HCP enables DNR to comply with ESA requirements by providing conservation objectives and strategies that provide habitat for listed and unlisted species while providing certainty, flexibility, and stability for the DNR in meeting its trust responsibilities.

HABITAT CONSERVATION PLAN: PLANNING UNITS



Westside HCP planning units: Olympic Experimental State Forest, South Coast, Columbia, South Puget, North Puget and Straits

Eastside HCP planning units: Chelan, Klickitat and Yakima

The Habitat Conservation Plan includes habitat management strategies for ESA listed species, and for unique habitats. Some of the major provisions of the HCP are described below.

HCP CONSERVATION PLANNING STRATEGIES

ESA Habitats Protected: HCP trust land management strategies focus primarily on habitat conservation and enhancement for species listed under the ESA. DNR's habitat management plan identifies specific habitat conservation strategies for the northern spotted owl, marbled murrelet, and for riparian dependent species such as bull trout and salmon. The objectives and strategies of the HCP are designed to conserve and enhance habitats that are scientifically appropriate for the support of multiple species, including those listed under the federal Endangered Species Act, and unlisted species.

Multiple Species Protected: The conservation strategies developed for the HCP were designed to provide appropriate habitat protection for many other species that are not currently listed or protected under the ESA. The Department intentionally approached land management in this manner in order to avoid future land management interruptions due to new ESA listings that could disrupt management planning. In addition, the HCP provides specific habitat protection appropriate for numerous state-listed species of concern.

Unique Habitats Protected: Protection of specific habitats includes identification of critical habitats, caves, talus slopes, wetlands, and nesting sites for many species. Future adaptive management changes could modify management practices to address species and habitat needs that is identified through research and monitoring. Therefore, the HCP is also a dynamic, scientifically based management-planning tool.

HIGHLIGHTS OF THE PAST YEAR

DNR has begun to focus on a long-term strategy for the marbled murrelet in the Columbia, South Coast, Straits and OESF Planning Units. The long-term strategy will cover approximately 750,000 acres of DNR-managed lands within these planning units. A "Draft" strategy identifying potential management alternatives is scheduled to be released for review in early 2004. Surveys continue in the North Puget Planning Unit with approximately 25 percent of the reclassified habitat surveyed to Pacific Seabird Group (PSG) protocol.

DNR has been working with the USFWS and the Washington Department of Fish and Wildlife (WDFW) to develop an adaptive management strategy that will address forest health issues and at the same time provide habitat that makes a significant contribution to demographic support, the maintenance of species distribution and the facilitation of dispersal opportunities for northern spotted owls. Several blocks of DNR lands are infested by forest insects, which have increased their susceptibility to fire and decreased their ability to provide suitable habitat for northern spotted owls. The department and the Services are currently reviewing an amended Northern Spotted Owl Conservation Strategy for the Klickitat Planning Unit. We anticipate the amended conservation strategy will be completed in early 2004.

Last year, DNR completed an implementation monitoring pilot project in the North Puget and South Puget planning units covering department trust land management activities. An evaluation of the pilot project has led us to make some modifications to this years'

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Implementation Monitoring review. The major changes to this year's implementation monitoring strategy are:

- Sampling HCP elements or strategies rather than activities, and
- Stratifying the samples so that we can more easily predict a statistically valid sample size.

Two main strategies were selected for review, the riparian strategy (specifically stream typing and riparian buffer protections), and the spotted owl strategy. Management activities completed during fiscal year 2002 were sampled in all planning units. Timber management activities, non-timber and silvicultural management activities were sampled and were either randomly selected or 100% sampled. A more detailed description of our methods is included in the Monitoring Section of this report. In subsequent years we plan to continue to select and review HCP elements or strategies in all planning units.

2. NRF AND DISPERSAL MANAGEMENT

Baseline Comparison of Acreage in Designated Areas FY2003 NRF & Dispersal Areas Compared to 1997 Baseline

| | | HCP P | LANNING | UNITS: A | CRES | | Totals |
|------------------------------|--------|----------|-----------|----------|--------|--------|---------|
| Designated Management | Chelan | Columbia | Klickitat | North | South | Yakima | Total |
| Areas | | | | Puget | Puget | | Acres |
| NRF: Jan 1997 | 5,647 | 54,157 | 20,096 | 109,409 | 2,648 | 13,567 | 205,524 |
| NRF: June 1999 | 5,848 | 53,192 | 20,943 | 111,203 | 2,648 | 13,567 | 207,401 |
| NRF: June 2000 | 5,848 | 53,192 | 20,974 | 111,203 | 2,648 | 13,567 | 207,432 |
| NRF: June 2001 | 5,851 | 53,192 | 20,974 | 111,363 | 2,648 | 13,567 | 207,595 |
| NRF: June 2002 | 5,851 | 53,252 | 20,974 | 111,363 | 2,648 | 13,567 | 207,655 |
| NRF: June 2003 | 5,851 | 53,252 | 21,089 | 111,195 | 2,453 | 13,567 | 207,407 |
| Dispersal: Jan 1997 | 0 | 38,645 | 79,095 | 16,068 | 71,492 | 8,332 | 213,632 |
| Dispersal: June 1999 | 0 | 35,234 | 79,095 | 15,344 | 75,302 | 8,332 | 213,307 |
| Dispersal: June 2000 | 0 | 35,234 | 79,095 | 15,344 | 75,302 | 8,332 | 213,307 |
| Dispersal: June 2001 | 0 | 35,234 | 79,095 | 15,344 | 75,302 | 8,332 | 213,307 |
| Dispersal: June 2002 | 0 | 31,890 | 79,095 | 15,344 | 78,179 | 8,332 | 212,840 |
| Dispersal: June 2003 | 0 | 31,890 | 79,095 | 15,344 | 78,179 | 8,332 | 212,840 |

Source: DNR Transactions 11/03

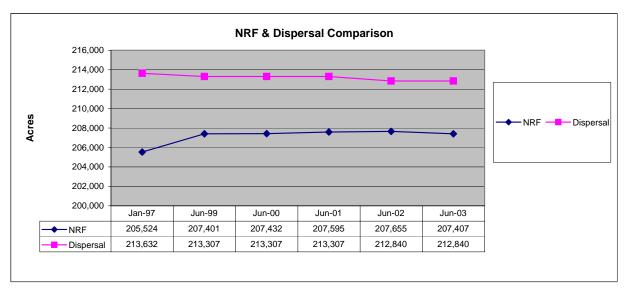
NOTE:

There are no designated NRF or Dispersal management areas in the OESF, Straits or South Coast HCP Planning Units.

Acreage measurements are rounded and may include approximations.

Information is subject to appropriate adjustments and adaptive management changes over time.

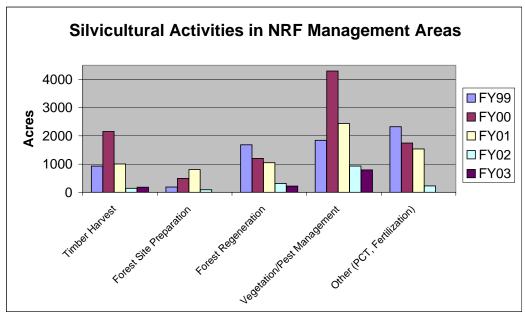
Changes in acreage may be due to management activities, asset repositioning, or updates and refinements in inventory data.



HCP MANAGEMENT OBJECTIVES: NESTING, ROOSTING AND FORAGING AREAS SILVICULTURAL ACTIVITIES in DESIGNATED NRF MANAGEMENT AREAS by HCP PLANNING UNIT - FY 2003

| | | | Plannii | ng Unit | | | | | To | tals | |
|--|--------|----------|-----------|---------|-------|--------|---------|---------|---------|---------|---------|
| | | | | | | | FY2003 | FY2002 | FY2001 | FY 2000 | FY 1999 |
| | | | | North | South | | HCP NRF |
| | Chelan | Columbia | Klickitat | Puget | Puget | Yakima | Total | Total | Total | Total | Total |
| Total Designated NRF acres in HCP Unit | 5,851 | 53,252 | | 111,195 | 2,453 | 13,567 | 207,407 | 207,655 | 207,595 | 207,432 | 207,401 |
| % of Total Designated NRF Acreage | 2.8% | 25.7% | 10.2% | 53.6% | 1.2% | 6.5% | 100% | 100% | 100% | 100% | 100% |
| | | | | | | | | | | | |
| Harvest & Silvicultural Activity | | | | | | Acres | | | | | |
| Timber Harvest | | • | | | • | | • | | • | | • |
| Regeneration Harvest | | | | | | | 0 | 0 | | 1354 | 902 |
| Late rotation thinning | | | | 41 | | | 41 | 0 | 432 | 140 | 0 |
| Variable density thinning | | | | 143 | | | 143 | | | | |
| Phase patch regeneration cut | | | | | | | 0 | 0 | 0 | 6 | 0 |
| Seed tree intermediate cut | | | | | | | 0 | 0 | 0 | 147 | 0 |
| Shelterwood removal | | | | | | | 0 | 0 | 0 | 0 | 28 |
| Selective Product logging | | | | | | | 0 | 0 | 0 | 166 | 0 |
| Smallwood thinning | | | | | | | 0 | 130 | 0 | 0 | 0 |
| Two-aged management | | | | | | | 0 | 0 | 0 | 6 | 0 |
| Uneven-aged management | | | | | | | 0 | 12 | 118 | 334 | 0 |
| Timber Harvest Total | 0 | 0 | 0 | 184 | 0 | 0 | 184 | 142 | 1001 | 2153 | 930 |
| Forest Site Preparation | | • | • | | • | | • | • | • | | • |
| Aerial herbicide | | | | | | | 0 | 90 | 805 | 326 | 103 |
| Ground herbicide | | | | | | | 0 | 0 | 0 | 82 | 82 |
| Ground mechanical | | | | | | | 0 | 0 | 0 | 83 | 0 |
| Forest Site Preparation Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 805 | 491 | 185 |
| Forest Regeneration | | | | | | | | | | | |
| Hand Planting | 0 | 10 | 0 | 210 | 0 | 0 | 220 | 291 | 1048 | 1202 | 1684 |
| Natural Regeneration | 0 | | | | | 0 | 0 | 19 | 0 | 0 | 0 |
| Forest Regeneration Totals | 0 | 10 | 0 | 210 | 0 | 0 | 220 | 310 | 1048 | 1202 | 1684 |
| Vegetation/Pest Management | | | | | | | | | | | |
| Aerial herbicide | | | | 81 | | | 81 | 297 | 818 | 741 | 567 |
| Aerial insecticide | | | | | | | 0 | 0 | 0 | 2921 | 0 |
| Ground herbicide | | | | 47 | | | 47 | 153 | 702 | 263 | 337 |
| Hand cutting (slashing) | | 18 | | 645 | | | 663 | 480 | 919 | 370 | 940 |
| Vegetation/Pest Management Total | 0 | 18 | 0 | 773 | 0 | 0 | 791 | 930 | 2439 | 4295 | 1844 |
| Other | | • | | | • | | | | • | | • |
| Pre-commercial thinning | | | | | | | 0 | 226 | 1537 | 910 | 2325 |
| Forest Fertilization | | | | | | | 0 | 0 | 0 | 837 | 0 |
| Other Totals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 226 | 1537 | 1747 | 2325 |

Source: Planning & Tracking System 10/03



HCP MANAGEMENT OBJECTIVES: SPOTTED OWL DISPERSAL AREAS

SILVICULTURAL ACTIVITIES IN DESIGNATED DISPERSAL MANAGEMENT AREAS by HCP PLANNING UNIT - FY 2003

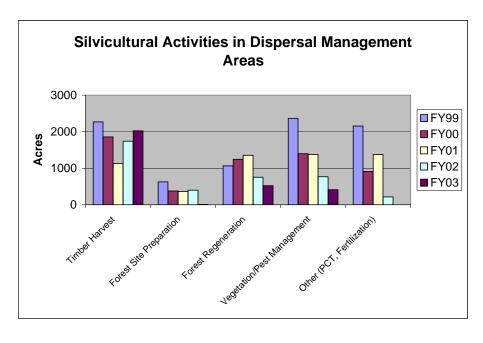
| | | Р | lanning Un | it | | | | To | tals | |
|--|----------|-----------|------------|-------|--------|-----------|-----------|-----------|-----------|-----------|
| | | | J | | | FY2003 | FY2002 | FY2001 | FY2000 | FY1999 |
| | | | | | | HCP | НСР | НСР | HCP | HCP |
| | | | North | South | | Dispersal | Dispersal | Dispersal | Dispersal | Dispersal |
| | Columbia | Klickitat | Puget | Puget | Yakima | Total | Total | Total | Total | Total |
| Total Designated Dispersal acres in HCP Unit | 31,890 | | | | 8,332 | 212,840 | 212,840 | 213,307 | 213,307 | 213,307 |
| % of Total Designated Dispersal Acreage | 15.0% | 37.2% | 7.2% | 36.7% | 3.9% | 100% | 100% | 100% | 100% | 100% |
| Harvest & Silvicultural Activity | | | | | Ac | res | | | | |
| Timber Harvest | | | | | | | | | | |
| Regeneration Harvest | | | | 192 | | 192 | 594 | 389 | 572 | 953 |
| Late rotation thinning | | 404 | | | 211 | 615 | 290 | 7 | 14 | 0 |
| Salvage cut | | 4 | | | 674 | 678 | 0 | 0 | 10 | 0 |
| Selective product logging | | | | | | 0 | 0 | 93 | 87 | 60 |
| Shelterwood intermediate cut | | | | | | 0 | 0 | 0 | 259 | 0 |
| Shelterwood removal | | | | | | 0 | 78 | 0 | 0 | 260 |
| Smallwood thinning | | | | | | 0 | 610 | 397 | 84 | 399 |
| Uneven-aged management | | 538 | | | | 538 | 167 | 240 | 832 | 597 |
| Timber Harvest Totals | 0 | 946 | 0 | 192 | 885 | 2023 | 1739 | 1126 | 1858 | 2269 |
| Forest Site Preparation | | | | | | | | | | |
| Aerial herbicide | | | | | | 0 | 113 | 294 | 30 | 226 |
| Ground herbicide | | | | | | 0 | 0 | 0 | 89 | 402 |
| Ground mechanical | | 8 | | | | 8 | 33 | 16 | 194 | 0 |
| Hand cutting (slashing) | | 0 | | | | 0 | 240 | 0 | 0 | _ |
| Pile and burn | | | | | 0 | 0 | 14 | 54 | 62 | |
| Forest Site Preparation Totals | 0 | 8 | 0 | 0 | 0 | 8 | 400 | 364 | 375 | 628 |
| Forest Regeneration | | | | | | | | | | |
| Hand planting | | 31 | 0 | 260 | | | 754 | | 1243 | |
| Forest Regeneration Totals | 0 | 31 | 0 | 260 | 230 | 521 | 754 | 1353 | 1243 | 1066 |
| Vegetation/Pest Management | | | | | | | | | | |
| Aerial herbicide | | | | | | 0 | | 528 | 55 | |
| Aerial insecticide | | | | | | 0 | 0 | 0 | 465 | |
| Ground herbicide | 52 | | 45 | | | 97 | 57 | 759 | 100 | |
| Hand cutting (slashing) | 64 | | 249 | | | 313 | 576 | | 775 | |
| Vegetation/Pest Management Totals | 116 | 0 | 294 | 0 | 0 | 410 | 767 | 1376 | 1395 | 2364 |
| Other | | | | | | | | | | |
| Pre-commercial thinning | | | | | | 0 | 213 | | 907 | 2153 |
| Forest fertilization | | | 1 | | | 0 | 0 | 0 | 6 | 0 |

Source: Planning & Tracking System 10/03

1376

913

2153



Other Totals

SILVICULTURAL MANAGEMENT ACTIVITIES by HCP PLANNING UNIT - FY2003

| | | | | | | Acre: | s of Mana | gement A | ctivity by F | Planning Unit | | | | |
|----------------------------------|--------|----------|-----------|--------|-------|--------|-----------|----------|--------------|---------------|-----------|-----------|------------|------------|
| Harvest & Silvicultural Activity | | | | North | | South | South | | | FY03Total | FY02Total | FY01Total | FY00 Total | FY99 Total |
| | Chelan | Columbia | Klickitat | Puget | OESF | Coast | Puget | Straits | Yakima | Acres | Acres | Acres | Acres | Acres |
| Timber Harvest Type | | | | | 1 | | | | | 1 | | | | |
| Regeneration Harvest | | 1524 | 63 | 2218 | 4 | 2364 | 1012 | 850 | | 8035 | 1 | 9,201 | 13549 | 9841 |
| Late rotation thinning | | 147 | 429 | 439 | | 809 | 486 | | 211 | 2521 | | 2,318 | | 51 |
| Variable density thinning | | | | 145 | | | | | | 145 | 1 | 0 | | 0 |
| Phased patch regeneration cut | | | | | | | 10 | | | 10 | | 0 | 1 | 0 |
| Salvage cut | 383 | | 4 | | | 45 | | | 718 | 1150 | | 5 | | 301 |
| Seed tree intermediate cut | | | | | | | | | | 0 | 1 | 165 | † | 0 |
| Selective product logging | | | | | | 65 | 144 | | | 209 | 1 | 734 | 1871 | 1177 |
| Shelterwood intermediate cut | | | | | | | 157 | | | 157 | | 151 | 581 | 276 |
| Shelterwood removal | | | | | | | | | | 0 | | 0 | | 0 |
| Smallwood thinning | | 292 | | 149 | 640 | 770 | 40 | | | 1891 | 3569 | 4,204 | 2332 | 3111 |
| Temporary retention first cut | | | | | | | 86 | | | 86 | 192 | 55 | 36 | 0 |
| Two aged management | | | | 146 | | | | | | 146 | 0 | 67 | 227 | 180 |
| Uneven-aged management | | | 538 | 135 | | | | | 1375 | 2048 | 414 | 1,375 | 2511 | 1939 |
| Harvest Total: | 383 | 1963 | 1034 | 3232 | 644 | 4053 | 1935 | 850 | 2304 | 16398 | 15776 | 18,275 | 22364 | 16876 |
| Forest Site Preparation | | | | | | | | | | | | | | |
| Aerial herbicide | | 807 | | 734 | | | | | | 1541 | 1374 | 1,934 | 637 | 519 |
| Ground herbicide | | | | | | | | | | 0 | 252 | 582 | 610 | 669 |
| Ground mechanical | | 27 | 8 | | | | 97 | | 131 | 263 | 185 | 371 | 620 | 0 |
| Hand cutting | | | | | | | | | | 0 | 240 | 0 | 0 | 0 |
| Pile and burn/broadcast burn | | 124 | | | | 151 | | | | 275 | 16 | 416 | 249 | 195 |
| Site Prep. Total: | 0 | 958 | 8 | 734 | 0 | 151 | 97 | 0 | 131 | 2079 | 2067 | 3,303 | 2116 | 1383 |
| Forest Regeneration | | | | | | | | | | | | | | |
| Hand planting | 367 | 2049 | 321 | 3036 | 118 | 2130 | 689 | 1378 | 257 | 10345 | 11588 | | | |
| Natural regeneration | | | | | | | | | 250 | 250 | 258 | | | |
| Forest Regeneration Total: | 367 | 2,049 | 321 | 3,036 | 118 | 2,130 | 689 | 1,378 | 507 | 10595 | 11846 | 14,316 | 15095 | 13,789 |
| Vegetation Management | | | | | | | | | | | | | | |
| Aerial herbicide | | 85 | | 356 | | 465 | | | | 906 | 3664 | 4,182 | 2282 | 3932 |
| Ground herbicide | | 178 | 222 | 1,067 | | 1456 | 59 | | | 2982 | 2671 | 5,105 | 3343 | 3241 |
| Hand cutting | | 439 | | 3,751 | | 1,748 | 358 | | 40 | 6336 | 9382 | 8,238 | 12481 | 12931 |
| Seeding grass | 137 | | | | | | | | | 137 | 254 | 0 | 0 | 0 |
| Underburn | | | | | | | | | | 0 | 0 | 0 | 40 | 0 |
| Vegetation Mgmt. Total: | 137 | 702 | 222 | 5,174 | 0 | 3,669 | 417 | 0 | 40 | 10361 | 15971 | 17,525 | 18146 | 20104 |
| Pest Management | | | | | | | | | | | | | | |
| Animal repellant | | | | | | | | | | 0 | 0 | 91 | 0 | N/A |
| Animal trapping | | | | | | | | | | 0 | 0 | 200 | 0 | N/A |
| Shielding or fencing | | 17 | | | | | 40 | | | 57 | 40 | 552 | 0 | N/A |
| Aerial Pesticide | | | | | | | | | | 0 | 0 | 0 | 3618 | |
| Pest Mgmt. Total: | 0 | 17 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 57 | 40 | 843 | 3618 | 0 |
| Other | | | | | | | | | | | | | | |
| Pre-commercial thinning | | 127 | | | 1,460 | 713 | | | | 2300 | 6115 | 14,060 | 10907 | 23637 |
| Forest fertilization | | | | | | | | | | 0 | 0 | | 2862 | 10187 |
| Tree pruning | | | | | | | | | | 0 | 0 | | | 91 |
| Other Total: | 0 | 127 | 0 | 0 | 1,460 | 713 | 0 | 0 | 0 | 2300 | 6115 | 14,324 | 13769 | 33915 |
| Grand Total | 887 | 5,816 | 1,585 | 12,176 | 2,222 | 10,716 | 3,178 | 2,228 | 2,982 | 41,790 | | 68,586 | 75108 | 86,067 |

Source: Planning & Tracking System

SILVICULTURAL MANAGEMENT ACTIVITIES SUMMARY: HARVEST AND SILVICULTURAL ACTIVITIES FY 2003

| | | | | | | Acres of Ma | anagement | Activity by I | Planning Un | nit | | | | |
|----------------------------------|--------|----------|-----------|--------|-------|-------------|-----------|---------------|-------------|--------|--------|--------|--------|--------|
| Harvest & Silvicultural Activity | Chelan | Columbia | Klickitat | North | OESF | South | South | Straits | Yakima | FY2003 | FY2002 | FY2001 | FY2000 | FY1999 |
| | | | | Puget | | Coast | Puget | | | Total | Total | Total | Total | Total |
| | | | | | | | | | | Acres | Acres | Acres | Acres | Acres |
| Timber Harvest | 383 | 1,963 | 1,034 | 3,232 | 644 | 4,053 | 1,935 | 850 | 2,304 | 16,398 | 15,776 | 18,275 | 22364 | 16876 |
| Site Preparation | 0 | 958 | 8 | 734 | 0 | 151 | 97 | 0 | 131 | 2,079 | 2,067 | 3,303 | 2116 | 1383 |
| Forest Regeneration | 367 | 2,049 | 321 | 3,036 | 118 | 2,130 | 689 | 1,378 | 507 | 10,595 | 11,846 | 14,316 | 15095 | 13,789 |
| Vegetation Management | 137 | 702 | 222 | 5,174 | 0 | 3,669 | 417 | 0 | 40 | 10,361 | 15,971 | 17,525 | 18146 | 20104 |
| Pest Management | 0 | 17 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 57 | 40 | 843 | 3618 | 0 |
| Other | 0 | 127 | 0 | 0 | 1,460 | 713 | 0 | 0 | 0 | 2,300 | 6,115 | 14,324 | 13769 | 33915 |
| Grand Total | 887 | 5,816 | 1,585 | 12,176 | 2,222 | 10,716 | 3,178 | 2,228 | 2,982 | 41,790 | 51,815 | 68,586 | 75108 | 86067 |

 $\underline{\textit{Timber Harvest}} \ \textit{includes regeneration harvest}, \ \textit{thinning, selective product logging, salvage cut and others}.$

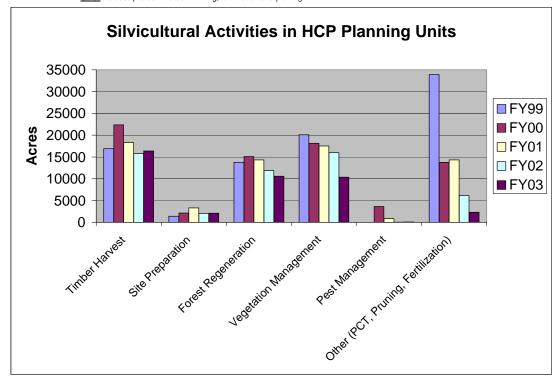
Site Preparation includes herbidide application, ground mechanical and pile and burn.

Forest Regeneration includes hand planting and natural regeneration.

<u>Vegetation Management</u> includes herbicide application and hand cutting.

Pest Management includes animal repellants, trapping and fencing.

Other includes pre-commercial thinning, fertilization and pruning



4. Non-Timber Activities

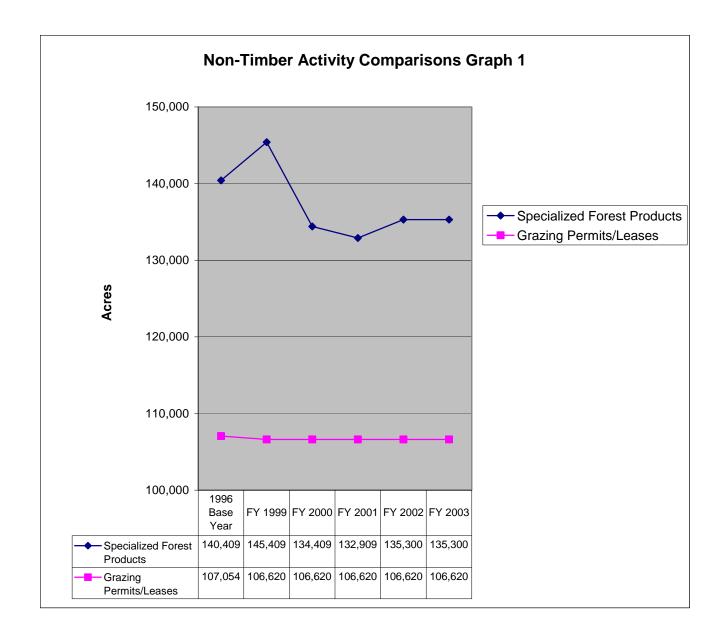
Evaluation of Potential Non-Timber Impacts vs.1996 Base Year Level

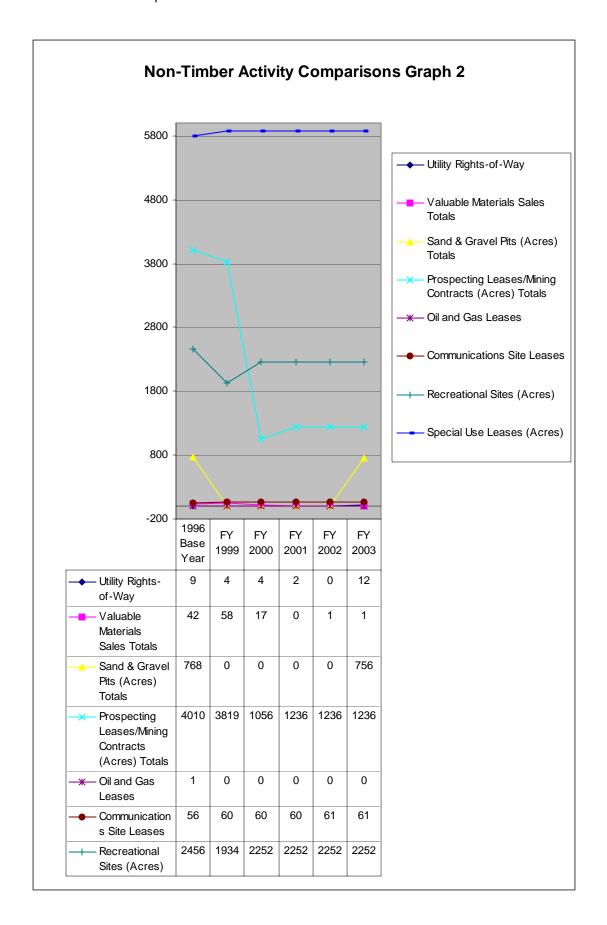
Non-Timber Resources Activity Comparison

| ı | 1000 5 | ., | | - Hilliber Ke | | | | | E)/ 0/ | 200 | EV 46 | 200 |
|---|--|----------------------|--|---------------------------|--|--------------------------------------|--|-----------|--|--------------------------------------|--|------------|
| | 1996 Bas | e Year | | 2003 | FY 20 |)02 | FY 20 |)01 | FY 20 | טטט | FY 19 | 999 |
| | Number of Leases/Permits/ Rights of Way/Sites | Acres | Number of Leases/Permits/ Rights of Way/Sites | Acres | Number of Leases/Permits/ Rights of Way/Sites | Acres | Number of Leases/Permits/ Rights of Way/Sites | Acres | Number of Leases/Permits/ Rights of Way/Sites | Acres | Number of Leases/Permits/ Rights of Way/Sites | Acres |
| The following repres | sent the nu | mber and | d acres of n | ew activitie | es sold, issu | ued or th | at were acti | ve on HO | CP lands du | ring the | reporting p | eriod |
| Utility Rights-of-Way | 9 | 4 ac. (3.3 miles) | 12 | 109 ac. (45.1 miles)** | 0 | 0 | 2 | 0 | 4 | 0 | 4 | .03 acres |
| The foll | owing repr | esent the | total numl | per and acr | es of activit | ty in forc | e on HCP la | ınds duri | ing the repo | rting pe | riod | |
| Specialized Forest Bradueto | | | | | | | | | | | | |
| Specialized Forest Products Western Greens | 360 | 135,000 | 330 | 128,000 | 315 | 128,000 | 335 | 128,000 | 320 | 128,000 | 331 | 135,000 |
| Christmas Greens | 14 | 5,000 | 6 | | 14 | 7,000 | 10 | 4,500 | 20 | 6,000 | 57 | 10,000 |
| Christmas Trees | | | 7 | 300 | 7 | 300 | 8 | 409 | 8 | 409 | 8 | 409 |
| Misc. (Medicinal, cone and | U | 403 | | 300 | , | 300 | 0 | 703 | | 403 | 0 | 703 |
| transplant) | 20 | | 12 | | 15 | | 15 | | 15 | | 10 | |
| Specialized Forest Products | 20 | | 12 | | 10 | | 10 | | 10 | | 10 | |
| (Acres) Totals | 402 | 140,409 | 355 | 135,300 | 351 | 135,300 | 368 | 132,909 | 363 | 134,409 | 406 | 145,409 |
| Valuable Materials | .02 | 1.15,100 | | ,000 | 30. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 300 | ,500 | 300 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | , |
| Silvicultural Pits | | | | | | | | | 1 | | | |
| | N/A | N/A | 105 | 247 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Active Silvicultural Pits Inactive Silvicultural Pits | N/A | N/A N/A | 165 230 | 317 216 | N/A | N/A N/A | N/A | N/A | N/A N/A | N/A N/A | N/A | N/A N/A |
| Abandoned Silvicultural Pits | N/A | N/A N/A | 55 | 56 | N/A | N/A N/A | N/A | N/A | N/A N/A | N/A | N/A | N/A |
| Total Silvicultural Rock, | IN/A | IN/A | 55 | 36 | IN/A | IN/A | IN/A | IN/A | IN/A | IN/A | IN/A | IN/A |
| Sand & Gravel Pits (No | | | | | | | | | | | | |
| Commercial Sales) | 332 | 487 | 450 | 589 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Commercial Pits | 332 | 407 | 430 | 303 | 19/73 | 19/79 | 19/75 | 11/7 | IN/A | 11/7 | IN/A | 11/7 |
| Active Commercial Pits | N/A | N/A | 7 | 101 | 7 | 80 | 7 | 89 | Q | 90 | 24 | 360 |
| Inactive Commercial Pits | N/A | N/A | 2 | 66 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Commercial Rock, | 1477 | 14// | | | 14// | 14// | 1071 | 14// | 1471 | 14// | 14/71 | 13// (|
| Sand & Gravel Pits | 28 | 281 | 9 | 167 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Sand & Gravel Pits (Acres) | | | | | | | | | , | | | |
| Totals | 360 | 768 | 459 | 756 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Rock, Sand, Gravel Sales | 17 | 222 | | | 0 | 0 | 0 | 0 | 5 | 34 | 24 | 360 |
| Rock, Sand, Gravel Direct | | | | | | | | | | | | |
| Sales | 25 | 50 | 1 | 0 | 1 | 0 | 0 | 0 | 12 | 22 | 34 | 55.5 |
| Valuable Materials Sales | | | | | | | | - | | | | |
| Totals | 42 | 272 | 1 | 0 | 1 | 0 | 0 | 0 | 17 | 56 | 58 | 415.5 |
| Prospecting Leases/Mining | | | | | | | | | | | | |
| Contracts | | | | | | | | | | | | |
| Leases | 4 | 360 | 1 | 180 | 1 | 180 | 1 | 180 | 0 | 0 | 3 | 249 |
| Contracts | 15 | 3650 | 7 | 1056 | 7 | 1056 | 7 | 1056 | 7 | 1056 | 14 | 3570 |
| | | | | | | | | | | | | |
| Prospecting Leases/Mining | | | | | | | | | | | | |
| Contracts (Acres) Totals | 19 | 4010 | 8 | 1236 | 8 | 1236 | 8 | 1236 | 7 | 1056 | 17 | 3819 |
| Oil and Gas Leases | | | | | | | ļ | | ļ | | | |
| Leases | 43 | | 231 | 99350 | 231 | 99350 | 6 | 2552 | 6 | 2552 | 16 | 4412 |
| Active Sales | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oil and Gas Leases Totals | 1 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Grazing Permits/Leases | 05 | 405.000 | 0.5 | 405.000 | 0.5 | 405.000 | 05 | 405.000 | 05 | 405.000 | 05 | 105.000 |
| Eastside Westside | 25 | | 25 | | 25 | 105,980 | 25 | 105,980 | 25 | 105,980 | 25 | 105,980 |
| Westside | 15 | 1,074 | 11 | 640 | 11 | 640 | 11 | 640 | 11 | 640 | 11 | 640 |
| Grazing Permits/Leases (Acres) Totals | 40 | 107,054 | 36 | 106,620 | 36 | 106,620 | 36 | 106,620 | 36 | 106,620 | 36 | 106,620 |
| Communications Site | 40 | 107,034 | 30 | 100,020 | 30 | 100,020 | 30 | 100,020 | 30 | 100,020 | 30 | 100,020 |
| Leases | | | | | | | | | | | | |
| Number Sites | 56 | | 61 | | 61 | | 60 | | 60 | | 60 | |
| | | | | | | | | | | | | |
| Number Leases | 288 | | 305 | | 305 | | 302 | | 302 | | 302 | |
| Recreational Sites (Acres) | 119 | 2456 | 126 | 2252 | 126 | 2252 | 126 | 2252 | 126 | 2252 | 126 | 1934 |
| Special Use Leases (Acres) | 90 | 5792 | 93 | 5874 | 93 | 5874 | 92 | 5870 | 60 | E070 | 92 | 5070 |
| Special Use Leases (Acres) | 90 | 5/92 | 93 | J8/4 | 93 | 38/4 | 92 | 58/0 | 92 | 5870 | 92 | 5870 |

The level of activity for non-timber activities that was present in 1996 (labeled 1996 Base Year) is considered to be a de minimus level of activity. At the 1996 level of these activities, no take, or insignificant take is occurring. The level of impact resulting from these non-timber activities will be reviewed by DNR, the USFWS and NMFS during the annual meeting.

^{**} See Utility Rights of Way Detail on page





FY 03 UTILITY RIGHTS OF WAY DETAIL

| App # | Grantee | HCP Planning Unit | Region | Miles | Existing Corridor | New Acres | Comments |
|-----------|-------------------------------------|-------------------------|--------|-------|----------------------|--------------|---|
| 50-072617 | CenturyTel – Clearwater Mainline | OESF | Oly | 16.0 | X | 0 | Fiber optic w/in R/W |
| 50-074176 | Clallam County PUD | OESF | Oly | 1.6 | | 9 | OH power – moved outside DOT R/W |
| 50-074878 | Verizon | S. Puget | Cen | .05 | X | 0 | Telephone and fiber to Comm site |
| 50-071471 | Sprint | Klickitat | SE | .25 | Х | 0 | Co-located telephone and |
| 50-073123 | Sprint | | | | | | fiber |
| 50-074103 | Touch America | S. Puget | Cen | .68 | X | 0 | Co-located fiber optic |
| 50-074318 | AT&T | | | | | | |
| 50-073158 | CenturyTel - Sappho Gap | OESF | Oly | 2.0 | X | 0 | Fiber optic w/in DOT R/W |
| 50-073160 | CenturyTel – Sol Duc | OESF | Oly | 1.26 | X | 0 | Telephone line to Hot Springs |
| 50-074130 | Qwest – Sappho Gap | OESF | Oly | 9 | Х | 0 | Fiber optic – West Twin Road |
| 50-073640 | Williams Gas Pipeline | S. Puget | Cen | 13 | | 100 | Gas pipeline through Capitol Forest to Satsop |
| 50-054740 | Methow Valley Ski Trail Association | Chelan | NE | 1.7 | Х | 0 | Ski trail on logging road |
| Totals | | | | 45.1 | | 109 | |

RECREATION/PUBLIC USE ACTIVITIES

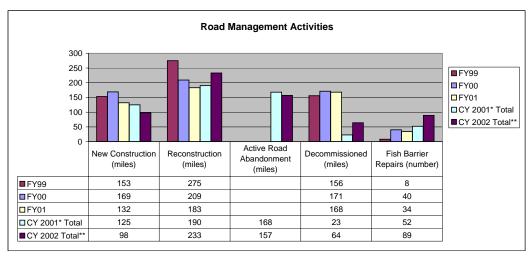
| | | | | | Trail Maintenance | | | | |
|---------------------------------|------------------|--------|--|----------------------|---------------------------------|------------------|-----------------------------|------------------------|------------------------------|
| Project Name | Planning Unit | Region | New Trail Construction | Re-Route/Close Trail | (Rocking, Shaping, Brushing) | New Bridge | Harden Bridge Approaches | Culvert Maintenance | Culvert Replacement |
| Capitol Forest Non- | | | | | | | | | |
| Motorized Trail | | | | | 80 mi. Non-motorized | | | ., | |
| Maintenance | S Puget | SW/CEN | | | trail | | | X | 011 1 : 5:1 |
| Capitol Forest ORV | | | | | | | | | 2 Undersize Fish Culverts |
| Bridge | S Puget | SW/CEN | | | | 1 ORV Bridge | Х | | Replaced |
| Capitol Forest ORV Trail | | | | | | | | | |
| Hardening | S Puget | SW/CEN | | | 5.5 mi. ORV Trail | | | | |
| Capitol Forest Trails M&O | S Puget | SW/CEN | | | 87 mi. ORV Trail | | | | |
| | | | | | | 1 New Bridge | | | |
| | | | | | | Equestrian, Mt. | | | |
| | | | | | | Bike, Hiking | | | |
| Iverson Trail Bridge | S Puget | SPS | | | | Trail | | | |
| Preston Railroad Grade | | | | | 11 mi. Non-motorized | | | | |
| Trail | S Puget | SPS | | | trail Hardening | 4.11 0.51/ | | | |
| | | | | | | 1 New ORV | | | |
| T | 0.0 | 000 | | | | Bridge; Retrofit | | | |
| Tahuya ORV Bridges Tahuya Trail | S Puget | SPS | | | | 1 ORV Bridge | | | |
| Improvements | S Puget | SPS | 6.5 mi. New ORV Const | Re-route and Close | | | | | |
| Tahuya/Green Trails | O i aget | 01 0 | C.S IIII. I VOW OIL V COIIST | re route and close | 101 mi. ORV | | | | |
| Maintenance | S Puget | SPS | | | Maintenance | | | | |
| - Individual of | o . agot | 0. 0 | 1 mi. New ORV Construction; 1.6 mi. | | | | | | |
| Walker Valley Trail | | | Motorcycle Conversion to | | | 5 New ORV | | | |
| Upgrades | N Puget | NW | ORV | | | Bridges | X | | |
| | | | | | | 3 New ORV | | | |
| Yacolt ORV Bridges | Columbia | SW/CEN | | | | Bridges | X | | |
| | Columbia/ | | | | 21 mi. ORV | | | | |
| Yacolt/Elochoman M&O | S Coast | SW/CEN | | | Maintenance | | | | |
| TOTALS | | | 9.1 mi. | | 305.5 mi. | 12 Bridges | | | 2 Culverts |

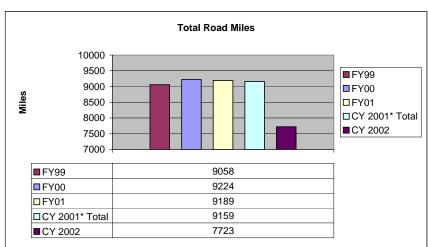
Calendar Year 2002 HCP ROAD MANAGEMENT ACTIVITIES

FY 2003 HCP Annual Report

| CONSTRUCTIONRECO | NSTRUC | CTIONE | DECOMM | IISSION | ED | | | | | | | | | |
|--|--------|----------|-----------|----------------|-------|----------------|----------------|---------|--------|--------------------|-------------------|---------------|---------------|---------------|
| | | | | | HCP P | lanning | Units | | | | | | Totals | |
| | Chelan | Columbia | Klickitat | North Puget | OESF | South Coast | South Puget | Straits | Yakima | CY 2002 Total** | CY 2001* Total | FY01 Total | FY00 Total | FY99 Total |
| Total Road Miles | 82 | 820 | 653 | 2000 | 1721 | 531 | 794 | 622 | 500 | 7723 | 9159 | 9189 | 9224 | 9058 |
| CONSTRUCTION (miles) | 3 | 16 | 10 | 38 | 3 | 8 | 6 | 9 | 5 | 98 | 125 | 132 | 169 | 153 |
| RECONSTRUCTION (miles) | 0 | 18 | 28 | 139 | 19 | 7 | 7 | 12 | 3 | 233 | 190 | 183 | 209 | 275 |
| ACTIVE FOREST ROADS | | | | | | | | | | | | | | |
| ABANDONED (miles) | 0 | 34 | 4 | 90 | 0 | 10 | 6 | 1 | 12 | 157 | 168 | N/A | | |
| DECOMMISSIONED (miles) | 0 | 7 | 3 | 1 | 40 | 0 | 0 | 3 | 10 | 64 | 23 | 168 | 171 | 156 |
| FISH BARRIERS REMOVED | | | | | | | | | | | | | | |
| (number) | 0 | 19 | 8 | 7 | 13 | 30 | 9 | 2 | 1 | 89 | 52 | 34 | 40 | 8 |
| PERCENT OF RMAP RESPONSIBILITY ASSESSED | 3% | 20% | 28% | 45% | 52% | 45% | 75% | 40% | 34% | 38% | 25% | N/A | N/A | N/A |

Source: Road Data Management System (RDMS)





^{*}Calendar year 2001 data includes data from the last 6 months of FY 2001

^{**}For CY 2002 Total Road Miles means Total Active Roads and is determined from RMAP assessments

Effects of Transactions Fiscal Year 2003

Effects of Transactions on Permit Lands - July 2002 to June 2003

Information subject to corrections and additions over time.

| | Activity | Planning U | | | | and additions | 3 0 7 0 1 11 11 10 1 | |
|------------------------|---|-------------------|-------------|--------------------|-----------|--------------------|----------------------|------------------------|
| | | Columbia | Klickitat | N Puget | S Coast | S Puget | Straits | Totals |
| | Total Acres Acquired Total Acres Disposed | 77.00 (242.00) | 114.50 - | 5.15 (1,181.36) | | 197.93 (195.75) | 160.00 (82.12) | 1,274.97 (1,701.23) |
| | Net Change | (165.00) | 114.50 | (1,176.21) | | 2.18 | 77.88 | (426.26) |
| Owl Habitat | Designated Dispersal | - | _ | - | - | - | - | - |
| Acquired | Existing Dispersal (41+) | - | - | - | - | - | - | - |
| | Designated NRF | - | 114.50 | - | - | - | - | 114.50 |
| | Existing NRF (71+) OESF | - | - | - | - | - | - | - |
| | No Role | 77.00 | - | 5.15 | 720.39 | 197.93 | 160.00 | 1,160.47 |
| Owl Habitat | Designated Dispersal | - | - | - | - | - | - | _ |
| Disposed | Existing Dispersal (41+) | - | - | - | - | - | - | - |
| | Designated NRF | - | - | (167.86) | | (195.00) | | (362.86) |
| | Existing NRF (71+) OESF | _ | - | (138.00) | _ | (62.00) | - | (200.00) |
| | No Role | (242.00) | - | (1,013.50) | - | (0.75) | (82.12) | (1,338.37) |
| Other | Murrelet | - | - | - | - | - | - | - |
| Habitats | Oregon silverspot butterfly | - | - | - | - | - | - | - |
| Acquired | Aleutian Canadian goose | - | - | - | - | - | - | - |
| | Bald eagle | - | - | - | - | - | - | - |
| | Peregrine falcon Gray wolf | - | - | - | - | - | - | - |
| | Grizzly bear | - | - | _ | - | - | - | - |
| | Columbia white-tailed deer | - | - | - | - | - | - | - |
| | Talus and cliffs | - | - | - | - | - | - | - |
| | Meadows | - | - | - | - | - | - | - |
| Other | Murrelet | - | - | - | - | - | - | - |
| Habitats | Oregon silverspot butterfly | - | - | - | - | - | - | - |
| Disposed | Aleutian Canadian goose | - | - | - | - | - | - | - |
| | Bald eagle | - | - | - | - | - | - | - |
| | Peregrine falcon Gray wolf | - | - | - | - | - | - | - |
| | Grizzly bear | _ | - | - | - | - | - | _ |
| | Columbia white-tailed deer | - | - | - | - | - | - | - |
| | Talus and cliffs | - | - | - | - | - | - | - |
| | Meadows | - | - | - | - | - | - | - |
| Riparian: | | | | | | | | |
| Stream Miles | | - | 0.58 | - | 2.18 | 0.84 | - | 3.60 |
| Acquired | Stream type 2 Stream type 3 | 0.41 | - | - | - 1.02 | 0.33 0.24 | - | 0.33 1.67 |
| | Stream type 4 | 0.41 | - | - | 0.67 | 0.24 | - | 1.26 |
| | Stream type 5 | 0.27 | - | - | 2.48 | - | 0.20 | 2.95 |
| | Stream type 9 | 0.64 | 0.67 | - | 6.19 | 0.03 | 0.44 | 7.97 |
| | Total Miles | 1.54 | 1.25 | - | 12.54 | 1.81 | 0.64 | 17.78 |
| ROS/Slopes Acquired | Rain on Snow Unstable Slopes | 5.64 26.71 | 114.50 - | - | - 3.95 | - 4.85 | 124.60 95.63 | 244.74 131.14 |
| Riparian: | | | | | | | | |
| Stream Miles | • • | - | - | (0.17) | - | - | - | (0.17) |
| Disposed | Stream type 2 | - | - | - (0.10) | - | - | (0.50) | (0.78) |
| | Stream type 3 Stream type 4 | (0.78) | - | (0.19) (0.03) | | (0.04) | (0.59) (0.17) | (1.02) |
| | Stream type 5 | - | - | (0.93) | | - | (0.03) | (0.96) |
| | Stream type 9 | - | - | (0.32) | | (0.46) | - ' | (0.78) |
| | Total Miles | (0.78) | - | (1.64) | - | 0.59 | (0.79) | (3.71) |
| ROS/Slopes Disposed | Rain on Snow Unstable Slopes | - - | - - | (90.10) (78.71) | | - (11.85) | - - | (90.10) (90.56) |
| | | | | | | | | |

| | Activity | Planning U Columbia | | N Puget | S Coast | S Puget | Straits | Totals |
|-----------|--------------------------------------|------------------------|------------------------|------------|-------------------------|------------------------|---------|----------|
| Zones: | Oak | - | 106.00 | ugut - | - | - ugut | - | 106.0 |
| Acquired | Puget Sound Douglas Fir | - | - | 5.15 | - | 197.93 | - | 203.0 |
| • | Sitka Spruce | - | - | - | 104.36 | - | - | 104.3 |
| | Western Hemlock | 77.00 | - | - | 616.03 | - | 160.00 | 853.0 |
| | Interior Douglas Fir | - | 8.50 | - | - | - | - | 8.5 |
| | Total Acres | 77.00 | 114.50 | 5.15 | 720.39 | 197.93 | 160.00 | 1,274.9 |
| Zones: | Puget Sound Douglas Fir | - | - | (611.50) | - | - | (80.00) | (691.5 |
| Disposed | Silver Fir | - | - | (5.00) | - | - | - | (5.0 |
| | Mountain Hemlock | - | - | (402.00) | - | - | - | (402.0 |
| | Willamette Valley | (242.00) | - | - | - | - | - | (242.0 |
| | Olympic Douglas Fir | - | - | - | - | - | (0.12) | (0.1 |
| | Western Hemlock Total Acres | (242.00) | - | (162.86) | | (195.75) | | (360.6 |
| | Total Acres | (242.00) | - | (1,181.36) | - | (195.75) | (82.12) | (1,701.2 |
| Age class | Open 0-10 | 77.00 | 40.20 | - | 362.00 | 10.09 | 128.00 | 617.2 |
| Acquired | Regeneration 11-20 | - | 12.70 | - | 38.00 | - | - | 50.7 |
| | Pole 21-40 | - | | | - - | 38.60 | - | 38.6 |
| | Closed 41-70 | - | 40.10 | 5.15 | 101.20 | 76.07 | 32.00 | 254.5 |
| | Complex 71-100 | - | - | - | - | - | - | - |
| | Complex 101-150 | - | - | - | - | - | - | - |
| | Functional 150+ | - | 21.50 | - | 210.10 | - 72 17 | - | 313.8 |
| | Non-Forest Land Total Acres | 77.00 | 21.50 114.50 | 5.15 | 219.19 720.39 | 73.17 197.93 | 160.00 | 1,274.9 |
| Age class | Open 0-10 | | | (125.20) | | (47.75) | (4.70) | (177.6 |
| Disposed | Regeneration 11-20 | 1 [| | (125.20) | | (47.73) | (2.70) | |
| Disposed | Pole 21-40 | 1 - | _ | (126.50) | | _ | (2.60) | |
| | Closed 41-70 | _ | _ | (247.00) | | (77.00) | | |
| | Complex 71-100 | _ | _ | (200.50) | | (62.00) | | (262.5 |
| | Complex 101-150 | _ | - | (278.50) | | - | - | (278.5 |
| | Functional 150+ | - | - | (60.00) | | _ | - | (60.0 |
| | Non-Forest Land | (242.00) | - | (18.36) | | (9.00) | (0.12) | (269.4 |
| | Total Acres | (242.00) | - | (1,181.36) | - | (195.75) | (82.12) | (1,701.2 |
| Age class | Open 0-10 | | | | | | | |
| oy Zone: | Western Hemlock | 77.00 | - | - | 362.00 | - | 128.00 | 567.0 |
| Acquired | Interior Doug Fir | - | 1.40 | - | - | - | - | 1.4 |
| | Puget Sound Doug Fir | - | - | - | - | 10.09 | - | 10.0 |
| | Oak | - | 38.80 | - | - | - | - | 38.8 |
| | Regeneration 11-20 | | | | | | | |
| | Western Hemlock | - | | - | 38.00 | - | - | 38.0 |
| | Interior Doug Fir | - | 1.40 | - | - | - | - | 1.4 |
| | Oak | - | 11.30 | - | - | - | - | 11.3 |
| | Pole 21-40 | | | | | | | ļ |
| | Western Hemlock Puget Sound Doug Fir | _ | - | - | - | 38.60 | - | 38.6 |
| | Closed 41-70 | _ | - | - | - | 36.00 | - | 30.0 |
| | Western Hemlock | _ | _ | _ | 18.00 | _ | 32.00 | 50.0 |
| | Interior Doug Fir | _ | 4.30 | _ | 10.00 | _ | 52.00 | 4.3 |
| | Puget Sound Doug Fir | _ | - | 5.15 | _ | 76.07 | - | 81.2 |
| | Oak | _ | 35.80 | - | _ | - | - | 35.8 |
| | Sitka Spruce | _ | - | - | 83.20 | - | - | 83.2 |
| | Complex 71-100 | - | - | - | - | - | - | - |
| | Complex 101-150 | - | - | - | - | - | - | - |
| | Functional 150 | - | - | - | - | - | - | - |
| | Non-Forest Land | | | | | | | |
| | Western Hemlock | - | - | - | 198.03 | - | - | 198.0 |
| | Interior Doug Fir | - | 2.30 | - | - | - | - | 2.3 |
| | Puget Sound Doug Fir | - | - | - | - | 73.17 | - | 73.1 |
| | Oak | - | 19.20 | - | - | - | - | 19.2 |
| | Sitka Spruce | | . | - | 21.16 | | | 21.1 |
| | Total Acres | 77.00 | 114.50 | 5.15 | 720.39 | 197.93 | 160.00 | 1,274.9 |
| Age class | Open 0-10 | | | | | | | |
| oy Zone: | Western Hemlock | - | - | (3.80) | | (47.75) | | (53.5 |
| Disposed | Mountain Hemlock | - | - | (56.00) | | - | - | (56.0 |
| | Puget Sound Doug Fir | - | - | (64.90) | | - | (2.70) | (67.6 |
| | Silver Fir | - | - | (0.50) | - | - | - | (0.5 |
| | Silver Fil | - | - | (0.50) | - | - | - | |

| Activity | Planning U | Jnit | | | | | |
|----------------------|------------|-----------|------------|---------|----------|---------|-------------------|
| | Columbia | Klickitat | N Puget | S Coast | S Puget | Straits | Totals |
| Regeneration 11-20 | | | | | - | | |
| Western Hemlock | - | - | (3.80) | - | - | - | (3.80) |
| Mountain Hemlock | - | - | (56.00) | - | - | - | (56.00) |
| Puget Sound Doug Fir | - | - | (65.00) | - | - | (2.70) | (67.70) |
| Silver Fir | - | - | (0.50) | - | - | - 1 | (0.50) |
| Pole 21-40 | | | | | | | |
| Western Hemlock | - | - | (3.87) | - | - | - | (3.87) |
| Mountain Hemlock | - | - | (57.00) | - | - | - | (57.00) |
| Puget Sound Doug Fir | - | - | (65.10) | - | - | (2.60) | (67.70) |
| Silver Fir | - | - | (0.53) | - | - | - 1 | (0.53) |
| Closed 41-70 | | | | | | | |
| Western Hemlock | - | - | (9.00) | - | (77.00) | - | (86.00) |
| Mountain Hemlock | - | - | (230.00) | - | · - · | - | - 1 |
| Puget Sound Doug Fir | - | - | (8.00) | - | - | (72.00) | (80.00) |
| Complex 71-100 | | | | | | | |
| Western Hemlock | - | - | - | - | (62.00) | - | (62.00) |
| Puget Sound Doug Fir | - | - | (200.50) | - | · - · | - | - 1 |
| Complex 101-150 | | | | | | | |
| Western Hemlock | - | - | (74.75) | - | - | - | (74.75) |
| Puget Sound Doug Fir | - | - | (200.50) | - | - | - | (200.50) |
| Silver Fir | - | - | (3.25) | - | - | - | (3.25) |
| Functional 150 | | | | | | | |
| Western Hemlock | - | - | (60.00) | - | - | - | (60.00) |
| Non-Forest Land | | | , , | | | | , , |
| Western Hemlock | - | - | (7.68) | - | (9.00) | - | (16.68) |
| Mountain Hemlock | - | - | (3.00) | - | 1 | - | (3.00) |
| Puget Sound Doug Fir | - | - | (7.50) | - | - | - | (7.50) |
| Silver Fir | - | - | (0.18) | - | - | - | (0.18) |
| Olympic Douglas Fir | - | - | / | - | - | (0.12) | (0.12) |
| Willamette Valley | (242.00) | - | - | - | - | 1 | (2 4 2.00) |
| Total Acres | (242.00) | - | (1,181.36) | - | (195.75) | (82.12) | (1,701.23) |

Effects of Transactions January 1997 through June 2003

Effects of Transactions of Permit Lands - January 1997 to June 2003

Information subject to corrections and additions over time.

| | Activity | Planning Ur | \i4 | | | | | | and additions | over time. | |
|------------------------|--|-------------|--------------------|--------------|--------------------|------------------|------------------|--------------------|------------------|------------|-----------------------|
| | Activity | Chelan | Columbia | Klickitat | N Puget [1] | OESF | S Coast | S Puget | Straits | Yakima | Totals |
| | Total Acres Acquired | 403.57 | 5,622.50 | 1,002.45 | 11,226.07 | 3,180.90 | 3,897.20 | 10,442.50 | 1,222.72 | 39.15 | 37,037.06 |
| | Total Acres Disposed | - | (9,911.01) | - | (4,637.84) | (837.21) | (2,605.91) | (5,672.15) | (82.12) | - | (23,746.24) |
| | Net Change - Acres | 403.57 | (4,288.51) | 1,002.45 | 6,588.23 | 2,343.69 | 1,291.29 | 4,770.35 | 1,140.60 | 39.15 | 13,290.82 |
| Owl Habitat | Designated Dispersal | - | - | - | 10.00 | - | - | 7,346.73 | - | - | 7,356.73 |
| Acquired | Existing Dispersal (41+) | - | - | - | 10.00 | - | - | 3,279.46 | - | - | 3,289.46 |
| | Designated NRF | 203.57 | 380.00 | 992.45 | 2,076.24 | - | - | - | - | - | 3,652.26 |
| | Existing NRF (71+) | - | 17.39 | 126.00 | - | - | - | - | - | - | 143.39 |
| | OESF No Role | 200.00 | 5,242.50 | 10.00 | - 9,139.83 | 3,180.90 | 3.897.20 | 3.095.77 | - 1,222.72 | - 39.15 | 3,180.90 22,847.17 |
| | No Role | 200.00 | 5,242.50 | 10.00 | 9,139.03 | - | 3,097.20 | 3,093.77 | 1,222.12 | 39.13 | 22,047.17 |
| Owl Habitat | Designated Dispersal | - | (6,754.57) | - | (734.36) | - | (560.00) | (100.00) | - | - | (8,148.93) |
| Disposed | Existing Dispersal (41+) | - | (2,325.82) | - | (109.00) | - | (38.70) | (93.20) | - | - | (2,566.72) |
| | Designated NRF | - | (1,284.53) | - | (289.41) | - | - | (195.00) | - | - | (1,768.94) |
| | Existing NRF (71+) OESF | - | (389.49) | - | (138.00) | - (838.21) | - | (62.00) | - | - | (589.49) (838.21) |
| | No Role | - | (1,871.91) | - | (3,614.07) | 1.00 | (2,045.91) | (5,377.15) | (82.12) | - | (12,990.16) |
| Othor | Murrolot | | | | | | | | | _ | |
| Other Habitats | Murrelet Oregon silverspot butterfly | - | - | - | - | - | - | - | - | - | - |
| Acquired | Aleutian Canadian goose | _ | - | - | - | | - | | | - | _ |
| rioquirou | Bald eagle | - | - | - | 20.00 | _ | _ | _ | - | - | 20.00 |
| | Peregrine falcon | - | - | - | - | - | - | - | - | - | - |
| | Gray wolf | - | - | - | - | - | - | - | - | - | - |
| | Grizzly bear | - | - | - | - | - | - | - | - | - | - |
| | Columbia white-tailed deer | - | - | - | | - | - | - | - | - | - |
| | Talus and cliffs | - | - | - | 325.00 | - | - | - | - | - | 325.00 |
| | Meadows | 102.50 | - | 70.45 | - | - | - | - | - | - | 172.95 |
| Other | Murrelet | - | (567.61) | - | - | - | - | (279.91) | - | - | (847.52) |
| Habitats | Oregon silverspot butterfly Aleutian Canadian goose | - | - | - | - | - | - | - | - | - | - |
| Disposed | Bald eagle | _ | - | - | (5.00) | (49.42) | - | - | - | - | (54.42) |
| | Peregrine falcon | _ | _ | - | (0.00) | (+3.+2) | _ | _ | _ | _ | (04.42) |
| | Gray wolf | - | | - | - | - | - | - | - | - | - |
| | Grizzly bear | - | - | - | - | - | - | - | - | - | - |
| | Columbia white-tailed deer | - | - | - | - | - | - | - | - | - | - |
| | Talus and cliffs Meadows | - | (87.00) | - | (20.00) | - | - | - | - | - | (107.00) |
| | Weadows | - | (82.00) | - | - | - | - | - | - | - | (82.00) |
| Riparian: | | | | | | | | | | | |
| Stream Miles | Stream type 1 | - | 2.41 | 3.70 | 11.96 | 0.32 | 9.23 | 3.05 | - | - | 30.67 |
| Acquired | Stream type 2 Stream type 3 | - | - 8.24 | 1.12 1.01 | 0.18 11.79 | 1.02 7.24 | 0.91 7.01 | 0.36 9.09 | - | - | 3.59 44.38 |
| | Stream type 3 Stream type 4 | 0.96 | 9.93 | - | 13.38 | 2.25 | 5.73 | 10.70 | 0.31 | - | 43.26 |
| | Stream type 5 | 2.47 | 36.03 | 0.26 | 28.50 | 8.99 | 9.54 | 36.14 | 4.41 | _ | 126.34 |
| | Stream type 9 | 4.47 | 39.18 | 2.79 | 22.88 | 4.85 | 21.59 | 12.71 | 2.83 | 0.25 | 111.55 |
| | Total Miles | 7.90 | 95.79 | 8.88 | 88.69 | 24.67 | 54.01 | 72.05 | 7.55 | 0.25 | 359.79 |
| ROS/Slopes Acquired | Rain on Snow Unstable Slopes | - 23.10 | 1,070.74 836.11 | 901.45 - | 2,203.10 959.68 | 4.47 1,137.10 | - 158.50 | 3,165.84 104.84 | 925.75 923.77 | 3.43 | 8,274.78 4,143.10 |
| | | | (4.00) | | (0.07) | (0.00) | (0.44) | (0.00) | | | (F.00) |
| Stream Miles | Stream type 1 | - | (1.32) | - | (3.37) | (0.30) | (0.14) | (0.69) | - | - | (5.82) |
| Disposed | Stream type 2 Stream type 3 | _ | - (15.78) | - | (0.33) (11.64) | 0.00 (2.18) | (1.97) (2.68) | 0.00 (199.66) | (0.59) | - | (2.30) (232.53) |
| | Stream type 4 | _ | (10.01) | - | (0.47) | (1.71) | (3.89) | (2.62) | (0.17) | _ | (18.87) |
| | Stream type 5 | - | (49.42) | - | (3.98) | (5.15) | (12.28) | (3.21) | (0.03) | - | (74.07) |
| | Stream type 9 | - | (31.06) | - | (1.52) | 0.00 | (13.80) | (7.97) | · - | - | (54.35) |
| | Total Miles | - | (107.59) | - | (21.31) | (9.34) | (34.76) | (214.15) | (0.79) | - | (387.94) |
| ROS/Slopes | Rain on Snow | - | (3,611.18) | - | (627.08) | (78.46) | (20.46) | (161.66) | - | - | (4,498.84) |
| Disposed | Unstable Slopes | - | (1,127.60) | - | (456.81) | (14.09) | (31.50) | (61.10) | - | - | (1,691.10) |
| Zones: | Interior Douglas Fir | 203.57 | - | 128.50 | - | - | - | - | - | | 332.07 |
| Acquired | Olympic Douglas Fir | - | - | - | - | - | - | - | 161.45 | - | 161.45 |
| · | Puget Sound Douglas Fir | - | - | - | 140.67 | - | - | 1,770.06 | 0.75 | - | 1,911.48 |
| | Silver Fir | - | - | - | 983.29 | - | | 39.32 | - | - | 1,022.61 |
| | Sitka Spruce | - | - E 600 F0 | - | - 7 072 25 | 389.08 | 1,312.49 | - 0 622 20 | 1 060 52 | - | 1,701.57 |
| | Western Hemlock Subalpine Fir | - | 5,622.50 | - | 7,973.35 | 2,791.82 | 2,360.19 | 8,633.30 | 1,060.52 | - | 28,441.68 |
| | Mt. Hemlock | _ | - | - | 2,010.59 | - | - | - | - | - | 2,010.59 |
| | Oak | | | 873.95 | 2,010.00 | | | | | | 873.95 |
| | Three-tip Sage | 40.00 | | | | | | | | | 40.00 |
| | Central Arid Steppe | 120.00 | | | | | | | | 26.15 | 146.15 |
| | Ponderosa Pine | 40.00 | | | | | | | | 13.00 | 53.00 |
| | Woodland/Prairie Mosaic | | | | 118.17 | | 224.52 | | | | 342.69 |
| | Total Acres | 403.57 | 5,622.50 | 1,002.45 | 11,226.07 | 3,180.90 | 3,897.20 | 10,442.68 | 1,222.72 | 39.15 | 37,037.24 |

| | Activity | Planning Ui Chelan | nit Columbia | Klickitat | N Puget | OESF | S Coast | S Puget | Straits | Yakima | Totals |
|-----------------------|---------------------------------------|-----------------------|----------------------|-----------------|----------------------|------------------|---------------|----------------------|-------------|--------------|-------------------------|
| Zones: | Interior Douglas Fir | | | | n ruget | - - | o coast | o ruget - | oualts - | Yakıma - | i otals |
| Disposed | Mountain Hemlock | - | - | - | (412.75) | - | - | - | - | - | (412.75) |
| - | Puget Sound Douglas Fir | - | - | - | (1,006.30) | - | (148.71) | (2,458.40) | (80.00) | - | (3,693.41) |
| | Olympic Douglas Fir | - | - | - | - | - | - | - | (0.12) | - | (0.12) |
| | Silver Fir | - | (1,250.23) | - | (550.00) | - | - | (488.00) | - | - | (2,288.23) |
| | Sitka Spruce | - | - (0.070.70) | - | - (0,000,70) | (54.21) | (1,120.00) | - (0.404.75) | (0.00) | - | (1,174.21) |
| | Western Hemlock Woodland/Prairie | - | (8,378.78) | - | (2,668.79) | (783.00) | (926.77) | (2,164.75) | (2.00) | - | (14,924.09) (561.00) |
| | Williamette Valley | _ | (242.00) | - | _ | - | - | (561.00) | - | - | (242.00) |
| | Cowlitz River | | (40.00) | _ | _ | _ | (410.43) | - | _ | _ | (450.43) |
| | Total Acres | - | (9,911.01) | - | (4,637.84) | (837.21) | (2,605.91) | (5,672.15) | (82.12) | - | (23,746.24) |
| A ac close | Open 0-10 | 07.50 | 2 024 50 | 104.65 | 2 006 65 | 246.20 | 1,680.13 | 2 710 02 | 200 45 | _ | 11,006.19 |
| Age class Acquired | Regeneration 11-20 | 97.50 | 3,821.50 2.00 | 184.65 12.70 | 2,006.65 2,357.57 | 216.28 509.80 | 542.01 | 2,710.03 1,224.41 | 289.45 | - | 4,648.49 |
| Acquired | Pole 21-40 | 0.50 | 355.00 | - | 807.56 | 1,541.21 | 172.02 | 1,959.65 | _ | _ | 4,835.94 |
| | Closed 41-70 | 2.57 | 1,364.34 | 89.10 | 4,580.73 | 633.50 | 872.87 | 3,308.31 | 907.72 | - | 11,759.14 |
| | Complex 71-100 | - | 26.39 | 136.00 | 165.57 | 113.30 | - | 597.49 | - | - | 1,038.75 |
| | Complex 101-150 | - | - | 10.00 | - | - | - | 97.50 | - | 12.15 | 119.65 |
| | Functional 150+ | | . - . | - | 7.00 | - | - | | - | | 7.00 |
| | Non-Forest Land | 303.00 | 53.27 | 570.00 | 1,300.99 | 166.81 | 630.17 | 545.29 | 25.55 | 27.00 | 3,622.08 |
| | Total Acres | 403.57 | 5,622.50 | 1,002.45 | 11,226.07 | 3,180.90 | 3,897.20 | 10,442.68 | 1,222.72 | 39.15 | 37,037.24 |
| Age class | Open 0-10 | - | (2,048.85) | - | (685.21) | (42.21) | (655.25) | (655.24) | (4.70) | - | (4,091.46) |
| Disposed | Regeneration 11-20 | - | (1,307.22) | - | (265.32) | - | (679.67) | (143.21) | (2.70) | - | (2,398.12) |
| | Pole 21-40 | - | (2,027.53) | - | (637.57) | (207.35) | (304.61) | (275.30) | (2.60) | - | (3,454.96) |
| | Closed 41-70 | - | (2,474.12) | - | (1,946.89) | (413.00) | (813.63) | (1,683.71) | (72.00) | - | (7,403.35) |
| | Complex 71-100 | - | (443.20) | - | (481.86) | (140.95) | (33.00) | (1,462.78) | - | - | (2,561.79) |
| | Complex 101-150 Functional 150+ | - | (689.71) (168.99) | - | (283.50) (119.00) | - | _ | (451.80) (588.00) | - | - | (1,425.01) (875.99) |
| | Non-Forest Land | _ | (751.39) | - | (218.49) | (33.70) | - (119.75) | (412.11) | (0.12) | - | (1,535.56) |
| | Total Acres | _ | (9,911.01) | - | (4,637.84) | (837.21) | (2,605.91) | (5,672.15) | (82.12) | - | (23,746.24) |
| | | | (-) / | | () / | (/ | () / | (-,, | (- / | | , , , |
| Age class | Open 0-10 | | | | | | | | | | |
| by Zone: | Mt Hemlock | - | - | - | 133.50 | - | - | | - | - | 133.50 |
| Acquired | PS Douglas Fir | - 07.50 | - | - | - | - | - | 256.26 | - | - | 256.26 |
| | Interior Doug Fir Olympic Doug Fir | 97.50 | - | 3.90 | - | - | - | - | - 161.45 | - | 101.40 161.45 |
| | Silver Fir | 1 - | - | - | 344.87 | | - | | 101.40 | _ | 344.87 |
| | Sitka Spruce | _ | _ | | - | 77.69 | 282.15 | _ | _ | - | 359.84 |
| | Western Hemlock | - | 3,821.50 | - | 1,535.28 | 138.92 | 1,349.46 | 2,453.77 | 128.00 | - | 9,426.93 |
| | Oak | - | - | 180.75 | - | - | - | - | | | 180.75 |
| | WoodInd Prairie Mosaic | - | - | - | - | - | 48.52 | - | - | - | 48.52 |
| | Regeneration 11-20 | | | | | | | 000.40 | | | 000.40 |
| | PS Douglas Fir Interior Doug Fir | - | - | 1.20 | - | - | - | 296.49 | - | - | 296.49 1.20 |
| | Silver Fir | _ | - | 1.20 | 10.50 | - | - | 39.32 | - | - | 49.82 |
| | Sitka Spruce | _ | - | - | - | 60.96 | 252.71 | - | _ | - | 313.67 |
| | Western Hemlock | - | 2.00 | - | 2,093.57 | 448.71 | 182.30 | 888.60 | - | - | 3,615.18 |
| | Oak | | | 11.50 | | - | | - | | | 11.50 |
| | Mt Hemlock | - | - | - | 270.50 | - | | - | - | - | 270.50 |
| | WoodInd Prairie Mosaic | - | - | - | - | - | 107.00 | | | | 107.00 |
| | Pole 21-40 | _ | _ | | _ | | _ | 584 65 | | _ | 584.65 |
| | PS Douglas Fir Interior Doug Fir | 0.50 | - | - | - | - | - | 584.65 - | - | - | 0.50 |
| | Silver Fir | - | - | - | 79.91 | - | - | - | - | - | 79.91 |
| | Sitka Spruce | - | - | - | - | 142.66 | 88.02 | - | - | - | 230.68 |
| | Western Hemlock | - | 355.00 | - | 589.65 | 1,251.70 | 20.00 | 1,375.00 | - | - | 3,591.35 |
| | Mt Hemlock | - | - | - | 138.00 | - | - | - | - | - | 138.00 |
| | Woodlnd Prairie Mosaic | - | - | - | - | - | 64.00 | - | - | - | 64.00 |
| | Closed 41-70 Mt Hemlock | _ | _ | - | 1,052.40 | _ | _ | _ | _ | _ | 1,052.40 |
| | PS Douglas Fir | - | - | - | 1,052.40 | - | | 239.32 | - | - | 357.29 |
| | Interior Doug Fir | 2.57 | - | 4.00 | - | - | - | - | - | _ | 6.57 |
| | Silver Fir | - | - | - | 428.16 | - | - | - | - | - | 428.16 |
| | Sitka Spruce | - | - | - | - | 52.54 | 566.87 | - | - | - | 619.41 |
| | Western Hemlock | - | 1,364.34 | | 2,853.43 | 729.40 | 301.00 | 3,068.99 | 907.72 | - | 9,224.88 |
| | Oak | - | - | 85.10 | - | - | - | - | - | | 85.10 |
| | WoodInd Prairie Mosaic Complex 71-100 | _ | - | - | 104.77 | - | 5.00 | - | - | - | 109.77 |
| | Silver Fir | _ | _ | _ | 47.97 | _ | _ | _ | _ | _ | 47.97 |
| | PS Douglas Fir | - | - | - | -11.31 | - | | 63.93 | - | - | 63.93 |
| | Interior Doug Fir | - | - | 24.20 | - | - | - | - | - | - | 24.20 |
| | Sitka Spruce | - | - | - | - | 49.97 | - | - | - | | 49.97 |
| | Western Hemlock | - | 26.39 | - | 117.60 | 61.47 | - | 533.56 | - | - | 739.02 |
| | Oak | - | - | 111.80 | - | - | - | - | - | - | 111.80 |
| | Complex 101-150 Western Hemlock | | | _ | | _ | _ | 97.50 | _ | _ | 97.50 |
| | Oak | [| - | 10.00 | - | - | - | 97.50 | - | - | 10.00 |
| | | 1 | | . 5.00 | | | | | | | |
| | Central Arid Steppe | - | - | - | - | - | - | - | - | 8.15 | 8.15 |
| | Central Arid Steppe Ponderosa Pine | - | - | - | - | - | - | - | - | 8.15 4.00 | 8.15 4.00 |

| | Activity | Planning Ur | | 1411 1 1 1 | | | | | a. . | | |
|-----------|------------------------|-------------|---------------|------------|------------|---------------|------------|---------------|-------------|--------|------------|
| | Functional 450: | Chelan | Columbia | Klickitat | N Puget | OESF | S Coast | S Puget | Straits | Yakima | Totals |
| | Functional 150+ | | | | 7.00 | | | | | | 7.00 |
| | Western Hemlock | - | - | - | 7.00 | - | - | - | - | - | 7.00 |
| | Non-Forest Land | | | | 440.40 | | | | | | 440.40 |
| | Mt Hemlock | - | - | - | 416.19 | - | - | - | | - | 416.19 |
| | PS Douglas Fir | - | - | - | 22.70 | - | - | 329.59 | 0.75 | - | 353.04 |
| | Interior Doug Fir | 103.00 | - | 95.20 | - | - | - | - | - | - | 198.20 |
| | Silver Fir | - | - | - | 71.88 | - | - | - | - | - | 71.88 |
| | Sitka Spruce | - | | - | | 5.26 | 122.74 | | | - | 128.00 |
| | Western Hemlock | - | 53.27 | - | 776.82 | 161.62 | 507.43 | 215.70 | 24.80 | - | 1,739.64 |
| | Oak | - | - | 474.80 | - | - | - | - | - | - | 474.80 |
| | Woodland Prairie Mos. | - | - | - | 13.40 | - | - | - | - | - | 13.40 |
| | Three-tip Sage | 40.00 | - | - | - | - | - | - | - | | 40.00 |
| | Central Arid Steppe | 120.00 | - | - | - | - | - | - | - | 18.00 | 138.00 |
| | Ponderosa Pine | 40.00 | - | - | - | - | - | - | - | 9.00 | 49.00 |
| | Total Acres | 403.57 | 5,622.50 | 1,002.45 | 11,226.07 | 3180.9 | 3,897.20 | 10,442.68 | 1,222.72 | 39.15 | 37,037.24 |
| Ago ologo | Open 0.40 | | | | | | | | | | |
| Age class | Open 0-10 | | | | (400.04) | | (20.45) | (000 00) | (0.70) | | (207.00 |
| by Zone: | PS Douglas Fir | - | (400.00) | - | (103.84) | (40.04) | (39.15) | (222.29) | (2.70) | - | (367.98 |
| Disposed | Silver Fir | - | (169.90) | - | (0.50) | (42.21) | (400,40) | (191.70) | (0.00) | - | (404.31 |
| | Western Hemlock | - | (1,878.95) | - | (524.87) | - | (438.10) | (80.55) | (2.00) | - | (2,924.47 |
| | Mt Hemlock | · - | - | - | (56.00) | - | (470.00) | - | - | - | (56.00) |
| | Cowlitz River | - | - | - | - | - | (178.00) | (400.70) | - | - | (178.00) |
| | WoodInd Prairie Mosaic | - | - | - | - | - | - | (160.70) | - | - | (160.70 |
| | Regeneration 11-20 | | | | | | | | | | |
| | PS Douglas Fir | - | - | - | (65.00) | - | - | (2.00) | (2.70) | - | (69.70 |
| | Silver Fir | - | (239.50) | - | (12.38) | - | - | (115.70) | - | - | (367.58 |
| | Sitka Spruce | - | - | - | - | - | (339.00) | - | - | - | (339.00 |
| | Western Hemlock | - | (1,067.72) | - | (131.94) | - | (340.67) | (25.51) | - | - | (1,565.84 |
| | Mt Hemlock | - | - | - | (56.00) | - | - | - | - | - | (56.00) |
| | Pole 21-40 | | | | | | | | | - | |
| | PS Douglas Fir | - | - | - | (93.46) | - | - | (221.00) | (2.60) | - | (317.06 |
| | Silver Fir | - | (277.62) | - | (59.61) | - | - | (12.10) | - | - | (349.33 |
| | Sitka Spruce | - | - | - | - | - | (169.20) | - | - | - | (169.20 |
| | Western Hemlock | - | (1,741.93) | - | (427.50) | (207.35) | (65.41) | (33.20) | - | - | (2,475.39 |
| | Mt Hemlock | - | - 1 | - | (57.00) | | ` - ´ | · - ′ | - | - | (57.00 |
| | Cowlitz River | - | (8.00) | - | ` - ´ | - | (70.00) | - | - | - | (78.00 |
| | WoodInd Prairie Mosaic | - | / | - | - | - | | (9.00) | _ | - | (9.00 |
| | Closed 41-70 | | | | | | | (/ | | | , |
| | Mt Hemlock | - | _ | - | (230.00) | - | - | - | | - | (230.00 |
| | PS Douglas Fir | - | _ | - | (83.43) | _ | (83.00) | (596.63) | (72.00) | _ | (835.06 |
| | Silver Fir | _ | (47.82) | - | (450.00) | _ | - | (33.70) | - | _ | (531.52 |
| | Sitka Spruce | _ | (, | - | - | _ | (596.30) | - | _ | _ | (596.30 |
| | Western Hemlock | _ | (2,426.30) | - | (1,183.46) | (413.00) | (20.00) | (704.19) | _ | _ | (4,746.95 |
| | WoodInd Prairie Mosaic | _ | (2, 120.00) | _ | (1,100.10) | (770:00) | (20.00) | (352.80) | _ | _ | (352.80 |
| | Cowlitz River | _ | _ | _ | _ | _ | (114.33) | (002:00) | _ | _ | (114.33 |
| | Complex 71-100 | | | | | | (114.55) | | | | (114.55) |
| | PS Douglas Fir | _ | _ | _ | (346.86) | _ | _ | (555.28) | _ | _ | (902.14 |
| | Silver Fir | _ | | | (1.70) | | | (303.20) | _ | - | (1.70 |
| | Western Hemlock | _ | - (417.70) | - | (1.70) | - (140.95) | (33.00) | - (917.70) | - | - | (1,642.65 |
| | Cowlitz River | _ | (25.50) | - | (133.30) | (170.90) | (33.00) | (317.70) | - | - | (25.50 |
| | Complex 101-150 | 1 | (20.00) | - | - | - | - | - | - | - | (20.00) |
| | | 1 | | | (200 50) | | | (46 10) | | | (2.46.60 |
| | PS Douglas Fir | 1 - | (24E EO) | - | (200.50) | - | - | (46.10) | - | - | (246.60 |
| | Silver Fir | _ | (345.50) | - | (5.10) | - | - | (123.70) | - | - | (474.30 |
| | Western Hemlock | _ | (344.21) | - | (77.90) | - | - | (341.01) | - | - | (763.12 |
| | Functional 150+ | 1 | | | | | | (E00.00) | | - | /F00.00 |
| | PS Douglas Fir | - | (404.40) | - | - (4.00) | - | - | (588.00) | - | - | (588.00 |
| | Silver Fir | · - | (131.49) | - | (1.00) | - | - | - | - | - | (132.49 |
| | Western Hemlock | · - | (37.50) | - | (118.00) | - | - | - | - | - | (155.50 |
| | Non-Forest Land | 1 | | | (40 ==: | | | | | | // |
| | Mt Hemlock | l - | - | - | (13.75) | - | - | - | - | - | (13.75 |
| | PS Douglas Fir | - | - | - | (113.21) | - | (26.00) | (227.10) | - | - | (366.31 |
| | Silver Fir | - | (38.40) | - | (19.71) | - | - | (11.10) | - | - | (69.21 |
| | Sitka Spruce | - | - | - | - | (12.00) | (15.50) | - | - | - | (27.50) |
| | Western Hemlock | - | (464.47) | - | (71.82) | (21.70) | (30.15) | (62.59) | - | - | (650.73) |
| | WoodInd Prairie Mosaic | - | - | - | - | - | - | (38.50) | - | - | (38.50) |
| | Cowlitz River | - | (6.50) | - | - | - | (48.10) | - | - | - | (54.60 |
| | Willamette Valley | - | (242.00) | - | - | - | - ' | - | - | - | (242.00 |
| | Olympic Doug Fir | - | - | - | - | - | - | - | (0.12) | - | (0.12 |
| | Total Acres | _ | (9,911.01) | - | (4,637.84) | (837.21) | (2,605.91) | (5,672.15) | (82.12) | | (23,746.24 |

NOTE: Forest zone acreages have been revised for this report, due to more accurate mapping and acreage calculation methods.

HCP MONITORING

In exchange for federal incidental take permits and unlisted species agreements, the Washington State Department of Natural Resources (DNR) has agreed to manage forested state trust lands to provide habitat for salmonids, spotted owls, marbled murrelets, and numerous other wildlife species, many of which depend on late-successional forest, riparian forest, or uncommon habitats. Implementing DNR's Habitat Conservation Plan (HCP) in an economically efficient manner is an enormous challenge. Many of the silvicultural systems and forest practices needed to meet this challenge are untested or have yet to be developed. Sound application of silvicultural and ecological knowledge, creative ideas, and reliable information are needed to develop innovative forest management capable of achieving the implicit economic and ecological objectives of DNR's HCP. Reliable information that is directly applicable to DNR managed lands can only be obtained through well planned and well executed monitoring and research.

A hierarchy consisting of three types of monitoring – implementation, effectiveness, and validation – has become a common organizational framework for monitoring programs in forest management (Table 1). Implementation monitoring (also known as compliance monitoring) simply determines whether or not a management plan (e.g., an HCP) is implemented properly on the ground. Effectiveness monitoring is done to determine whether or not the management plan is producing the desired habitat conditions. Validation monitoring is done to determine whether or not certain species respond to the desired habitat conditions as anticipated. Research supports the completion of conservation strategies, tests promising treatment alternatives to current practice, and contributes to the ecological foundation of management practice.

Table 1. Objectives of different types of long-term monitoring, current monitoring and research projects for the DNR HCP.

| Туре | Type of Long-term Monitoring for the DNR HCP | | | | | | | | | |
|-----------------------|--|---|---|--|--|--|--|--|--|--|
| | Effectiveness | Validation | Research | | | | | | | |
| Objective | To determine whether the conservation strategies result in anticipated habitat conditions | To evaluate relationships between anticipated habitat conditions and animal populations | To provide information for completing the conservation strategies To test alternative procedures to achieve the conservation strategy | | | | | | | |
| Current Monitoring | Riparian Silviculture Riparian forest integrity Riparian in-stream conditions and trends Spotted Owl habitat creation/restoration | Spotted OwlSalmon | Marbled murreletSmall streams | | | | | | | |

Research and monitoring implies adaptive management. Monitoring is the feedback loop providing information for management decisions in the adaptive management process. The department focuses on research and monitoring to eliminate the information barriers to full HCP implementation and improve its ability to meet its management goals through adaptive management.

An HCP Monitoring/Scientific Section was established in 2001 with the objective of providing a centralized approach to implementation, effectiveness and validation monitoring, and research, and also providing a systematic, consistent process for reporting HCP compliance to the Services. To further demonstrate the department's commitment to monitoring, this year the HCP Monitoring/Scientific Section has restructured organizationally and added key lead scientist positions that will specifically be responsible for implementation monitoring, owl and murrelet effectiveness monitoring, riparian effectiveness monitoring, unstable slopes monitoring, and validation monitoring and research. Another key scientist position was established to provide HCP consultative services to the regions and also to be the DNR lead scientist responsible for developing the long-term marbled murrelet strategy.

Implementation Monitoring

After completing a HCP implementation monitoring pilot project last year, we began an evaluation of the pilot project in order to help us assess some of our original objectives. The original objectives included:

- □ Testing and refining some of the technical aspects of implementation monitoring
- Identifying any possible logistical problems of implementation monitoring
- Testing and refining methods of sampling
- Determining adequate sample size to achieve desired confidence intervals
- Determining approximate costs of doing implementation monitoring in all of the planning units

Based on the pilot project evaluation, we decided to revise the implementationmonitoring plan to incorporate improved methods and increased efficiencies. The major changes to this year's implementation monitoring strategy are:

- □ Sampling HCP elements or strategies rather than activities, and
- Stratifying the elements with positive responses so that we can more easily predict a statistically valid sample size.

By doing this we were also able to incorporate some of the less frequently implemented HCP elements into our monitoring sample.

This summer and fall we conducted our implementation monitoring field visits to all of the HCP Planning Units. Two major elements of the HCP were selected for review, the spotted owl element and the stream typing and riparian buffer elements. Two less frequently implemented HCP elements (mineral springs and balds) were also reviewed this year. We selected timber management activities, non-timber management activities and silvicultural management activities for review. Silvicultural management activities are distinguished from timber management activities by being non-revenue generating and include such activities as tree planting, vegetation management, and precommercial thinning. Activities were selected for review using the following techniques:

- □ A 10% random sample of Silvicultural management activities was selected. From the 10% sample, those that required HCP checklist preparation and triggered a positive response for the owl or riparian element were sampled 100%.
- □ All non-timber management activities requiring an HCP checklist that triggered a positive owl or riparian response were sampled 100%.
- □ Timber management activities that triggered a positive owl response were sampled 100%.
- ☐ If an activity selected for owl review also had a positive response for the riparian element, it was automatically selected for riparian review as well.

□ To make up the remainder of the riparian sample, (predetermined to be 28% of the total population) activities were randomly selected using a random numbers table.

Currently we are analyzing the information we collected during the review process and will provide the Services with a monitoring report under separate cover.

Unstable Slopes Pilot Study

During 2003 DNR also conducted a pilot project to evaluate the process by which the department assesses slope stability for timber management activities and to set a baseline for beginning the process of implementation and effectiveness monitoring. Objectives of the pilot project were to:

- Assess the consistency and accuracy of landform identification by documenting who is assessing timber sales for potential slope instability (e.g. forester, geologist, or other) and how unstable landforms are being delineated, recorded and protected.
- □ Track how mitigation recommendations are carried through the sale planning process and, if possible, whether they were implemented on the ground.
- Document current post-harvest ground conditions for future effectiveness monitoring.
 - In order to establish a baseline for effectiveness monitoring, the pilot study had to determine what, if any, mitigation measures were applied (implementation monitoring).
 - Once the implemented mitigation is recorded, it is necessary to continue to monitor over time to determine if the implemented mitigation is successful in preventing an increase in the frequency or severity of slope failure (effectiveness monitoring).

During the upcoming year the department will assess how best to establish a program for monitoring of unstable slopes and how to integrate this program with the HCP monitoring process.

Effectiveness Monitoring, Validation Monitoring, and Research

The following provides a summary of current DNR HCP effectiveness monitoring, validation monitoring, and research (see Table 1). The projects within each conservation strategy are arranged by topical area. Projects are multifaceted in the questions they address, thus there is often considerable overlap between research and monitoring in a given project.

Riparian Conservation Strategy

The objective of this monitoring and research is to increase confidence in our ability to integrate biodiversity type thinning of riparian areas and help promote acceleration of older stand conditions in riparian areas, help develop the next generation of guidance for the management of wind throw and support the development of the Type 5 stream conservation strategy. In addition, this work supports the adaptive management goals of the riparian conservation strategy, such as reexamination of watershed condition and changes in aquatic habitat quality. Information from this monitoring will increase our ability to understand the influence of land management on aquatic habitat conditions and effectively implement the conservation strategies to reach the goals of the HCP.

1) Small Stream Buffer Experimentation - Research

The DNR in cooperation with the USFS Pacific Northwest Experiment Station initiated a project to determine the possible local and down stream impacts and consequences of different management approaches on first order streams in western Washington. The results of this study will help support the development of a long-term conservation strategy for Type 5 streams on state lands in western Washington. The Federal Services are anticipating a DNR long-term conservation strategy for Type 5 streams by 2007.

The study design tests the potential impacts of different management approaches. The following key questions define the objectives of the study:

- How does timber harvesting effect headwater stream functions, i.e., potential sediment delivery, channel morphology, water temperature and chemistry, and changes in plant communities, water levels, and amphibian and invertebrate populations?
- □ What specific headwater stream functions need to be protected to meet the conservation goal and how will these be measured?
- □ What are the options for protecting headwater stream functions within the scope of the DNR HCP riparian management strategy?

The study design imposes a range of forested buffer configurations on adjacent headwater streams. The three buffer configurations that we are comparing are: variable buffer widths, fixed widths and no buffers. Each set of streams uses an unmanaged stream as a control. Treatments are controlled within the entire headwater stream basin (typically 10 to 60 ac).

Project activities:

- Updating of the DNR small stream literature review, illustrating the gaps and needed areas of research. This review can be found on the web at http://www2.wadnr.gov/type5/.
- Initiation of pre-treatment measurements on nine sets of headwater streams located in the DNR Central region.
- Competed for and obtained additional funding from DNR forest practices
- Began a cooperative study with the Washington State Department of Ecology on stream temperature monitoring.
- A poster entitled "Testing Different Riparian Buffer Configurations along First Order Streams: A Cooperative Study" was presented at an Oregon State University Small Stream conference in January 2002.
- □ Made preparations with Central region for the first implementation of treatments during the summer of 2003.
- Supported a University of Washington Graduate Student researching the influence of basin size and geology on the seasonally of stream flow.

2) Small Wetland Management Alternatives - Research

The DNR HCP specifies that seeps and wetlands smaller 0.25 acre will be afforded the same protections as Type 5 waters. Research to study the effects on aquatic resources of forest management in and around seeps and small wetlands will be included in research programs for Type 5 waters. Although several stream associated wetlands

occur along the stream in the small stream buffer study, the cooperation in the below projects have provided a state of the art understanding of existing information of forested wetland ecology and management.

Project activities:

- In cooperation with the Cooperative Monitoring and Evaluation and Research (CMER) committee, the DNR HCP research section was a major contributor in the production of the workshop "Forested Wetlands and Silvicultural Practices" that was held in Lacey Washington on November 1, 2002.
- Also in cooperation with the CMER Wetland Scientific Advisory Group, a draft annotated bibliography and literature review was produced entitled "Pacific Northwest Forested Wetland Literature Survey Synthesis".

3) Riparian Silviculture - Effectiveness Monitoring

Testing current and alternative riparian forest management is one of the ongoing longterm effectiveness monitoring projects. These experimental commercial thinnings of riparian forests are designed to test alternatives to meet the goals of the department.

Project activities:

- □ Three replicates of riparian silviculture effectiveness monitoring are currently being established on the OESF.
- Pre-treatment stand data has been collected on the H-1320 monitoring site.
- **4) Riparian Silviculture Modeling** *Research and Effectiveness Monitoring* In cooperation with the University of Washington's Olympic Natural Resources Center, we are developing a riparian specific version of the Landscape Management System and riparian specific silvicultural prescriptions. This modeling tool will help quantify working hypotheses being tested in effectiveness monitoring.

Project activities:

- □ A working model was delivered to DNR, a revision of the stream shading and down wood recruitment calculators are underway.
- **5) Windthrow in Riparian Areas—** Research and Effectiveness Monitoring Initiated in 1998, the information from this project was used to redesign the windthrow monitoring approach and will help in the design of future experimental tests of wind buffers. Our current monitoring is focused on the OESF planning unit to quantify the historic windthrow extent in unmanaged RMZ's. We are using a chronosequence of existing aerial photographs to measure extent of wind impacts on canopies in RMZ's from the early 1990's.

Project activities:

- □ The DNR is cooperating with The Northwest Indian Fisheries Commission and DNR Forest Practices to gain access to required image analysis equipment.
- 6) Riparian Conditions and Trends Effectiveness Monitoring
 Riparian conditions and trends monitoring is an ongoing long-term monitoring project.
 The monitoring has been contracted to the National Marine Fisheries Service, Biological Services Division. Stream temperature monitoring, was initiated in 2001 and continued in 2002, as the first part of the riparian conditions and trends monitoring. The objective of

this monitoring is to obtain data to determine the required monitoring sample sizes for the in-stream habitat conditions and trends effectiveness monitoring and develop an analysis method for trend analysis.

Project activities:

- □ Data loggers for the 2003 season were deployed in June 2003.
- □ NMFS and DNR ecologists are preparing a report from the last two years monitoring.
- A report from the last two years of monitoring is being prepared and is targeted for publication in the journal Water Resources. The results have provided new insight into the relationship between riparian condition and water temperature of streams on the OESF.
- □ A draft manuscript entitled "Monitoring and Evaluating Riparian Restoration Efforts" is in preparation by Michael Pollock, Tim Beehie, Sam Chan, and Richard Bigley

7) Riparian Adaptive Management Support Tools - Research and Effectiveness Monitoring

This study was initiated in 1998 and is jointly funded by the U.S. Geological Survey, Biological Services Division, and DNR. The project calibrates a decision support tool for the synthesis of existing information on the impacts of forest management and natural processes on the quality of fish habitats on the western Olympic Peninsula.

Project activities:

□ A final report is now in peer review. The results will help place the riparian conditions and trends monitoring into a landscape context.

8) Stratification of Riparian Validation Monitoring on the OESF - Validation Monitoring

The first steps in riparian validation monitoring will help us to understand where to conduct future fish population monitoring and how changes in natural succession and management might influence fish habitat. The Ecosystems Diagnostics and Treatment (EDT) method is being applied on the Clearwater River watershed to attempt to prioritize sampling sites and the types of samples that would most likely provide validation of changes in fish habitat and populations on the OESF. The EDT method provides a way to analyze the biological performance of salmon at various life stages in comparison with historical and future habitat conditions. Model results will be used to refine proposed riparian validation monitoring.

Project activities:

- □ Final contract modeling was completed in June of 2003.
- Monitoring recommendations to follow in January 2004 as part of the Master's of Environmental Science thesis by Larry Dominguez at the Evergreen State College.
- 9) Feasibility Assessment and Design of a Low Cost Escapement Estimation Method for Coho Salmon in the Clallam River Validation Monitoring

Jointly funded by the University of Washington and DNR, this project was initiated in 2001 and tested a salmon population sampling method that may be of use for riparian conservation strategy validation monitoring.

Project activities:

□ A final report was produced in 2002.

10)Restoring Riparian Ecosystems- Research and Effectiveness Monitoring

This project was initiated on the OESF in the summer of 1998 and was jointly funded by the US Fish and Wildlife Service and DNR. The projects test four prescriptions to convert hardwood dominated riparian areas to conifer stands. The results of this project will help the department understand the effort and probability of success involved in conducting riparian stand conversions.

Project activities:

□ A report detailing the treatment establishment and first years growth monitoring was prepared in 2002.

Spotted Owl Conservation Strategy

The objective of this monitoring and research is to increase confidence in our ability to integrate biodiversity type thinning into the timber sales program and help understand its role in meeting habitat goals. In addition, this work supports the adaptive management goals of the HCP Spotted Owl conservation strategy, such as examination of the ecology of down wood levels targeted for different types of habitat.

1) Spotted Owl Effectiveness Monitoring on the OESF- Effectiveness Monitoring

The operational feasibility and marketability of the proposed HCP spotted owl Effectiveness monitoring prescriptions will be tested on a sub-basin scale on an OESF timber sale in 2004. Extensive analysis by harvest engineers has allowed the placement of two replicates of four treatments on a large thinning sale on the OESF. A report on the 2001 analysis is available. The results of these tests will increase our ability to integrate late biodiversity type thinning into the timber sales program.

Project activities:

- □ In 2002, a test of pretreatment plot configurations was established to allow analysis to refine sampling of the treatment units.
- □ A search for sites additional stands on the OESF to replicate of these biodiversity type thinning treatments was conducted.

2) Spotted Owl Effectiveness Monitoring in SE region - Effectiveness Monitoring

The objective of this monitoring project is to support the revision of the Spotted Owl habitat designations and management approach in the Klickitat HCP planning unit. This is a cooperative effort with Washington State Department of Fish and Wildlife, the US Fish and Wildlife Service, and others.

Project activities:

 A monitoring approach was agreed upon by the cooperators consisting of stand and landscape level effectiveness monitoring, continued monitoring of owl

- populations, and investigations into the feasibility of prey and owl movement studies.
- DNR established a long-term agreement with the National Council for Air and Stream Improvement (NCASI), Inc. for baseline monitoring of Spotted Owls in the planning area.
- Extensive modeling of treatment effects was conducted in preparation of monitoring prescriptions.

3) Managing Young Stand Composition and Structure for Forest Productivity and Biodiversity – Research and Effectiveness Monitoring

The National Biological Service jointly funds this research/monitoring project initiated on the OESF in the winter of 1998. The project tests four pre-commercial thinning regimes that are designed to restore diverse ecological stand structures and accelerate the development of quality wildlife habitat. A post treatment report was drafted in 1999.

Project activities:

- □ The treatments were remeasured early in 2003.
- □ A summary report including modeling of future trends will be produced in 2004.

4) Functional Role of Down Woody Debris and Long-term Ecosystem Productivity - Research

This research project is funded by the US Forest Service and was initiated on the OESF in the winter of 1993. The OESF site is one of five replicates in the Pacific Northwest. Reports are available on the web at http://www.fsl.orst.edu/ltep/. The project tests the functional role of down woody debris as habitat. Revision of the down wood targets for DNR HCP units is one of our adaptive management goals. The results of this project also support OESF research into long-term site productivity and balancing ecological and commodity production.

Project activities:

- □ Crews from the Forest Service expended 6 staff months on the remeasurement stand growth on the DNR replicate.
- □ A poster entitled "Long-term Site Productivity: Functional role of down woody debris." was presented at the Northwest Science Association annual meeting held in Forks Washington March 2002.

5) Baseline Spotted Owl Validation Monitoring on the OESF – Validation Monitoring

Conducted annually since 1993, monitoring of the nine sites known to be occupied by Spotted Owls will provide context for eventual Spotted Owl validation monitoring on the OESF.

Project activities:

DNR and USFS crews visited the Steqaleho site and found no evidence of occupation.

Marbled Murrelet Conservation Strategy

The objective of this research is to support the development of the marbled murrelet long-term conservation strategy. The primary focus has been inland (stand) surveys and

the development of the DNR Habitat Relationship Study. The result will be a long-term marbled murrelet conservation strategy and accompanying monitoring plan.

1) Habitat Relationship Study and Interim Marbled Murrelet Conservation Strategy

Marbled Murrelet inland (stand level) surveys were conducted to support the development of the long-term conservation strategy. To date the department has conducted surveys for over 92,000 acres of state land, primarily through contract.

Project activities:

- □ A partnership with the Washington State Department of Fish and Wildlife allowed additional surveys on the OESF in 2002.
- □ Surveys encompassing 600 acres of reclassified habitat in the Straits Planning unit were conducted. These surveys complete the surveys of reclassified habitat in the planning unit under the interim conservation strategy.
- □ Inventory surveys in the North Puget Planning Unit were conducted in 282 acres with plans to significantly increase surveys in 2004. To date approximately 22,000 acres of reclassified habitat and 5,600 acres of forest lands in addition to the reclassified habitat need surveys.

2) Long-term Marbled Murrelet Conservation Strategy

Three planning units, Straits, South Coast and Columbia, have complete surveys for all reclassified habitat. DNR began the planning process for the development of the long-term marbled murrelet conservation strategy in these planning units in June.

Project activities:

□ A planning team was created with representatives from DNR, US Fish and Wildlife Service, and Washington State Department of Fish and Wildlife. The planning team immediately identified the need to convene a scientific summit with the primary goal to generate input from murrelet experts that will be incorporated into the long-term conservation strategy and to recruit willing participants to assist the DNR in the development of this strategy.

3) Influence of Stand Structure, Proximity to Human Activity, and Forest Fragmentation on the Risk of Predation to Nests of Marbled Murrelets on the Olympic Peninsula- Research

In 2003, the DNR continued its support of the four-year cooperative University of Washington project to study predation of marbled murrelet nests. The results will provide information that will be used in developing the long-term murrelet conservation strategy.

Project activities:

□ A final report is due later in 2003.

4) At-Sea Distribution and Abundance of Marbled Murrelets in Relation to Marine Habitat on the Outer Coast of Washington - Research

This jointly funded project by the DNR, WDFW, and others is part of the methods development for the USFS Forest Plan Marbled Murrelet Effectiveness Monitoring. Identical efforts are also underway in Oregon and California. This monitoring is anticipated to become part of the DNR HCP marbled Murrelet validation monitoring.

Project activities:

Annual reports are produced.

5) Marbled Murrelet Radio Tracking and Demographic Studies - Research

This jointly funded pilot project by the DNR and the USFS Pacific Northwest Forest Experiment Station was initiated the spring of 2003. The objective was to demonstrate murrelet capture feasibility to potential funding cooperators.

Project activities:

- Accomplishments include mapping murrelet distribution at night and the capture and banding of four murrelets.
- □ From each captured bird blood was withdrawn and submitted for genetic analysis.
- □ In the autumn of 2003, a research proposal will be written and cooperative funding for 2004 captures and tracking work will be pursued.

For more information on DNR HCP Research, please contact Richard Bigley at the Washington State Department of Natural Resources (360) 902-1717, richard.bigley@wadnr.gov

APPENDIX A: SILVICULTURAL ACTIVITIES

| Chelan HCP Planning Unit | | | |
|---|--------|---------------|---------|
| Silvicultural Activity | Acres | Location | FPA# |
| Timber Harvest - Salvage cut | 383 | T32N R21E S36 | 3007254 |
| Forest regeneration - Hand planting | 367 | T32N R21E S36 | |
| Vegetation management - Seeding grass | 137 | T32N R21E S36 | 3007254 |
| Columbia HCP Plan | ning l | Jnit | • |
| Timber Harvest - Clear cut | 84 | T03N R03E S01 | 2903346 |
| Timber Harvest - Clear cut | 96 | T03N R04E S28 | 2903091 |
| Timber Harvest - Clear cut | 8 | T03N R04E S29 | 2903091 |
| Timber Harvest - Clear cut | 5 | T03N R04E S29 | 2903091 |
| Timber Harvest - Clear cut | 5 | T03N R04E S29 | 2903091 |
| Timber Harvest - Clear cut | 55 | T03N R04E S32 | 2903226 |
| Timber Harvest - Clear cut | 34 | T03N R04E S32 | 2903226 |
| Timber Harvest - Clear cut | 49 | T04N R03E S13 | 2903160 |
| Timber Harvest - Clear cut | 55 | T04N R03E S14 | 2903082 |
| Timber Harvest - Clear cut | | T04N R03E S24 | 2903082 |
| Timber Harvest - Clear cut | 18 | T05N R03E S04 | 2902829 |
| Timber Harvest - Clear cut | | T05N R03E S04 | 2902829 |
| Timber Harvest - Clear cut | | T05N R03E S04 | 2902829 |
| Timber Harvest - Clear cut | | T05N R03E S08 | 2902829 |
| Timber Harvest - Clear cut | | T06N R03E S12 | 2902450 |
| Timber Harvest - Clear cut | | T06N R03E S22 | 2903473 |
| Timber Harvest - Clear cut | | T06N R03E S22 | 2903473 |
| Timber Harvest - Clear cut | | T06N R04E S29 | 2903597 |
| Timber Harvest - Clear cut | | T07N R04E S28 | 2902108 |
| Timber Harvest - Clear cut | | T08N R04W S40 | 2904125 |
| Timber Harvest - Clear cut | | T08N R05W S03 | 2902439 |
| Timber Harvest - Clear cut | | T09N R04W S07 | 2904334 |
| Timber Harvest - Clear cut | | T09N R04W S16 | 2902935 |
| Timber Harvest - Clear cut | | T09N R04W S17 | 2904334 |
| Timber Harvest - Clear cut | | T09N R04W S31 | 2903600 |
| Timber Harvest - Clear cut | | T09N R04W S31 | 2902830 |
| Timber Harvest - Clear cut | | T09N R05W S36 | 2904138 |
| Timber Harvest - Clear cut | | T10N R02W S07 | 2903151 |
| Timber Harvest - Clear cut | | T10N R02W S22 | 2903472 |
| Timber Harvest - Clear cut | | T10N R03W S01 | 2903151 |
| Timber Harvest - Clear cut | | T10N R04W S29 | 2904085 |
| Timber Harvest - Clear cut | | T10N R04W S32 | 2904085 |
| Timber Harvest - Clear cut | | T11N R03E S13 | 2507910 |
| Timber Harvest - Clear cut | | T11N R03E S15 | 2508949 |
| Timber Harvest - Late rotation thinning | | T06N R03E S04 | 2903266 |
| Timber Harvest - Late rotation thinning | | T06N R03E S04 | 2903266 |
| Timber Harvest - Late rotation thinning | | T09N R04W S07 | 2904334 |
| Timber Harvest - Late rotation thinning | | T09N R04W S07 | 2904334 |
| Timber Harvest - Late rotation thinning | | T09N R04W S07 | 2904334 |
| Timber Harvest - Late rotation thinning | | T09N R04W S18 | 2904334 |
| Timber Harvest - Late rotation thinning | | T09N R04W S18 | 2904334 |
| | | T11N R02E S16 | |
| Timber Harvest - Smallwood thinning | | T11N R02E S16 | 2506591 |
| Timber Harvest - Smallwood thinning | | | 2506591 |
| Timber Harvest - Smallwood thinning | | T11N R02E S16 | 2506591 |
| Timber Harvest - Smallwood thinning | 6 | T11N R02E S16 | 2506591 |

| Columbia HCP Plan | nina l | Jnit | |
|---|----------------|----------------|---------|
| Timber Harvest - Smallwood thinning | | T11N R02E S16 | 2506591 |
| Forest site preparation - Aerial herbicide | | T03N R04E S25 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R04E S25 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R04E S30 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R04E S32 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R04E S32 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R04E S32 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R05E S30 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R05E S30 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R05E S31 | 2903887 |
| Forest site preparation - Aerial herbicide | | T03N R05E S31 | 2903887 |
| Forest site preparation - Aerial herbicide | | T05N R02E S36 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R01E S24 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R01E S24 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R01E S24 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R03E S33 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R04E S05 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R04E S05 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R04E S06 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R04E S08 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R04E S08 | 2903887 |
| Forest site preparation - Aerial herbicide | | T06N R04E S29 | 2903887 |
| Forest site preparation - Aerial herbicide | | T07N R04E S32 | 2903887 |
| Forest site preparation - Aerial herbicide | | T07N R04E S32 | 2903887 |
| Forest site preparation - Aerial herbicide | | T07N R04E S32 | 2903887 |
| Forest site preparation - Aerial herbicide | | T07N R04E S32 | 2903887 |
| Forest site preparation - Aerial herbicide | | T08N R04W S04 | 2903887 |
| Forest site preparation - Aerial herbicide | | T08N R04W S04 | 2903887 |
| Forest site preparation - Aerial herbicide | | T11N R02E S14 | 2509508 |
| Forest site preparation - Ground mechanical | | T04N R04E S28 | 2303300 |
| Forest site preparation - Pile and burn | | T11N R02E S13 | |
| Forest site preparation - Pile and burn | | T11N R02E S14 | |
| Forest site preparation - Pile and burn | | T11N R07W S30 | |
| Forest site preparation - Pile and burn | | T12N R02E S16 | |
| Forest site preparation - Pile and burn | | T12N R02E S28 | |
| Forest site preparation - Pile and burn | | T12N R02E S28 | |
| Forest site preparation - Pile and burn | • | T12N R02E S28 | |
| Forest regeneration - Hand planting | | T03N R03E S13 | |
| Forest regeneration - Hand planting | | T03N R03E S13 | |
| Forest regeneration - Hand planting | | T03N R04E S08 | |
| Forest regeneration - Hand planting | | T03N R04E S18 | |
| Forest regeneration - Hand planting | | T03N R04E S25 | |
| Forest regeneration - Hand planting | | T03N R04E S25 | |
| Forest regeneration - Hand planting | | T03N R04E S28 | |
| Forest regeneration - Hand planting | | T03N R04E S29 | |
| Forest regeneration - Hand planting | | T03N R04E S29 | |
| Forest regeneration - Hand planting | | T03N R04E S29 | |
| Forest regeneration - Hand planting | | T03N R04E S29 | |
| Forest regeneration - Hand planting | | T03N R04E S32 | |
| Forest regeneration - Hand planting | | T03N R04E S32 | |
| r orost regeneration - Hand planting | J 4 | 10014 NUTE 002 | |

| Columbia HCP Planning Unit | | | |
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| Forest regeneration - Hand planting | | T03N R04E S32 | |
| Forest regeneration - Hand planting | | T04N R03E S13 | |
| Forest regeneration - Hand planting | | T04N R03E S14 | |
| Forest regeneration - Hand planting | | T04N R03E S14 | |
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| Forest regeneration - Hand planting | | T04N R04E S28 | |
| Forest regeneration - Hand planting | _ | T05N R02E S36 | |
| Forest regeneration - Hand planting | | T05N R03E S06 T06N R01E S24 | |
| Forest regeneration - Hand planting | | | |
| Forest regeneration - Hand planting | | T06N R01E S24 | |
| Forest regeneration - Hand planting | | T06N R01E S24 | |
| Forest regeneration - Hand planting | | T06N R03E S31 | |
| Forest regeneration - Hand planting | | T06N R03E S31 | |
| Forest regeneration - Hand planting | | T06N R04E S05 | |
| Forest regeneration - Hand planting | | T06N R04E S05 | |
| Forest regeneration - Hand planting | | T06N R04E S06 | |
| Forest regeneration - Hand planting | | T06N R04E S08 | |
| Forest regeneration - Hand planting | | T06N R04E S08 | |
| Forest regeneration - Hand planting | | T06N R04E S26 | |
| Forest regeneration - Hand planting | | T06N R04E S29 | |
| Forest regeneration - Hand planting | | T07N R01E S09 | |
| Forest regeneration - Hand planting | | T07N R01E S16 | |
| Forest regeneration - Hand planting | | T07N R04E S32 | |
| Forest regeneration - Hand planting | 6 | T07N R04E S32 | |
| Forest regeneration - Hand planting | 15 | T07N R04E S32 | |
| Forest regeneration - Hand planting | 19 | T07N R04E S32 | |
| Forest regeneration - Hand planting | 55 | T08N R04W S04 | |
| Forest regeneration - Hand planting | 1 | T08N R04W S04 | |
| Forest regeneration - Hand planting | 36 | T08N R04W S04 | |
| Forest regeneration - Hand planting | 6 | T08N R04W S40 | |
| Forest regeneration - Hand planting | 44 | T08N R05W S10 | |
| Forest regeneration - Hand planting | 6 | T09N R02E S03 | |
| Forest regeneration - Hand planting | 8 | T09N R02E S11 | |
| Forest regeneration - Hand planting | 46 | T09N R04W S19 | |
| Forest regeneration - Hand planting | 99 | T09N R04W S31 | |
| Forest regeneration - Hand planting | 41 | T09N R05W S35 | |
| Forest regeneration - Hand planting | 20 | T10N R02W S10 | |
| Forest regeneration - Hand planting | 60 | T10N R06W S35 | |
| Forest regeneration - Hand planting | | T10N R06W S35 | |
| Forest regeneration - Hand planting | | T10N R06W S36 | |
| Forest regeneration - Hand planting | | T11N R02E S13 | |
| Forest regeneration - Hand planting | | T11N R02E S14 | |
| Forest regeneration - Hand planting | | T11N R02E S26 | |
| Forest regeneration - Hand planting | | T11N R02E S28 | |
| Forest regeneration - Hand planting | | T11N R03E S15 | |
| Forest regeneration - Hand planting | | T11N R07W S30 | |
| Forest regeneration - Hand planting | | T12N R02E S16 | |
| Forest regeneration - Hand planting | | T12N R02E S28 | |
| Forest regeneration - Hand planting | | T12N R02E S28 | |
| Forest regeneration - Hand planting | | T12N R02E S28 | |
| | | T11N R02E S13 | 2500500 |
| Vegetation management - Aerial herbicide | 10 | I I IIN RUZE 313 | 2509508 |

| Vegetation management - Aerial herbicide 50 T11N R02E S14 2509508 Vegetation management - Aerial herbicide 10 T11N R02E S14 2509508 Vegetation management - Aerial herbicide 15 T11N R02E S14 2509508 Vegetation management - Ground herbicide 10 T05N R02E S36 700000000000000000000000000000000000 | Columbia HCP Planning Unit | | | |
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| Vegetation management - Hand cutting 20 T12N R03E S29 Vegetation management - Hand cutting 80 T12N R08E S09 Vegetation management - Hand cutting 21 T13N R01E S36 Vegetation management - Hand cutting 22 T13N R01E S36 Vegetation management - Hand cutting 35 T13N R03E S20 Vegetation management - Hand cutting 29 T13N R04E S36 Vegetation management - Hand cutting 5 T13N R09E S09 Vegetation management - Hand cutting 5 T13N R09E S09 Vegetation management - Hand cutting 20 T13N R09E S09 Vegetation management - Hand cutting 20 T13N R09E S09 Vegetation management - Hand cutting 20 T13N R09E S09 Vegetation management - Hand cutting 20 T13N R09E S09 Vegetation management - Hand cutting 34 T09N R04W S08 Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late r | | | | |
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| Vegetation management - Hand cutting 21 T13N R01E S36 Vegetation management - Hand cutting 22 T13N R01E S36 Vegetation management - Hand cutting 35 T13N R03E S20 Vegetation management - Hand cutting 29 T13N R04E S36 Vegetation management - Hand cutting 5 T13N R09E S09 Vegetation management - Hand cutting 50 T13N R09E S09 Vegetation management - Hand cutting 50 T13N R09E S09 Vegetation management - Hand cutting 50 T13N R09E S16 Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Salvage cut 4 T04N R09E S24 2702078 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S29 2701648 Torest regeneration - Hand planting 6 T04N R10E S07 Forest regeneration - Hand planting 7 T05N R12E S17 Forest regeneration - Hand planting 7 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 | | | | |
| Vegetation management - Hand cutting 22 T13N R01E S36 Vegetation management - Hand cutting 35 T13N R03E S20 Vegetation management - Hand cutting 29 T13N R04E S36 Vegetation management - Hand cutting 5 T13N R09E S09 Vegetation management - Hand cutting 50 T13N R09E S09 Vegetation management - Hand cutting 2 T13N R09E S16 Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S28 2701648 Forest siep preparation - Hand planting 6 T04N R10E S08 | <u> </u> | | | |
| Vegetation management - Hand cutting 35 T13N R03E S20 Vegetation management - Hand cutting 29 T13N R04E S36 Vegetation management - Hand cutting 5 T13N R09E S09 Vegetation management - Hand cutting 50 T13N R09E S09 Vegetation management - Hand cutting 2 T13N R09E S09 Vegetation management - Hand cutting 2 T13N R09E S09 Vegetation management - Hand cutting 34 T09N R04W S08 Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 | | | | |
| Vegetation management - Hand cutting 29 T13N R04E S36 Vegetation management - Hand cutting 5 T13N R09E S09 Vegetation management - Hand cutting 50 T13N R09E S09 Vegetation management - Hand cutting 2 T13N R09E S16 Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S29 2701648 Forest regeneration - | | | | |
| Vegetation management - Hand cutting 5 T13N R09E S09 Vegetation management - Hand cutting 50 T13N R09E S09 Vegetation management - Hand cutting 2 T13N R09E S16 Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Salvage cut 4 T04N R09E S24 2702078 Timber Harvest - Uneven-aged management 360 T12N R14E S29 2701648 Tomber Harvest - Uneven-aged management 178 T12N R14E S29 2701648 Torest regeneration - Hand planting 6 T04N R10E S08 Forest regeneration - Hand planting 15 T04N R10E S07 Forest regeneration - Hand planting 2 T04N R10E | | | | |
| Vegetation management - Hand cutting 50 T13N R09E S09 Vegetation management - Hand cutting 2 T13N R09E S16 Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S28 2701648 Forest site preparation - Ground mechanical 8 T04N R10E S08 Forest regeneration - Hand planting 15 T04N R10E S07 Forest regeneration - Hand planting 15 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 | | | | |
| Vegetation management - Hand cutting 2 T13N R09E S16 Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Uneven-aged management 404 T06N R11E S35 2701246 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S29 2701648 Forest site preparation - Ground mechanical 8 T04N R10E S08 Forest regeneration - Hand planting 15 T04N R10E S07 Forest regeneration - Hand planting 8 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting | | | | |
| Pre-commercial thinning 34 T09N R04W S08 Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701248 <td></td> <td></td> <td></td> <td></td> | | | | |
| Pre-commercial thinning 93 T09N R04W S17 Pest management - Shielding or fencing 17 T11N R02E S28 Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Salvage cut 4 T04N R09E S24 2702078 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S29 2701648 Forest site preparation - Ground mechanical 8 T04N R10E S08 Forest regeneration - Hand planting 6 T04N R10E S07 Forest regeneration - Hand planting 8 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting < | | | | |
| Name | | | | |
| Klickitat HCP Planning Unit Timber Harvest - Clear cut 63 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 5 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 11 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Salvage cut 4 T04N R09E S24 2702078 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S29 2701648 Forest site preparation - Ground mechanical 8 T04N R10E S08 Forest regeneration - Hand planting 6 T04N R10E S07 Forest regeneration - Hand planting 15 T04N R10E S08 Forest regeneration - Hand planting 2 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | , and the second | | | |
| Timber Harvest - Clear cut Timber Harvest - Late rotation thinning Timber Harvest - Salvage cut Timber Harvest - Salvage cut Timber Harvest - Uneven-aged management Transparent Trans | | | | |
| Timber Harvest - Late rotation thinning Timber Harvest - Salvage cut Timber Harvest - Uneven-aged management To4N R14E S28 To4N R16E S08 To4N R10E S08 To4N R10E S07 Forest regeneration - Hand planting To4N R10E S08 To5N R12E S17 To7SN R12E S17 | | | | 2701613 |
| Timber Harvest - Late rotation thinning Timber Harvest - Salvage cut Timber Harvest - Salvage cut Timber Harvest - Uneven-aged management Timber Harvest - U | | | | |
| Timber Harvest - Late rotation thinning 9 T05N R12E S17 2701613 Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Salvage cut 4 T04N R09E S24 2702078 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S29 2701648 Forest site preparation - Ground mechanical 8 T04N R10E S08 Forest regeneration - Hand planting 15 T04N R10E S07 Forest regeneration - Hand planting 8 T04N R10E S08 Forest regeneration - Hand planting 2 T04N R10E S08 Forest regeneration - Hand planting 2 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
| Timber Harvest - Late rotation thinning 404 T06N R11E S35 2701246 Timber Harvest - Salvage cut 4 T04N R09E S24 2702078 Timber Harvest - Uneven-aged management 360 T12N R14E S28 2701648 Timber Harvest - Uneven-aged management 178 T12N R14E S29 2701648 Forest site preparation - Ground mechanical 8 T04N R10E S08 Forest regeneration - Hand planting 6 T04N R10E S07 Forest regeneration - Hand planting 15 T04N R10E S07 Forest regeneration - Hand planting 8 T04N R10E S08 Forest regeneration - Hand planting 2 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
| Timber Harvest - Salvage cut Timber Harvest - Uneven-aged management Timber Harvest - Uneven-aged management Timber Harvest - Uneven-aged management Total R14E S28 Timber Harvest - Uneven-aged management Total R14E S29 Total R10E S08 Total R10E S07 Total R10E S07 Total R10E S07 Total R10E S08 Total R10E S17 | | | | |
| Timber Harvest - Uneven-aged management Tourn R14E S29 Tourn R14E S29 Tourn R14E S29 Tourn R14E S29 Tourn R10E S08 Tourn R10E S07 Tourn R10E S07 Tourn R10E S07 Tourn R10E S07 Tourn R10E S08 Tourn R10E | | | | |
| Timber Harvest - Uneven-aged management Forest site preparation - Ground mechanical Forest regeneration - Hand planting | _ | | | |
| Forest site preparation - Ground mechanical 8 T04N R10E S08 Forest regeneration - Hand planting 6 T04N R10E S07 Forest regeneration - Hand planting 15 T04N R10E S07 Forest regeneration - Hand planting 8 T04N R10E S08 Forest regeneration - Hand planting 2 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
| Forest regeneration - Hand planting 6 T04N R10E S07 Forest regeneration - Hand planting 15 T04N R10E S07 Forest regeneration - Hand planting 8 T04N R10E S08 Forest regeneration - Hand planting 2 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
| Forest regeneration - Hand planting Toon R15E S16 | | | | |
| Forest regeneration - Hand planting 8 T04N R10E S08 Forest regeneration - Hand planting 2 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
| Forest regeneration - Hand planting 2 T04N R10E S08 Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
| Forest regeneration - Hand planting 5 T05N R12E S17 Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
| Forest regeneration - Hand planting 63 T05N R12E S17 Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
| Forest regeneration - Hand planting 184 T06N R15E S16 | | | | |
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| | Forest regeneration - Hand planting | | | |

| North Puget HCP Pla | nning | Unit | |
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| Vegetation management - Ground herbicide | | T06N R15E S16 | I |
| Vegetation management - Ground herbicide | | T06N R15E S18 | |
| Timber Harvest - Clear cut | | T28N R08E S08 | 2803991 |
| Timber Harvest - Clear cut | | T28N R08E S17 | 2803991 |
| | | T28N R08E S17 | |
| Timber Harvest - Clear cut | | T28N R09E S20 | 2803991 |
| Timber Harvest - Clear cut | _ | | 2801397 |
| Timber Harvest - Clear cut | | T28N R09E S29 T28N R09E S29 | 2801397 |
| Timber Harvest - Clear cut | | | 2801397 |
| Timber Harvest - Clear cut | | T28N R09E S32 | 2801397 |
| Timber Harvest - Clear cut | | T29N R07E S06 | 2803515 |
| Timber Harvest - Clear cut | | T29N R07E S09 | 2803887 |
| Timber Harvest - Clear cut | | T33N R05E S13 | 2804176 |
| Timber Harvest - Clear cut | | T33N R05E S21 | 2803336 |
| Timber Harvest - Clear cut | | T33N R05E S35 | 2802349 |
| Timber Harvest - Clear cut | | T33N R05E S35 | 2802349 |
| Timber Harvest - Clear cut | | T33N R05E S35 | 2802349 |
| Timber Harvest - Clear cut | | T33N R05E S35 | 2802349 |
| Timber Harvest - Clear cut | | T33N R05E S35 | 2802349 |
| Timber Harvest - Clear cut | | T33N R06E S18 | 2804176 |
| Timber Harvest - Clear cut | | T33N R06E S23 | 2804037 |
| Timber Harvest - Clear cut | 69 | T33N R06E S23 | 2804037 |
| Timber Harvest - Clear cut | 38 | T35N R05E S01 | 2805350 |
| Timber Harvest - Clear cut | 84 | T35N R05E S03 | 2805163 |
| Timber Harvest - Clear cut | 55 | T36N R04E S01 | 2803110 |
| Timber Harvest - Clear cut | 8 | T36N R05E S33 | 2804725 |
| Timber Harvest - Clear cut | 81 | T36N R05E S34 | 2804725 |
| Timber Harvest - Clear cut | 59 | T36N R06E S06 | 2802418 |
| Timber Harvest - Clear cut | 54 | T37N R04E S36 | 2803110 |
| Timber Harvest - Clear cut | 39 | T37N R05E S03 | 2803512 |
| Timber Harvest - Clear cut | 29 | T37N R05E S10 | 2803512 |
| Timber Harvest - Clear cut | 35 | T37N R05E S18 | 2805059 |
| Timber Harvest - Clear cut | 34 | T37N R05E S18 | 2805059 |
| Timber Harvest - Clear cut | 37 | T37N R05E S25 | 2802418 |
| Timber Harvest - Clear cut | | T37N R06E S30 | 2802418 |
| Timber Harvest - Clear cut | | T37N R06E S31 | 2802418 |
| Timber Harvest - Clear cut | | T38N R05E S25 | 2803261 |
| Timber Harvest - Clear cut | | T38N R06E S18 | 2804945 |
| Timber Harvest - Clear cut | _ | T38N R06E S19 | 2803261 |
| Timber Harvest - Clear cut | -1 | T38N R06E S19 | 2804945 |
| Timber Harvest - Clear cut | _ | T39N R05E S01 | 2805476 |
| Timber Harvest - Clear cut | _ | T39N R05E S02 | 2805476 |
| Timber Harvest - Clear cut | _ | T39N R05E S08 | 2804536 |
| Timber Harvest - Clear cut | | T39N R05E S10 | 2805476 |
| Timber Harvest - Clear cut | | T39N R05E S12 | 2804246 |
| Timber Harvest - Clear cut | | T39N R05E S12 | 2804240 |
| Timber Harvest - Clear cut | | T39N R05E S14 | 2803422 |
| | | T39N R06E S03 | |
| Timber Harvest - Clear cut | | | 2802468 |
| Timber Harvest - Clear cut | _ | T39N R06E S03 | 2802468 |
| Timber Harvest - Clear cut | _ | T39N R06E S06 | 2802847 |
| Timber Harvest - Clear cut | 59 | T39N R06E S06 | 2802847 |

| North Puget HCP Pla | nnina | Unit | |
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| | | | 0004040 |
| Timber Harvest - Clear cut | | T40N R05E S01 | 2804918 |
| Timber Harvest - Clear cut | | T40N R05E S12 | 2804338 |
| Timber Harvest - Clear cut | | T40N R05E S30 | 2804940 |
| Timber Harvest - Clear cut | | T40N R06E S31 | 2803746 |
| Timber Harvest - Late rotation thinning | | T28N R09E S17 | 2801397 |
| Timber Harvest - Late rotation thinning | | T28N R09E S21 | 2801397 |
| Timber Harvest - Late rotation thinning | | T29N R07E S08 | 2803515 |
| Timber Harvest - Late rotation thinning | | T29N R07E S08 | 2803515 |
| Timber Harvest - Late rotation thinning | | T29N R07E S08 | 2803515 |
| Timber Harvest - Late rotation thinning | | T29N R07E S12 | 2804340 |
| Timber Harvest - Late rotation thinning | | T29N R08E S17 | 2802660 |
| Timber Harvest - Late rotation thinning | | T29N R08E S17 | 2802660 |
| Timber Harvest - Late rotation thinning | | T29N R08E S17 | 2802660 |
| Timber Harvest - Late rotation thinning | | T29N R08E S18 | 2802660 |
| Timber Harvest - Late rotation thinning | - | T29N R08E S18 | 2802660 |
| Timber Harvest - Late rotation thinning | | T29N R08E S19 | 2802660 |
| Timber Harvest - Late rotation thinning | | T29N R08E S20 | 2802660 |
| Timber Harvest - Late rotation thinning | | T29N R08E S20 | 2802660 |
| Timber Harvest - Late rotation thinning | | T29N R08E S29 | 2802988 |
| Timber Harvest - Smallwood thinning | | T29N R07E S06 | 2803515 |
| Timber Harvest - Smallwood thinning | | T37N R05E S09 | 2803549 |
| Timber Harvest - Two aged management | | T29N R07E S12 | 2804340 |
| Timber Harvest - Two aged management | 84 | T29N R08E S07 | 2804340 |
| Timber Harvest - Two aged management | 25 | T29N R08E S07 | 2804340 |
| Timber Harvest - Uneven-aged management | 135 | T29N R08E S32 | 2802988 |
| Timber Harvest - Variable density thinning | 145 | T32N R09E S21 | 2804953 |
| Forest site preparation - Aerial herbicide | 56 | T28N R07E S01 | |
| Forest site preparation - Aerial herbicide | | T28N R07E S04 | |
| Forest site preparation - Aerial herbicide | 55 | T28N R08E S15 | |
| Forest site preparation - Aerial herbicide | 24 | T29N R07E S06 | |
| Forest site preparation - Aerial herbicide | 27 | T29N R07E S09 | |
| Forest site preparation - Aerial herbicide | 13 | T31N R06E S16 | |
| Forest site preparation - Aerial herbicide | 26 | T31N R06E S16 | |
| Forest site preparation - Aerial herbicide | 25 | T31N R06E S16 | |
| Forest site preparation - Aerial herbicide | 71 | T31N R07E S32 | |
| Forest site preparation - Aerial herbicide | 40 | T31N R07E S32 | |
| Forest site preparation - Aerial herbicide | 18 | T33N R05E S35 | |
| Forest site preparation - Aerial herbicide | 15 | T33N R05E S35 | |
| Forest site preparation - Aerial herbicide | 61 | T33N R05E S35 | |
| Forest site preparation - Aerial herbicide | 67 | T33N R05E S36 | |
| Forest site preparation - Aerial herbicide | 93 | T33N R06E S18 | |
| Forest site preparation - Aerial herbicide | 71 | T34N R05E S28 | |
| Forest site preparation - Aerial herbicide | | T34N R05E S28 | |
| Forest site preparation - Aerial herbicide | | T34N R05E S33 | |
| Forest regeneration - Hand planting | | T23N R08E S06 | |
| Forest regeneration - Hand planting | | T23N R08E S07 | |
| Forest regeneration - Hand planting | | T23N R08E S07 | |
| Forest regeneration - Hand planting | | T23N R08E S07 | |
| Forest regeneration - Hand planting | | T26N R07E S01 | |
| Forest regeneration - Hand planting | | T26N R07E S01 | |

| North Puget HCP Pla | nnina | Unit |
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| Forest regeneration - Hand planting | | T26N R07E S02 |
| Forest regeneration - Hand planting | | T26N R07E S02 |
| Forest regeneration - Hand planting | | T26N R07E S11 |
| Forest regeneration - Hand planting | | T26N R07E S14 |
| Forest regeneration - Hand planting | | T26N R08E S06 |
| Forest regeneration - Hand planting | | T26N R08E S17 |
| Forest regeneration - Hand planting | | T26N R08E S20 |
| Forest regeneration - Hand planting | | T28N R07E S01 |
| Forest regeneration - Hand planting | | T28N R07E S04 |
| Forest regeneration - Hand planting | | T28N R07E S04 |
| Forest regeneration - Hand planting | | T28N R08E S15 |
| Forest regeneration - Hand planting | | T29N R07E S06 |
| Forest regeneration - Hand planting | | T29N R07E S09 |
| Forest regeneration - Hand planting | | T29N R07E S12 |
| Forest regeneration - Hand planting | | T29N R07E S12 |
| Forest regeneration - Hand planting | | T29N R07E S12 |
| Forest regeneration - Hand planting | | T30N R07E S36 |
| | | T30N R07E S36 |
| Forest regeneration - Hand planting Forest regeneration - Hand planting | | T30N R07E S30 |
| Forest regeneration - Hand planting | | T30N R08E S31 |
| Forest regeneration - Hand planting | | T30N R08E S31 |
| Forest regeneration - Hand planting | | T31N R06E S16 |
| | | T31N R06E S16 |
| Forest regeneration - Hand planting | | T31N R06E S16 |
| Forest regeneration - Hand planting Forest regeneration - Hand planting | | T31N R07E S32 |
| Forest regeneration - Hand planting | | T31N R07E S32 |
| Forest regeneration - Hand planting | | T32N R06E S05 |
| Forest regeneration - Hand planting | | T32N R06E S08 |
| Forest regeneration - Hand planting | | T32N R06E S36 |
| Forest regeneration - Hand planting | | T32N R07E S03 |
| Forest regeneration - Hand planting | | T33N R05E S13 |
| Forest regeneration - Hand planting | | T33N R05E S35 |
| Forest regeneration - Hand planting | | T33N R05E S35 |
| Forest regeneration - Hand planting | | T33N R05E S35 |
| Forest regeneration - Hand planting | | T33N R05E S36 |
| Forest regeneration - Hand planting | | T33N R06E S16 |
| Forest regeneration - Hand planting | | T33N R06E S18 |
| Forest regeneration - Hand planting | | T33N R06E S21 |
| Forest regeneration - Hand planting | | T33N R06E S21 |
| , , | | T33N R06E S22 |
| Forest regeneration - Hand planting | | |
| Forest regeneration - Hand planting Forest regeneration - Hand planting | | T33N R06E S22 T33N R06E S23 |
| | | T33N R06E S23 |
| Forest regeneration - Hand planting | | T33N R06E S25 |
| Forest regeneration - Hand planting | | T33N R10E S25 |
| Forest regeneration - Hand planting | | T33N R10E S17 |
| Forest regeneration - Hand planting Forest regeneration - Hand planting | | T33N R10E S17 |
| | | T34N R05E S28 |
| Forest regeneration - Hand planting | | T34N R05E S28 |
| Forest regeneration - Hand planting | | |
| Forest regeneration - Hand planting | ∠6 | T34N R05E S33 |

| North Puget HCP Pl | anning | Unit | |
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| | | T35N R06E S01 | |
| Forest regeneration - Hand planting | | T35N R06E S02 | |
| Forest regeneration - Hand planting Forest regeneration - Hand planting | | T36N R04E S01 | |
| | | T36N R04E S01 | |
| Forest regeneration - Hand planting | | | |
| Forest regeneration - Hand planting | | T36N R06E S06 | |
| Forest regeneration - Hand planting | | T37N R04E S36 | |
| Forest regeneration - Hand planting | | T37N R05E S02 | |
| Forest regeneration - Hand planting | | T37N R05E S02 | |
| Forest regeneration - Hand planting | | T37N R05E S02 | |
| Forest regeneration - Hand planting | | T37N R05E S15 | |
| Forest regeneration - Hand planting | | T37N R05E S18 | |
| Forest regeneration - Hand planting | | T37N R05E S22 | |
| Forest regeneration - Hand planting | | T37N R05E S25 | |
| Forest regeneration - Hand planting | | T37N R06E S30 | |
| Forest regeneration - Hand planting | | T37N R06E S31 | |
| Forest regeneration - Hand planting | | T38N R05E S25 | |
| Forest regeneration - Hand planting | | T38N R05E S26 | |
| Forest regeneration - Hand planting | | T38N R05E S36 | |
| Forest regeneration - Hand planting | | T38N R06E S18 | |
| Forest regeneration - Hand planting | | T38N R06E S19 | |
| Forest regeneration - Hand planting | | T38N R06E S19 | |
| Forest regeneration - Hand planting | | T39N R05E S08 | |
| Forest regeneration - Hand planting | 66 | T39N R05E S15 | |
| Forest regeneration - Hand planting | | T39N R06E S06 | |
| Forest regeneration - Hand planting | 57 | T39N R06E S06 | |
| Forest regeneration - Hand planting | 34 | T40N R05E S12 | |
| Forest regeneration - Hand planting | 43 | T40N R05E S30 | |
| Forest regeneration - Hand planting | 61 | T40N R06E S06 | |
| Forest regeneration - Hand planting | 41 | T40N R06E S31 | |
| Forest regeneration - Hand planting | 43 | T40N R06E S33 | |
| Forest regeneration - Hand planting | 31 | T40N R06E S33 | |
| Vegetation management - Aerial herbicide | 26 | T30N R07E S21 | |
| Vegetation management - Aerial herbicide | 6 | T30N R07E S21 | |
| Vegetation management - Aerial herbicide | 41 | T33N R06E S20 | |
| Vegetation management - Aerial herbicide | 38 | T33N R06E S20 | |
| Vegetation management - Aerial herbicide | 81 | T33N R10E S17 | |
| Vegetation management - Aerial herbicide | 75 | T34N R05E S33 | |
| Vegetation management - Aerial herbicide | 62 | T38N R05E S36 | 2805270 |
| Vegetation management - Aerial herbicide | | T38N R05E S36 | 2805270 |
| Vegetation management - Ground herbicide | | T28N R07E S08 | |
| Vegetation management - Ground herbicide | _ | T29N R07E S02 | |
| Vegetation management - Ground herbicide | | T29N R07E S11 | |
| Vegetation management - Ground herbicide | | T29N R08E S33 | |
| Vegetation management - Ground herbicide | | T30N R07E S21 | |
| Vegetation management - Ground herbicide | | T30N R07E S21 | |
| Vegetation management - Ground herbicide | | T31N R06E S02 | |
| Vegetation management - Ground herbicide | | T31N R06E S02 | |
| Vegetation management - Ground herbicide | | T32N R07E S16 | |
| Vegetation management - Ground herbicide | | T32N R07E S17 | |
| | | | |
| Vegetation management - Ground herbicide | 53 | T33N R05E S26 | |

| North Puget HCP Pla | nnina | Unit |
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| | | |
| Vegetation management - Ground herbicide | | T33N R09E S36 |
| Vegetation management - Ground herbicide | | T33N R10E S21 |
| Vegetation management - Ground herbicide | | T35N R06E S27 |
| Vegetation management - Ground herbicide | | T36N R05E S19 |
| Vegetation management - Ground herbicide | | T36N R06E S07 |
| Vegetation management - Ground herbicide | | T36N R06E S18 |
| Vegetation management - Ground herbicide | | T37N R05E S04 |
| Vegetation management - Ground herbicide | | T37N R05E S22 |
| Vegetation management - Ground herbicide | | T37N R05E S22 |
| Vegetation management - Ground herbicide | 4 | T37N R05E S26 |
| Vegetation management - Ground herbicide | | T37N R05E S28 |
| Vegetation management - Ground herbicide | | T37N R05E S29 |
| Vegetation management - Ground herbicide | | T37N R05E S33 |
| Vegetation management - Ground herbicide | | T37N R05E S33 |
| Vegetation management - Ground herbicide | | T37N R05E S33 |
| Vegetation management - Ground herbicide | | T38N R05E S16 |
| Vegetation management - Ground herbicide | 34 | T39N R05E S29 |
| Vegetation management - Ground herbicide | | T40N R05E S26 |
| Vegetation management - Ground herbicide | 60 | T40N R06E S27 |
| Vegetation management - Ground herbicide | 34 | T40N R06E S27 |
| Vegetation management - Ground herbicide | 24 | T40N R06E S28 |
| Vegetation management - Ground herbicide | 26 | T40N R06E S29 |
| Vegetation management - Hand cutting | 73 | T26N R07E S24 |
| Vegetation management - Hand cutting | 60 | T26N R08E S06 |
| Vegetation management - Hand cutting | 5 | T26N R08E S07 |
| Vegetation management - Hand cutting | 5 | T26N R08E S07 |
| Vegetation management - Hand cutting | 5 | T26N R08E S07 |
| Vegetation management - Hand cutting | 4 | T26N R08E S07 |
| Vegetation management - Hand cutting | 5 | T26N R08E S07 |
| Vegetation management - Hand cutting | 47 | T27N R07E S36 |
| Vegetation management - Hand cutting | 63 | T27N R07E S36 |
| Vegetation management - Hand cutting | 19 | T27N R08E S31 |
| Vegetation management - Hand cutting | 63 | T28N R08E S07 |
| Vegetation management - Hand cutting | 10 | T28N R09E S29 |
| Vegetation management - Hand cutting | 90 | T29N R07E S13 |
| Vegetation management - Hand cutting | 211 | T29N R07E S13 |
| Vegetation management - Hand cutting | 67 | T29N R07E S15 |
| Vegetation management - Hand cutting | 29 | T29N R07E S15 |
| Vegetation management - Hand cutting | 94 | T30N R07E S34 |
| Vegetation management - Hand cutting | 13 | T30N R07E S34 |
| Vegetation management - Hand cutting | 2 | T30N R07E S35 |
| Vegetation management - Hand cutting | 29 | T32N R06E S27 |
| Vegetation management - Hand cutting | 60 | T32N R07E S02 |
| Vegetation management - Hand cutting | 66 | T32N R07E S24 |
| Vegetation management - Hand cutting | 44 | T32N R08E S19 |
| Vegetation management - Hand cutting | 86 | T32N R09E S04 |
| Vegetation management - Hand cutting | 37 | T32N R09E S15 |
| Vegetation management - Hand cutting | | T32N R09E S18 |
| Vegetation management - Hand cutting | | T32N R09E S18 |
| Vegetation management - Hand cutting | | T32N R10E S08 |

| North Puget HCP Pla | nnina | Unit |
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| Vegetation management - Hand cutting | | T33N R05E S05 |
| Vegetation management - Hand cutting | | T33N R05E S08 |
| Vegetation management - Hand cutting | | T33N R05E S15 |
| Vegetation management - Hand cutting | | T33N R05E S17 |
| · · | | T33N R05E S23 |
| Vegetation management - Hand cutting | | |
| Vegetation management - Hand cutting | | T33N R05E S23 |
| Vegetation management - Hand cutting | | T33N R06E S36 |
| Vegetation management - Hand cutting | | T33N R07E S29 |
| Vegetation management - Hand cutting | | T33N R07E S31 T33N R10E S08 |
| Vegetation management - Hand cutting | | |
| Vegetation management - Hand cutting | | T33N R10E S08 |
| Vegetation management - Hand cutting | | T33N R10E S09 |
| Vegetation management - Hand cutting | | T33N R10E S15 |
| Vegetation management - Hand cutting | | T33N R10E S19 |
| Vegetation management - Hand cutting | | T33N R10E S19 |
| Vegetation management - Hand cutting | | T33N R10E S21 |
| Vegetation management - Hand cutting | | T33N R10E S24 |
| Vegetation management - Hand cutting | | T34N R05E S03 |
| Vegetation management - Hand cutting | | T34N R05E S04 |
| Vegetation management - Hand cutting | | T34N R09E S25 |
| Vegetation management - Hand cutting | | T35N R05E S36 |
| Vegetation management - Hand cutting | | T35N R05E S36 |
| Vegetation management - Hand cutting | | T35N R05E S36 |
| Vegetation management - Hand cutting | | T35N R05E S36 |
| Vegetation management - Hand cutting | | T35N R06E S23 |
| Vegetation management - Hand cutting | | T35N R06E S27 |
| Vegetation management - Hand cutting | | T35N R07E S01 |
| Vegetation management - Hand cutting | | T35N R07E S06 |
| Vegetation management - Hand cutting | | T35N R07E S07 |
| Vegetation management - Hand cutting | | T35N R08E S08 |
| Vegetation management - Hand cutting | | T35N R08E S08 |
| Vegetation management - Hand cutting | | T36N R03E S04 |
| Vegetation management - Hand cutting | | T36N R04E S09 |
| Vegetation management - Hand cutting | | T36N R04E S09 |
| Vegetation management - Hand cutting | 23 | T36N R04E S16 |
| Vegetation management - Hand cutting | 34 | T36N R04E S22 |
| Vegetation management - Hand cutting | 100 | T36N R05E S19 |
| Vegetation management - Hand cutting | 71 | T36N R06E S28 |
| Vegetation management - Hand cutting | 70 | T36N R06E S35 |
| Vegetation management - Hand cutting | 84 | T37N R04E S24 |
| Vegetation management - Hand cutting | 42 | T37N R04E S25 |
| Vegetation management - Hand cutting | 41 | T37N R05E S32 |
| Vegetation management - Hand cutting | 68 | T37N R05E S35 |
| Vegetation management - Hand cutting | 136 | T37N R05E S35 |
| Vegetation management - Hand cutting | 20 | T38N R04E S20 |
| Vegetation management - Hand cutting | 22 | T38N R04E S29 |
| Vegetation management - Hand cutting | 23 | T38N R04E S29 |
| Vegetation management - Hand cutting | 51 | T38N R04E S36 |
| Vegetation management - Hand cutting | 47 | T38N R04E S36 |
| Vegetation management - Hand cutting | 13 | T38N R04E S36 |

| North Puget HCP Pla | nnina | Unit | |
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| Vegetation management - Hand cutting | | T38N R04E S36 | |
| Vegetation management - Hand cutting | | T38N R05E S13 | |
| Vegetation management - Hand cutting | | T38N R05E S14 | |
| Vegetation management - Hand cutting | | T38N R05E S24 | |
| Vegetation management - Hand cutting | | T38N R05E S36 | |
| Vegetation management - Hand cutting | | T39N R05E S29 | |
| | | T39N R05E S29 | |
| Vegetation management - Hand cutting Vegetation management - Hand cutting | | T39N R05E S29 | |
| Vegetation management - Hand cutting | | T39N R06E S05 | |
| Vegetation management - Hand cutting | | T40N R05E S04 | |
| Vegetation management - Hand cutting | | T40N R05E S04 | |
| | | T40N R05E S05 | |
| Vegetation management - Hand cutting OESF HCP Planni | | | |
| | | | 2002274 |
| Timber Harvest - Clear cut | | T27N R12W S19 | 2602274 |
| Timber Harvest - Smallwood thinning | | T25N R12W S34 | 2603114 |
| Timber Harvest - Smallwood thinning | | T26N R12W S06 | 2602274 |
| Timber Harvest - Smallwood thinning | | T26N R12W S06 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S09 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S19 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S19 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S19 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S19 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S19 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S20 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S20 | 2602274 |
| Timber Harvest - Smallwood thinning | | T27N R12W S21 | 2602274 |
| Timber Harvest - Smallwood thinning | | T32N R12W S29 | 2601475 |
| Timber Harvest - Smallwood thinning | | T32N R12W S29 | 2601475 |
| Timber Harvest - Smallwood thinning | | T32N R12W S30 | 2601475 |
| Forest regeneration - Hand planting | | T27N R12W S19 | |
| Forest regeneration - Hand planting | | T29N R13W S03 | |
| Forest regeneration - Hand planting | | T29N R14W S25 | |
| Forest regeneration - Hand planting | | T29N R14W S25 | |
| Forest regeneration - Hand planting | | T29N R14W S26 | |
| Forest regeneration - Hand planting | | T29N R14W S26 | |
| Forest regeneration - Hand planting | | T30N R12W S25 | |
| Forest regeneration - Hand planting | | T30N R12W S26 | |
| Forest regeneration - Hand planting | | T30N R13W S30 | |
| Forest regeneration - Hand planting | | T32N R12W S32 | |
| Pre-commercial thinning | | T24N R11W S26 | |
| Pre-commercial thinning | | T24N R11W S26 | |
| Pre-commercial thinning | | T24N R11W S26 | |
| Pre-commercial thinning | | T24N R11W S26 | |
| Pre-commercial thinning | | T25N R11W S02 | |
| Pre-commercial thinning | | T25N R11W S17 | |
| Pre-commercial thinning | | T25N R12W S34 | |
| Pre-commercial thinning | | T26N R10W S15 | |
| Pre-commercial thinning | 98 | T26N R10W S17 | |
| Pre-commercial thinning | 125 | T26N R10W S22 | |
| Pre-commercial thinning | 34 | T26N R10W S28 | |

| OESF HCP Plannii | ng Un | it | |
|----------------------------|-------|---------------|---------|
| Pre-commercial thinning | | T26N R10W S28 | |
| Pre-commercial thinning | | T27N R14W S36 | |
| Pre-commercial thinning | | T27N R14W S36 | |
| Pre-commercial thinning | | T27N R14W S36 | |
| Pre-commercial thinning | | T27N R14W S36 | |
| Pre-commercial thinning | | T27N R14W S36 | |
| Pre-commercial thinning | | T28N R13W S35 | |
| Pre-commercial thinning | | T28N R14W S03 | |
| Pre-commercial thinning | | T28N R14W S27 | |
| Pre-commercial thinning | | T28N R14W S34 | |
| Pre-commercial thinning | | T28N R14W S34 | |
| Pre-commercial thinning | | T28N R14W S34 | |
| Pre-commercial thinning | | T28N R14W S34 | |
| Pre-commercial thinning | | T28N R15W S10 | |
| Pre-commercial thinning | | T28N R15W S10 | |
| Pre-commercial thinning | | T29N R13W S07 | |
| Pre-commercial thinning | | T29N R13W S07 | |
| Pre-commercial thinning | | T30N R10W S30 | |
| Pre-commercial thinning | | T30N R12W S34 | |
| Pre-commercial thinning | | T30N R13W S34 | |
| Pre-commercial thinning | | T30N R13W S34 | |
| Pre-commercial thinning | | T30N R14W S26 | |
| South Coast HCP Plan | | | |
| Timber Harvest - Clear cut | | T11N R08W S27 | 2508457 |
| Timber Harvest - Clear cut | | T11N R09W S27 | 2508445 |
| Timber Harvest - Clear cut | | T12N R03W S26 | 2509440 |
| Timber Harvest - Clear cut | | T12N R08W S02 | 2508763 |
| Timber Harvest - Clear cut | | T13N R06W S22 | 2506339 |
| Timber Harvest - Clear cut | | T13N R06W S28 | 2506339 |
| Timber Harvest - Clear cut | | T13N R07W S01 | 2508495 |
| Timber Harvest - Clear cut | | T13N R07W S01 | 2508495 |
| Timber Harvest - Clear cut | | T13N R07W S18 | 2509500 |
| Timber Harvest - Clear cut | | T13N R07W S29 | 2508441 |
| Timber Harvest - Clear cut | | T13N R08W S06 | 2507782 |
| Timber Harvest - Clear cut | | T13N R08W S06 | 2507782 |
| Timber Harvest - Clear cut | | T13N R08W S12 | 2509500 |
| Timber Harvest - Clear cut | | T13N R08W S21 | 2507780 |
| Timber Harvest - Clear cut | | T14N R03W S04 | 2509439 |
| Timber Harvest - Clear cut | | T14N R03W S09 | 2508942 |
| Timber Harvest - Clear cut | | T14N R03W S16 | 2508942 |
| Timber Harvest - Clear cut | | T14N R05W S33 | 2507555 |
| Timber Harvest - Clear cut | | T14N R05W S34 | 2508947 |
| Timber Harvest - Clear cut | | T14N R05W S34 | 2508947 |
| Timber Harvest - Clear cut | | T15N R05W S04 | 2508939 |
| Timber Harvest - Clear cut | | T15N R05W S35 | 2507869 |
| Timber Harvest - Clear cut | | T16N R03W S17 | 2505889 |
| Timber Harvest - Clear cut | | T16N R04W S03 | 2507360 |
| Timber Harvest - Clear cut | | T16N R04W S05 | 2508948 |
| Timber Harvest - Clear cut | | T16N R04W S05 | 2508948 |
| Timber Harvest - Clear cut | | T16N R04W S12 | 2505889 |
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| South Coast HCP Pla | nnina | Unit | |
|---|-------|-------------------|---------|
| Timber Harvest - Clear cut | | T16N R04W S16 | 2510168 |
| Timber Harvest - Clear cut | | T16N R04W S17 | 2510168 |
| Timber Harvest - Clear cut | | T16N R05W S01 | 2506562 |
| Timber Harvest - Clear cut | | T16N R05W S08 | 2504388 |
| Timber Harvest - Clear cut | | T16N R05W S12 | 2508668 |
| Timber Harvest - Clear cut | | T16N R05W S12 | 2510168 |
| Timber Harvest - Clear cut | | T17N R03W S05 | 200001 |
| Timber Harvest - Clear cut | | T17N R03W S08 | 2508470 |
| Timber Harvest - Clear cut | | T17N R03W S08 | 200001 |
| Timber Harvest - Clear cut | | T17N R03W S09 | 2508470 |
| Timber Harvest - Clear cut | | T17N R03W S09 | 2507201 |
| Timber Harvest - Clear cut | | T17N R03W S32 | 2508159 |
| Timber Harvest - Clear cut | | T17N R04W S05 | 2509101 |
| Timber Harvest - Clear cut | | T17N R04W S26 | 2507360 |
| Timber Harvest - Clear cut | | T17N R04W S27 | 2507360 |
| Timber Harvest - Clear cut | | T17N R04W S27 | 2507560 |
| Timber Harvest - Clear cut | | T17N R04W S30 | 2507778 |
| Timber Harvest - Clear cut | | T17N R04W S31 | 2508159 |
| Timber Harvest - Clear cut | | T17N R05W S23 | 2507154 |
| Timber Harvest - Clear cut | | T17N R05W S23 | 2505843 |
| Timber Harvest - Clear cut | | T17N R05W S23 | 2507154 |
| Timber Harvest - Clear cut | | T17N R05W S24 | 2509244 |
| Timber Harvest - Clear cut | | T17N R05W S25 | 2507154 |
| Timber Harvest - Clear cut | | T17N R05W S25 | 2507154 |
| Timber Harvest - Clear cut | | T17N R05W S25 | 2507154 |
| Timber Harvest - Clear cut | | T18N R03W S28 | 2507850 |
| Timber Harvest - Clear cut | | T18N R03W S33 | 2507573 |
| Timber Harvest - Clear cut | | T18N R03W S33 | 2507573 |
| Timber Harvest - Clear cut | | T18N R04W S30 | 2508074 |
| Timber Harvest - Clear cut | | T18N R04W S32 | 2509101 |
| Timber Harvest - Clear cut | | T18N R04W S33 | 2507620 |
| Timber Harvest - Clear cut | | T18N R04W S33 | 200000 |
| Timber Harvest - Clear cut | | T18N R04W S34 | 2506598 |
| Timber Harvest - Clear cut | | T18N R04W S34 | 2506598 |
| Timber Harvest - Clear cut | | T18N R04W S34 | 2506598 |
| Timber Harvest - Clear cut | | T18N R05W S36 | 2508074 |
| Timber Harvest - Clear cut | | T21N R09W S16 | 2604211 |
| Timber Harvest - Clear cut | | T21N R09W S36 | 2603138 |
| Timber Harvest - Clear cut | | T21N R09W S36 | 2603138 |
| Timber Harvest - Late rotation thinning | | T16N R04W S04 | 2509102 |
| Timber Harvest - Late rotation thinning | | T16N R04W S04 | 2509102 |
| Timber Harvest - Late rotation thinning | | T16N R04W S05 | 2509102 |
| Timber Harvest - Late rotation thinning | | T16N R04W S08 | 2508434 |
| Timber Harvest - Late rotation thinning | | T17N R03W S03 | 2508769 |
| Timber Harvest - Late rotation thinning | | T17N R03W S07 | 2508941 |
| Timber Harvest - Late rotation thinning | | T17N R04W S29 | 2508228 |
| Timber Harvest - Late rotation thinning | | T18N R03W S33 | 2507573 |
| Timber Harvest - Late rotation thinning | | T18N R03W S33 | 2508769 |
| Timber Harvest - Late rotation thinning | | T18N R03W S33 | 2507573 |
| Timber Harvest - Late rotation thinning | | T18N R04W S25 | 2504964 |
| Timber Harvest - Late rotation trilling | 40 | 1 1014 110447 020 | 2004304 |

| South Coast HCP Pla | nnina | Unit | |
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| Timber Harvest - Late rotation thinning | | T18N R04W S25 | 2504964 |
| Timber Harvest - Late rotation thinning | | T18N R04W S25 | 2504964 |
| Timber Harvest - Late rotation thinning | | T18N R04W S26 | 2504964 |
| Timber Harvest - Late rotation thinning Timber Harvest - Late rotation thinning | | T18N R04W S26 | 2504964 |
| Timber Harvest - Salvage cut | | T13N R08W S28 | 2509441 |
| Timber Harvest - Salvage cut | | T16N R04W S03 | 2508509 |
| Timber Harvest - Salvage cut | | T16N R04W S03 | 2508509 |
| Timber Harvest - Salvage cut Timber Harvest - Selective product logging | | T16N R03W S06 | 2507178 |
| Timber Harvest - Selective product logging Timber Harvest - Selective product logging | | T16N R03W S07 | 2507178 |
| Timber Harvest - Selective product logging Timber Harvest - Selective product logging | | T16N R03W S07 | 2507178 |
| Timber Harvest - Selective product logging Timber Harvest - Smallwood thinning | | T16N R04W S07 | 2508434 |
| | | T17N R04W S29 | |
| Timber Harvest - Smallwood thinning | | T18N R03W S31 | 2501427 |
| Timber Harvest - Smallwood thinning | | | 2500036 |
| Timber Harvest - Smallwood thinning | | T18N R04W S32 | 2507633 |
| Forest site preparation - Pile and burn | | T10N R10W S16 | |
| Forest site preparation - Pile and burn | | T12N R08W S02 | |
| Forest site preparation - Pile and burn | | T13N R06W S06 | |
| Forest site preparation - Pile and burn | | T13N R06W S06 | |
| Forest site preparation - Pile and burn | | T13N R06W S22 | |
| Forest site preparation - Pile and burn | | T13N R06W S28 | |
| Forest site preparation - Pile and burn | | T13N R07W S03 | |
| Forest site preparation - Pile and burn | | T13N R08W S06 | |
| Forest site preparation - Pile and burn | | T13N R08W S06 | |
| Forest site preparation - Pile and burn | | T13N R08W S32 | |
| Forest regeneration - Hand planting | | T11N R08W S27 | |
| Forest regeneration - Hand planting | | T11N R09W S29 | |
| Forest regeneration - Hand planting | | T12N R03W S26 | |
| Forest regeneration - Hand planting | | T12N R08W S02 | |
| Forest regeneration - Hand planting | | T13N R06W S21 | |
| Forest regeneration - Hand planting | | T13N R06W S22 | |
| Forest regeneration - Hand planting | | T13N R06W S28 | |
| Forest regeneration - Hand planting | | T13N R07W S29 | |
| Forest regeneration - Hand planting | | T13N R08W S06 | |
| Forest regeneration - Hand planting | | T13N R08W S06 | |
| Forest regeneration - Hand planting | | T13N R08W S07 | |
| Forest regeneration - Hand planting | | T13N R08W S21 | |
| Forest regeneration - Hand planting | | T13N R08W S28 | |
| Forest regeneration - Hand planting | | T13N R08W S32 | |
| Forest regeneration - Hand planting | | T13N R08W S34 | |
| Forest regeneration - Hand planting | | T13N R08W S34 | |
| Forest regeneration - Hand planting | | T14N R03W S04 | |
| Forest regeneration - Hand planting | | T14N R03W S09 | |
| Forest regeneration - Hand planting | | T14N R03W S16 | |
| Forest regeneration - Hand planting | | T14N R05W S33 | |
| Forest regeneration - Hand planting | | T15N R01W S03 | |
| Forest regeneration - Hand planting | | T15N R05W S34 | |
| Forest regeneration - Hand planting | | T15N R05W S34 | |
| Forest regeneration - Hand planting | | T15N R05W S35 | |
| Forest regeneration - Hand planting | | T16N R03W S07 | |
| Forest regeneration - Hand planting | 44 | T16N R04W S03 | |

| South Coast HCP Pla | nnina | Unit | |
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| | | | |
| Forest regeneration - Hand planting | | T16N R04W S03 | |
| Forest regeneration - Hand planting | | T16N R04W S03 | |
| Forest regeneration - Hand planting | | T16N R04W S13 | |
| Forest regeneration - Hand planting | | T16N R04W S14 | |
| Forest regeneration - Hand planting | | T16N R04W S15 | |
| Forest regeneration - Hand planting | | T16N R05W S01 | |
| Forest regeneration - Hand planting | | T16N R05W S08 | |
| Forest regeneration - Hand planting | | T16N R05W S34 | |
| Forest regeneration - Hand planting | | T17N R03W S19 | |
| Forest regeneration - Hand planting | | T17N R03W S20 | |
| Forest regeneration - Hand planting | | T17N R03W S32 | |
| Forest regeneration - Hand planting | | T17N R04W S06 | |
| Forest regeneration - Hand planting | 21 | T17N R04W S26 | |
| Forest regeneration - Hand planting | 28 | T17N R04W S27 | |
| Forest regeneration - Hand planting | 22 | T17N R04W S30 | |
| Forest regeneration - Hand planting | 68 | T17N R04W S31 | |
| Forest regeneration - Hand planting | 14 | T17N R05W S23 | |
| Forest regeneration - Hand planting | 20 | T17N R05W S23 | |
| Forest regeneration - Hand planting | 5 | T17N R05W S24 | |
| Forest regeneration - Hand planting | 4 | T17N R05W S25 | |
| Forest regeneration - Hand planting | 3 | T17N R05W S25 | |
| Forest regeneration - Hand planting | 13 | T17N R05W S25 | |
| Forest regeneration - Hand planting | | T17N R05W S26 | |
| Forest regeneration - Hand planting | | T17N R05W S35 | |
| Forest regeneration - Hand planting | | T18N R03W S28 | |
| Forest regeneration - Hand planting | | T18N R03W S33 | |
| Forest regeneration - Hand planting | | T18N R03W S33 | |
| Forest regeneration - Hand planting | | T18N R04W S30 | |
| Forest regeneration - Hand planting | | T18N R04W S33 | |
| Forest regeneration - Hand planting | | T18N R04W S34 | |
| Forest regeneration - Hand planting | | T18N R04W S34 | |
| Forest regeneration - Hand planting | | T18N R04W S34 | |
| Forest regeneration - Hand planting | | T21N R09W S16 | |
| Forest regeneration - Hand planting | | T21N R09W S36 | |
| Forest regeneration - Hand planting | + | T21N R09W S36 | |
| Vegetation management - Aerial herbicide | | T13N R06W S19 | 991862 |
| Vegetation management - Aerial herbicide | | T13N R06W S19 | 991862 |
| Vegetation management - Aerial herbicide | | T14N R03W S18 | 2509508 |
| | | T14N R03W S18 | |
| Vegetation management - Aerial herbicide | | T14N R03W S18 | 2509508 |
| Vegetation management - Aerial herbicide | | | 2509508 |
| Vegetation management - Aerial herbicide | | T14N R03W S19 | 2509508 |
| Vegetation management - Aerial herbicide | | T14N R03W S19 | 2509508 |
| Vegetation management - Aerial herbicide | | T14N R03W S19 | 2509508 |
| Vegetation management - Aerial herbicide | | T14N R03W S19 | 2509508 |
| Vegetation management - Aerial herbicide | | T14N R03W S20 | 2509508 |
| Vegetation management - Aerial herbicide | | T14N R03W S20 | 2509508 |
| Vegetation management - Aerial herbicide | | T14N R05W S02 | 2509508 |
| Vegetation management - Aerial herbicide | | T14N R05W S10 | 2509508 |
| Vegetation management - Ground herbicide | | T13N R06W S31 | |
| Vegetation management - Ground herbicide | | T13N R07W S36 | |
| Vegetation management - Ground herbicide | 65 | T14N R03W S04 | |

| South Coast HCP Pla | nning Unit |
|--|-------------------|
| Vegetation management - Ground herbicide | 94 T14N R03W S07 |
| Vegetation management - Ground herbicide Vegetation management - Ground herbicide | 120 T14N R03W S08 |
| Vegetation management - Ground herbicide | 70 T14N R03W S10 |
| Vegetation management - Ground herbicide | 40 T14N R04W S10 |
| | 30 T15N R02W S18 |
| Vegetation management - Ground herbicide | |
| Vegetation management - Ground herbicide | 65 T15N R03W S31 |
| Vegetation management - Ground herbicide | 69 T15N R03W S32 |
| Vegetation management - Ground herbicide | 27 T15N R03W S32 |
| Vegetation management - Ground herbicide | 82 T15N R04W S36 |
| Vegetation management - Ground herbicide | 82 T15N R05W S03 |
| Vegetation management - Ground herbicide | 78 T15N R05W S04 |
| Vegetation management - Ground herbicide | 10 T16N R01W S27 |
| Vegetation management - Ground herbicide | 53 T16N R01W S27 |
| Vegetation management - Ground herbicide | 51 T16N R04W S07 |
| Vegetation management - Ground herbicide | 20 T16N R04W S21 |
| Vegetation management - Ground herbicide | 20 T16N R04W S21 |
| Vegetation management - Ground herbicide | 2 T16N R04W S22 |
| Vegetation management - Ground herbicide | 5 T16N R04W S22 |
| Vegetation management - Ground herbicide | 0 T16N R04W S22 |
| Vegetation management - Ground herbicide | 12 T16N R04W S23 |
| Vegetation management - Ground herbicide | 58 T16N R05W S31 |
| Vegetation management - Ground herbicide | 51 T16N R05W S34 |
| Vegetation management - Ground herbicide | 39 T17N R03W S07 |
| Vegetation management - Ground herbicide | 39 T17N R03W S07 |
| Vegetation management - Ground herbicide | 29 T17N R03W S18 |
| Vegetation management - Ground herbicide | 20 T17N R04W S19 |
| Vegetation management - Ground herbicide | 43 T17N R04W S30 |
| Vegetation management - Ground herbicide | 52 T18N R04W S16 |
| Vegetation management - Ground herbicide | 36 T18N R04W S19 |
| Vegetation management - Hand cutting | 27 T11N R07W S18 |
| Vegetation management - Hand cutting | 33 T11N R08W S21 |
| Vegetation management - Hand cutting | 7 T11N R08W S21 |
| Vegetation management - Hand cutting | 42 T11N R08W S27 |
| Vegetation management - Hand cutting | 43 T11N R08W S34 |
| Vegetation management - Hand cutting | 50 T12N R08W S02 |
| Vegetation management - Hand cutting | 41 T12N R08W S02 |
| Vegetation management - Hand cutting | 4 T13N R05W S19 |
| Vegetation management - Hand cutting | 7 T13N R05W S19 |
| Vegetation management - Hand cutting | 6 T13N R05W S19 |
| Vegetation management - Hand cutting | 2 T13N R05W S19 |
| Vegetation management - Hand cutting | 9 T13N R05W S20 |
| Vegetation management - Hand cutting | 4 T13N R05W S20 |
| Vegetation management - Hand cutting | 6 T13N R05W S21 |
| Vegetation management - Hand cutting | 6 T13N R05W S21 |
| Vegetation management - Hand cutting | 2 T13N R05W S22 |
| Vegetation management - Hand cutting | 10 T13N R05W S22 |
| Vegetation management - Hand cutting | 4 T13N R05W S22 |
| Vegetation management - Hand cutting | 2 T13N R05W S22 |
| Vegetation management - Hand cutting | 5 T13N R05W S29 |
| Vegetation management - Hand cutting | 10 T13N R05W S29 |
| v ogotation managoment - Hand Gutting | 10 110 110000 023 |

| South Coast HCP Pla | nnina | Unit | |
|--------------------------------------|-------|---------------|---------|
| Vegetation management - Hand cutting | | T13N R05W S30 | |
| Vegetation management - Hand cutting | | T13N R05W S31 | |
| Vegetation management - Hand cutting | | T13N R05W S31 | |
| Vegetation management - Hand cutting | | T13N R05W S32 | |
| Vegetation management - Hand cutting | | T13N R05W S32 | |
| Vegetation management - Hand cutting | | T13N R05W S36 | |
| Vegetation management - Hand cutting | | T13N R06W S13 | |
| Vegetation management - Hand cutting | | T13N R06W S13 | |
| Vegetation management - Hand cutting | | T13N R06W S14 | |
| Vegetation management - Hand cutting | | T14N R03W S08 | |
| Vegetation management - Hand cutting | | T14N R03W S08 | |
| Vegetation management - Hand cutting | | T16N R03W S04 | |
| Vegetation management - Hand cutting | | T16N R04W S06 | |
| Vegetation management - Hand cutting | | T16N R04W S06 | |
| Vegetation management - Hand cutting | | T16N R04W S17 | |
| Vegetation management - Hand cutting | | T16N R04W S17 | |
| Vegetation management - Hand cutting | | T16N R04W S17 | |
| Vegetation management - Hand cutting | | T16N R05W S12 | |
| Vegetation management - Hand cutting | | T16N R05W S12 | |
| Vegetation management - Hand cutting | | T16N R05W S16 | |
| Vegetation management - Hand cutting | | T16N R06W S01 | |
| Vegetation management - Hand cutting | | T17N R03W S05 | |
| Vegetation management - Hand cutting | | T17N R03W S30 | |
| Vegetation management - Hand cutting | | T17N R03W S30 | |
| Vegetation management - Hand cutting | | T17N R04W S23 | |
| Vegetation management - Hand cutting | | T17N R04W S23 | |
| Vegetation management - Hand cutting | | T17N R05W S21 | |
| Vegetation management - Hand cutting | | T17N R05W S35 | |
| Vegetation management - Hand cutting | | T18N R04W S09 | |
| Vegetation management - Hand cutting | | T18N R05W S26 | |
| Pre-commercial thinning | | T12N R08W S03 | |
| Pre-commercial thinning | | T13N R07W S27 | |
| Pre-commercial thinning | | T13N R07W S27 | |
| Pre-commercial thinning | | T13N R09W S24 | |
| Pre-commercial thinning | | T16N R04W S09 | |
| Pre-commercial thinning | | T16N R04W S22 | |
| Pre-commercial thinning | | T16N R05W S11 | |
| Pre-commercial thinning | | T17N R03W S32 | |
| Pre-commercial thinning | | T17N R05W S32 | |
| Pre-commercial thinning | | T18N R05W S36 | |
| South Puget HCP Plan | | | |
| | | T15N R05E S08 | 2409220 |
| Timber Harvest - Clear cut | | T15N R05E S16 | 2408229 |
| Timber Harvest - Clear cut | | | 2407615 |
| Timber Harvest - Clear cut | | T15N R06E S07 | 2408209 |
| Timber Harvest - Clear cut | | T15N R06E S07 | 2408209 |
| Timber Harvest - Clear cut | | T15N R06E S07 | 2408209 |
| Timber Harvest - Clear cut | | T18N R03W S04 | 2510125 |
| Timber Harvest - Clear cut | | T18N R03W S15 | 2507850 |
| Timber Harvest - Clear cut | | T18N R03W S28 | 2507850 |
| Timber Harvest - Clear cut | 39 | T18N R03W S28 | 2507850 |

| South Puget HCP Pla | nnina | Unit | |
|---|-------|-----------------|---------|
| Timber Harvest - Clear cut | | T18N R04W S14 | 2509910 |
| Timber Harvest - Clear cut | | T18N R04W S14 | 2507620 |
| Timber Harvest - Clear cut | | T21N R02W S01 | 2407584 |
| Timber Harvest - Clear cut | | T21N R02W S02 | 2407584 |
| Timber Harvest - Clear cut | | T21N R02W S02 | 2407584 |
| Timber Harvest - Clear cut | | T21N R06E S36 | 2408283 |
| Timber Harvest - Clear cut | | T21N R06E S36 | 2408283 |
| Timber Harvest - Clear cut | | T21N R06E S36 | 2408283 |
| Timber Harvest - Clear cut | | T21N R06E S36 | 2408283 |
| Timber Harvest - Clear cut | | T21N R07E S16 | 2408040 |
| Timber Harvest - Clear cut | | T22N R02W S35 | 2407584 |
| Timber Harvest - Clear cut | | T22N R07E S36 | 2408314 |
| Timber Harvest - Clear cut | | T23N R01W S08 | 2407571 |
| Timber Harvest - Clear cut | | T23N R01W S08 | 2407571 |
| Timber Harvest - Clear cut | | T23N R01W S18 | 2409105 |
| Timber Harvest - Clear cut | | T23N R01W S18 | 2407571 |
| Timber Harvest - Clear cut | | T24N R02W S16 | 2408378 |
| Timber Harvest - Clear cut | | T24N R02W S16 | 2408378 |
| Timber Harvest - Late rotation thinning | | T18N R03W S14 | 2507850 |
| Timber Harvest - Late rotation thinning | | T18N R03W S21 | 2507850 |
| Timber Harvest - Late rotation thinning | | T18N R03W S33 | 2508769 |
| Timber Harvest - Late rotation thinning | | T18N R04W S25 | 2504964 |
| Timber Harvest - Late rotation thinning | | T18N R04W S25 | 2504964 |
| Timber Harvest - Late rotation thinning Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T21N R07E S20 | 2408168 |
| Timber Harvest - Late rotation thinning | | T22N R07E S36 | 2408314 |
| Timber Harvest - Late rotation thinning | | T22N R07E S36 | 2408314 |
| Timber Harvest - Late rotation thinning | | T22N R07E S36 | 2408314 |
| Timber Harvest - Late rotation thinning | | T22N R07E S36 | 2408314 |
| Timber Harvest - Phased patch regeneration cut | | T18N R04W S14 | 200000 |
| Timber Harvest - Selective product logging | | T18N R03W S09 | 2507433 |
| Timber Harvest - Selective product logging | | T21N R06E S36 | 2408283 |
| Timber Harvest - Selective product logging | | T27N R02E S16 | 2407359 |
| Timber Harvest - Selective product logging | | T27N R02E S16 | 2407359 |
| Timber Harvest - Selective product logging | | T27N R02E S16 | 2407359 |
| Timber Harvest - Selective product logging | | T27N R02E S16 | 2407359 |
| Timber Harvest - Selective product logging Timber Harvest - Shelterwood intermediate cut | | T23N R01W S16 | 2407339 |
| Timber Harvest - Shelterwood intermediate cut | | T23N R01W S16 | 2408266 |
| Timber Harvest - Shelterwood intermediate cut | | T23N R01W S16 | 2408266 |
| Timber Harvest - Smallwood thinning | | T18N R03W S31 | 2500036 |
| Timber Harvest - Smallwood triffiling Timber Harvest - Temporary retention removal cut | | T16N R01E S30 | 2507428 |
| Timber Harvest - Temporary retention removal cut | | T16N R01E S30 | 2507428 |
| Timber Harvest - Temporary retention removal cut | | T16N R01E S30 | 2507428 |
| Timber harvest - Temporary retention removal cut | 54 | 1 1011 KUIE 330 | 2007428 |

| South Puget HCP Pla | nnina | Unit | |
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| | | T21N R07E S16 | |
| Forest site preparation - Ground mechanical | | | |
| Forest regeneration - Hand planting | | T14N R06E S05 | |
| Forest regeneration - Hand planting | | T15N R05E S08 | |
| Forest regeneration - Hand planting | | T15N R05E S16 | |
| Forest regeneration - Hand planting | | T15N R05E S18 | |
| Forest regeneration - Hand planting | | T16N R01E S30 | |
| Forest regeneration - Hand planting | | T16N R01E S30 | |
| Forest regeneration - Hand planting | | T16N R01E S30 | |
| Forest regeneration - Hand planting | | T18N R03W S15 | |
| Forest regeneration - Hand planting | | T18N R03W S21 | |
| Forest regeneration - Hand planting | | T18N R03W S28 | |
| Forest regeneration - Hand planting | | T18N R03W S28 | |
| Forest regeneration - Hand planting | | T18N R03W S34 | |
| Forest regeneration - Hand planting | | T18N R04W S14 | |
| Forest regeneration - Hand planting | | T21N R06E S36 | |
| Forest regeneration - Hand planting | | T21N R06E S36 | |
| Forest regeneration - Hand planting | | T21N R06E S36 | |
| Forest regeneration - Hand planting | | T21N R06E S36 | |
| Forest regeneration - Hand planting | | T21N R07E S16 | |
| Forest regeneration - Hand planting | | T21N R07E S20 | |
| Forest regeneration - Hand planting | | T21N R07E S20 | |
| Forest regeneration - Hand planting | | T22N R07E S36 | |
| Forest regeneration - Hand planting | | T23N R06E S13 | |
| Vegetation management - Ground herbicide | | T18N R03W S10 | |
| Vegetation management - Ground herbicide | | T18N R03W S15 | |
| Vegetation management - Ground herbicide | | T21N R07E S20 | |
| Vegetation management - Hand cutting | | T18N R03W S24 | |
| Vegetation management - Hand cutting | | T21N R01W S24 | |
| Vegetation management - Hand cutting | | T24N R01W S03 | |
| Vegetation management - Hand cutting | | T24N R01W S10 | |
| Vegetation management - Hand cutting | | T24N R01W S10 | |
| Vegetation management - Hand cutting | | T24N R01W S10 | |
| Vegetation management - Hand cutting | | T24N R02W S15 | |
| Vegetation management - Hand cutting | | T24N R02W S15 | |
| Vegetation management - Hand cutting | | T26N R01E S16 | |
| Pest management - Shielding or fencing | | T18N R03W S34 | |
| Straits HCP Planni | ng Un | it | |
| Timber Harvest - Clear cut | 63 | T23N R04W S10 | 2408287 |
| Timber Harvest - Clear cut | 63 | T23N R04W S10 | 2408287 |
| Timber Harvest - Clear cut | | T23N R04W S21 | 2408362 |
| Timber Harvest - Clear cut | 43 | T23N R04W S28 | 2408362 |
| Timber Harvest - Clear cut | 14 | T23N R04W S35 | 2407380 |
| Timber Harvest - Clear cut | 74 | T23N R04W S35 | 2407380 |
| Timber Harvest - Clear cut | | T24N R03W S11 | 2408362 |
| Timber Harvest - Clear cut | 72 | T27N R02W S16 | 2602193 |
| Timber Harvest - Clear cut | 35 | T27N R02W S22 | 2602193 |
| Timber Harvest - Clear cut | 4 | T27N R02W S25 | 2603206 |
| Timber Harvest - Clear cut | 77 | T27N R02W S28 | 2602193 |
| Timber Harvest - Clear cut | 1 | T27N R02W S28 | 2602193 |
| Timber Harvest - Clear cut | 47 | T29N R01W S36 | 2604294 |

| Straits HCP Planning Unit | | | |
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| Timber Harvest - Clear cut | | T30N R06W S36 | 2602194 |
| Timber Harvest - Clear cut | | T30N R06W S36 | 2602194 |
| Timber Harvest - Clear cut | | T30N R09W S06 | 2601979 |
| Forest regeneration - Hand planting | | T23N R03W S09 | 2001373 |
| Forest regeneration - Hand planting | | T23N R04W S21 | |
| Forest regeneration - Hand planting | | T23N R04W S28 | |
| Forest regeneration - Hand planting | | T23N R04W S35 | |
| Forest regeneration - Hand planting | | T23N R04W S35 | |
| Forest regeneration - Hand planting | | T24N R03W S01 | |
| Forest regeneration - Hand planting | | T24N R03W S11 | |
| Forest regeneration - Hand planting | | T27N R01W S17 | |
| Forest regeneration - Hand planting | | T27N R01W S17 | |
| Forest regeneration - Hand planting | | T27N R02W S16 | |
| Forest regeneration - Hand planting | | T27N R02W S21 | |
| Forest regeneration - Hand planting | | T27N R02W S22 | |
| Forest regeneration - Hand planting | | T27N R02W S25 | |
| Forest regeneration - Hand planting | | T27N R02W S28 | |
| Forest regeneration - Hand planting | | T27N R02W S28 | |
| Forest regeneration - Hand planting | | T27N R02W S36 | |
| Forest regeneration - Hand planting | | T27N R02W S36 | |
| Forest regeneration - Hand planting | | T28N R02W S35 | |
| Forest regeneration - Hand planting | | T29N R01W S16 | |
| Forest regeneration - Hand planting | | T29N R01W S16 | |
| Forest regeneration - Hand planting | | T29N R05W S02 | |
| Forest regeneration - Hand planting | | T29N R05W S10 | |
| Forest regeneration - Hand planting | | T30N R02W S29 | |
| Forest regeneration - Hand planting | | T30N R02W S30 | |
| Forest regeneration - Hand planting | | T30N R02W S32 | |
| Forest regeneration - Hand planting | | T30N R05W S23 | |
| Forest regeneration - Hand planting | | T30N R05W S31 | |
| Forest regeneration - Hand planting | | T30N R06W S19 | |
| Forest regeneration - Hand planting | | T30N R06W S36 | |
| Forest regeneration - Hand planting | | T30N R06W S36 | |
| Forest regeneration - Hand planting | | T30N R08W S22 | |
| Forest regeneration - Hand planting | | T30N R08W S23 | |
| Forest regeneration - Hand planting | | T30N R09W S05 | |
| Forest regeneration - Hand planting | | T30N R09W S09 | |
| Forest regeneration - Hand planting | | T31N R09W S30 | |
| Forest regeneration - Hand planting | | T31N R09W S31 | |
| Forest regeneration - Hand planting | | T31N R09W S31 | |
| Yakima HCP Planni | | | |
| Timber Harvest - Late rotation thinning | | T13N R14E S33 | 2701923 |
| Timber Harvest - Late rotation thinning | | T13N R14E S34 | 2701923 |
| Timber Harvest - Late rotation thinning | | T13N R14E S34 | 2701923 |
| Timber Harvest - Salvage cut | | T13N R14E S26 | 2701923 |
| Timber Harvest - Salvage cut | | T13N R14E S27 | 2701923 |
| Timber Harvest - Salvage cut | | T13N R14E S33 | 2701923 |
| Timber Harvest - Salvage cut | | T13N R14E S34 | 2701923 |
| Timber Harvest - Uneven-aged management | | T17N R16E S30 | 2701633 |
| Timber Harvest - Uneven-aged management | | T18N R17E S32 | 2700364 |

| Yakima HCP Planning Unit | | | |
|---|-----|---------------|---------|
| Timber Harvest - Uneven-aged management | 560 | T19N R16E S16 | 2700364 |
| Timber Harvest - Uneven-aged management | 200 | T19N R21E S08 | 2701176 |
| Timber Harvest - Uneven-aged management | 3 | T20N R19E S12 | 2700882 |
| Timber Harvest - Uneven-aged management | 303 | T21N R20E S22 | 2701435 |
| Forest site preparation - Ground mechanical | 100 | T17N R16E S30 | |
| Forest site preparation - Ground mechanical | 20 | T19N R21E S08 | |
| Forest site preparation - Ground mechanical | 11 | T20N R19E S02 | |
| Forest regeneration - Hand planting | 199 | T13N R14E S27 | |
| Forest regeneration - Hand planting | 1 | T13N R14E S33 | |
| Forest regeneration - Hand planting | 0 | T13N R14E S33 | |
| Forest regeneration - Hand planting | 8 | T13N R14E S33 | |
| Forest regeneration - Hand planting | 3 | T13N R14E S34 | |
| Forest regeneration - Hand planting | 46 | T13N R14E S34 | |
| Forest regeneration - Natural regeneration | 250 | T17N R16E S30 | |
| Vegetation management - Hand cutting | 40 | T15N R15E S10 | 2702145 |