



WASHINGTON STATE DEPARTMENT OF
Natural Resources

**Washington State
Department of Natural Resources**

HABITAT CONSERVATION PLAN

ANNUAL REPORT

including

DATA & DOCUMENTATION

July 1, 1998 - June 30, 1999

Fiscal Year 1999

Annual Report to the Services:

- National Marine Fisheries Service**
- U.S. Fish and Wildlife Service**

For the period of July 1, 1998 – June 30, 1999

Disclaimer: Portions of this report were not available in their final electronic version. In some cases, missing sections were scanned. In other cases, modified draft versions, which look slightly different from the original print versions, were substituted. Although the formatting may look different from the print version of this report, in no case were the data changed in any way.

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- **Incidental Take Permit, 1/1997, issued by USFWS**
Northern spotted owl, marbled murrelet, gray wolf, grizzly bear, bald eagle, peregrine falcon, Aleutian Canada goose, Columbian white-tailed deer, Oregon Silverspot butterfly
- **ITP Amendment, 1/26/99, issued by USFWS**
Columbia River Basin segment of bull trout, west of Cascade crest
- **ITP Amendment, 4/9/99, issued by USFWS**
Coastal/Puget Sound segment of bull trout
- **Incidental Take Permit, 6/19/99, issued by NMFS**
Lower Columbia steelhead (LCR), LRC chinook, Puget Sound chinook, Hood Canal summer-run chum, CR chum, Ozette Lake sockeye
- **Correspondence from USFWS and NMFS, 1/22/98, granting coverage for sand/gravel**
mining activities, deemed to have minimal impact on unlisted aquatic and riparian species.
- **Correspondence from USFWS, 5/28/98, correcting ambiguity in section 16.3 of 1A and 11.C of**
ITP, relating to **permittees**.
- **Correspondence from DNR to USFWS, 12/15/97, with details of nest patch commitments,**
as per HCP implementation agreement; designated 66, 500 acre patches. Maps are attached.

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Westside including OESF
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Northwest Region

Olympic Region - including OESF
Olympic Experimental State Forest
South Puget Sound Region
Southwest Region

Introduction & Accomplishments



HABITAT CONSERVATION PLAN

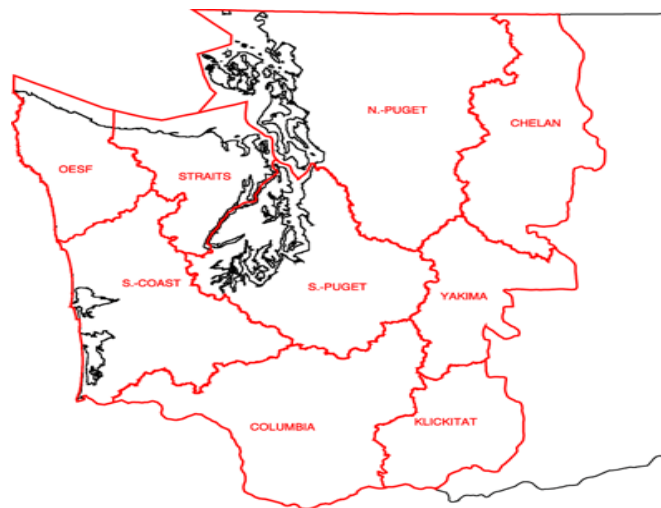
Annual Report to the Services including Data & Documentation

July 1, 1998 - June 30, 1999
Fiscal Year 1999

□ INTRODUCTION

The Habitat Conservation Plan (HCP) is a forest management plan that applies to approximately 1.6 million acres of forestlands managed by the Washington State Department of Natural Resources (DNR). The HCP applies to DNR forestlands that are within the range of the northern spotted owl. In general, the area includes all DNR-managed forests west of the Cascade crest and those on the eastern slopes of the Cascades, from the Canadian border to the Columbia River. A habitat conservation plan is an approach for compliance with the Endangered Species Act (ESA) that is allowed under federal statutes. A HCP enables a landowner to comply with ESA restrictions on forest management activities by providing areas that conserve habitat for listed species. The HCP enables DNR to harvest timber with responsible, habitat preserving and enhancing forestry techniques.

□ 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

[Cont. Introduction, Summary & FY1999 Accomplishments]

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 forest management practices focus primarily on habitat conservation and habitat enhancement strategies for species listed under the Endangered Species Act (ESA). DNR's habitat management plan identifies specific habitat conservation strategies and designates habitat areas for 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.

- **Multiple Species Protected:** Additionally, the conservation strategies developed for the HCP were designed to provide appropriate habitat protection for many other species that are not currently listed as endangered or protected under the ESA. DNR's HCP is one of a small number of habitat conservation plans with approved ESA multi-species protection. The Department intentionally approached forest management in this manner in order to avoid future forest management interruptions due to new ESA listings that could disrupt harvest 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 caves, talus slopes, wetlands, and nesting sites for many species. Future adaptive management changes will modify management practices to address species and habitat needs that are identified through research and monitoring. Therefore, the HCP is actually a dynamic, scientifically-based management planning tool.

□ SUMMARY & FY1999 HCP ACCOMPLISHMENTS: July 1, 1998 to June 30 1999

FY1999 Annual Report Summary: This report covers the transition period from pre-HCP forest management practices to forest practices that are compliant with HCP commitments for all timber sales and non-timber resource sales and agreements. Specifically, as of January 1999, all approved sales and agreements complied with HCP commitments. The HCP and the associated Implementation Agreement, approved in January 1997, allowed a two-year transition planning period for developing operational guidance for the conservation strategies of the HCP. In actuality, transition planning required more time than originally anticipated. Some planning activities identified in the HCP/IA have taken longer to achieve than the HCP and Implementation Agreement (IA) anticipated. The IA is between DNR and the federal agencies responsible for ESA compliance, United States Fish & Wildlife Service (USFWS) and the National Marine Fisheries Services (NMFS). At the November 1999 DNR/Services HCP Annual Meeting, the Services stated that DNR had made significant and appropriate progress with HCP implementation.

FY1999 DNR accomplishments: Some accomplishments for this reporting period are noted below.

- All timber sales sold after December 1998 complied with new HCP commitments.
- Total timber sales volume for FY1999 was approximately the same as for FY1998,
- More forest specialists, such as biologists, advised foresters in sales preparation, ensuring HCP compliance for harvest plans.

- Silviculture data accuracy was field sampled and evaluated as accurate, within an acceptable variance; data verification is a HCP requirement.
- The Forest Resource Inventory System (FRIS) project, critical for HCP data, accelerated.
- New forest management and timber harvest management procedures were developed.
- Management and staff were trained in new ecosystem forestry techniques.
- Marbled murrelet research, required for murrelet management strategies, moved forward.
- Staff were trained on new tree retention practices to mitigate clear-cut harvests.
- Specialists worked with an interagency advisory group to develop riparian strategies.
- Engineering Division completed the physical inventory for the road management program, necessary for developing an integrated road maintenance program.
- Engineering Division trained staff in new road yarding techniques.
- New timber sales included culvert upgrading and road improvements.
- Public use impacts improved by re-locating campsites and replacing sanitary facilities.
- Numerous non-timber management proposals were evaluated for potential HCP impacts or non-compliance, such as an Olympic pipeline plan and a new hydroelectric dam.
- Collaborative work with the Services (USFW and NMFS) on HCP reporting requirements and operational field applications of HCP strategies continued.

New ESA listings:

- Westside: Since the January 1997 signing of the HCP, several bull trout and salmonid species are now listed under the Endangered Species Act. Compliance with the riparian strategies identified in the HCP allows the Department to continue forest management planning without restrictions from new ESA listings. The following list identifies bull trout and salmonid species specifically covered under the Department's HCP as of the end of FY1999 (June 30, 1999).
 - o Columbia River basin segment of bull trout west of the Cascade crest added to the USFW Incidental Take Permit (ITP), 1/26/99.
 - o Coastal bull trout and Puget Sound segments of bull trout (effective upon any future listing) added to the USFW ITP, 4/9/99.
 - o ITP was issued by National Marine Fisheries Service on 6/17/99 for:
Lower Columbia R (LCR) steelhead, LCR chinook, Puget Sound chinook, Hood Canal summer-run (HCS) chum, CR chum and Ozette Lake sockeye.

SUMMARY: The HCP is a 70 to 100 year forest management plan. During the initial years of the HCP, establishing the basic foundation and planning tools for the long-range accomplishment of the habitat conservation strategies is proceeding appropriately. The forest management plan allows the Department to comply with the Endangered Species Act while providing revenue through forest management programs, such as timber harvesting. DNR forest management programs provide revenue for educational and institutional beneficiaries, as well as for the timber producing counties through DNR management of the Forest Board Trust lands.

The Department of Natural Resources is a leader in complex, large-ownership forest management. The HCP is a tool that facilitates implementation of the Department's many management responsibilities. Additionally, the plan allows for appropriate and flexible management changes over time. The Department is committed to the multiple goals of forest management as envisioned in the Habitat Conservation Plan.

Chapter 1 - MANAGEMENT PLANNING OBJECTIVES

The HCP was developed by the Department with the cooperation of federal agencies who are responsible for landowner compliance with the Endangered Species Act. The Endangered Species Act allows a landowner to enter a Habitat Conservation Plan agreement with designated federal agencies. The HCP and Implementation Agreement (IA) were approved by the Department and the federal agencies responsible for landowner compliance, specifically the U. S. Fish & Wildlife Service and the National Marine Fisheries Service. The HCP and IA were formally signed in January 1997, and as a result of the agreements, DNR was issued an Incidental Take Permit (ITP). The definition of “incidental take” includes actions that harass or harm identified wildlife species or cause harm to their habitat.

Under a habitat conservation plan, habitat mitigation is identified for the landowners’ forest management activities that potentially impact federally listed species’ habitat. The conservation strategies and related habitat mitigation that DNR developed allows the Department to continue management activities, including harvesting timber and permitting non-timber forest resources activities. The HCP permits the Department to cause incidental take of listed species in exchange for habitat preservation and enhancement in strategically identified locations. Therefore, the Department commits to certain long-range conservation strategies and long-range forest stand compositions that support species survival.

HCP Conservation Strategies:

Northern spotted owl habitat conservation strategy

An important long-range objective of the HCP is to maintain and create appropriate spotted owl Nesting, Roosting and Foraging (NRF) areas and Dispersal areas. At this early point in the 70-year HCP planning program, habitat development trends are not observable in the field, however, future monitoring efforts will confirm progress toward the 70-year projected habitat objectives. Changes in HCP acreage in the initial years can reflect updates in inventory systems and do not necessarily reflect habitat alterations.

Baseline Comparison of Acreage in Designated Areas

FY1999 NRF & Dispersal Areas Compared to 1997 Baseline							
HCP PLANNING UNITS: ACRES							
Designated Management Acres	Chelan	Columbia	Klickitat	North Puget	South Puget	Yakima	Total Acres
NRF: Jan 1997	5,647	54,157	20,096	109,409	2,648	13,567	205,524
NRF: June FY1999	5,827	53,195	20,872	111,141	2,648	13,567	207,250
Dispersal: Jan 1997	0	38,645	79,095	16,068	71,492	8,332	213,632
Dispersal: June FY1999	0	33,634	79,094	15,391	75,370	8,332	211,821

Source: DNR Geographic Information System 9/99

NOTE:

- o There are no designated NRF or Dispersal management areas in the OESF, Straits or South Coast HCP Planning Units.
- o Acreage measurements are rounded and may include approximations.
- o Information is subject to appropriate adjustments and adaptive management changes over time.
- o Changes in acreage during this two year period may be due to management activities, land exchanges, or updates and refinements in inventory data.

Silviculture Management Activities in Designated NRF and Dispersal Areas

A wide variety of forest habitat conservation and enhancement objectives are achieved through silviculture activities. Silviculture management activities include many forestry activities, ranging from timber thinning and harvest methods, to subsequent site preparation and reforestation work. Management activities in riparian areas are limited at this point in time, however, activities will increase over time on a phased-in basis. Details of the activities summarized below are presented in Appendix A.

Silviculture Management Activities in Designated NRF Areas, FY 1999				
Total NRF Acres	Harvest ¹	Site Preparation ²	Vegetation Management ³	Other
207,250 acres	930 acres	185 acres	1,844 acres	4,009 acres

Silviculture Management Activities in Designated Dispersal Areas, FY 1999				
Total Dispersal Acres	Harvest ¹	Site Preparation ²	Vegetation Management ³	Other
211,821 acres	2,100 ac	828 acres	2,364 acres	3,219 acres

¹ Harvest methods during this reporting period were partial cuts and clear-cuts with appropriate leave tree retention patterns and down woody debris.

² Site preparation during this period included appropriate herbicide application to control undesirable vegetation prior to planting.

³ Vegetation management includes herbicide application and hand cutting to promote young stand growth.

⁴ Other activities include hand planting and pre-commercial thinnings which promote future growth.

Silviculture: The HCP required verification of silviculture information in the DNR data system. This was accomplished during 1999. The data system appropriately reflected field conditions.

□ **Marbled murrelet habitat conservation strategy**

The FY99 HCP murrelet program is gathering habitat data and information in order to develop a long-term conservation strategy. Potential murrelet habitat areas are deferred from harvest until habitat relationship studies are completed.

□ **Riparian habitat conservation strategy**

Riparian area conservation strategies contribute to salmonid habitat maintenance and restoration, and conservation of other aquatic and riparian species. DNR has not harvested in riparian areas during FY1999, except for limited acres in the Olympic Experimental State Forest. The Department is in the latter phases of developing riparian management guidelines and procedures, which will implement the HCP objectives. These guidelines and procedures are expected to complete development in late FY2000, with full implementation in FY2001. Some riparian habitat enhancement activities, such as careful thinning and vegetation management, are anticipated for FY2000.

The Olympic Experimental State Forest (OESF) is managed under distinct HCP strategies. During FY1999, riparian management activities in the OESF totaled approximately 50 acres of strategic thinning in riparian areas in order to accelerate habitat creation.

□ **Multi-species habitat conservation strategy**

This habitat conservation strategy includes the objectives of the spotted owl, murrelet and riparian strategies, plus appropriate conservation management of unique habitats such as talus areas and caves in addition to conservation of specific species nesting sites or habitats areas.

Geographic objectives: The basic conservation strategies discussed above are implemented according to geographically appropriate objectives and applications, as identified below.

- Geographically distinct strategies apply in the Olympic Experimental State Forest.
- The westside planning units have multi-species protection for incidental take.
- Eastside incidental take coverage is limited to federally listed wildlife species. Riparian areas on the eastside do not have incidental take coverage for currently listed fish.

- **Future Forest Conditions:** The HCP is a forest management plan that preserves and creates appropriate habitats through silviculture techniques, over the course of a 70 - 100 year period. The Implementation Agreement provides for three decadal extensions of the initial 70 year agreement, thereby, creating a 100-year forest management plan. The HCP presents a significant challenge for forest managers, in that forest management activities today and tomorrow create the forests for the next generation.

FY1999 Forest Inventory: The HCP ANNUAL REPORT with DATA & DOCUMENTATION includes charts identifying age-class inventories for each region and for the Olympic Experimental State Forest. These charts also detail results of the sustainable harvest calculation that was adopted by the Board of Natural Resources in November 1996. The FY1998 HCP ANNUAL REPORT, discussing the sustainable harvest data information, cautioned that:

...It must be remembered that the numbers involved in this process are the results of a modeling process. It is expected that, with more detailed information, improved models, better understanding of limitations of the assumptions used in the modeling, and other data refinements these numbers will be modified in future sustainable harvest modeling efforts...
(FY1998 HCP ANNUAL REPORT, P2)

Adaptive Management: The HCP conservation strategies and future appropriate adaptive management changes are anticipated to provide a forest with certain preferred habitat conditions and structures. At this early point in the implementation of this plan, it is reasonable to assume that future scientific research will bring a greater understanding of both species requirements and silviculture techniques and possibilities. The bases of the HCP and the related sustainable harvest modeling reflects the best information that was available in the mid-1990s. However, in hindsight, we will likely discover that we had much to learn about forest habitat development and growth. Future forest conditions will reflect the conservation strategies, as they are adapted over time, subjected to site-specific variables.

Summation of Future Forest Conditions: During FY2001, the Department will update and revise the 1996 sustainable harvest calculation. The new information will more accurately reflect current forest inventory and habitat constraints and requirements. Therefore, the detailed statistics in the FY1999 Future Forest Conditions charts will change in subsequent Annual Reports. The conservation strategies of the HCP are commitments for DNR. Forest structures that result from the conservation strategies will only change as a result of mutual agreements, scientific improvements or through other appropriate mechanisms.

Chapter 2 - MANAGEMENT ACTIVITIES

Background: As discussed in the HCP, forest management activities are categorized as either reportable (significant activities that have the potential to alter habitat) or as non-reportable (activities determined not to have potential to alter habitat). The HCP Annual Report focuses on reportable significant activities, such as timber harvesting, and specific non-timber and road management activities. Significant activities are those that could result in incidental take due to habitat removal or alteration. The definition of “incidental take” includes actions that harass or harm identified wildlife species.

- **Non-incidental take activities:** Many DNR forest management activities do not reach the threshold level of incidental take and therefore, do not require HCP reporting documentation. Generally speaking, unless trees are removed in non-riparian areas, incidental take does not occur as a result of authorized forest management activities. Examples of these “non-incidental take” activities include planting seedlings, pruning brush along trails, gathering forest greens such as salal, thinning young saplings to the appropriate density, or maintaining established recreational sites. Activities in riparian areas are more restricted due to the area’s inherent vulnerability to habitat alteration, and are managed according to program-appropriate practices.
- **Incidental take activities:** Timber harvesting involves potential incidental take activity, therefore, HCP restrictions and reporting requirements apply. An example of an activity that does not remove trees but that could cause incidental take is loud equipment noises during breeding season, in close proximity to nesting listed species. This action can lead to incidental take, because breeding is disturbed. Therefore, the HCP restricts certain forest management activities, both harvesting and non-harvesting, in order to minimize both alteration of forest habitats and impacts on forest inhabitants.

Reportable HCP Activities: The HCP Annual Report reviews forest management reportable activities, focusing on three general areas:

- **Timber harvesting and silviculture management,**
- **Authorized non-timber forest management activities,** and
- **Road-related management activities.**

□ **Timber Harvest/Silviculture Management Activities:**

Under HCP forest management, timber harvesting is frequently performed in locations and with techniques that both produce harvest revenue and restore or enhance forest quality. These forest-management activities include various types of timber harvesting and forest vegetation enhancement:

- timber harvesting (including commercial thinning)
- site preparation
- regeneration
- vegetation management
- pre-commercial thinning/pruning
- fertilization

NOTE: The chart on the following page shows acres completed for each silviculture activity and the HCP planning unit in which the activity occurred. Appendix A presents a brief explanation of these activities and a detailed timber harvesting/silviculture report.

Timber Harvest/Silviculture Management Activities: Summary --- FY1999

Harvest & Silvicultural Activity	Acres of Management Activity by HCP Planning Unit									
	Chelan	Columbia	Klickitat	North Puget	OESF	South Coast	South Puget	Straits	Yakima	Total Acres
Timber Harvest	254	2,268	1,837	3,157	1,920	3,589	1,374	1,228	1,249	16,876
Site Preparation	114	150	492	117	58	244	NA	NA	208	1,383
Forest Regeneration	114	3,515	502	3,104	1,056	3,113	987	113	285	12,789
Vegetation Management	NA	5,058	1,578	19,941	9,622	4,512	6,630	6,041	637	54,019
TOTAL	482	10,991	4,409	26,319	12,656	11,458	8,991	7,382	2,379	85,067

Timber Harvest/Silviculture Management Activities: Details --- FY1999

Harvest & Silvicultural Activity	Acres of Management Activity by HCP Planning Unit									
	Chelan	Columbia	Klick-itat	North Puget	OESF	South Coast	South Puget	Straits	Yakima	Total Acres
Timber Harvest Type										
Clear cut		1,505	250	2,340	347	3,110	1,058	929	14	9,553
Late rotation thinning			51							51
Salvage cut					256	45				301
Selective product cut		265		244		49	220		399	1,177
Shelterwood intermediate						3	52	221		276
Shelterwood removal cut			167						121	288
Smallwood thinning		498	399	573	1,259	382				3,111
Two aged management					58		44	78		180
Uneven-aged mangmt	254		970						715	1,939
Forest site preparation										
Aerial herbicide		117	145	117		140				519
Broadcast burn		33								33
Ground herbicide	114		347						208	669
Pile and burn					58	104				162
Forest regeneration										
Hand planting	114	3,515	502	3,104	1,036	3,113	987	1,113	285	13,769
Natural regeneration					20					20
Vegetation management										
Aerial herbicide		2,254	1,121			530	27			3,932
Ground herbicide		27	457	1,279		502	222	754		3,241
Hand cutting		1,165		6,495	1,745	2,057	1,283	186		12,931
Other										
Pre-commercial thinning		1,612		8,924	7,862	1,423	904	2,275	637	23,637
Tree pruning - Hand				76	15					91
Forest fertilization										
Aerial fertilization				2,888			4,194	2,826		2,888
Ground fertilization				279						279

Source: Planning & Tracking System 9/99

NOTE:

Acreege discrepancies exist between data inventory systems due to data entry schedules. Silviculture includes many forestry activities, ranging from timber harvest methods and subsequent re-forestation efforts to habitat enhancement.

□ **Authorized Non-timber Forest Management Activities**

Numerous non-timber management activities occur on DNR-managed forest lands. The chart in Chapter 3 identifies all non-timber activities, including both actions that do not result in habitat impacts and those that potentially could alter forest habitat. According to the HCP and Implementation Agreement, the level of impacts to the forest habitat as a result of authorized non-timber activities, is expected to remain consistent over time. Amendment provisions for the HCP apply if impacts increase.

Some of these activities produce revenue for the trust beneficiaries and others benefit citizens and stakeholders, without loss of trust value. These activities include:

- Utility rights-of-way
- Specialized forest products
- Valuable material sales (rock/sand/gravel)
- Prospecting leases/mining contracts
- Oil and gas leases
- Grazing permits/leases
- Communications site leases
- Recreation site construction/reconstruction
- Rural leases

NOTE: The total number of FY1999 program-specific sites/leases/permits are presented in Chapter 3. The Chapter 3 chart compares current year's activity level with the baseline FY1996 year. Explanations of authorized non-timber management activities are presented below. Appendix B discusses potential habitat altering non-timber management activities.

Utility rights-of-way grant permission for utility companies to cross DNR-managed lands with cables, power lines, or pipelines. Large pipeline and power line expansion requests are subject to full environmental and legal review and approval. The trust beneficiaries receive compensation for the granted rights-of-way.

Specialized forest products refers to permits and leases sold for numerous forest-related vegetation activities such as gathering Christmas boughs, florists= materials (ferns and salal), and Christmas tree-growing leases. These activities generate revenue for the trusts and income for individual gatherers while causing no adverse impact to the forest. The Department selectively grants the permits and leases to prevent habitat degradation.

Valuable material sales (rock/sand/gravel) generate income for the trusts, often while providing road-building materials necessary for harvest-related road construction. Any actual excavation and extraction activities are subject to SEPA compliance, National Pollution Discharge Elimination System Permit (NPDES) requirements, Clean Water Act requirements, and Surface Mining Act requirements.

Prospecting leases/mining contracts preclude any actual mineral extraction operations. Prospecting leases allow investigation for locations of mineral deposits. The investigative actions do not alter habitat. A lease is converted to a mining contract if a permittee wants to commence mining operations. All plans for mining operations are granted only with SEPA review and full compliance with HCP commitments and all other mining statutes and restrictions. There are no active mining operations in HCP-managed areas.

Oil and gas leases allow the lessee to explore for underground deposits, usually by conducting underground “echo” testing. The exploratory phase does not alter habitat and is conducted in compliance with HCP commitments. Loud noises are restricted by location and seasonal breeding restrictions. Any active plan of operation completes SEPA review and complies with all other mining statutes. Oil and gas deposits under DNR forests can be accessed from adjacent private properties through new diagonal drilling processes.

Grazing permits are selectively allowed in HCP-managed forests. These activities are allowed if managed in compliance with HCP commitments and as a secondary forest use. Any areas not managed primarily for forestry will be removed from HCP oversight because the HCP is a forest management planning tool.

Communications sites are leased facilities located on higher elevation hilltops. Private and public entities attach equipment to tower structures. A site usually includes a tower and a small un-manned operations facility which houses transmission equipment. This program provides revenue for the trust beneficiaries and communications infrastructure sites for the public. No HCP habitat is altered.

Recreation site construction and reconstruction includes many public use locations and trails in DNR-managed forests. Under terms of the HCP, DNR will try to relocate camp sites currently in stream side locations to higher ground, when practical. Many public use locations are leased by other recreation agencies, under long-term leases. Development of new recreation sites seldom occur. Most HCP relevant recreation site management activities involve replacement of foot bridges in the trail system.

Rural leases are facilities within DNR-managed forests. As an example, the state Corrections Department leases land in several locations for prisons and camps. Any new lease will comply with HCP commitments.

□ **Road Management Activities and Operations**

Road related management practices are important potential habitat altering activities. Roads activities addressed in the HCP and reported on in this Annual HCP Report include:

- Planning
- Design
- Construction related activities
- Maintenance
- Road use

NOTE: Road planning, design, construction and maintenance are discussed on the following pages. The summary road chart lists total miles and construction-related actions by HCP planning unit. Road maintenance data base information chart, for FY1999 reporting period, is in Appendix C.

Road Planning

Most roads constructed (98%) on DNR-managed lands are built by timber sale purchasers for the purpose of harvesting timber sales. The Department plans, designs, supervises and monitors road building and usage. Road planning efforts during this reporting period focused on minimizing road construction impacts. Minimizing road construction included training on utilization of longer reach yarding systems to minimize ground impacts, including erosion. The Department actively interacts with scholars and consulting experts to ensure that up-to-date technology are incorporated into DNR's road management program. Additionally, the Engineering Division actively trains engineers and foresters in HCP-appropriate road planning techniques.

The following are examples of road planning activities during the FY1999 reporting period:

- Dr. Ed Aulerich, Forest Engineering Inc, developed a training curriculum for an initial training session on Alternative Yarding Systems. The curriculum was based on review of DNR timber sales. Training was presented to 40 engineers and foresters, with participants from all DNR regions. The three-day course covered planning procedures, available cable and ground based systems, feasibility analyses, and methods for evaluating alternatives. Additional sessions are planned.
- Dr. Peter Scheiss, University of Washington College of Forest Resources professor, completed a study on the Ahtanum landscape on the potential for alternative yarding systems. Factors studied included impacts on road densities, sediment production, economics and silvicultural options.
- University of Washington College of Forest Resources completed harvest planning on the Washougal landscape that included a long-span alternative plan.

Road Design

The majority of road design strategies targeted as appropriate for habitat conservation identified in the HCP are standard operating procedures for DNR engineers. Additional refinements in road design quality and construction practices implemented during this reporting period include:

Unstable slopes or fish bearing streams: Roads constructed over these now require design work to be completed or supervised by a licensed Professional Engineer. Some of these designs were previously developed by experienced engineering technicians.

Fish passage design: DNR contracted with US Geologic Services Water Resources Division in April 1999 to develop methods for estimating fish passage flows on eastside HCP-managed lands, as well as non-HCP eastside lands. This contract is the basis for both new culvert designs and fish passage inventory and assessment efforts scheduled to begin in FY1999.

DNR Roads Handbook: Development began in early 1999. During the FY1999 reporting period, draft procedures and standards for road designs on unstable slopes and culverts in live streams were developed. These procedures and standards, as well as others, implement HCP appropriate habitat conservation commitments. The May 1999 Natural Resources Engineering training session discussed HCP-relevant road planning efforts.

[Cont. CHAPTER 2 - Management Activities]

Sedimentation control: The Engineering training session in May included extensive presentation and information on design of control measures during road construction.

Construction Related Road Management Activities

CONSTRUCTION---RECONSTRUCTION----DECOMMISSIONING---CULVERT REPAIR										
HCP Planning Units										
Miles of Activities	Chelan	Columbia	Klickitat	North Puget	OESF	South Coast	South Puget	Straits	Yakima	Total Miles
Construction	0	31	5	27	5	59	8	10	8	153
Reconstruction	0	23	9	51	20	135	20	10	7	275
Decommissioning	0	17	1	87	1	22	26	1	1	156
Culverts -- fish barrier repairs	0	0	0	0	7	0	0	0	1	8

Construction generally consists of some or all of the following activities: clearing, grubbing, debris disposal, excavation, embankment, installation of drainage structures, manufacture and application of surfacing material and installation of sedimentation control measures.

Reconstruction generally consists of activities listed above for construction, but to a lesser degree. In particular, excavation and embankment quantities are minimal.

Decommissioning consists of activities required to put roads in the following state: no culverts or fills left in live stream crossings, drainage provided for in a manner that not requiring regular maintenance, goal of making the road impassable to all vehicles. In many cases, Forest Practices administrative procedures are pursued to designate these roads as abandoned

Culverts are water-crossing structures with earth over the top.

Future Road Reporting Activities

Phased planning and implementation of new HCP and Forest Practices Act road management activities are continuing. These will be reported in the HCP ANNUAL REPORT as data is gathered.

No road relocations were completed in FY99, however, it is anticipated that this will occur in FY2000. Road relocations include moving roads that were built next to streams decades ago. New road locations are in upland areas away from stream banks.

Road Maintenance & Abandonment Plans are in development, and will be reported in future Annual Reports.

Road Maintenance

Current HCP Planning Activities: Road maintenance of the Department's road system is done through various entities, including DNR region engineering staff and timber contract purchasers. Historically, each management activity is planned and completed according to the Department's Road Standards, with no centralized road maintenance activity data collection system. The initial phase of implementing the HCP road management commitment has seen the creation and development of what will become an extensive roads inventory and activities reporting system for the 1.6 million acres of the HCP-managed lands. The completed data system will facilitate streamlined, complete tracking and reporting of road maintenance activities in subsequent decades of the HCP. This is currently a time-consuming and complex endeavor in which the Engineering Division has made significant strides.

At this point, road maintenance activities cannot be statistically reported through a unified reporting system. All road maintenance is conducted by trained personnel operating under the Department's Road Standards and in compliance with all applicable Forest Practices road maintenance procedures.

Future HCP Planning Activities: Development of the Road Data Management System (RDMS) is proceeding as planned. This inventory collection program is currently in development, and therefore, is subject to anticipated additions and changes. Over time, the RDMS system will include the baseline road data information and can be updated as maintenance activities occur in the field. Subsequent reporting periods will include both additional data categories and will report maintenance activities conducted during the reporting period. The HCP Planning Unit Road Maintenance Data Base Chart, presented in Appendix C, represents information in the RDMS as of June 30, 1999.

Chapter 3 - EVALUATION of Potential Non-Timber Impacts vs.1996 Baseline Level

Non-Timber Resources Activity Comparison		
Activity	1996 Base Year	FY1999
Utility Rights-of-Way (1)	9 R/Ws over 3.3 miles	No significant R/W activity
Specialized Forest Products(2)	* 360 Western green leases/permits on 135,000 acres; * 14 Xmas green sales/leases/permits on 5,000 acres; * 8 Xmas tree leases on 409 acres; * 20 misc. medicinal, cone and transplant sales/permits.	* 331 Western green leases/permits on 135,000 acres; * 57 Xmas green sales/leases/permits on 10,000 acres; (2) * 8 Xmas tree leases on 409 acres; * 10 misc. medicinal, cone and transplant sales/permits.
Valuable Material Sales (3)	28 pits on 281 acres; 17 sales involving 222 acres; 25 direct sales on 50 acres.	24 pits on 360 acres; 24 sales involving 360 acres; 34 direct sales on 55.5 acres.
Prospecting Leases/Mining Contracts	4 leases on 360 acres; 15 contracts on 3,650 acres; None active.	3 leases on 249 acres; 14 contracts on 3,570 acres; None active.
Oil and Gas Leases (4)	43 leases on 13,196 acres; 1 active sale.	16 leases on 4,412 acres*; None active.
Grazing Permits/Leases (5)	Eastside B 25 on 105,980 ac. Westside--15 on 1,074 acres.	Eastside B 25 on 105,980 acres WestsideB11 on 640 acres.
Communications Site Lease	56 sites with 288 leases.	60 sites with 302 leases.
Recreational Sites	119 sites on 2,456 acres.	126 sites on 1,934 acres.
Rural Leases	90 leases on 5,792 acres	92 leases on 5,870 acres

NOTES:

- (1) Approximately 3,625 Right-of-Way (R/W) easements have been granted since statehood. This includes both utility and road R/W. Approximately 12% of the leases are for utility R/W, i.e. approximately 435 leases. Road R/W data is inventoried in the road management system.
- (2) The increase in Xmas greens is due to an increase in seasonal permits, primarily during November. These permits are granted only for sites where no significant impacts could occur to the habitat. Region management determines the number of permits granted to a site, therefore, the FY2000 level of impacts did not increase from the 1996 *de minimus* level.
- (3) Valuable materials sales (sand/gravel/rock) increased in total acreage but that includes acres not used for active extraction. Activity was re-distributed on the sites; the level of impacts did not increase.
- (4) Oil and gas leases can vary significantly in number from year to year due to market influences.
- (5) Grazing permits/leases are grazing activities which are a secondary use in forested woodlands. The HCP does not apply to agricultural management leases, nor to grazing activities that are the primary land use activity.
- (6) The change in number of recreational sites and decrease in acreage reflects data and inventory refinements

Chapter 4: IMPLEMENTATION MONITORING---FY1999

Monitoring is a critical aspect of any new management system. The Habitat Conservation Plan is a new system of conservation strategies implemented in a working forest. The conservation strategies are products of research and monitoring efforts, and are subject to adaptive management changes as a result of subsequent research and monitoring. Monitoring efforts include three programs:

- Implementation Monitoring --- answers the question, “did we implement the HCP”.
- Effectiveness Monitoring --- answers “do implemented activities produce results”.
- Validation Monitoring --- answers “do results effect species as expected”.

The Implementation Monitoring plan is required by the HCP, prior to implementation of the HCP. The plan was approved by the Services in the first HCP ANNUAL REPORT to the SERVICES for January 1997 to June 30, 1998. According to agreements with the Services, HCP commitments are effective on new forest management agreements and activities beginning January 1999, therefore, the Implementation Monitoring Plan was required prior to that date.

The DNR/HCP Implementation Monitoring Plan requires that specific timber and non-timber management activities that could significantly alter specific habitats are reviewed by management, are appropriately mitigated according to HCP habitat conservation strategies and are implemented correctly. The implementation monitoring program involves a sample review of planned and completed HCP management activities.

FY1999Results:

Only a small number of HCP activities were approved after January 1, 1999 with implementation completed before June 30, 1999. Therefore, very few forest management activities required HCP monitoring in this reporting period. The following review of timber and non-timber activities includes the results of implementation monitoring for FY1999

Summary of timber sales:

Planned sales: timber sales are habitat altering activities, therefore, implementation documentation of HCP compliance was required for sales after January 1, 1999.

- Planned sales during this period included HCP commitments, and
- each sale was reviewed and approved by region management for HCP compliance, and
- each was further evaluated by the Division Product Sales team before approved for sale.

Sold sales: All timber sales sold after January 1, 1999 complied with HCP agreements. Those sold from January through June 1999 were reviewed for HCP compliance by region management and by Forest Resources Division staff. Each active sale is monitored for compliance by a timber sale officer, who field reviews every active sale at least once a month.

Harvested sales: No post-harvest implementation compliance monitoring was conducted since no HCP-compliant timber sales completed harvest by June 30, 1999. The HCP/Services Annual HCP Report in future years will include implementation monitoring results of harvest activities completed in the reporting period.

[Cont. CHAPTER 4 – Implementation Monitoring]

Summary of Non-timber Resources: FY1999 activities did not increase the level of impacts that were identified by the Services in 1996 as the *de minimus*, or baseline, level:

- Floral greens' permits and acreage increased, however the level of impacts to the habitat did not increase since the density of permits to acreage was appropriate to each site and consistent with permitting on other region parcels,
- Valuable materials sales (sand/gravel/rock) increased in total acreage but that includes acres not used for active extraction. Activity was re-distributed on the sites; the level of impacts did not increase,
- No new plans of operations were activated for mineral extraction or oil/gas leasing,
- No new communication sites were developed,
- Recreational sites remained the same; the change in number and decrease in acreage reflects data and inventory refinements.

During FY2000, DNR will complete development of the non-timber implementation monitoring program and conduct staff training on documentation of HCP non-timber management activities. The Department anticipates an expanded compliance monitoring report as more forest management activities occur under the fully implemented HCP.



Chapter 5: MONITORING & RESEARCH

EFFECTIVENESS MONITORING and RESEARCH PLAN--- FY1999

Both the Effectiveness Monitoring Plan and the Research Plan are currently in development. Research plans and effectiveness monitoring plans are related to HCP implementation activities, as well as to other scientific efforts. As more forest management activities are implemented in compliance with HCP commitments, habitat research and effectiveness monitoring will likely broaden in scope. The Department is actively involved with other agencies, academics, and private interests in sharing scientific knowledge and expertise.

□ **Marbled Murrelet --- Update**

Identification of the habitat and recovery needs of this endangered seabird is difficult to research and monitor since it is a small seabird, with behavior patterns that complicate detection. Marbled murrelets nest in large tall trees, are active during early morning darkness and can fly at speeds of 30 miles per hour.

Long-term conservation strategies for the marbled murrelets are dependent on further research of forest habitat requirements. During the interim period, the Department is deferring timber harvest in areas judged as potential habitat. When surveying is completed, some areas will be released for harvest.

FY1999 Results:

Initial surveys indicate that murrelet habitat acreage on DNR-managed lands is higher than previously estimated. The range of this species is approximately 50 miles inland from saltwater. Coastline forests of the Pacific, Straits and Puget Sound are potential marbled murrelet habitat. Surveys are continuing.

□ **Spotted Owl --- Update**

The habitat criteria identified in the HCP for both Nesting, Roosting and Foraging (NRF) habitat and dispersal habitat are more easily identified than are those of the murrelet. Effectiveness monitoring and further scientific research may result in appropriate modification of current criteria.

FY1999 Results:

The Department is actively studying forest harvest techniques that can hasten the creation of the older forest qualities that spotted owls need. It is anticipated that various silvicultural techniques can decrease the amount of time necessary for lands to develop into NRF habitat.

□ **Riparian Conservation Strategy --- Update**

Historic logging operations in the Pacific Northwest caused extreme damage to streams and stream banks. Riparian areas, used as transportation corridors, were some of the first areas to be logged. Several salmon species originally inhabiting these areas are extinct or on the endangered species list.

DNR's HCP is one of a few in the country that includes multi-species coverage. DNR-managed forest lands west of the Cascade crest have ITP coverage under the HCP for forest management activities in riparian areas. Consistent with HCP agreements, DNR and the Services are currently cooperating on development of riparian guidelines.

FY1999 Results:

A riparian committee composed of interagency specialists, academic and tribal representatives are working to develop objectives, guidelines and goals to provide guidance for enhancement and restoration of riparian zones. The specific guidelines for riparian management procedures are anticipated for completion during FY2001. Timber harvesting in riparian areas is deferred until the guidelines are developed and approved.

VALIDATION MONITORING --- FY1999

Update:

Validation monitoring evaluates cause-and-effect relationships between habitat conditions resulting from implementation of the conservation strategies and the species these strategies are intended to benefit. Planning for validation monitoring is proceeding, and will focus on the Olympic Experimental State Forest planning unit. Planning includes documenting spotted owl and marbled murrelet use of areas managed to provide nesting habitat, and salmonid use of streams crossing DNR-managed lands. Results of validation monitoring are anticipated at least several years into the future.

Chapter 6: LAND BASE CHANGES ---Transactions

The land base covered by the HCP recorded at the time of signature of the agreement is dynamic. Lands covered by the HCP and subject to the incidental take permit can be added or deleted from the HCP for a variety of reasons and by several mechanisms. The mechanisms include land sales, exchanges, transfers and purchases.

The most common reasons for lands to be removed from the land base are:

- Repositioning of trust assets through sale, transfer or exchange,
- Change of use, such as forest to agriculture or commercial,
- Removal from the HCP land base due to adjustments caused by reconciliation of actual uses versus those incorrectly documented at the time the HCP was signed. Removal of agricultural lands from the HCP forest land base is a prime example. Removals of this type will decrease over time.

The data presented in Appendix D enumerates the number of acres, by HCP planning units, that were acquired or disposed of due to transactions during this reporting period.

The data presented in Appendix D also identifies the total cumulative acreage changes due to transactions that have occurred in each HCP planning unit since January 1, 1999.

The data presented in Appendix D also includes a series of maps of each HCP planning unit, illustrating the lands “in-coming” and “out-going” to the HCP land base for FY1999. Details of each transaction are included in the appendix.



Historical Agreements

Attachment 1: **HISTORICAL SUMMARY of REPORTING AGREEMENTS,
FY1999 and 1997-1998**

OVERVIEW:

The Implementation Agreement (IA) for the Washington State Department of Natural Resources' (DNR) Habitat Conservation Plan (HCP) was formally entered into by DNR and the federal services involved the U. S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) at a signing ceremony held on January 30, 1997. The IA describes various reports required from DNR to the federal services, including an annual summary report of management activities conducted, an annual report on land transaction activities, an evaluation of non-timber activities compared to the level of those activities conducted in 1996 (recognized in the HCP as a *de minimis* level), and a schedule for these reports. The IA recognizes that the schedule for these reports can be modified with agreement of the three parties (DNR, USFWS and NMFS).

REPORTING AGREEMENTS, as of FY1998

Combined Report: Negotiations between the Department and the Services during the July 1997 to June 1998 period resulted in agreements regarding the format and timing of reporting requirements identified in the Implementation Agreement. The result of those negotiations is the combined Annual Report to the Services, which is based on the Department's fiscal year, July 1 to June 30. The revised schedule differs from that described in the IA in that:

- o all the required reports will be combined into a single Annual Report,
- o the reporting period for each Annual Report will coincide with DNR's fiscal year,
- o the combined Annual Report will be provided to the federal services each October, or earlier.

Reporting Schedule: It took a substantial period of time for DNR and the Services to mutually agree on format and contents for the first Annual HCP Report to the Services, for the period January 1997 through June 1998. The first approved Annual HCP Report was completed well after the anticipated reporting date of October 1998. DNR and the Services agreed that reporting format and content changes in future HCP Annual Reports will likely prevent completion by October, following the end of DNR's fiscal year.

REPORTING AGREEMENTS, as of FY1999 Annual Report

The HCP Annual Report to the Services for FY1999 builds on reporting agreements regarding format and contents that were reached during the initial reporting period. During calendar year 1999, the Department and the Services continued to collaborate on data presentations, focusing on developing appropriate and efficient reporting systems. Information needs, presentation format and chapter headings for the Annual Report were agreed upon during regularly scheduled meetings.

Report Format: During the August 1999 meeting, the Services requested and DNR agreed that:

- Data presentation is both in enumerations, as in FY1998 Report, and in summary charts, and
- transactions maps showing acres moved out of HCP and acres acquired in HCP are included,

□ future Reports will not reprint the Implementation Monitoring plan. The Annual Report will present monitoring results and changes to the Implementation Monitoring plan. The Implementation Monitoring Plan, in the FY1998 Annual Report, was approved by the Services.

[Cont. Attachment 1: HISTORICAL SUMMARY of REPORTING AGREEMENTS]

Report Date: In October 1999, both DNR and the Services agreed the October target completion date for the Annual Report was not feasible, due to fiscal year-end data gathering and reporting schedules for DNR systems. It was agreed that the Annual Report will require considerable time for documentation, completion and mutual approval during the start-up years of the HCP.

Annual Report Schedule Change: Developing and internally approving the first HCP Annual Report took a significant period of time for several reasons. These reasons include staff vacations, fire season, data reporting schedules in the regions and divisions, and the time for developing narrative for a Department-wide publication. Completing the initial report took over a year even though the HCP compliance requirements applied to only half the fiscal year, beginning January 1999, and the report was quite simple. A refinement of the reporting process was suggested and agreed to as a solution to both the Services' need to have the year-end data in a timely manner, and the Department's inherent difficulties completing and producing a significant publication. The HCP ANNUAL REPORT explains to DNR stakeholders, and preserves for the record, the complexities of each fiscal year's HCP activities.

New Format for FY1999: The HCP Annual Report for FY1999 reflects review by the Services of the draft FY1999 data and summary charts. The completed HCP ANNUAL REPORT with DATA & DOCUMENTATION volume contains narratives, summary charts and the supporting statistical enumerations of reportable data identified in the HCP and the Implementation Agreement. This document reflects negotiated reporting format, content and chapter headings.

Annual Report Format and Schedules: The basic data reporting requirements and summary charts that the Services need can be produced, under normal circumstances, for the Annual Meeting that occurs in late November or early December. At this meeting the parties review all of the year's activities. Subsequently, DNR can develop the narrative presentations that explain the HCP data for stakeholders, including the Legislature. The Department's intent is to produce a narrative summary version for general publication, and an expanded complete report that includes data, documentation, summaries and narratives. The parties agreed at the Annual Meeting on November 17, 1999, that this approach is a practical solution for resolving inherent reporting time constraints and complexities.

Summarizing, the Services receive the fiscal year data summary charts and required statistical enumerations at the Annual Meeting. Later, the Department adds both the narrative explaining the data for the lay audience, and develops a summary report of the year's HCP activities and accomplishments. The completed HCP ANNUAL REPORT with DATA & DOCUMENTATION volume contains all HCP reporting materials for the fiscal year. A summary version of the HCP ANNUAL REPORT contains summary charts and narrative developed for a lay audience. This approach is subject to change.

Specifically, the HCP ANNUAL REPORT with DATA & DOCUMENTATION for FY1999 includes:

Chapter 1--- Information on DNR's management planning objectives under the HCP,
Chapter 2--- Identification of timber, non-timber, and road-related management activities,
Chapter 3--- Evaluation of non-timber activities compared to the 1996 baseline,
Chapter 4--- Updates on HCP implementation and compliance monitoring,

(Cont. Attachment 1: HISTORICAL SUMMARY of REPORTING AGREEMENTS)

Chapter 5 --- Progress reports on development and implementation of effectiveness and validation monitoring, and the research plan,
Chapter 6 --- Land base: information regarding changes/corrections to the HCP land base.

Attachment I--- History of Reporting Agreements
Attachment II --- Notable Documents for the Reporting Period

APPENDIX A: Silviculture/harvest activities data
APPENDIX B: Significant non-timber activities data
APPENDIX C: Road management activities data
APPENDIX D: Land data, Transactions data
APPENDIX E: FY1999 and Decadal forest structure/age class projections

Future Forest Conditions: The HCP ANNUAL REPORT with DATA & DOCUMENTATION for FY1999 includes charts identifying age-class inventory for each region and for the Olympic Experimental State Forest. These charts also detail the results of the sustainable harvest calculation that was adopted by the Board of Natural Resources in November 1996. The ANNUAL REPORT for FY1998, discussing the sustainable harvest output, cautioned that:

...It must be remembered that the numbers involved in this process are the results of a modeling process. It is expected that, with more detailed information, improved models, better understanding of limitations of the assumptions used in the modeling, and other data refinements these numbers will be modified in future sustainable harvest modeling efforts.. (FY1998 HCP ANNUAL REPORT, P 2).

During FY2001, the Department will update and revise the 1996 sustainable harvest calculation. The new information will more accurately reflect current forest inventory and habitat constraints and requirements. Therefore, the detailed statistics in the FY1999 Future Forest Conditions charts will change in subsequent Annual Reports. The conservation strategies of the HCP are commitments for DNR. The forest structures that result from the conservation strategies will only change as a result of mutual agreements, scientific improvements or through other appropriate mechanisms.

Adaptive Management Activities: This chapter will be added to the ANNUAL REPORT, as agreed upon with the Services at the August 1999 quarterly meeting. There are no adaptive management activities identified for FY1999. Adaptive management activities are anticipated for the FY2000 reporting period.

Written agreements and significant documents: Documents developed between the parties, and other documents significant to the HCP developed during the reporting period will be attached to the HCP ANNUAL REPORT with DATA & DOCUMENTATION for FY1999. The complete HCP ANNUAL REPORT with DATA & DOCUMENTATION for FY1999 will be filed with the Services, and available for review in Olympia and each Region office.

Disclaimer: Portions of this report were not available in their final electronic version. In some cases, missing sections were scanned. In other cases, modified draft versions, which look slightly different from the original print versions, were substituted. Although the formatting may look different from the print version of this report, in no case were the data changed in any way.

Attachment 2: Notable Documents

Notable Documents for FY1999 & January 1997 -- June 30, 1998 reporting period.

- **Incidental Take Permit, 1/1997, issued by USFWS**
Northern spotted owl, marbled murrelet, gray wolf, grizzly bear, bald eagle, peregrine falcon, Aleutian Canada goose, Columbian white-tailed deer, Oregon Silverspot butterfly
- **ITP Amendment, 1/26/99, issued by USFWS**
Columbia River Basin segment of bull trout, west of Cascade crest
- **ITP Amendment, 4/9/99, issued by USFWS**
Coastal/Puget Sound segment of bull trout
- **Incidental Take Permit, 6/19/99, issued by NMFS**
Lower Columbia steelhead (LCR), LRC chinook, Puget Sound chinook, Hood Canal summer-run chum, CR chum, Ozette Lake sockeye
- **Correspondence from USFWS and NMFS, 1/22/98, granting coverage for sand/gravel** mining activities, deemed to have minimal impact on unlisted aquatic and riparian species.
- **Correspondence from USFWS, 5/28/98**, correcting ambiguity in section 16.3 of IA and 11.C of ITP, relating to **permites**.
- **Correspondence from DNR to USFWS, 12/15/97**, with details of **nest patch commitments**, as per HCP implementation agreement; designated 66, 500 acre patches. Mapping is attached.

**Department of Natural Resources
Incidental Take Permit and Amendments issued
under the Habitat Conservation Plan
Compiled: April 6, 2000**

1. January 1997: USFWS issued the original Incidental Take Permit (ITP) for forest lands within the range of the northern spotted owl in the state of Washington.

- Northern spotted owl
- Marbled murrelet
- Gray wolf
- Grizzly bear
- Bald eagle
- Peregrine falcon
- Aleutian Canada goose
- Columbian white-tailed deer
- Oregon silverspot butterfly

2. January 1999: USFWS added Columbia River Basin segment of bull trout west of the Cascade crest.

3. April 1999: USFWS added Coastal/Puget Sound distinct population segment of bull trout.

4. June 1999: National Marine Fisheries Service issued incidental take permit for the following segments of salmonid stocks:

- Lower Columbia steelhead (LCR),
- LCR chinook,
- Puget Sound (PS) chinook,
- Hood Canal summer-run (HCS) chum,
- Columbia River (CR) chum,
- Ozette Lake (OL) sockeye.



FEDERAL FISH AND WILDLIFE PERMIT

1. PERMITTEE

WASHINGTON DEPARTMENT OF NATURAL RESOURCES
1111 WASHINGTON STREET, SE
P.O. BOX 47000
OLYMPIA, WA 98504-7000

2. AUTHORITY-STATUTES
16 USC 1539(a)

REGULATIONS (Attached)
50 CFR 17.22(b)(3)
50 CFR 17.32(b)(3)
50 CFR PART 13

3. NUMBER
PRT-812521

4. RENEWABLE 5. MAY COPY
 YES YES
 NO NO

6. EFFECTIVE 7. EXPIRES
SEE BLOCK 11,
ITEM F, BELOW

8. NAME AND TITLE OF PRINCIPAL OFFICER (If #1 is a business)

KALEEN COTTINGHAM,
DEPARTMENT SUPERVISOR

9. TYPE OF PERMIT

INCIDENTAL TAKE PERMIT-812521

10. LOCATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED

DEPARTMENT OF NATURAL RESOURCES-MANAGED FOREST LANDS WITHIN THE RANGE OF THE
NORTHERN SPOTTED OWL IN THE STATE OF WASHINGTON.

11. CONDITIONS AND AUTHORIZATIONS:

A. GENERAL CONDITIONS SET OUT IN SUBPART D OF 50 CFR 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTINUED VALIDITY, OR RENEWAL, OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIMELY COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUIRED INFORMATION AND REPORTS.

B. THE VALIDITY OF THIS PERMIT IS ALSO CONDITIONED UPON STRICT OBSERVANCE OF ALL APPLICABLE FOREIGN, STATE, LOCAL OR OTHER FEDERAL LAW.

C. VALID FOR USE BY PERMITTEE NAMED ABOVE. AND ITS AUTHORIZED OFFICERS, EMPLOYEES, CONTRACTORS, AND AGENTS.

SEE ATTACHED

ADDITIONAL CONDITIONS AND AUTHORIZATIONS ON REVERSE ALSO APPLY

12. REPORTING REQUIREMENTS

SIGNED BY

TITLE

REGIONAL DIRECTOR

DATE

01/30/97

ORIGINAL

**U.S. FISH AND WILDLIFE SERVICE, PORTLAND, OREGON
ADDITIONAL PERMIT CONDITIONS FOR PRT-812521**

- D. This permit is subject to the provisions of Title 50 *Code of Federal Regulations* Parts 10, 13, and 17.
- E. The authorization granted by this permit is subject to full and complete compliance with, and implementation of, the Habitat Conservation Plan (HCP), and Implementation Agreement (IA), executed by the Permittee, the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. This permit, and the HCP and IA, are binding upon the Permittee, and any authorized officer, employee, contractor, or agent conducting permitted activities.
- F. The term of this permit shall be from January 30, 1997 to January 30, 2067, except the permit term for grizzly bears (*Ursus arctos horribilis*) shall be from January 30, 1997 to January 30, 2002. The permittee may apply for a permit amendment to extend the permit term for grizzly bears until January 30, 2067.
- G. Permittee, and its authorized officers, employees, contractors, and agents are authorized to incidentally take gray wolves (*Canis lupus*), grizzly bears, northern spotted owls (*Strix occidentalis caurina*), bald eagles (*Haliaeetus leucocephalus*), American peregrine falcons (*Falco peregrinus*), marbled murrelets (*Brachyramphus marmoratus marmoratus*), Columbian white-tailed deer (*Odocoileus virginianus leucurus*), Aleutian Canada geese (*Branta canadensis leucopareia*), and Oregon silverspot butterflies (*Speyeria zerene hippolyta*) in the course of otherwise lawful activities in accordance with the terms and conditions of the HCP, IA, the permit, and the Incidental Take Statement of the Biological Opinion (attached hereto).
- H. Permittee shall notify the Service of new locations of permit species that are discovered within the area covered by the HCP, including, but not limited to, locations of occupied murrelet habitat; owl site centers; wolves; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; and Oregon silverspot butterflies.
- I. Upon locating any dead, injured, or sick individuals of any listed species covered by this permit, Permittee shall, within 3 working days, notify the U.S. Fish and Wildlife Service's Western Washington Office, Olympia, Washington (360-753-9440). Instructions for proper handling and disposition of such specimens will be issued at that time. Care must be taken in handling sick or injured specimens to ensure effective treatment and care, and in the handling of dead specimens to preserve biological material in the best possible state.
- J. Permittee shall refer to permit number PRT-812521 in all correspondence and reports concerning permit activities. Any questions you may have about this permit should be



IN REPLY REFER TO:

United States Department of the Interior

FISH AND WILDLIFE SERVICE

911 NE 11th Avenue
Portland, Oregon 97232-4181

JAN 26 1999

Jennifer Belcher
Washington Department of Natural Resources
1111 Washington Street, SE
P.O. Box 47000
Olympia, WA 98504-7000

Dear Ms. Belcher:

In response to your May 20, 1998, letter requesting that the bull trout be added to your Endangered Species Act incidental take permit PRT-812521, the Fish and Wildlife Service has determined that this amendment is appropriate.

By notice of this letter, paragraph 11.G of permit PRT-812521 is amended to read:

The permittee, its authorized officers, employees, contractors, agents, lessees, licensees, permittees, right-of-way grantees, and purchasers are authorized to incidentally take the gray wolf (*Canis lupus*), grizzly bear (*Ursus arctos horribilis*), northern spotted owl (*Strix occidentalis caurina*), bald eagle (*Haliaeetus leucocephalus*), American peregrine falcon (*Falco peregrinus*), marbled murrelet (*Brachyramphus marmoratus marmoratus*), Columbian white-tailed deer (*Odocoileus virginianus leucurus*), Aleutian Canada goose (*Branta canadensis leucopareia*), Oregon silverspot butterfly (*Speyeria zerens hippolyta*), the Columbia River Basin distinct population segment of the bull trout (*Salvelinus confluentus*) west of the Cascade crest, in the course of otherwise lawful activities in accordance with the terms and conditions of the Habitat Conservation Plan, Implementing Agreement, the permit, and the Incidental Take Statement of the Biological Opinion (attached).

Paragraph 11.H is also amended to read:

The permittee shall notify the Service of new locations of permit species that are discovered within the area covered by the Habitat Conservation Plan, including, but not limited to, locations of occupied murrelet habitat; owl site centers; wolves; nests, communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; Columbian white-tailed deer; Aleutian Canada geese; Oregon silverspot butterflies and additional stream reaches found to contain the bull trout.

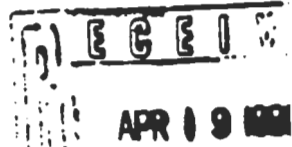


IN REPLY REFER TO:

United States Department of the Interior

FISH AND WILDLIFE SERVICE

911 NE. 11th Avenue
Portland, Oregon 97232-4181



OFFICE OF THE COMMISSIONER
OF PUBLIC LANDS

APR 9 1999

Jennifer Belcher
Washington Department of Natural Resources
1111 Washington Street, SE
P.O. Box 47000
Olympia, WA 98504-7000

4-19-99
FYI to: Jennife
Charli
Paul
Mic

Dear Ms. Belcher: *Jennifer*

In response to your March 17, 1999, letter requesting that the Coastal/Puget Sound distinct population segment of the bull trout be added to your Endangered Species Act incidental take permit PRT-812521, the Fish and Wildlife Service has determined that this amendment is appropriate.

By notice of this letter, paragraph 11.G of permit PRT-812521 is amended to read:

The permittee, its authorized officers, employees, contractors, agents, lessees, licensees, permittees, right-of-way grantees, and purchasers are authorized to incidentally take the gray wolf (*Canis lupus*), grizzly bear (*Ursus arctos horribilis*), northern spotted owl (*Strix occidentalis caurina*), bald eagle (*Haliaeetus leucocephalus*), American peregrine falcon (*Falco peregrinus*), marbled murrelet (*Brachyramphus marmoratus marmoratus*), Columbian white-tailed deer (*Odocoileus virginianus leucurus*), Aleutian Canada goose (*Branta canadensis leucopareia*), Oregon silverspot butterfly (*Speyeria zerene hippolyta*), the Columbia River Basin distinct population segment of the bull trout (*Salvelinus confluentus*) west of the Cascade crest, and the Coastal/Puget Sound distinct population segment of the bull trout (effective upon any future listing) in the course of otherwise lawful activities in accordance with the terms and conditions of the Habitat Conservation Plan, Implementing Agreement, the permit, and the Incidental Take Statement of the Biological Opinion (attached).

Paragraph 11.H is also amended to read:

The permittee shall notify the Service of new locations of permit species that are discovered within the area covered by the Habitat Conservation Plan, including, but not limited to, locations of occupied murrelet habitat; owl site centers; wolves; nests; communal roosts, or feeding concentrations of bald eagles; peregrine falcon nests; ...



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
HABITAT PROGRAM/OLYMPIA FIELD OFFICE
510 Desmond Drive SE/Suite 103
LACEY, WASHINGTON 98503

June 16, 1999

REG

JUN 17 1999

OFFICE OF THE COMMISSIONER
PUBLIC LANDS

The Honorable Jennifer Belcher
Commissioner of Public Lands
Washington Department of Natural Resources
1111 Washington Street SE
Olympia, Washington 98504-7000

Dear Commissioner Belcher:

Enclosed is Permit Number 1168 issued to the Washington Department of Natural Resources (WDNR) under the authority of Section 10 of the Endangered Species Act (ESA). Permit 1168 authorizes incidental take of threatened Lower Columbia River (LCR) steelhead, LCR chinook, Puget Sound (PS) chinook, Hood Canal summer-run (HCS) chum, Columbia River (CR) chum, and Ozette Lake (OL) sockeye associated with timber and non-timber management activities in western Washington state, as per the provisions of the WDNR Habitat Conservation Plan (HCP) and unlisted species provisions of the Implementation Agreement (IA).

The National Marine Fisheries Service (NMFS) has determined that if WDNR management activities are conducted as described in the HCP, and in compliance with the terms and conditions of IA and the permit, the expected take will be appropriately minimized and mitigated for and will not appreciably reduce the likelihood of survival or recovery of the Evolutionarily Significant Units (ESUs) of the LCR steelhead, LCR chinook, PS chinook, HCS chum, CR chum, and OL sockeye.

The authorization granted by this permit is subject to full and complete compliance with, and implementation of, the WDNR HCP and IA. The term of this permit is for the duration of the HCP and expires January 30, 2067. WDNR may apply for up to three extensions of 10 years each for both the HCP and this permit.

As per the terms of the unlisted species provisions of the IA, should any additional anadromous salmonid species that were unlisted at the time of finalization of the HCP become listed under the ESA, you may request an addition of the new species to this permit. At that time, NMFS would make a decision on issuance of the permit amendment without requiring additional mitigation, unless, within a specified sixty day period, NMFS demonstrates that extraordinary circumstances exist.



United States Department of the Interior
Fish and Wildlife Service



United States Department of Commerce
National Marine Fisheries Service

Fish and Wildlife Service
510 Desmond Drive S.E., Suite 102
Lacey, Washington 98503

National Marine Fisheries Service
510 Desmond Drive S.E., Suite 103
Lacey, Washington 98503

January 22, 1998

The Honorable Jennifer Belcher
Commissioner of Public Lands
Washington Department of Natural Resources
1111 Washington Street SE
Olympia, Washington 98504-7000

1-30-98
To: ~~Jennifer~~
Charlie
Chuck T.
(Not assigned for reply)

Dear Commissioner Belcher:

At the time the Department of Natural Resources Habitat Conservation Plan (DNR HCP) was signed, the U.S. Fish and Wildlife Service and the National Marine Fisheries Service (Services) had limited information concerning sand and gravel mining and other mining activities on DNR-managed lands. As a result, the Services could not conclude that these mining activities within riparian areas, including the 100-year flood plain and the DNR HCP buffers, were sufficiently minimized and mitigated to allow issuance of a long-term incidental take permit, when or if anadromous salmonids or other aquatic and riparian species were listed under the Federal Endangered Species Act.

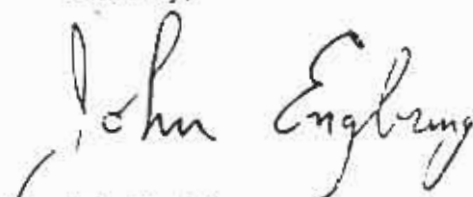
Based on the limited information on sand and gravel extraction activities (valuable material sales) available at the time the HCP was signed, the Services were able to provide DNR coverage for then unlisted anadromous salmonids and other aquatic and riparian species only until January 30, 1998. However, the Services agreed to extend coverage for these activities at the 1996 levels for the length of the 70-to-100-year term of the HCP, if DNR provided additional information concerning the location and intensity of such activities and the extent of their impacts to these species.

Since the signing of the HCP, the Services have received additional information from DNR concerning sand and gravel mining and other mining contracts. Based on information provided by Bruce Monell of your staff at a meeting on September 18, 1997, the DNR has a total of 360 sand and gravel pits covering 768 acres for which DNR is seeking coverage (a few additional pits in urban areas are not covered by the HCP, and there are sand and gravel extraction activities on DNR's aquatic lands which are not covered by the HCP). Most of the 360 pits (332) are used for silvicultural, non-commercial purposes, while the remainder (28) are commercial. None of the non-commercial pits are within an HCP riparian management zone (RMZ), and all are "percolation pits," i.e., there is no outlet from the pit. Of the commercial pits, six require a National Pollutant Discharge Elimination System Permit as point sources. The remaining commercial pits are percolation pits. In a table provided by DNR to the Services on November 26, 1997 (attached), all but one of the

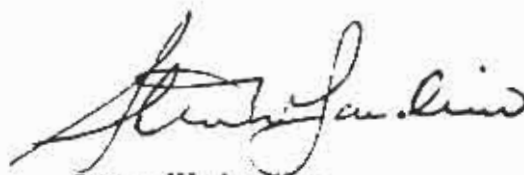
commercial pits are located outside of HCP RMZs (the Butler Pit in Skagit County has 0.75 acres within the HCP RMZ). Also, DNR has assured us that there were no active open-pit metallic or open-pit industrial mineral mines or underground mines on DNR-managed land during 1996.

Based on our review of this additional information, the Services conclude that sand and gravel mining activities and other mineral contracts on DNR lands have a negligible or minimal impact on unlisted anadromous salmonids and other aquatic and riparian species. As such, the Services extend the coverage for these unlisted species at the 1996 levels for these activities for the full length of the HCP term.

Sincerely,



John Engbring,
Habitat Conservation Plan Program Manager
U.S. Fish and Wildlife Service



Steven W. Landino
Olympia Field Office Supervisor
Habitat Conservation Program
National Marine Fisheries Service

JE/jko

c: NMFS, Lacey - Robert Turner
FWS, Lacey - Tim Bodurtha

... DNR
11 26 17

PITS & QUARRIES ON DNR-MANAGED LANDS WITH COMMERCIAL SALES

County	Site Name	Sales in 1996	Acres	Legal Description (Section, township, range)	Site in RMZ?	Mining in RMZ/ # of Acres
Clallam	Agate Pit	Yes	1.3	NWNE, S30, T30N, R8W	No	No
Clallam	Fitzgerald Road Pit	No	3	NENE, S11, T29N, R4W	No	No
Clallam	Mary Clark Pit	Yes	20	N1/2NW, S32, T30N, R12W	No	No
Clallam	Three Rivers Pit	Yes	2	NENW, S21, T28N, R14W	No	No
Clallam	Deer Park Pit	Yes	0.5	S15, T29N, R5W	No	No
Clark	Livingston Quarry *	No	20	SENE, NWSE, NESW, S11, T2N, R3E	No	No
Cowlitz	Spenser Creek *	Yes	1	S9, T6N, R1W	No	No
Grays Harbor	Upper Lytle Quarry	Yes	5	S17, T17N, R5W	No	No
Grays Harbor	Low Bank Pit	No	4	SW4, S15, T17N, R4W	No	No
Jefferson	Tower Creek Quarry	Yes	5	SWSW, S15, T27N, R11W	No	No
Jefferson	Winfield Pit South	Yes	25	SWSW, S35, T27N, R12W	No	No
Jefferson	Dry Creek Pit	No	18	NWNE, NENW, S15, T26N, R11W	No	No
Jefferson	Border Boulder Pit	Yes	40	SESE, S36, T25N, R11W	No	No
Lewis	Salmon Creek Quarry	Yes	2	S3 T11N, R2E	No	No
Lewis	F-120 Pit	Yes	1.5	S6, T16N, T6E	No	No
Lewis	Peter's Road Quarry	Yes	2	SE S24 T12N, R6E	No	No
Pacific	Upper Mill Pit	Yes	5	NWSW, S21, T13N, R6W	No	No

PITS & QUARRIES REQUIRING NPDES PERMITS

COUNTY	SITE NAME	ACRES	LEGAL DESCRIPTION (Section, Township, Range)	RELATION TO RMZ	RMZ ACRES
Grays Harbor	Hookup Quarry	2.5	NENE S1, T17N, R5W	IN Type 1	1.5
Grays Harbor	North Creek Quarry	1.5	NWNW S9, T16N, R4W	IN Type 1	1
King	Black Rock	3	SEWNW S2, T26N, R7E	OUT	0
Skagit	Butler Pit	5	NENW, S16, T35N, R4E	IN Type 3	.75 (Exclusion)
Snohomish	High Rock Quarry	80 current 250 proposed	W½, S19, T17N, R7E	OUT-Current IN--As expanded - -more mitigation planned Type "5"	1.5
Thurston	Apple Tree Quarry	1.5	S15, T18N, R3W	IN Type 1	1

Sites and Quarries with NPDES Permits





United States Department of the Interior

FISH AND WILDLIFE SERVICE
911 NE 11th Avenue
Portland, Oregon 97232-4181

- 8 1998

IN REPLY REFER TO

6898
(FYI) to: Jennifer Kuleen Paul S. Michael P.G. Chuck T.
MAY 28 1998

Jennifer Belcher, Commissioner of Public Lands
Washington Department of Natural Resources
1111 Washington Street, SE
P.O. Box 47000
Olympia, Washington 98504-7000

Dear Commissioner Belcher:

In reviewing and monitoring implementation of the Department of Natural Resources incidental take permit (permit number PRT-812521), the Fish and Wildlife Service has noted an ambiguity between the condition as stated in section 16.3 of the Implementation Agreement and as stated in paragraph 11.C. of the permit.

To eliminate this unintended ambiguity, paragraph 11.C. of permit PRT-812521 is corrected to read:

Valid for use by permittee named above and its authorized officers, employees, contractors, agents, lessees, licensees, permittees, right-of-way grantees, and purchasers.

Please attach this letter to your permit. If you have any questions, please contact Dave Wesley, Assistant Regional Director, at (503) 231-6159.

Sincerely,

Acting Regional Director

Thomas Dwyer



WASHINGTON STATE DEPARTMENT OF
Natural Resources

JENNIFER M. BELCHER
Commissioner of Public Lands

December 15, 1997

Mr. John Engbring
U.S. Department of the Interior, U.S. Fish and Wildlife Service
510 Desmond Drive SE, Suite 102
Lacey, WA 98503-1273

Dear John:

I am pleased to inform you that DNR has fulfilled one of its most important HCP implementation commitments: the designation of 66, 500-acre spotted owl nest patches. The enclosed maps show the general locations of these patches; the enclosed computer tape contains a precise record of patch locations and boundaries.

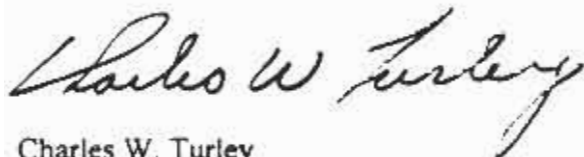
Nest patches were selected by DNR wildlife biologist Paula Swedeen, working with DNR's Northwest, South Puget Sound, and Southwest region offices, as well as USFWS wildlife biologist Carolyn Scafidi. The selection process involved screening potentially suitable habitat with DNR foresters, field inspections to verify habitat conditions, and review of candidate patches with region management. Patches identified via this process have been reviewed and approved by DNR management and the Commissioner of Public Lands.

The HCP stipulates that each patch should consist of a 300-acre core of "the highest quality nesting habitat available" and a 200-acre buffer of "sub-mature or higher quality habitat," and that the entire 500-acre patch be "entirely within a circle of 0.7 mile radius." Only 33 (50%) of the nest patches could be situated in (Old Forest) habitat known to support spotted owl nesting in western Washington (Table 1). This reflects a paucity of Old Forest habitat on DNR lands in the western Cascades. Per guidance in the HCP, the remaining 33 patches were placed in "the highest quality nesting habitat available." However, 19 patches (29%) had to be placed in Young Forest Marginal habitat or forested non-habitat (Table 1). Again, this reflects the scarcity of older forest habitat on DNR lands in the western Cascades. Nine (14%) of the nest patches could not be configured within a 0.7-mile radius circle; these patches were configured within circles up to 1.2 miles in radius. These departures in configuration occurred in response to long, narrow stands of Old Forest habitat surrounded by young, regenerating forest. Although half of the patches were placed in habitat not known to support spotted owl nesting, and nine patches exceed the configuration specified in the HCP, patches selected represent a consensus recommendation by DNR and USFWS biologists. In other words, there is mutual agreement that patches were placed in the best possible locations.

Mr. John Engbring
Page 2
December 15, 1997

DNR is assembling detailed information describing each of the 66 nest patches. Please contact Paula Swedeen at 360-902-1392 if you would like to have copies of this information. If you have questions about the format of the enclosed computer tape, please contact Kristin Jamison at 360-902-1640. Please contact me at 360-902-1148 if you have general questions about the nest patch selection and designation process.

Sincerely,



Charles W. Turley
HCP Implementation Manager

CWT:ly

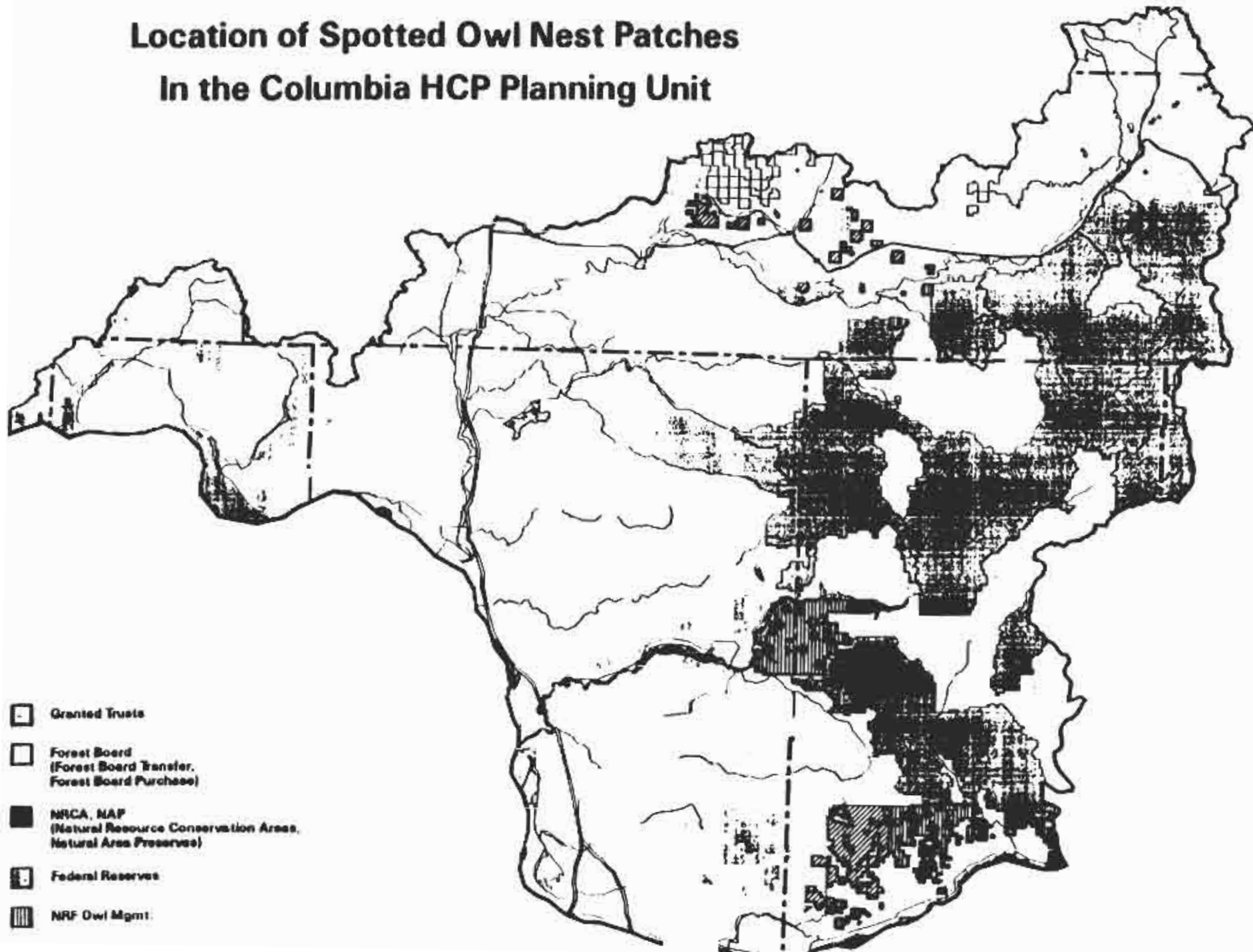
Enclosures

c: Jennifer M. Belcher, Commissioner of Public Lands
Charles Baum, Department Supervisor
John Daly, Deputy Supervisor for Operations
Paul Silver, Deputy Supervisor for Resource Management
Bonnie Bunning, Manager, South Puget Sound Region
Rick Cooper, Manager, Southwest Region
Joy Keniston-Longrie, Manager, Resource Planning and Asset Management Division
Michael Perez-Gibson, Manager, Forest Resources Division
Bill Wallace, Manager, Northwest Region
Lenny Young, Assistant Manager, Resource Planning and Asset Management Division
Paula Swedeen, Natural Resource Scientist, Resource Planning and Asset Management Division

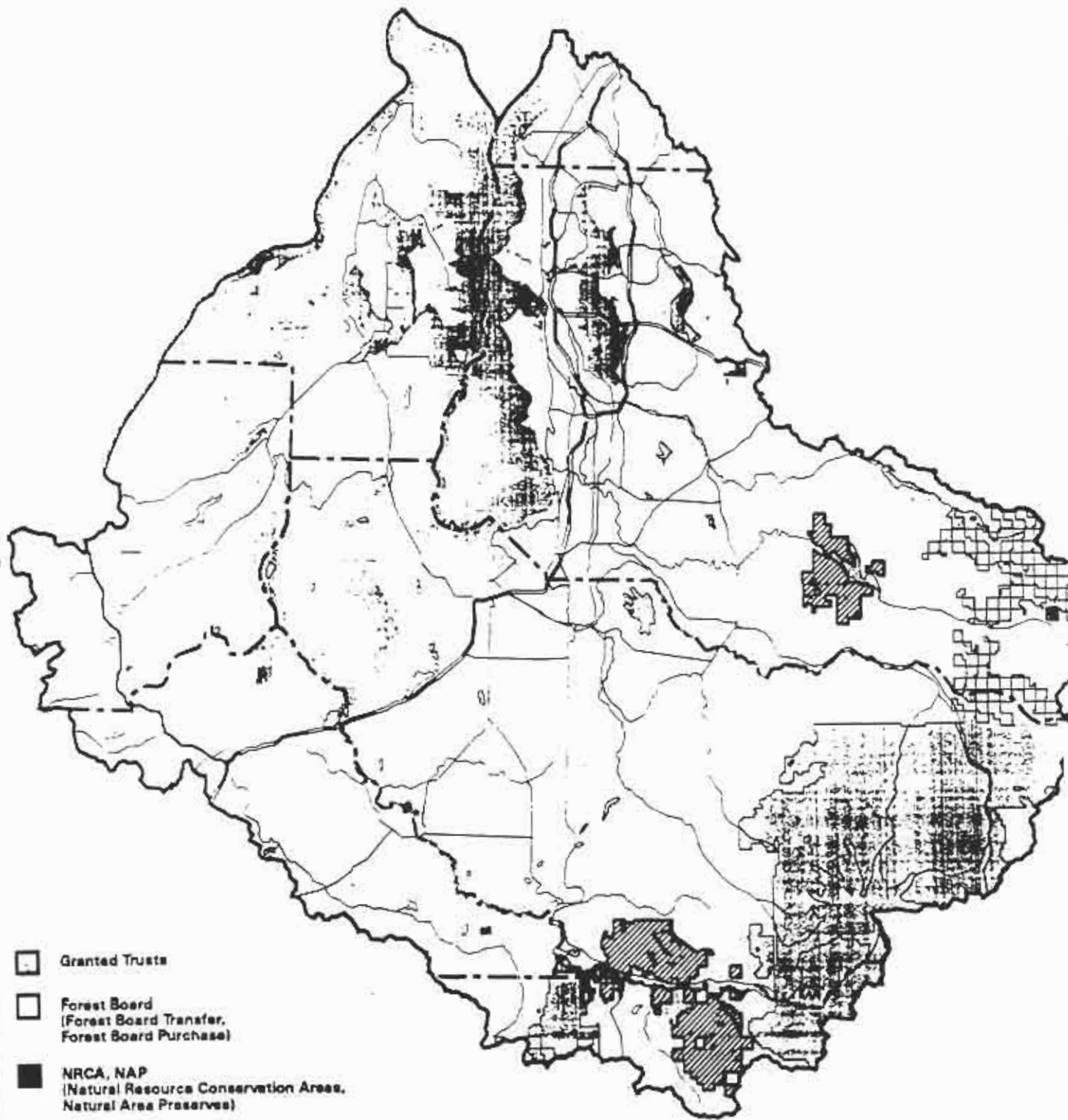
Table 1. Location and Condition of Spotted Owl Nest Patches.

Planning Unit	Habitat Condition in the 300-acre Core			Total
	Old Forest	Sub-mature	YFM or Forested Non-habitat	
North Puget	22	3	17	42
South Puget	1	0	1	2
Columbia	10	12	0	22
Total	33	15	18	66

Location of Spotted Owl Nest Patches In the Columbia HCP Planning Unit



Location of Spotted Owl Nest Patches In the South Puget Sound HCP Planning Unit



□ Granted Trusts

□ Forest Board
(Forest Board Transfer,
Forest Board Purchase)

■ NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)

□ Federal Reserves

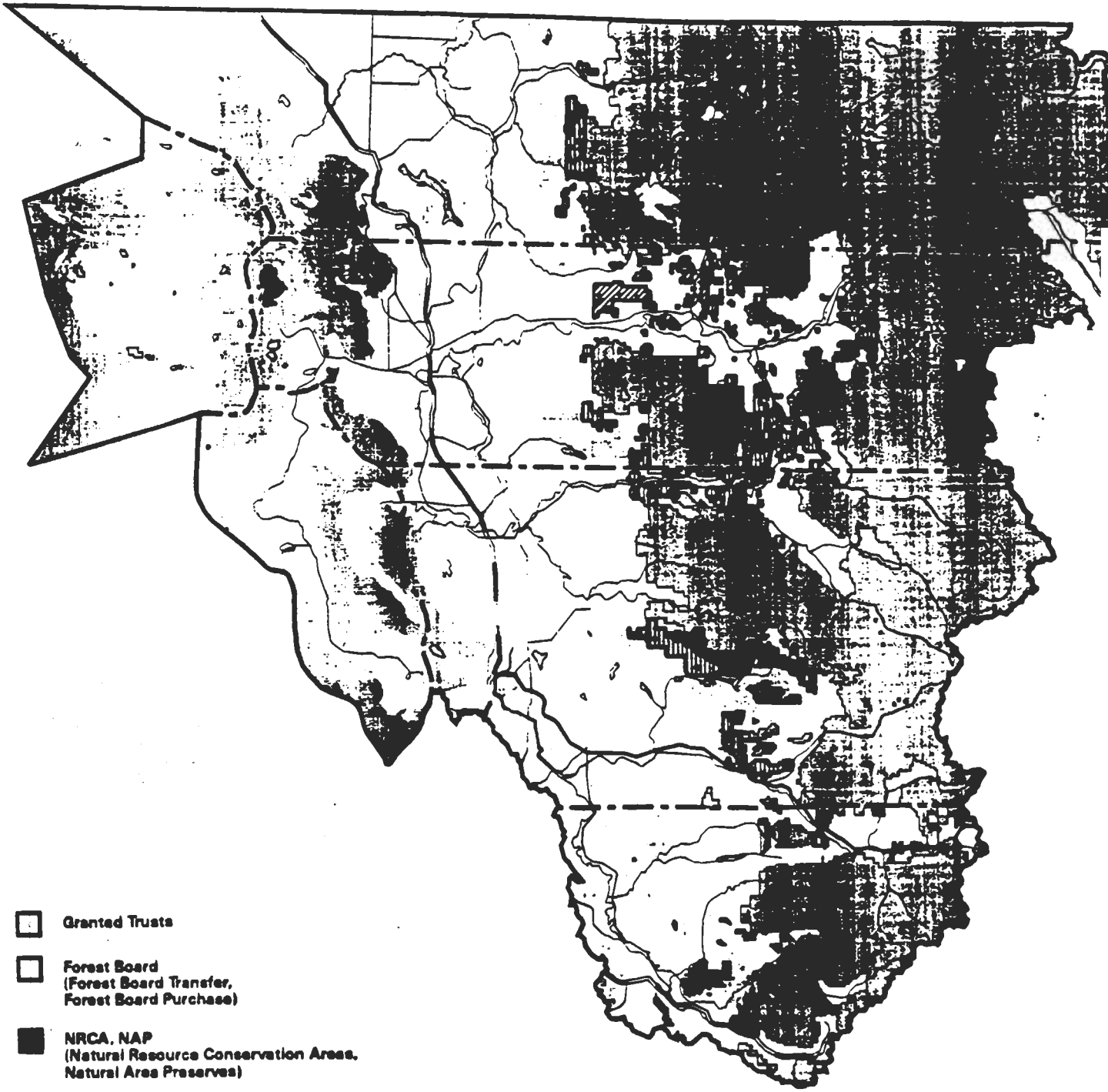
▨ NRF Owl Mgmt.

▨ DISP Owl Mgmt.

▨ HCP Planning Unit

■ Nest Patch
Locations

Location of Spotted Owl Nest Patches In the North Puget Sound HCP Planning Unit



□ Granted Trusts

□ Forest Board
(Forest Board Transfer,
Forest Board Purchase)

■ NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)

□ Federal Reserves

▨ NRF Owl Mgmt.

▧ DISP Owl Mgmt.

▭ HCP Planning Unit

● Nest Patch
Locations

Appendix A: Harvest & Silviculture

Disclaimer: Portions of this report were not available in their final electronic version. In some cases, missing sections were scanned. In other cases, modified draft versions, which look slightly different from the original print versions, were substituted. Although the formatting may look different from the print version of this report, in no case were the data changed in any way.

Appendix A

SILVICULTURE

MANAGEMENT

ACTIVITIES

STATISTICS: FY99 ACTIVITIES

by

HCP Planning Units

Silviculture Activities:

Activities in Designated Nesting, Roosting and Foraging Areas

Activities in Designated Dispersal Areas

Summaries, Data for each HCP Planning Unit

Silviculture Definitions

Details, Silviculture Activities by HCP Planning Units

HCP MANAGEMENT OBJECTIVES: NESTING, ROOSTING AND FORAGING AREAS

SILVICULTURE ACTIVITIES in DESIGNATED NRF MANAGEMENT AREAS by HCP PLANNING UNITS --- FY99

Harvest & Silvicultural Activity	Acres of Activity Within Designated NRF Areas by Planning Unit						
	Chelan	Columbia	Klickitat	North Puget	South Puget	Yakima	HCP Totals
Total NRF acres in HCP unit	5,647	54,157	20,096	109,409	2,648	13,567	205,524
% of total NRF acreage in HCP	3%	26%	10%	53%	1%	7%	100%
Timber Harvest--Total							Acres
- Clear cut		302	3	597			902
- Shelterwood removal cut						28	28
Forest Site Preparation--Total							
- Aerial herbicide		67		36			103
- Ground herbicide	54					28	82
Vegetation Management--Total							
- Aerial herbicide		331	236				567
- Ground herbicide				337			337
- Hand cutting		100		840			940
Other							
Forest regeneration - Hand planting	54	567		1035		28	1684
Pre-commercial thinning		301		2024			2325

These are 1997 totals - 1999 totals are listed in Chap 1 Report Planning Objectives Pg 5

Source: Planning & Tracking System 9/99

NOTE:

The following HCP Planning Units contain no designated spotted owl nesting, roosting and foraging (NRF) management acreage: OESF, South Coast and Straits.

There were no management activities in NRF acreage in the South Puget HCP planning unit for the FY1999 reporting period.

HCP MANAGEMENT OBJECTIVES: SPOTTED OWL DISPERSAL AREAS
SILVICULTURE ACTIVITIES in DESIGNATED DISPERSAL MANAGEMENT AREAS
 by
HCP PLANNING UNITS — FY99

Harvest & Silviculture Activity	Areas of Activity within Designated Dispersal Areas by HCP Planning Unit					
	Columbia	Klickitat	North Puget	South Puget	Yakima	HCP Total
Total Dispersal acres in Planning Unit	38,645	79,095	16,068	71,492	8,332	213,632
% of Total HCP Dispersal Acreage	18%	37%	8%	34%	4%	100%
Timber Harvest						Acres
- Clear cut	87	171	431	264		953
- Selective product logging				60		60
- Shelterwood removal cut		167			93	260
- Smallwood thinning		399				399
- Uneven-aged management		597				597
Forest Site Preparation						
- Aerial herbicide		145	81			226
- Ground herbicide		309			93	402
Vegetation Management						
- Aerial herbicide		885		27		912
- Ground herbicide		433				433
- Hand cutting			220	799		1019
Other						
-Forest regeneration - Hand planting	172	360	321	120	93	1066
Pre-commercial thinning	108		788	624	633	2153

These are 1997 Totals are listed in Chart. Great Planning Objectives 1/25

Source: Planning & Tracking System 9/99

NOTE: The following HCP Planning Units contain no designated Spotted Owl Dispersal acreage: OESF, South Coast and Straits. There were no activities in the Chelan HCP Planning Unit dispersal habitat during the FY99 reporting period.

Klickitat Planning Unit:

Historically, healthy eastside forests were "unmanaged". Southeast Region now has an active forest development program to restore that composition. Site preparation activities are generally habitat enhancement or development. Vegetation management includes activities related to controlling spruce budworm and controlling competitive ground-cover through herbicide application. Herbicide programs control weeds around new plantings.

Fire Issues: Lightening often started ground-level fires that kept fire-prone vegetation under control. Ponderosa pine and larch survive most ground-level fires. When fires were controlled, douglas fir flourished, however it is not fire-resistant. Past practices resulted in traditional ponderosa pine stands dominated by Doug fir. Current forest management focuses on re-establishing the native fire-resistant species of ponderosa pine and larch. The result will be a healthy, fire-resistant forest that provides habitats suited to the area.

SILVICULTURE MANAGEMENT ACTIVITIES: HCP PLANNING UNITS --- FY99

Harvest & Silvicultural Activity	Acres of Management Activity by Planning Unit									
	Chelan	Columbia	Klicki -tat	North Puget	OESF	South Coast	South Puget	Straits	Yakima	Total Acres
Timber Harvest Type										
Clear cut		1505	250	2340	347	3110	1058	929	14	9553
Late rotation thinning			51							51
Salvage cut					256	45				301
Selective product logging		265		244		49	220		399	1177
Shelterwood intermediate						3	52	221		276
Shelterwood removal cut			167						121	288
Smallwood thinning		498	399	573	1259	382				3111
Two aged management					58		44	78		180
Uneven-aged managemnt	254		970						715	1939
Forest site preparation										
Aerial herbicide		117	145	117		140				519
Broadcast burn		33								33
Ground herbicide	114		347						208	669
Pile and burn					58	104				162
Forest regeneration										
Hand planting	114	3515	502	3104	1036	3113	987	1113	285	13769
Natural regeneration					20					20
Vegetation managemnt										
Aerial herbicide		2254	1121			530	27			3932
Ground herbicide		27	457	1279		502	222	754		3241
Hand cutting		1165		6495	1745	2057	1283	186		12931
Other										
Pre-commercial thinning		1612		8924	7862	1423	904	2275	637	23637
Tree pruning - Hand				76	15					91
Forest fertilization										
Aerial fertilization				2888			4194	2826		2888
Ground fertilization				279						279

Source: Planning & Tracking System 9/99

Acreage discrepancies exist between data inventory systems. Data is entered at different times into different systems, therefore, at any given time, acreage identified in P&T may not match data in FRIS.

Silviculture includes many forestry activities, ranging from timber harvest methods and subsequent re-forestation efforts to a wide variety of forest habitat conservation and enhancement techniques. Refer to the definitions page for a description of the activities listed above.

APPENDIX A: Silviculture Definitions

Timber Harvest and Silviculture Management Activities Definitions-- FY1999

Timber Harvest Types - Definitions

Clear Cut

A timber harvest which removes the entire stand of trees except for reserve trees designated for habitat. Reserve trees may be clumped or dispersed throughout portions or all of the stand.

Smallwood Thinning

A partial cut timber harvest in young stands (typically less than 40 years of age). Smallwood thinning maintains or enhances the stand's growth potential, and improves the quality of the residual stand.

Salvage

Logging of trees that are dead, dying or deteriorating due to fire, insect damage, wind, disease injuries.

Unevenage Management - Ponderosa Pine selection system

A timber harvest conducted as one step in a silvicultural system whose objective is to create or maintain a forest stand in a condition with three or more age cohorts.

Shelterwood Intermediate Cut

The first timber harvest in a series. The purpose is to provide shelter (typically shade) and possibly a seed source.

Shelterwood Removal Cut and Seed Tree removal Cut

The second or final harvest in a series. The purpose is to remove overstory trees which create shade levels..

Seed Tree Intermediate Cut

The first timber harvest in a series. The purpose is to provide a desirable seed source to establish seedlings.

Selective Product Logging

A timber harvest which removes only certain species above a certain size. This is typically a pole/cabin log sale.

Late Rotation Thinning (*Older Stand Thinning*)

A partial cut timber harvest which extends the rotation age of a stand to more than 80 years of age, or achieves a visual or habitat objective that requires larger trees.

Two Age Management - Westside

An even-age harvest method. Temporary retention is a harvest method that can produce two aged stands.

Appendix A

Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Chelan HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Uneven-aged management	254	T25N R18E SEC 16	0107648
Forest site preparation - Ground herbicide	54	T23N R18E SEC 16	*
Forest site preparation - Ground herbicide	60	T24N R18E SEC 16	*
Forest regeneration - Hand planting	54	T23N R18E SEC 16	*
Forest regeneration - Hand planting	60	T24N R18E SEC 16	*

Columbia HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Clear cut	85	T05N R02E SEC 36	2900091
Timber harvest - Clear cut	15	T05N R03E SEC 02	2900825
Timber harvest - Clear cut	89	T05N R03E SEC 02	2900825
Timber harvest - Clear cut	84	T06N R03E SEC 04	2900088
Timber harvest - Clear cut	42	T06N R03E SEC 06	2900105
Timber harvest - Clear cut	48	T06N R04E SEC 15	1120038
Timber harvest - Clear cut	39	T06N R05E SEC 10	1120993
Timber harvest - Clear cut	47	T06N R05E SEC 10	1120993
Timber harvest - Clear cut	43	T06N R05E SEC 16	1121040
Timber harvest - Clear cut	72	T06N R05E SEC 28	1122000
Timber harvest - Clear cut	53	T07N R05E SEC 35	2900097
Timber harvest - Clear cut	11	T08N R04W SEC 06	2901138
Timber harvest - Clear cut	5	T08N R04W SEC 06	2901138
Timber harvest - Clear cut	7	T08N R05W SEC 01	2901138
Timber harvest - Clear cut	8	T08N R05W SEC 01	2901138
Timber harvest - Clear cut	6	T08N R05W SEC 01	2901138
Timber harvest - Clear cut	5	T08N R05W SEC 01	2901138
Timber harvest - Clear cut	67	T09N R05W SEC 24	2900292
Timber harvest - Clear cut	102	T10N R02W SEC 06	1122184
Timber harvest - Clear cut	75	T10N R04W SEC 30	1122398
Timber harvest - Clear cut	61	T10N R04W SEC 32	1122289
Timber harvest - Clear cut	46	T10N R08W SEC 02	1121755
Timber harvest - Clear cut	31	T11N R02E SEC 03	2500559
Timber harvest - Clear cut	38	T11N R07W SEC 29	2500327
Timber harvest - Clear cut	36	T12N R02E SEC 33	0435127
Timber harvest - Clear cut	33	T12N R02E SEC 33	0435127
Timber harvest - Clear cut	26	T12N R02E SEC 33	0435127
Timber harvest - Clear cut	28	T12N R03W SEC 14	0433532
Timber harvest - Clear cut	16	T12N R03W SEC 14	0433532
Timber harvest - Clear cut	43	T12N R03W SEC 14	0433532
Timber harvest - Clear cut	61	T12N R07E SEC 23	0433206
Timber harvest - Clear cut	45	T13N R04E SEC 36	0434258
Timber harvest - Clear cut	17	T13N R04E SEC 36	0434258

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Columbia HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Clear cut	25	T13N R04E SEC 36	0434258
Timber harvest - Clear cut	60	T13N R05E SEC 22	2503762
Timber harvest - Clear cut	36	T13N R05E SEC 27	2503762
Timber harvest - Selective product logging	117	T06N R03E SEC 22	2900940
Timber harvest - Selective product logging	90	T10N R02W SEC 06	1122345
Timber harvest - Selective product logging	34	T10N R02W SEC 07	1121704
Timber harvest - Selective product logging	24	T10N R02W SEC 07	1121704
Timber harvest - Smallwood thinning	498	T09N R02E SEC 09	2900917
Forest site preparation - Aerial herbicide	67	T07N R04E SEC 36	2901724
Forest site preparation - Aerial herbicide	24	T11N R02E SEC 14	2503948
Forest site preparation - Aerial herbicide	26	T12N R02E SEC 27	2503948
Forest site preparation - Broadcast burn	19	T11N R02E SEC 14	*
Forest site preparation - Broadcast burn	14	T11N R02E SEC 14	*
Forest regeneration - Hand planting	74	T02N R04E SEC 14	*
Forest regeneration - Hand planting	2	T02N R04E SEC 15	*
Forest regeneration - Hand planting	33	T02N R04E SEC 15	*
Forest regeneration - Hand planting	37	T02N R04E SEC 15	*
Forest regeneration - Hand planting	56	T02N R04E SEC 15	*
Forest regeneration - Hand planting	20	T02N R04E SEC 28	*
Forest regeneration - Hand planting	23	T02N R07E SEC 15	*
Forest regeneration - Hand planting	5	T03N R02E SEC 05	*
Forest regeneration - Hand planting	17	T03N R02E SEC 05	*
Forest regeneration - Hand planting	4	T03N R02E SEC 16	*
Forest regeneration - Hand planting	4	T03N R02E SEC 16	*
Forest regeneration - Hand planting	46	T03N R04E SEC 01	*
Forest regeneration - Hand planting	55	T03N R04E SEC 31	*
Forest regeneration - Hand planting	85	T03N R06E SEC 19	*
Forest regeneration - Hand planting	55	T03N R06E SEC 36	*
Forest regeneration - Hand planting	32	T03N R07E SEC 23	*
Forest regeneration - Hand planting	35	T03N R07E SEC 34	*
Forest regeneration - Hand planting	55	T03N R07E SEC 34	*
Forest regeneration - Hand planting	24	T04N R04E SEC 35	*
Forest regeneration - Hand planting	69	T04N R04E SEC 35	*
Forest regeneration - Hand planting	51	T04N R04E SEC 35	*
Forest regeneration - Hand planting	37	T05N R01E SEC 16	*
Forest regeneration - Hand planting	4	T05N R01E SEC 21	*
Forest regeneration - Hand planting	2	T05N R01E SEC 21	*
Forest regeneration - Hand planting	18	T05N R01E SEC 21	*
Forest regeneration - Hand planting	38	T06N R01E SEC 24	*
Forest regeneration - Hand planting	39	T06N R02E SEC 18	*
Forest regeneration - Hand planting	28	T06N R02E SEC 31	*
Forest regeneration - Hand planting	8	T06N R02E SEC 32	*
Forest regeneration - Hand planting	12	T06N R02E SEC 32	*
Forest regeneration - Hand planting	7	T06N R02E SEC 32	*
Forest regeneration - Hand planting	70	T06N R03E SEC 04	*
Forest regeneration - Hand planting	42	T06N R03E SEC 06	*
Forest regeneration - Hand planting	20	T06N R03E SEC 10	*
Forest regeneration - Hand planting	40	T06N R03E SEC 31	*
Forest regeneration - Hand planting	33	T06N R04E SEC 05	*
Forest regeneration - Hand planting	62	T06N R04E SEC 07	*
Forest regeneration - Hand planting	48	T06N R04E SEC 15	*
Forest regeneration - Hand planting	21	T06N R04E SEC 15	*
Forest regeneration - Hand planting	19	T06N R04E SEC 23	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Columbia HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Forest regeneration - Hand planting	56	T06N R04E SEC 24	*
Forest regeneration - Hand planting	10	T06N R04E SEC 26	*
Forest regeneration - Hand planting	3	T06N R04E SEC 29	*
Forest regeneration - Hand planting	31	T06N R05E SEC 20	*
Forest regeneration - Hand planting	82	T06N R05E SEC 28	*
Forest regeneration - Hand planting	26	T06N R05E SEC 30	*
Forest regeneration - Hand planting	57	T07N R01E SEC 24	*
Forest regeneration - Hand planting	93	T07N R01E SEC 24	*
Forest regeneration - Hand planting	74	T07N R05E SEC 35	*
Forest regeneration - Hand planting	73	T08N R04W SEC 07	*
Forest regeneration - Hand planting	89	T09N R01W SEC 36	*
Forest regeneration - Hand planting	93	T09N R01W SEC 36	*
Forest regeneration - Hand planting	47	T09N R05W SEC 33	*
Forest regeneration - Hand planting	32	T09N R05W SEC 33	*
Forest regeneration - Hand planting	90	T10N R01E SEC 36	*
Forest regeneration - Hand planting	9	T10N R01E SEC 36	*
Forest regeneration - Hand planting	13	T10N R01E SEC 36	*
Forest regeneration - Hand planting	11	T10N R01E SEC 36	*
Forest regeneration - Hand planting	8	T10N R01E SEC 36	*
Forest regeneration - Hand planting	102	T10N R02W SEC 06	*
Forest regeneration - Hand planting	75	T10N R04W SEC 30	*
Forest regeneration - Hand planting	7	T10N R04W SEC 30	*
Forest regeneration - Hand planting	79	T10N R04W SEC 32	*
Forest regeneration - Hand planting	10	T10N R04W SEC 34	*
Forest regeneration - Hand planting	35	T10N R06W SEC 08	*
Forest regeneration - Hand planting	25	T10N R06W SEC 30	*
Forest regeneration - Hand planting	45	T10N R06W SEC 33	*
Forest regeneration - Hand planting	46	T10N R08W SEC 02	*
Forest regeneration - Hand planting	31	T11N R02E SEC 03	*
Forest regeneration - Hand planting	14	T11N R02E SEC 13	*
Forest regeneration - Hand planting	46	T11N R02E SEC 13	*
Forest regeneration - Hand planting	19	T11N R02E SEC 14	*
Forest regeneration - Hand planting	13	T11N R02E SEC 14	*
Forest regeneration - Hand planting	24	T11N R02E SEC 14	*
Forest regeneration - Hand planting	14	T11N R02E SEC 14	*
Forest regeneration - Hand planting	63	T11N R03E SEC 17	*
Forest regeneration - Hand planting	31	T11N R03E SEC 17	*
Forest regeneration - Hand planting	3	T11N R03E SEC 18	*
Forest regeneration - Hand planting	38	T11N R07W SEC 29	*
Forest regeneration - Hand planting	50	T12N R02E SEC 27	*
Forest regeneration - Hand planting	12	T12N R02E SEC 27	*
Forest regeneration - Hand planting	36	T12N R02E SEC 33	*
Forest regeneration - Hand planting	33	T12N R02E SEC 33	*
Forest regeneration - Hand planting	25	T12N R02E SEC 33	*
Forest regeneration - Hand planting	11	T12N R02W SEC 30	*
Forest regeneration - Hand planting	19	T12N R02W SEC 30	*
Forest regeneration - Hand planting	43	T12N R03W SEC 14	*
Forest regeneration - Hand planting	16	T12N R03W SEC 14	*
Forest regeneration - Hand planting	28	T12N R03W SEC 14	*
Forest regeneration - Hand planting	61	T12N R07E SEC 23	*
Forest regeneration - Hand planting	31	T13N R01E SEC 36	*
Forest regeneration - Hand planting	7	T13N R01E SEC 36	*
Forest regeneration - Hand planting	45	T13N R04E SEC 36	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Columbia HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Forest regeneration - Hand planting	25	T13N R04E SEC 36	*
Forest regeneration - Hand planting	17	T13N R04E SEC 36	*
Forest regeneration - Hand planting	60	T13N R05E SEC 22	*
Forest regeneration - Hand planting	13	T13N R05E SEC 26	*
Forest regeneration - Hand planting	36	T13N R05E SEC 27	*
Vegetation management - Aerial herbicide	81	T03N R07.5E SEC 13	2901253
Vegetation management - Aerial herbicide	78	T03N R07E SEC 02	2901253
Vegetation management - Aerial herbicide	35	T03N R07E SEC 34	2901724
Vegetation management - Aerial herbicide	69	T03N R07E SEC 34	2901724
Vegetation management - Aerial herbicide	12	T03N R08E SEC 18	2901253
Vegetation management - Aerial herbicide	43	T05N R03E SEC 04	2901724
Vegetation management - Aerial herbicide	72	T05N R03E SEC 09	2901724
Vegetation management - Aerial herbicide	43	T05N R03E SEC 09	2901724
Vegetation management - Aerial herbicide	67	T06N R01E SEC 25	2901254
Vegetation management - Aerial herbicide	36	T06N R01E SEC 25	2901254
Vegetation management - Aerial herbicide	65	T06N R01E SEC 36	2901254
Vegetation management - Aerial herbicide	65	T06N R02E SEC 22	2901254
Vegetation management - Aerial herbicide	21	T06N R02E SEC 22	2901254
Vegetation management - Aerial herbicide	75	T06N R02E SEC 28	2901254
Vegetation management - Aerial herbicide	70	T06N R03E SEC 31	2901724
Vegetation management - Aerial herbicide	82	T06N R03E SEC 32	2901724
Vegetation management - Aerial herbicide	99	T06N R03E SEC 32	2901724
Vegetation management - Aerial herbicide	56	T06N R04E SEC 24	2901724
Vegetation management - Aerial herbicide	39	T08N R04W SEC 06	2901255
Vegetation management - Aerial herbicide	90	T09N R04W SEC 17	2901255
Vegetation management - Aerial herbicide	65	T09N R04W SEC 29	2901255
Vegetation management - Aerial herbicide	60	T09N R04W SEC 29	2901255
Vegetation management - Aerial herbicide	70	T09N R04W SEC 30	2901255
Vegetation management - Aerial herbicide	42	T09N R05W SEC 36	2901255
Vegetation management - Aerial herbicide	78	T10N R02E SEC 16	2901724
Vegetation management - Aerial herbicide	60	T10N R02E SEC 16	2901724
Vegetation management - Aerial herbicide	40	T10N R02E SEC 16	2901724
Vegetation management - Aerial herbicide	40	T10N R02E SEC 16	2901724
Vegetation management - Aerial herbicide	12	T10N R06W SEC 04	2901255
Vegetation management - Aerial herbicide	60	T10N R06W SEC 05	2901255
Vegetation management - Aerial herbicide	88	T10N R06W SEC 05	2901255
Vegetation management - Aerial herbicide	40	T10N R06W SEC 17	2901724
Vegetation management - Aerial herbicide	41	T10N R06W SEC 20	2901724
Vegetation management - Aerial herbicide	30	T10N R06W SEC 21	2901724
Vegetation management - Aerial herbicide	85	T10N R06W SEC 26	2901255
Vegetation management - Aerial herbicide	40	T10N R06W SEC 27	2901255
Vegetation management - Aerial herbicide	80	T10N R06W SEC 30	2901255
Vegetation management - Aerial herbicide	65	T10N R06W SEC 33	2901255
Vegetation management - Aerial herbicide	53	T10N R06W SEC 36	2901255
Vegetation management - Aerial herbicide	7	T13N R05E SEC 26	2503948
Vegetation management - Ground herbicide	27	T13N R01E SEC 36	*
Vegetation management - Hand cutting	16	T02N R04E SEC 14	*
Vegetation management - Hand cutting	17	T03N R06E SEC 11	*
Vegetation management - Hand cutting	48	T06N R02E SEC 31	*
Vegetation management - Hand cutting	27	T06N R04E SEC 27	*
Vegetation management - Hand cutting	56	T07N R04E SEC 35	*
Vegetation management - Hand cutting	49	T09N R04W SEC 17	*
Vegetation management - Hand cutting	80	T09N R04W SEC 17	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Columbia HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Vegetation management - Hand cutting	50	T09N R04W SEC 18	*
Vegetation management - Hand cutting	15	T09N R04W SEC 20	*
Vegetation management - Hand cutting	25	T09N R04W SEC 20	*
Vegetation management - Hand cutting	70	T09N R04W SEC 29	*
Vegetation management - Hand cutting	40	T09N R04W SEC 30	*
Vegetation management - Hand cutting	80	T09N R04W SEC 32	*
Vegetation management - Hand cutting	13	T10N R06W SEC 29	*
Vegetation management - Hand cutting	2	T10N R08W SEC 02	*
Vegetation management - Hand cutting	286	T11N R02E SEC 28	*
Vegetation management - Hand cutting	30	T11N R03E SEC 17	*
Vegetation management - Hand cutting	102	T11N R07W SEC 19	*
Vegetation management - Hand cutting	37	T11N R07W SEC 29	*
Vegetation management - Hand cutting	37	T11N R07W SEC 30	*
Vegetation management - Hand cutting	3	T11N R08W SEC 24	*
Vegetation management - Hand cutting	8	T11N R08W SEC 24	*
Vegetation management - Hand cutting	44	T11N R08W SEC 24	*
Vegetation management - Hand cutting	4	T11N R08W SEC 26	*
Vegetation management - Hand cutting	26	T12N R02E SEC 35	*
Pre-commercial thinning	54	T03N R05E SEC 36	*
Pre-commercial thinning	54	T03N R05E SEC 36	*
Pre-commercial thinning	226	T06N R02E SEC 15	*
Pre-commercial thinning	111	T06N R03E SEC 11	*
Pre-commercial thinning	12	T06N R04E SEC 25	*
Pre-commercial thinning	5	T06N R04E SEC 36	*
Pre-commercial thinning	225	T07N R04E SEC 33	*
Pre-commercial thinning	104	T07N R04E SEC 33	*
Pre-commercial thinning	171	T07N R05E SEC 34	*
Pre-commercial thinning	81	T07N R05E SEC 35	*
Pre-commercial thinning	32	T07N R05E SEC 36	*
Pre-commercial thinning	191	T09N R03E SEC 25	*
Pre-commercial thinning	134	T09N R04E SEC 19	*
Pre-commercial thinning	113	T09N R04E SEC 29	*
Pre-commercial thinning	79	T10N R02E SEC 16	*
Pre-commercial thinning	20	T10N R02E SEC 36	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Klickitat HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Clear cut	76	T04N R12E SEC 36	2700042
Timber harvest - Clear cut	4	T06N R10E SEC 32	2700258
Timber harvest - Clear cut	14	T06N R10E SEC 32	2700258
Timber harvest - Clear cut	22	T06N R10E SEC 32	2700258
Timber harvest - Clear cut	33	T06N R10E SEC 32	2700258
Timber harvest - Clear cut	2	T07N R12E SEC 16	2700528
Timber harvest - Clear cut	1	T07N R12E SEC 16	2700528
Timber harvest - Clear cut	82	T07N R12E SEC 16	2700528
Timber harvest - Clear cut	16	T07N R12E SEC 17	2700528
Timber harvest - Late rotation thinning	18	T04N R12E SEC 36	2700042
Timber harvest - Late rotation thinning	33	T04N R12E SEC 36	2700042
Timber harvest - Shelterwood removal cut	39	T05N R11E SEC 36	2700330
Timber harvest - Shelterwood removal cut	6	T05N R11E SEC 36	2700330
Timber harvest - Shelterwood removal cut	3	T05N R11E SEC 36	2700330
Timber harvest - Shelterwood removal cut	20	T05N R11E SEC 36	2700330
Timber harvest - Shelterwood removal cut	25	T05N R11E SEC 36	2700330
Timber harvest - Shelterwood removal cut	41	T05N R11E SEC 36	2700330
Timber harvest - Shelterwood removal cut	23	T05N R11E SEC 36	2700330
Timber harvest - Shelterwood removal cut	7	T05N R11E SEC 36	2700330
Timber harvest - Shelterwood removal cut	3	T05N R11E SEC 36	2700330
Timber harvest - Smallwood thinning	399	T06N R12E SEC 09	2700329
Timber harvest - Uneven-aged management	139	T05N R14E SEC 36	2700215
Timber harvest - Uneven-aged management	38	T06N R15E SEC 36	2700458
Timber harvest - Uneven-aged management	77	T06N R15E SEC 36	2700458
Timber harvest - Uneven-aged management	119	T06N R15E SEC 36	2700458
Timber harvest - Uneven-aged management	28	T11N R13E SEC 02	0108437
Timber harvest - Uneven-aged management	155	T11N R13E SEC 02	0108437
Timber harvest - Uneven-aged management	25	T11N R13E SEC 02	0108437
Timber harvest - Uneven-aged management	27	T11N R13E SEC 02	0108437
Timber harvest - Uneven-aged management	362	T12N R14E SEC 34	0108898
Forest site preparation - Aerial herbicide	23	T06N R11E SEC 28	2700664
Forest site preparation - Aerial herbicide	43	T06N R11E SEC 28	2700664
Forest site preparation - Aerial herbicide	33	T06N R11E SEC 28	2700664
Forest site preparation - Aerial herbicide	46	T06N R11E SEC 28	2700664
Forest site preparation - Ground herbicide	24	T03N R11E SEC 16	*
Forest site preparation - Ground herbicide	14	T04N R10E SEC 27	*
Forest site preparation - Ground herbicide	20	T04N R10E SEC 27	*
Forest site preparation - Ground herbicide	59	T04N R10E SEC 31	*
Forest site preparation - Ground herbicide	70	T05N R11E SEC 35	*
Forest site preparation - Ground herbicide	25	T05N R11E SEC 35	*
Forest site preparation - Ground herbicide	43	T06N R11E SEC 28	*
Forest site preparation - Ground herbicide	46	T06N R11E SEC 28	*
Forest site preparation - Ground herbicide	46	T06N R11E SEC 28	*
Forest regeneration - Hand planting	23	T03N R11E SEC 16	*
Forest regeneration - Hand planting	15	T04N R09E SEC 14	*
Forest regeneration - Hand planting	21	T04N R09E SEC 14	*
Forest regeneration - Hand planting	20	T04N R10E SEC 27	*
Forest regeneration - Hand planting	14	T04N R10E SEC 27	*
Forest regeneration - Hand planting	59	T04N R10E SEC 31	*
Forest regeneration - Hand planting	12	T04N R12E SEC 03	*
Forest regeneration - Hand planting	55	T04N R12E SEC 03	*
Forest regeneration - Hand planting	4	T04N R12E SEC 16	*
Forest regeneration - Hand planting	2	T04N R12E SEC 16	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Klickitat HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Forest regeneration - Hand planting	2	T04N R12E SEC 16	*
Forest regeneration - Hand planting	3	T04N R12E SEC 16	*
Forest regeneration - Hand planting	5	T04N R12E SEC 16	*
Forest regeneration - Hand planting	14	T04N R12E SEC 16	*
Forest regeneration - Hand planting	8	T04N R12E SEC 16	*
Forest regeneration - Hand planting	15	T05N R10E SEC 04	*
Forest regeneration - Hand planting	25	T05N R11E SEC 35	*
Forest regeneration - Hand planting	70	T05N R11E SEC 35	*
Forest regeneration - Hand planting	46	T06N R11E SEC 28	*
Forest regeneration - Hand planting	43	T06N R11E SEC 28	*
Forest regeneration - Hand planting	46	T06N R11E SEC 28	*
Vegetation management - Aerial herbicide	115	T04N R09E SEC 24	2700664
Vegetation management - Aerial herbicide	21	T04N R09E SEC 24	2700664
Vegetation management - Aerial herbicide	54	T04N R09E SEC 25	2700664
Vegetation management - Aerial herbicide	30	T04N R09E SEC 25	2700664
Vegetation management - Aerial herbicide	56	T04N R10E SEC 04	2700664
Vegetation management - Aerial herbicide	67	T04N R10E SEC 29	2700664
Vegetation management - Aerial herbicide	118	T04N R10E SEC 31	2700664
Vegetation management - Aerial herbicide	20	T04N R10E SEC 31	2700664
Vegetation management - Aerial herbicide	6	T04N R10E SEC 32	2700664
Vegetation management - Aerial herbicide	12	T04N R10E SEC 32	2700664
Vegetation management - Aerial herbicide	66	T05N R10E SEC 02	2700664
Vegetation management - Aerial herbicide	95	T05N R10E SEC 03	2700664
Vegetation management - Aerial herbicide	59	T05N R10E SEC 11	2700664
Vegetation management - Aerial herbicide	62	T05N R10E SEC 28	2700664
Vegetation management - Aerial herbicide	23	T05N R10E SEC 33	2700664
Vegetation management - Aerial herbicide	53	T06N R10E SEC 18	2700664
Vegetation management - Aerial herbicide	7	T06N R10E SEC 18	2700664
Vegetation management - Aerial herbicide	18	T06N R10E SEC 18	2700664
Vegetation management - Aerial herbicide	73	T06N R10E SEC 19	2700664
Vegetation management - Aerial herbicide	32	T06N R10E SEC 32	2700664
Vegetation management - Aerial herbicide	6	T06N R10E SEC 32	2700664
Vegetation management - Aerial herbicide	28	T06N R11E SEC 28	2700664
Vegetation management - Aerial herbicide	7	T06N R11E SEC 28	2700664
Vegetation management - Aerial herbicide	47	T06N R11E SEC 28	2700664
Vegetation management - Aerial herbicide	46	T06N R11E SEC 28	2700664
Vegetation management - Ground herbicide	24	T03N R11E SEC 16	*
Vegetation management - Ground herbicide	20	T04N R10E SEC 27	*
Vegetation management - Ground herbicide	62	T05N R11E SEC 01	*
Vegetation management - Ground herbicide	41	T05N R11E SEC 01	*
Vegetation management - Ground herbicide	25	T05N R11E SEC 35	*
Vegetation management - Ground herbicide	70	T05N R11E SEC 35	*
Vegetation management - Ground herbicide	46	T06N R11E SEC 28	*
Vegetation management - Ground herbicide	43	T06N R11E SEC 28	*
Vegetation management - Ground herbicide	46	T06N R11E SEC 28	*
Vegetation management - Ground herbicide	7	T06N R11E SEC 28	*
Vegetation management - Ground herbicide	45	T06N R11E SEC 28	*
Vegetation management - Ground herbicide	28	T06N R11E SEC 28	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Clear cut	35	T23N R07E SEC 09	0920874
Timber harvest - Clear cut	45	T27N R07E SEC 30	2800147
Timber harvest - Clear cut	26	T28N R08E SEC 09	2801558
Timber harvest - Clear cut	35	T29N R08E SEC 14	2801265
Timber harvest - Clear cut	7	T32N R09E SEC 18	1922162
Timber harvest - Clear cut	5	T32N R09E SEC 18	1922162
Timber harvest - Clear cut	8	T32N R09E SEC 18	1922162
Timber harvest - Clear cut	47	T33N R07E SEC 33	1922543
Timber harvest - Clear cut	49	T33N R10E SEC 07	2800125
Timber harvest - Clear cut	57	T33N R10E SEC 07	2800125
Timber harvest - Clear cut	81	T33N R10E SEC 13	2800045
Timber harvest - Clear cut	27	T33N R10E SEC 16	2801430
Timber harvest - Clear cut	81	T33N R10E SEC 17	2801429
Timber harvest - Clear cut	40	T33N R10E SEC 18	2800125
Timber harvest - Clear cut	75	T33N R10E SEC 21	2801430
Timber harvest - Clear cut	77	T33N R10E SEC 21	2801430
Timber harvest - Clear cut	24	T33N R10E SEC 22	2801800
Timber harvest - Clear cut	32	T33N R10E SEC 27	2801800
Timber harvest - Clear cut	45	T33N R10E SEC 28	2800964
Timber harvest - Clear cut	55	T33N R10E SEC 28	2800964
Timber harvest - Clear cut	18	T33N R10E SEC 28	2800964
Timber harvest - Clear cut	12	T33N R10E SEC 28	2801800
Timber harvest - Clear cut	51	T33N R10E SEC 28	2801800
Timber harvest - Clear cut	21	T33N R10E SEC 28	2801800
Timber harvest - Clear cut	67	T35N R06E SEC 32	2800129
Timber harvest - Clear cut	11	T35N R07E SEC 06	2801175
Timber harvest - Clear cut	69	T35N R07E SEC 07	2801175
Timber harvest - Clear cut	60	T35N R08E SEC 01	1920250
Timber harvest - Clear cut	28	T35N R08E SEC 17	1922554
Timber harvest - Clear cut	60	T36N R04E SEC 15	1922448
Timber harvest - Clear cut	25	T36N R04E SEC 16	1922114
Timber harvest - Clear cut	60	T36N R07E SEC 30	2800546
Timber harvest - Clear cut	86	T37N R03E SEC 12	2800098
Timber harvest - Clear cut	74	T37N R04E SEC 31	2800190
Timber harvest - Clear cut	6	T37N R05E SEC 32	2802193
Timber harvest - Clear cut	37	T38N R05E SEC 14	1922559
Timber harvest - Clear cut	28	T38N R05E SEC 16	1922551
Timber harvest - Clear cut	30	T38N R05E SEC 21	2800888
Timber harvest - Clear cut	88	T38N R05E SEC 27	2801047
Timber harvest - Clear cut	31	T38N R05E SEC 36	2800130
Timber harvest - Clear cut	84	T38N R05E SEC 36	2800130
Timber harvest - Clear cut	57	T39N R05E SEC 06	1922451
Timber harvest - Clear cut	81	T39N R06E SEC 02	1922536
Timber harvest - Clear cut	88	T39N R06E SEC 02	1922536
Timber harvest - Clear cut	62	T40N R05E SEC 25	1922418
Timber harvest - Clear cut	61	T40N R05E SEC 25	1922418
Timber harvest - Clear cut	76	T40N R06E SEC 20	2800160
Timber harvest - Clear cut	90	T40N R06E SEC 20	2800160
Timber harvest - Clear cut	28	T40N R06E SEC 29	2800160
Timber harvest - Selective product logging	35	T26N R07E SEC 11	2404539
Timber harvest - Selective product logging	21	T26N R08E SEC 06	2404539
Timber harvest - Selective product logging	26	T26N R08E SEC 06	2404539
Timber harvest - Selective product logging	13	T26N R08E SEC 06	2404539

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Selective product logging	58	T26N R08E SEC 07	0922971
Timber harvest - Selective product logging	19	T26N R08E SEC 08	2404539
Timber harvest - Selective product logging	40	T26N R08E SEC 08	2404539
Timber harvest - Selective product logging	32	T28N R08E SEC 17	1922553
Timber harvest - Smallwood thinning	22	T29N R07E SEC 05	2800131
Timber harvest - Smallwood thinning	78	T29N R07E SEC 06	2800131
Timber harvest - Smallwood thinning	84	T29N R07E SEC 07	2800131
Timber harvest - Smallwood thinning	21	T29N R07E SEC 07	2800131
Timber harvest - Smallwood thinning	5	T32N R07E SEC 03	1921206
Timber harvest - Smallwood thinning	46	T33N R05E SEC 14	1921206
Timber harvest - Smallwood thinning	79	T33N R05E SEC 24	1921206
Timber harvest - Smallwood thinning	57	T33N R05E SEC 27	1921206
Timber harvest - Smallwood thinning	181	T33N R06E SEC 19	1921206
Forest site preparation - Aerial herbicide	36	T33N R10E SEC 15	not reported
Forest site preparation - Aerial herbicide	81	T33N R10E SEC 21	not reported
Forest regeneration - Hand planting	53	T26N R08E SEC 17	*
Forest regeneration - Hand planting	63	T26N R08E SEC 19	*
Forest regeneration - Hand planting	30	T27N R07E SEC 30	*
Forest regeneration - Hand planting	26	T27N R07E SEC 30	*
Forest regeneration - Hand planting	37	T28N R07E SEC 16	*
Forest regeneration - Hand planting	20	T28N R08E SEC 07	*
Forest regeneration - Hand planting	5	T28N R08E SEC 07	*
Forest regeneration - Hand planting	67	T28N R09E SEC 29	*
Forest regeneration - Hand planting	85	T29N R08E SEC 29	*
Forest regeneration - Hand planting	14	T29N R08E SEC 29	*
Forest regeneration - Hand planting	50	T30N R07E SEC 21	*
Forest regeneration - Hand planting	5	T31N R06E SEC 16	*
Forest regeneration - Hand planting	78	T31N R06E SEC 24	*
Forest regeneration - Hand planting	55	T31N R06E SEC 25	*
Forest regeneration - Hand planting	10	T32N R06E SEC 27	*
Forest regeneration - Hand planting	27	T32N R07E SEC 19	*
Forest regeneration - Hand planting	45	T32N R08E SEC 14	*
Forest regeneration - Hand planting	51	T32N R08E SEC 14	*
Forest regeneration - Hand planting	36	T32N R09E SEC 06	*
Forest regeneration - Hand planting	28	T32N R09E SEC 06	*
Forest regeneration - Hand planting	5	T32N R09E SEC 18	*
Forest regeneration - Hand planting	8	T32N R09E SEC 18	*
Forest regeneration - Hand planting	5	T32N R09E SEC 18	*
Forest regeneration - Hand planting	25	T32N R09E SEC 25	*
Forest regeneration - Hand planting	24	T33N R06E SEC 25	*
Forest regeneration - Hand planting	18	T33N R06E SEC 32	*
Forest regeneration - Hand planting	11	T33N R06E SEC 32	*
Forest regeneration - Hand planting	62	T33N R06E SEC 36	*
Forest regeneration - Hand planting	39	T33N R07E SEC 28	*
Forest regeneration - Hand planting	47	T33N R07E SEC 33	*
Forest regeneration - Hand planting	18	T33N R10E SEC 06	*
Forest regeneration - Hand planting	52	T33N R10E SEC 07	*
Forest regeneration - Hand planting	48	T33N R10E SEC 07	*
Forest regeneration - Hand planting	16	T33N R10E SEC 10	*
Forest regeneration - Hand planting	78	T33N R10E SEC 13	*
Forest regeneration - Hand planting	36	T33N R10E SEC 15	*
Forest regeneration - Hand planting	27	T33N R10E SEC 16	*
Forest regeneration - Hand planting	81	T33N R10E SEC 17	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Forest regeneration - Hand planting	38	T33N R10E SEC 18	*
Forest regeneration - Hand planting	82	T33N R10E SEC 21	*
Forest regeneration - Hand planting	77	T33N R10E SEC 21	*
Forest regeneration - Hand planting	24	T33N R10E SEC 22	*
Forest regeneration - Hand planting	32	T33N R10E SEC 27	*
Forest regeneration - Hand planting	20	T33N R10E SEC 28	*
Forest regeneration - Hand planting	12	T33N R10E SEC 28	*
Forest regeneration - Hand planting	42	T33N R10E SEC 28	*
Forest regeneration - Hand planting	17	T33N R10E SEC 28	*
Forest regeneration - Hand planting	54	T33N R10E SEC 28	*
Forest regeneration - Hand planting	6	T33N R10E SEC 29	*
Forest regeneration - Hand planting	62	T33N R10E SEC 30	*
Forest regeneration - Hand planting	65	T33N R10E SEC 31	*
Forest regeneration - Hand planting	86	T34N R09E SEC 12	*
Forest regeneration - Hand planting	1	T35N R06E SEC 27	*
Forest regeneration - Hand planting	62	T35N R06E SEC 32	*
Forest regeneration - Hand planting	25	T35N R08E SEC 17	*
Forest regeneration - Hand planting	43	T36N R05E SEC 34	*
Forest regeneration - Hand planting	29	T37N R03E SEC 13	*
Forest regeneration - Hand planting	71	T37N R05E SEC 34	*
Forest regeneration - Hand planting	30	T37N R05E SEC 35	*
Forest regeneration - Hand planting	46	T38N R04E SEC 36	*
Forest regeneration - Hand planting	36	T38N R05E SEC 14	*
Forest regeneration - Hand planting	28	T38N R05E SEC 16	*
Forest regeneration - Hand planting	30	T38N R05E SEC 21	*
Forest regeneration - Hand planting	88	T38N R05E SEC 27	*
Forest regeneration - Hand planting	9	T39N R05E SEC 03	*
Forest regeneration - Hand planting	35	T39N R05E SEC 06	*
Forest regeneration - Hand planting	74	T39N R06E SEC 02	*
Forest regeneration - Hand planting	73	T39N R06E SEC 02	*
Forest regeneration - Hand planting	41	T40N R05E SEC 04	*
Forest regeneration - Hand planting	24	T40N R05E SEC 04	*
Forest regeneration - Hand planting	42	T40N R05E SEC 25	*
Forest regeneration - Hand planting	57	T40N R05E SEC 25	*
Forest regeneration - Hand planting	84	T40N R06E SEC 20	*
Forest regeneration - Hand planting	58	T40N R06E SEC 20	*
Forest regeneration - Hand planting	88	T40N R06E SEC 27	*
Forest regeneration - Hand planting	28	T40N R06E SEC 29	*
Vegetation management - Ground herbicide	17	T27N R07E SEC 17	*
Vegetation management - Ground herbicide	43	T28N R07E SEC 36	*
Vegetation management - Ground herbicide	17	T28N R08E SEC 05	*
Vegetation management - Ground herbicide	22	T28N R08E SEC 05	*
Vegetation management - Ground herbicide	8	T28N R08E SEC 36	*
Vegetation management - Ground herbicide	42	T28N R08E SEC 36	*
Vegetation management - Ground herbicide	19	T29N R07E SEC 04	*
Vegetation management - Ground herbicide	23	T30N R07E SEC 33	*
Vegetation management - Ground herbicide	55	T30N R07E SEC 34	*
Vegetation management - Ground herbicide	56	T30N R07E SEC 34	*
Vegetation management - Ground herbicide	91	T31N R07E SEC 32	*
Vegetation management - Ground herbicide	47	T32N R06E SEC 02	*
Vegetation management - Ground herbicide	23	T32N R06E SEC 03	*
Vegetation management - Ground herbicide	57	T32N R08E SEC 10	*
Vegetation management - Ground herbicide	26	T32N R09E SEC 03	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Vegetation management - Ground herbicide	2	T32N R09E SEC 04	*
Vegetation management - Ground herbicide	34	T32N R09E SEC 18	*
Vegetation management - Ground herbicide	30	T32N R09E SEC 18	*
Vegetation management - Ground herbicide	7	T32N R09E SEC 18	*
Vegetation management - Ground herbicide	30	T33N R05E SEC 15	*
Vegetation management - Ground herbicide	1	T33N R06E SEC 36	*
Vegetation management - Ground herbicide	45	T33N R07E SEC 31	*
Vegetation management - Ground herbicide	52	T33N R10E SEC 07	*
Vegetation management - Ground herbicide	48	T33N R10E SEC 07	*
Vegetation management - Ground herbicide	25	T35N R09E SEC 16	*
Vegetation management - Ground herbicide	32	T36N R06E SEC 21	*
Vegetation management - Ground herbicide	34	T36N R06E SEC 21	*
Vegetation management - Ground herbicide	45	T37N R05E SEC 04	*
Vegetation management - Ground herbicide	63	T37N R05E SEC 36	*
Vegetation management - Ground herbicide	49	T38N R05E SEC 13	*
Vegetation management - Ground herbicide	14	T38N R05E SEC 28	*
Vegetation management - Ground herbicide	18	T39N R04E SEC 25	*
Vegetation management - Ground herbicide	18	T39N R04E SEC 25	*
Vegetation management - Ground herbicide	48	T39N R05E SEC 09	*
Vegetation management - Ground herbicide	40	T39N R05E SEC 29	*
Vegetation management - Ground herbicide	15	T39N R05E SEC 29	*
Vegetation management - Ground herbicide	5	T39N R05E SEC 29	*
Vegetation management - Ground herbicide	41	T40N R05E SEC 16	*
Vegetation management - Ground herbicide	37	T40N R05E SEC 16	*
Vegetation management - Hand cutting	28	T23N R08E SEC 07	*
Vegetation management - Hand cutting	34	T26N R08E SEC 06	*
Vegetation management - Hand cutting	35	T26N R08E SEC 07	*
Vegetation management - Hand cutting	58	T27N R07E SEC 17	*
Vegetation management - Hand cutting	32	T27N R07E SEC 17	*
Vegetation management - Hand cutting	23	T27N R07E SEC 20	*
Vegetation management - Hand cutting	14	T27N R07E SEC 29	*
Vegetation management - Hand cutting	90	T27N R07E SEC 35	*
Vegetation management - Hand cutting	203	T27N R07E SEC 36	*
Vegetation management - Hand cutting	51	T28N R07E SEC 04	*
Vegetation management - Hand cutting	64	T28N R07E SEC 14	*
Vegetation management - Hand cutting	82	T28N R07E SEC 16	*
Vegetation management - Hand cutting	51	T28N R08E SEC 03	*
Vegetation management - Hand cutting	56	T28N R08E SEC 16	*
Vegetation management - Hand cutting	24	T29N R06E SEC 24	*
Vegetation management - Hand cutting	72	T29N R07E SEC 10	*
Vegetation management - Hand cutting	105	T29N R07E SEC 13	*
Vegetation management - Hand cutting	46	T29N R07E SEC 33	*
Vegetation management - Hand cutting	13	T29N R08E SEC 07	*
Vegetation management - Hand cutting	41	T30N R06E SEC 16	*
Vegetation management - Hand cutting	36	T30N R06E SEC 16	*
Vegetation management - Hand cutting	41	T30N R06E SEC 16	*
Vegetation management - Hand cutting	18	T31N R05E SEC 36	*
Vegetation management - Hand cutting	16	T31N R05E SEC 36	*
Vegetation management - Hand cutting	80	T31N R05E SEC 36	*
Vegetation management - Hand cutting	50	T31N R05E SEC 36	*
Vegetation management - Hand cutting	5	T31N R05E SEC 36	*
Vegetation management - Hand cutting	5	T31N R05E SEC 36	*
Vegetation management - Hand cutting	94	T32N R06E SEC 04	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Vegetation management - Hand cutting	73	T32N R06E SEC 07	*
Vegetation management - Hand cutting	52	T32N R06E SEC 23	*
Vegetation management - Hand cutting	90	T32N R06E SEC 23	*
Vegetation management - Hand cutting	23	T32N R06E SEC 24	*
Vegetation management - Hand cutting	38	T32N R06E SEC 24	*
Vegetation management - Hand cutting	23	T32N R07E SEC 11	*
Vegetation management - Hand cutting	61	T32N R07E SEC 13	*
Vegetation management - Hand cutting	5	T32N R07E SEC 16	*
Vegetation management - Hand cutting	69	T32N R07E SEC 17	*
Vegetation management - Hand cutting	59	T32N R07E SEC 20	*
Vegetation management - Hand cutting	35	T32N R07E SEC 20	*
Vegetation management - Hand cutting	45	T32N R07E SEC 24	*
Vegetation management - Hand cutting	114	T32N R08E SEC 04	*
Vegetation management - Hand cutting	22	T32N R09E SEC 12	*
Vegetation management - Hand cutting	59	T32N R09E SEC 19	*
Vegetation management - Hand cutting	19	T32N R09E SEC 21	*
Vegetation management - Hand cutting	94	T32N R09E SEC 24	*
Vegetation management - Hand cutting	45	T32N R09E SEC 26	*
Vegetation management - Hand cutting	68	T32N R10E SEC 04	*
Vegetation management - Hand cutting	99	T32N R10E SEC 04	*
Vegetation management - Hand cutting	51	T32N R10E SEC 04	*
Vegetation management - Hand cutting	109	T33N R05E SEC 03	*
Vegetation management - Hand cutting	40	T33N R05E SEC 04	*
Vegetation management - Hand cutting	30	T33N R05E SEC 10	*
Vegetation management - Hand cutting	21	T33N R05E SEC 13	*
Vegetation management - Hand cutting	112	T33N R05E SEC 20	*
Vegetation management - Hand cutting	136	T33N R05E SEC 24	*
Vegetation management - Hand cutting	48	T33N R05E SEC 27	*
Vegetation management - Hand cutting	39	T33N R05E SEC 29	*
Vegetation management - Hand cutting	70	T33N R05E SEC 32	*
Vegetation management - Hand cutting	141	T33N R05E SEC 32	*
Vegetation management - Hand cutting	52	T33N R05E SEC 33	*
Vegetation management - Hand cutting	57	T33N R05E SEC 34	*
Vegetation management - Hand cutting	72	T33N R06E SEC 16	*
Vegetation management - Hand cutting	63	T33N R06E SEC 19	*
Vegetation management - Hand cutting	48	T33N R06E SEC 32	*
Vegetation management - Hand cutting	93	T33N R07E SEC 28	*
Vegetation management - Hand cutting	16	T33N R07E SEC 30	*
Vegetation management - Hand cutting	31	T33N R07E SEC 34	*
Vegetation management - Hand cutting	40	T33N R07E SEC 34	*
Vegetation management - Hand cutting	64	T33N R07E SEC 36	*
Vegetation management - Hand cutting	7	T33N R10E SEC 13	*
Vegetation management - Hand cutting	7	T33N R10E SEC 27	*
Vegetation management - Hand cutting	15	T33N R10E SEC 28	*
Vegetation management - Hand cutting	119	T34N R05E SEC 08	*
Vegetation management - Hand cutting	43	T34N R05E SEC 16	*
Vegetation management - Hand cutting	4	T34N R09E SEC 04	*
Vegetation management - Hand cutting	14	T34N R09E SEC 36	*
Vegetation management - Hand cutting	73	T35N R06E SEC 02	*
Vegetation management - Hand cutting	22	T35N R06E SEC 27	*
Vegetation management - Hand cutting	35	T35N R06E SEC 34	*
Vegetation management - Hand cutting	92	T35N R07E SEC 06	*
Vegetation management - Hand cutting	38	T35N R09E SEC 21	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Vegetation management - Hand cutting	4	T35N R09E SEC 21	*
Vegetation management - Hand cutting	77	T36N R03E SEC 14	*
Vegetation management - Hand cutting	81	T36N R03E SEC 15	*
Vegetation management - Hand cutting	107	T36N R04E SEC 09	*
Vegetation management - Hand cutting	2	T36N R04W SEC 36	*
Vegetation management - Hand cutting	2	T36N R04W SEC 36	*
Vegetation management - Hand cutting	34	T36N R05E SEC 08	*
Vegetation management - Hand cutting	102	T36N R07E SEC 34	*
Vegetation management - Hand cutting	8	T37N R05E SEC 02	*
Vegetation management - Hand cutting	8	T37N R05E SEC 04	*
Vegetation management - Hand cutting	18	T37N R05E SEC 04	*
Vegetation management - Hand cutting	45	T37N R05E SEC 10	*
Vegetation management - Hand cutting	54	T37N R05E SEC 19	*
Vegetation management - Hand cutting	82	T37N R05E SEC 29	*
Vegetation management - Hand cutting	110	T37N R05E SEC 34	*
Vegetation management - Hand cutting	136	T37N R05E SEC 35	*
Vegetation management - Hand cutting	69	T37N R05E SEC 35	*
Vegetation management - Hand cutting	1	T37N R06E SEC 06	*
Vegetation management - Hand cutting	55	T38N R04E SEC 20	*
Vegetation management - Hand cutting	71	T38N R04E SEC 20	*
Vegetation management - Hand cutting	25	T38N R04E SEC 20	*
Vegetation management - Hand cutting	21	T38N R04E SEC 29	*
Vegetation management - Hand cutting	23	T38N R04E SEC 29	*
Vegetation management - Hand cutting	10	T38N R05E SEC 14	*
Vegetation management - Hand cutting	65	T38N R05E SEC 21	*
Vegetation management - Hand cutting	30	T38N R05E SEC 26	*
Vegetation management - Hand cutting	62	T38N R05E SEC 27	*
Vegetation management - Hand cutting	92	T38N R05E SEC 28	*
Vegetation management - Hand cutting	64	T38N R05E SEC 28	*
Vegetation management - Hand cutting	36	T38N R05E SEC 28	*
Vegetation management - Hand cutting	30	T38N R05E SEC 33	*
Vegetation management - Hand cutting	133	T38N R05E SEC 34	*
Vegetation management - Hand cutting	72	T38N R05E SEC 34	*
Vegetation management - Hand cutting	38	T38N R05E SEC 34	*
Vegetation management - Hand cutting	32	T38N R05E SEC 35	*
Vegetation management - Hand cutting	3	T38N R06E SEC 20	*
Vegetation management - Hand cutting	29	T38N R06E SEC 20	*
Vegetation management - Hand cutting	17	T39N R04E SEC 02	*
Vegetation management - Hand cutting	7	T39N R05E SEC 12	*
Vegetation management - Hand cutting	96	T39N R05E SEC 16	*
Vegetation management - Hand cutting	11	T39N R05E SEC 34	*
Vegetation management - Hand cutting	70	T40N R05E SEC 24	*
Vegetation management - Hand cutting	28	T40N R05E SEC 26	*
Vegetation management - Hand cutting	35	T40N R06E SEC 31	*
Vegetation management - Hand cutting	18	T40N R06E SEC 32	*
Vegetation management - Hand cutting	20	T40N R06E SEC 34	*
Pre-commercial thinning	200	T23N R09E SEC 07	*
Pre-commercial thinning	154	T23N R09E SEC 08	*
Pre-commercial thinning	283	T26N R07E SEC 01	*
Pre-commercial thinning	282	T26N R07E SEC 01	*
Pre-commercial thinning	134	T26N R07E SEC 02	*
Pre-commercial thinning	117	T26N R07E SEC 02	*
Pre-commercial thinning	60	T26N R07E SEC 11	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Pre-commercial thinning	60	T26N R07E SEC 11	*
Pre-commercial thinning	72	T26N R07E SEC 12	*
Pre-commercial thinning	72	T26N R07E SEC 12	*
Pre-commercial thinning	76	T26N R07E SEC 13	*
Pre-commercial thinning	55	T26N R08E SEC 17	*
Pre-commercial thinning	108	T27N R07E SEC 08	*
Pre-commercial thinning	114	T27N R07E SEC 20	*
Pre-commercial thinning	39	T27N R07E SEC 30	*
Pre-commercial thinning	32	T27N R07E SEC 36	*
Pre-commercial thinning	7	T27N R08E SEC 31	*
Pre-commercial thinning	67	T27N R09E SEC 13	*
Pre-commercial thinning	45	T28N R07E SEC 04	*
Pre-commercial thinning	55	T28N R07E SEC 06	*
Pre-commercial thinning	41	T28N R07E SEC 08	*
Pre-commercial thinning	223	T28N R07E SEC 17	*
Pre-commercial thinning	39	T28N R07E SEC 36	*
Pre-commercial thinning	16	T28N R07E SEC 36	*
Pre-commercial thinning	26	T28N R08E SEC 03	*
Pre-commercial thinning	4	T28N R08E SEC 03	*
Pre-commercial thinning	14	T28N R08E SEC 04	*
Pre-commercial thinning	11	T28N R08E SEC 10	*
Pre-commercial thinning	25	T28N R08E SEC 11	*
Pre-commercial thinning	34	T28N R08E SEC 11	*
Pre-commercial thinning	76	T28N R08E SEC 14	*
Pre-commercial thinning	61	T29N R06E SEC 12	*
Pre-commercial thinning	55	T29N R06E SEC 12	*
Pre-commercial thinning	39	T29N R06E SEC 24	*
Pre-commercial thinning	133	T29N R06E SEC 36	*
Pre-commercial thinning	3	T29N R07E SEC 01	*
Pre-commercial thinning	28	T29N R07E SEC 03	*
Pre-commercial thinning	4	T29N R07E SEC 04	*
Pre-commercial thinning	5	T29N R07E SEC 04	*
Pre-commercial thinning	89	T29N R07E SEC 04	*
Pre-commercial thinning	57	T29N R07E SEC 05	*
Pre-commercial thinning	42	T29N R07E SEC 06	*
Pre-commercial thinning	102	T29N R07E SEC 06	*
Pre-commercial thinning	55	T29N R07E SEC 07	*
Pre-commercial thinning	62	T29N R07E SEC 08	*
Pre-commercial thinning	66	T29N R07E SEC 10	*
Pre-commercial thinning	33	T29N R07E SEC 16	*
Pre-commercial thinning	53	T29N R07E SEC 24	*
Pre-commercial thinning	50	T29N R07E SEC 24	*
Pre-commercial thinning	10	T29N R07E SEC 28	*
Pre-commercial thinning	106	T29N R08E SEC 10	*
Pre-commercial thinning	33	T29N R08E SEC 12	*
Pre-commercial thinning	10	T29N R08E SEC 14	*
Pre-commercial thinning	102	T29N R09E SEC 18	*
Pre-commercial thinning	25	T29N R09E SEC 30	*
Pre-commercial thinning	19	T30N R06E SEC 12	*
Pre-commercial thinning	4	T30N R06E SEC 16	*
Pre-commercial thinning	6	T30N R07E SEC 21	*
Pre-commercial thinning	9	T30N R07E SEC 21	*
Pre-commercial thinning	179	T30N R07E SEC 27	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Pre-commercial thinning	19	T30N R07E SEC 28	*
Pre-commercial thinning	43	T30N R07E SEC 33	*
Pre-commercial thinning	56	T30N R07E SEC 33	*
Pre-commercial thinning	52	T30N R07E SEC 33	*
Pre-commercial thinning	12	T30N R07E SEC 34	*
Pre-commercial thinning	66	T30N R07E SEC 34	*
Pre-commercial thinning	35	T30N R08E SEC 07	*
Pre-commercial thinning	16	T30N R08E SEC 07	*
Pre-commercial thinning	53	T30N R08E SEC 30	*
Pre-commercial thinning	37	T32N R10E SEC 09	*
Pre-commercial thinning	39	T32N R10E SEC 09	*
Pre-commercial thinning	135	T33N R06E SEC 19	*
Pre-commercial thinning	174	T33N R10E SEC 09	*
Pre-commercial thinning	206	T33N R10E SEC 09	*
Pre-commercial thinning	140	T33N R10E SEC 11	*
Pre-commercial thinning	105	T33N R10E SEC 14	*
Pre-commercial thinning	140	T33N R10E SEC 14	*
Pre-commercial thinning	112	T33N R10E SEC 14	*
Pre-commercial thinning	5	T33N R10E SEC 16	*
Pre-commercial thinning	2	T33N R10E SEC 16	*
Pre-commercial thinning	15	T33N R10E SEC 23	*
Pre-commercial thinning	125	T33N R10E SEC 36	*
Pre-commercial thinning	16	T33N R10E SEC 36	*
Pre-commercial thinning	110	T33N R10E SEC 36	*
Pre-commercial thinning	130	T33N R10E SEC 36	*
Pre-commercial thinning	257	T33N R10E SEC 36	*
Pre-commercial thinning	40	T33N R11E SEC 18	*
Pre-commercial thinning	107	T35N R06E SEC 01	*
Pre-commercial thinning	134	T35N R06E SEC 01	*
Pre-commercial thinning	105	T35N R06E SEC 02	*
Pre-commercial thinning	114	T35N R06E SEC 02	*
Pre-commercial thinning	80	T35N R06E SEC 03	*
Pre-commercial thinning	83	T35N R06E SEC 03	*
Pre-commercial thinning	50	T35N R06E SEC 34	*
Pre-commercial thinning	137	T35N R07E SEC 06	*
Pre-commercial thinning	159	T35N R08E SEC 12	*
Pre-commercial thinning	107	T36N R04E SEC 03	*
Pre-commercial thinning	96	T36N R06E SEC 34	*
Pre-commercial thinning	124	T36N R06E SEC 36	*
Pre-commercial thinning	97	T36N R07E SEC 32	*
Pre-commercial thinning	74	T36N R07E SEC 33	*
Pre-commercial thinning	187	T36N R07E SEC 35	*
Pre-commercial thinning	16	T36N R07E SEC 35	*
Pre-commercial thinning	40	T36N R07E SEC 36	*
Pre-commercial thinning	78	T36N R08E SEC 22	*
Pre-commercial thinning	25	T37N R05E SEC 02	*
Pre-commercial thinning	25	T37N R05E SEC 02	*
Pre-commercial thinning	162	T38N R05E SEC 33	*
Pre-commercial thinning	162	T38N R05E SEC 33	*
Pre-commercial thinning	129	T39N R05E SEC 04	*
Pre-commercial thinning	74	T39N R05E SEC 05	*
Pre-commercial thinning	73	T39N R05E SEC 08	*
Pre-commercial thinning	163	T39N R05E SEC 16	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

North Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Pre-commercial thinning	166	T40N R05E SEC 04	*
Pre-commercial thinning	36	T40N R05E SEC 33	*
Tree pruning - Hand pruning	76	T26N R07E SEC 13	*
Forest fertilization - Aerial fertilization	39	T35N R06E SEC 02	2802196
Forest fertilization - Aerial fertilization	91	T35N R06E SEC 02	2802196
Forest fertilization - Aerial fertilization	151	T35N R06E SEC 03	2802196
Forest fertilization - Aerial fertilization	29	T35N R06E SEC 03	2802196
Forest fertilization - Aerial fertilization	59	T35N R06E SEC 03	2802196
Forest fertilization - Aerial fertilization	104	T36N R04E SEC 03	2802196
Forest fertilization - Aerial fertilization	312	T36N R04E SEC 03	2802196
Forest fertilization - Aerial fertilization	17	T36N R04E SEC 03	2802196
Forest fertilization - Aerial fertilization	153	T36N R04E SEC 09	2802196
Forest fertilization - Aerial fertilization	81	T36N R04E SEC 09	2802196
Forest fertilization - Aerial fertilization	116	T36N R04E SEC 10	2802196
Forest fertilization - Aerial fertilization	165	T36N R04E SEC 10	2802196
Forest fertilization - Aerial fertilization	79	T36N R04E SEC 15	2802196
Forest fertilization - Aerial fertilization	216	T36N R04E SEC 16	2802196
Forest fertilization - Aerial fertilization	190	T36N R06E SEC 26	2802196
Forest fertilization - Aerial fertilization	174	T36N R06E SEC 27	2802196
Forest fertilization - Aerial fertilization	139	T36N R06E SEC 33	2802196
Forest fertilization - Aerial fertilization	38	T36N R06E SEC 33	2802196
Forest fertilization - Aerial fertilization	32	T36N R06E SEC 33	2902196
Forest fertilization - Aerial fertilization	73	T36N R06E SEC 34	2802196
Forest fertilization - Aerial fertilization	50	T36N R06E SEC 34	2802196
Forest fertilization - Aerial fertilization	31	T36N R06E SEC 34	2802196
Forest fertilization - Aerial fertilization	14	T36N R06E SEC 34	2802196
Forest fertilization - Aerial fertilization	96	T36N R06E SEC 34	2802196
Forest fertilization - Aerial fertilization	24	T36N R06E SEC 34	2802196
Forest fertilization - Aerial fertilization	132	T36N R06E SEC 35	2802196
Forest fertilization - Aerial fertilization	40	T36N R06E SEC 35	2802196
Forest fertilization - Aerial fertilization	32	T36N R06E SEC 35	2802196
Forest fertilization - Aerial fertilization	34	T36N R06E SEC 36	2802196
Forest fertilization - Aerial fertilization	38	T36N R06E SEC 36	2802196
Forest fertilization - Aerial fertilization	139	T36N R06E SEC 36	2802196
Forest fertilization - Ground fertilization	30	T26N R07E SEC 02	*
Forest fertilization - Ground fertilization	80	T26N R07E SEC 02	*
Forest fertilization - Ground fertilization	25	T26N R07E SEC 02	*
Forest fertilization - Ground fertilization	69	T26N R07E SEC 11	*
Forest fertilization - Ground fertilization	75	T26N R07E SEC 13	*

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Disclaimer: Portions of this report were not available in their final electronic version. In some cases, missing sections were scanned. In other cases, modified draft versions, which look slightly different from the original print versions, were substituted. Although the formatting may look different from the print version of this report, in no case were the data changed in any way.

Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Olympic Experimental State Forest HCP Planning Unit			
Silvicultural Activity	Aeres	Location	FPA #
Timber harvest - Clear cut	6	T28N R14W SEC 16	2600165
Timber harvest - Clear cut	10	T28N R14W SEC 16	2600165
Timber harvest - Clear cut	14	T28N R14W SEC 16	2600165
Timber harvest - Clear cut	17	T28N R14W SEC 17	2600165
Timber harvest - Clear cut	27	T30N R12W SEC 21	2601195
Timber harvest - Clear cut	32	T30N R12W SEC 22	2601195
Timber harvest - Clear cut	9	T30N R12W SEC 28	2601118
Timber harvest - Clear cut	22	T30N R12W SEC 30	2601118
Timber harvest - Clear cut	44	T30N R12W SEC 32	2601118
Timber harvest - Clear cut	13	T30N R12W SEC 33	2601118
Timber harvest - Clear cut	4	T30N R12W SEC 34	2601118
Timber harvest - Clear cut	6	T30N R12W SEC 34	2601118
Timber harvest - Clear cut	10	T30N R13W SEC 01	0213539
Timber harvest - Clear cut	10	T30N R13W SEC 27	2600441
Timber harvest - Clear cut	31	T31N R13W SEC 36	0213539
Timber harvest - Clear cut	6	T32N R12W SEC 19	2601129
Timber harvest - Clear cut	62	T32N R12W SEC 36	2601255
Timber harvest - Clear cut	24	T32N R12W SEC 36	2601255
Timber harvest - Salvage cut	87	T30N R12W SEC 31	2601538
Timber harvest - Salvage cut	20	T30N R12W SEC 31	2601538
Timber harvest - Salvage cut	7	T30N R12W SEC 31	2601538
Timber harvest - Salvage cut	52	T30N R12W SEC 32	2601538
Timber harvest - Salvage cut	62	T30N R12W SEC 32	2601537
Timber harvest - Salvage cut	28	T30N R12W SEC 32	2601538
Timber harvest - Smallwood thinning	28	T24N R12W SEC 06	0214299
Timber harvest - Smallwood thinning	157	T25N R12W SEC 13	0214299
Timber harvest - Smallwood thinning	37	T26N R11W SEC 05	0215429
Timber harvest - Smallwood thinning	132	T26N R11W SEC 10	0215429
Timber harvest - Smallwood thinning	29	T27N R13W SEC 03	2600724
Timber harvest - Smallwood thinning	138	T27N R13W SEC 16	2600724
Timber harvest - Smallwood thinning	40	T28N R13W SEC 12	0215644
Timber harvest - Smallwood thinning	7	T28N R13W SEC 14	0215644
Timber harvest - Smallwood thinning	36	T28N R13W SEC 16	0215644
Timber harvest - Smallwood thinning	10	T28N R13W SEC 16	0215644
Timber harvest - Smallwood thinning	32	T29N R13W SEC 12	0215220
Timber harvest - Smallwood thinning	52	T29N R13W SEC 12	0215220
Timber harvest - Smallwood thinning	214	T29N R13W SEC 12	0215220
Timber harvest - Smallwood thinning	44	T29N R14W SEC 23	2602291
Timber harvest - Smallwood thinning	151	T30N R13W SEC 32	2600326
Timber harvest - Smallwood thinning	10	T30N R14W SEC 10	2600326
Timber harvest - Smallwood thinning	14	T30N R14W SEC 10	2600326
Timber harvest - Smallwood thinning	18	T30N R14W SEC 10	2600326
Timber harvest - Smallwood thinning	110	T30N R14W SEC 25	2600326
Timber harvest - Two aged management	25	T30N R13W SEC 01	0213539
Timber harvest - Two aged management	9	T32N R13W SEC 36	2601247
Timber harvest - Two aged management	15	T32N R13W SEC 36	2601247
Timber harvest - Two aged management	9	T32N R13W SEC 36	2601247
Forest site preparation - Pile and burn	1	T28N R14W SEC 16	*
Forest site preparation - Pile and burn	1	T29N R13W SEC 01	*
Forest site preparation - Pile and burn	1	T29N R13W SEC 01	*
Forest site preparation - Pile and burn	1	T29N R13W SEC 11	*
Forest site preparation - Pile and burn	1	T29N R13W SEC 11	*
Forest site preparation - Pile and burn	1	T29N R13W SEC 12	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Olympic Experimental State Forest HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Forest site preparation - Pile and burn	1	T29N R14W SEC 25	*
Forest site preparation - Pile and burn	5	T29N R14W SEC 36	*
Forest site preparation - Pile and burn	5	T30N R12W SEC 19	*
Forest site preparation - Pile and burn	1	T30N R12W SEC 19	*
Forest site preparation - Pile and burn	2	T30N R12W SEC 28	*
Forest site preparation - Pile and burn	2	T30N R12W SEC 29	*
Forest site preparation - Pile and burn	17	T30N R12W SEC 32	*
Forest site preparation - Pile and burn	1	T30N R12W SEC 35	*
Forest site preparation - Pile and burn	1	T30N R13W SEC 22	*
Forest site preparation - Pile and burn	1	T30N R13W SEC 22	*
Forest site preparation - Pile and burn	2	T30N R13W SEC 25	*
Forest site preparation - Pile and burn	5	T31N R11W SEC 16	*
Forest site preparation - Pile and burn	2	T31N R12W SEC 06	*
Forest site preparation - Pile and burn	1	T31N R13W SEC 01	*
Forest site preparation - Pile and burn	2	T31N R13W SEC 02	*
Forest site preparation - Pile and burn	1	T31N R13W SEC 02	*
Forest site preparation - Pile and burn	3	T31N R13W SEC 02	*
Forest regeneration - Hand planting	1	T24N R11W SEC 08	*
Forest regeneration - Hand planting	3	T24N R11W SEC 27	*
Forest regeneration - Hand planting	7	T24N R11W SEC 33	*
Forest regeneration - Hand planting	21	T24N R11W SEC 34	*
Forest regeneration - Hand planting	1	T24N R11W SEC 36	*
Forest regeneration - Hand planting	23	T28N R14W SEC 02	*
Forest regeneration - Hand planting	10	T28N R14W SEC 17	*
Forest regeneration - Hand planting	11	T28N R14W SEC 18	*
Forest regeneration - Hand planting	44	T29N R13W SEC 01	*
Forest regeneration - Hand planting	6	T29N R13W SEC 01	*
Forest regeneration - Hand planting	40	T29N R13W SEC 11	*
Forest regeneration - Hand planting	13	T29N R13W SEC 11	*
Forest regeneration - Hand planting	6	T29N R13W SEC 12	*
Forest regeneration - Hand planting	9	T29N R13W SEC 12	*
Forest regeneration - Hand planting	4	T30N R12W SEC 21	*
Forest regeneration - Hand planting	5	T30N R12W SEC 22	*
Forest regeneration - Hand planting	32	T30N R12W SEC 22	*
Forest regeneration - Hand planting	7	T30N R12W SEC 22	*
Forest regeneration - Hand planting	21	T30N R12W SEC 22	*
Forest regeneration - Hand planting	9	T30N R12W SEC 28	*
Forest regeneration - Hand planting	7	T30N R12W SEC 28	*
Forest regeneration - Hand planting	51	T30N R12W SEC 28	*
Forest regeneration - Hand planting	23	T30N R12W SEC 29	*
Forest regeneration - Hand planting	11	T30N R12W SEC 29	*
Forest regeneration - Hand planting	22	T30N R12W SEC 30	*
Forest regeneration - Hand planting	44	T30N R12W SEC 32	*
Forest regeneration - Hand planting	9	T30N R12W SEC 32	*
Forest regeneration - Hand planting	13	T30N R12W SEC 33	*
Forest regeneration - Hand planting	4	T30N R12W SEC 34	*
Forest regeneration - Hand planting	6	T30N R12W SEC 34	*
Forest regeneration - Hand planting	12	T30N R12W SEC 34	*
Forest regeneration - Hand planting	19	T30N R12W SEC 34	*
Forest regeneration - Hand planting	36	T30N R12W SEC 35	*
Forest regeneration - Hand planting	7	T30N R13W SEC 25	*
Forest regeneration - Hand planting	10	T30N R13W SEC 27	*
Forest regeneration - Hand planting	14	T30N R13W SEC 30	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Olympic Experimental State Forest HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Forest regeneration - Hand planting	9	T30N R13W SEC 30	*
Forest regeneration - Hand planting	21	T30N R14W SEC 19	*
Forest regeneration - Hand planting	14	T30N R14W SEC 19	*
Forest regeneration - Hand planting	20	T30N R14W SEC 19	*
Forest regeneration - Hand planting	12	T30N R14W SEC 19	*
Forest regeneration - Hand planting	33	T30N R14W SEC 25	*
Forest regeneration - Hand planting	65	T30N R14W SEC 36	*
Forest regeneration - Hand planting	21	T30N R15W SEC 25	*
Forest regeneration - Hand planting	50	T31N R11W SEC 16	*
Forest regeneration - Hand planting	76	T31N R13W SEC 01	*
Forest regeneration - Hand planting	1	T31N R13W SEC 02	*
Forest regeneration - Hand planting	61	T31N R13W SEC 02	*
Forest regeneration - Hand planting	74	T31N R13W SEC 02	*
Forest regeneration - Hand planting	11	T31N R13W SEC 02	*
Forest regeneration - Hand planting	7	T32N R13W SEC 20	*
Forest regeneration - Natural regeneration	17	T28N R13W SEC 01	*
Forest regeneration - Natural regeneration	2	T30N R12W SEC 31	*
Forest regeneration - Natural regeneration	1	T30N R12W SEC 32	*
Vegetation management - Hand cutting	5	T24N R11W SEC 24	*
Vegetation management - Hand cutting	61	T24N R11W SEC 34	*
Vegetation management - Hand cutting	12	T25N R11W SEC 36	*
Vegetation management - Hand cutting	4	T26N R10W SEC 27	*
Vegetation management - Hand cutting	41	T26N R10W SEC 27	*
Vegetation management - Hand cutting	54	T26N R11W SEC 28	*
Vegetation management - Hand cutting	10	T27N R12W SEC 21	*
Vegetation management - Hand cutting	28	T27N R12W SEC 23	*
Vegetation management - Hand cutting	19	T27N R13W SEC 23	*
Vegetation management - Hand cutting	24	T28N R13W SEC 35	*
Vegetation management - Hand cutting	58	T28N R13W SEC 36	*
Vegetation management - Hand cutting	102	T28N R13W SEC 36	*
Vegetation management - Hand cutting	2	T28N R14W SEC 17	*
Vegetation management - Hand cutting	7	T28N R14W SEC 17	*
Vegetation management - Hand cutting	17	T28N R14W SEC 17	*
Vegetation management - Hand cutting	18	T28N R14W SEC 17	*
Vegetation management - Hand cutting	7	T28N R14W SEC 17	*
Vegetation management - Hand cutting	18	T28N R14W SEC 17	*
Vegetation management - Hand cutting	40	T28N R14W SEC 17	*
Vegetation management - Hand cutting	22	T28N R14W SEC 17	*
Vegetation management - Hand cutting	30	T28N R14W SEC 17	*
Vegetation management - Hand cutting	45	T28N R14W SEC 18	*
Vegetation management - Hand cutting	10	T28N R14W SEC 18	*
Vegetation management - Hand cutting	45	T28N R14W SEC 18	*
Vegetation management - Hand cutting	41	T28N R14W SEC 19	*
Vegetation management - Hand cutting	41	T28N R14W SEC 19	*
Vegetation management - Hand cutting	23	T28N R14W SEC 26	*
Vegetation management - Hand cutting	10	T29N R13W SEC 03	*
Vegetation management - Hand cutting	10	T29N R13W SEC 03	*
Vegetation management - Hand cutting	88	T29N R14W SEC 09	*
Vegetation management - Hand cutting	20	T29N R14W SEC 09	*
Vegetation management - Hand cutting	88	T29N R14W SEC 09	*
Vegetation management - Hand cutting	52	T29N R14W SEC 17	*
Vegetation management - Hand cutting	27	T30N R12W SEC 25	*
Vegetation management - Hand cutting	27	T30N R12W SEC 25	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Olympic Experimental State Forest HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Vegetation management - Hand cutting	36	T30N R12W SEC 25	*
Vegetation management - Hand cutting	41	T30N R12W SEC 25	*
Vegetation management - Hand cutting	4	T30N R12W SEC 33	*
Vegetation management - Hand cutting	13	T31N R13W SEC 02	*
Vegetation management - Hand cutting	7	T31N R13W SEC 35	*
Vegetation management - Hand cutting	54	T32N R12W SEC 29	*
Vegetation management - Hand cutting	54	T32N R12W SEC 29	*
Vegetation management - Hand cutting	85	T32N R12W SEC 31	*
Vegetation management - Hand cutting	85	T32N R12W SEC 31	*
Vegetation management - Hand cutting	12	T32N R13W SEC 31	*
Vegetation management - Hand cutting	10	T32N R13W SEC 31	*
Vegetation management - Hand cutting	2	T32N R13W SEC 36	*
Vegetation management - Hand cutting	88	T32N R13W SEC 36	*
Vegetation management - Hand cutting	88	T32N R13W SEC 36	*
Vegetation management - Hand cutting	23	T32N R14W SEC 36	*
Vegetation management - Hand cutting	14	T32N R14W SEC 36	*
Vegetation management - Hand cutting	23	T32N R14W SEC 36	*
Pre-commercial thinning	4	T24N R11W SEC 03	*
Pre-commercial thinning	3	T24N R11W SEC 03	*
Pre-commercial thinning	63	T24N R11W SEC 04	*
Pre-commercial thinning	101	T24N R11W SEC 06	*
Pre-commercial thinning	6	T24N R11W SEC 06	*
Pre-commercial thinning	2	T24N R11W SEC 09	*
Pre-commercial thinning	5	T24N R11W SEC 09	*
Pre-commercial thinning	4	T24N R11W SEC 09	*
Pre-commercial thinning	4	T24N R11W SEC 09	*
Pre-commercial thinning	21	T24N R11W SEC 13	*
Pre-commercial thinning	13	T24N R11W SEC 14	*
Pre-commercial thinning	16	T24N R11W SEC 14	*
Pre-commercial thinning	2	T24N R11W SEC 14	*
Pre-commercial thinning	2	T24N R11W SEC 14	*
Pre-commercial thinning	1	T24N R11W SEC 14	*
Pre-commercial thinning	40	T24N R11W SEC 22	*
Pre-commercial thinning	41	T24N R11W SEC 23	*
Pre-commercial thinning	7	T24N R11W SEC 25	*
Pre-commercial thinning	20	T24N R11W SEC 25	*
Pre-commercial thinning	1	T24N R11W SEC 25	*
Pre-commercial thinning	2	T24N R11W SEC 27	*
Pre-commercial thinning	6	T24N R11W SEC 31	*
Pre-commercial thinning	10	T24N R11W SEC 32	*
Pre-commercial thinning	43	T24N R11W SEC 35	*
Pre-commercial thinning	43	T24N R11W SEC 35	*
Pre-commercial thinning	1	T24N R11W SEC 36	*
Pre-commercial thinning	4	T24N R11W SEC 36	*
Pre-commercial thinning	2	T24N R12W SEC 11	*
Pre-commercial thinning	1	T24N R12W SEC 13	*
Pre-commercial thinning	96	T25N R10W SEC 05	*
Pre-commercial thinning	96	T25N R10W SEC 06	*
Pre-commercial thinning	13	T25N R10W SEC 06	*
Pre-commercial thinning	105	T25N R10W SEC 20	*
Pre-commercial thinning	2	T25N R11W SEC 18	*
Pre-commercial thinning	181	T25N R11W SEC 26	*
Pre-commercial thinning	97	T25N R11W SEC 28	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Olympic Experimental State Forest HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Pre-commercial thinning	44	T25N R11W SEC 29	*
Pre-commercial thinning	108	T25N R11W SEC 31	*
Pre-commercial thinning	1	T25N R11W SEC 35	*
Pre-commercial thinning	2	T25N R11W SEC 35	*
Pre-commercial thinning	1	T25N R11W SEC 35	*
Pre-commercial thinning	61	T25N R12W SEC 06	*
Pre-commercial thinning	27	T25N R12W SEC 25	*
Pre-commercial thinning	126	T25N R12W SEC 36	*
Pre-commercial thinning	33	T25N R13W SEC 01	*
Pre-commercial thinning	59	T25N R13W SEC 01	*
Pre-commercial thinning	133	T25N R13W SEC 01	*
Pre-commercial thinning	99	T25N R13W SEC 15	*
Pre-commercial thinning	2	T26N R10W SEC 32	*
Pre-commercial thinning	105	T26N R10W SEC 32	*
Pre-commercial thinning	63	T26N R11W SEC 08	*
Pre-commercial thinning	117	T26N R11W SEC 11	*
Pre-commercial thinning	80	T26N R11W SEC 17	*
Pre-commercial thinning	11	T26N R11W SEC 17	*
Pre-commercial thinning	41	T26N R11W SEC 22	*
Pre-commercial thinning	87	T26N R11W SEC 22	*
Pre-commercial thinning	8	T26N R11W SEC 29	*
Pre-commercial thinning	107	T26N R12W SEC 14	*
Pre-commercial thinning	50	T27N R11W SEC 17	*
Pre-commercial thinning	156	T27N R11W SEC 20	*
Pre-commercial thinning	9	T27N R11W SEC 20	*
Pre-commercial thinning	90	T27N R11W SEC 20	*
Pre-commercial thinning	44	T27N R12W SEC 13	*
Pre-commercial thinning	4	T27N R13W SEC 06	*
Pre-commercial thinning	42	T27N R13W SEC 07	*
Pre-commercial thinning	42	T27N R13W SEC 09	*
Pre-commercial thinning	59	T27N R13W SEC 09	*
Pre-commercial thinning	117	T27N R13W SEC 17	*
Pre-commercial thinning	119	T27N R13W SEC 21	*
Pre-commercial thinning	59	T27N R13W SEC 22	*
Pre-commercial thinning	93	T27N R13W SEC 22	*
Pre-commercial thinning	140	T27N R13W SEC 26	*
Pre-commercial thinning	38	T28N R13W SEC 19	*
Pre-commercial thinning	36	T28N R13W SEC 30	*
Pre-commercial thinning	8	T28N R14W SEC 04	*
Pre-commercial thinning	40	T28N R14W SEC 15	*
Pre-commercial thinning	42	T28N R14W SEC 16	*
Pre-commercial thinning	78	T28N R14W SEC 17	*
Pre-commercial thinning	6	T28N R14W SEC 21	*
Pre-commercial thinning	13	T28N R14W SEC 21	*
Pre-commercial thinning	91	T28N R14W SEC 31	*
Pre-commercial thinning	3	T28N R15W SEC 01	*
Pre-commercial thinning	33	T28N R15W SEC 02	*
Pre-commercial thinning	3	T28N R15W SEC 04	*
Pre-commercial thinning	79	T28N R15W SEC 04	*
Pre-commercial thinning	7	T28N R15W SEC 12	*
Pre-commercial thinning	42	T29N R11W SEC 07	*
Pre-commercial thinning	35	T29N R12W SEC 05	*
Pre-commercial thinning	6	T29N R12W SEC 05	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Olympic Experimental State Forest HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Pre-commercial thinning	4	T29N R12W SEC 05	*
Pre-commercial thinning	53	T29N R12W SEC 05	*
Pre-commercial thinning	43	T29N R13W SEC 04	*
Pre-commercial thinning	46	T29N R13W SEC 04	*
Pre-commercial thinning	79	T29N R13W SEC 07	*
Pre-commercial thinning	87	T29N R13W SEC 18	*
Pre-commercial thinning	50	T29N R13W SEC 18	*
Pre-commercial thinning	5	T29N R14W SEC 09	*
Pre-commercial thinning	119	T29N R14W SEC 11	*
Pre-commercial thinning	117	T29N R14W SEC 12	*
Pre-commercial thinning	95	T29N R14W SEC 14	*
Pre-commercial thinning	70	T29N R14W SEC 17	*
Pre-commercial thinning	9	T29N R14W SEC 17	*
Pre-commercial thinning	11	T29N R14W SEC 27	*
Pre-commercial thinning	22	T29N R14W SEC 27	*
Pre-commercial thinning	33	T29N R14W SEC 27	*
Pre-commercial thinning	17	T29N R14W SEC 27	*
Pre-commercial thinning	63	T29N R14W SEC 27	*
Pre-commercial thinning	9	T29N R14W SEC 34	*
Pre-commercial thinning	34	T29N R14W SEC 34	*
Pre-commercial thinning	108	T29N R14W SEC 34	*
Pre-commercial thinning	9	T29N R14W SEC 34	*
Pre-commercial thinning	105	T29N R15W SEC 16	*
Pre-commercial thinning	100	T29N R15W SEC 16	*
Pre-commercial thinning	10	T29N R15W SEC 27	*
Pre-commercial thinning	6	T29N R15W SEC 27	*
Pre-commercial thinning	85	T29N R15W SEC 34	*
Pre-commercial thinning	5	T29N R15W SEC 34	*
Pre-commercial thinning	158	T29N R15W SEC 35	*
Pre-commercial thinning	35	T29N R15W SEC 36	*
Pre-commercial thinning	21	T29N R15W SEC 36	*
Pre-commercial thinning	21	T29N R15W SEC 36	*
Pre-commercial thinning	55	T29N R15W SEC 36	*
Pre-commercial thinning	35	T29N R15W SEC 36	*
Pre-commercial thinning	31	T29N R15W SEC 36	*
Pre-commercial thinning	12	T29N R15W SEC 36	*
Pre-commercial thinning	14	T30N R11W SEC 31	*
Pre-commercial thinning	17	T30N R11W SEC 31	*
Pre-commercial thinning	9	T30N R11W SEC 31	*
Pre-commercial thinning	41	T30N R12W SEC 18	*
Pre-commercial thinning	90	T30N R12W SEC 19	*
Pre-commercial thinning	6	T30N R12W SEC 20	*
Pre-commercial thinning	79	T30N R12W SEC 20	*
Pre-commercial thinning	8	T30N R12W SEC 20	*
Pre-commercial thinning	33	T30N R12W SEC 20	*
Pre-commercial thinning	40	T30N R12W SEC 20	*
Pre-commercial thinning	10	T30N R12W SEC 20	*
Pre-commercial thinning	79	T30N R12W SEC 20	*
Pre-commercial thinning	2	T30N R12W SEC 21	*
Pre-commercial thinning	5	T30N R12W SEC 21	*
Pre-commercial thinning	25	T30N R12W SEC 25	*
Pre-commercial thinning	12	T30N R12W SEC 25	*
Pre-commercial thinning	6	T30N R12W SEC 25	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Olympic Experimental State Forest HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Pre-commercial thinning	87	T30N R12W SEC 28	*
Pre-commercial thinning	6	T30N R12W SEC 28	*
Pre-commercial thinning	4	T30N R12W SEC 28	*
Pre-commercial thinning	4	T30N R12W SEC 33	*
Pre-commercial thinning	2	T30N R12W SEC 34	*
Pre-commercial thinning	13	T30N R12W SEC 34	*
Pre-commercial thinning	4	T30N R12W SEC 34	*
Pre-commercial thinning	8	T30N R12W SEC 34	*
Pre-commercial thinning	4	T30N R12W SEC 35	*
Pre-commercial thinning	82	T30N R12W SEC 36	*
Pre-commercial thinning	43	T30N R13W SEC 24	*
Pre-commercial thinning	32	T30N R15W SEC 02	*
Pre-commercial thinning	6	T30N R15W SEC 25	*
Pre-commercial thinning	111	T30N R15W SEC 25	*
Pre-commercial thinning	33	T30N R15W SEC 36	*
Pre-commercial thinning	67	T30N R15W SEC 36	*
Pre-commercial thinning	167	T31N R11W SEC 16	*
Pre-commercial thinning	5	T31N R12W SEC 06	*
Pre-commercial thinning	85	T31N R12W SEC 06	*
Pre-commercial thinning	33	T31N R12W SEC 09	*
Pre-commercial thinning	95	T31N R12W SEC 09	*
Pre-commercial thinning	10	T31N R13W SEC 01	*
Pre-commercial thinning	6	T31N R13W SEC 01	*
Pre-commercial thinning	4	T31N R13W SEC 01	*
Pre-commercial thinning	108	T31N R13W SEC 01	*
Pre-commercial thinning	4	T31N R13W SEC 02	*
Pre-commercial thinning	13	T31N R13W SEC 02	*
Pre-commercial thinning	5	T31N R13W SEC 02	*
Pre-commercial thinning	6	T31N R13W SEC 02	*
Pre-commercial thinning	4	T31N R13W SEC 02	*
Pre-commercial thinning	7	T31N R13W SEC 02	*
Pre-commercial thinning	5	T31N R13W SEC 02	*
Pre-commercial thinning	1	T31N R13W SEC 02	*
Pre-commercial thinning	2	T31N R13W SEC 10	*
Pre-commercial thinning	95	T31N R13W SEC 10	*
Pre-commercial thinning	18	T31N R13W SEC 10	*
Pre-commercial thinning	2	T31N R13W SEC 10	*
Pre-commercial thinning	6	T31N R13W SEC 26	*
Pre-commercial thinning	4	T31N R13W SEC 26	*
Pre-commercial thinning	110	T31N R13W SEC 26	*
Pre-commercial thinning	23	T31N R13W SEC 26	*
Pre-commercial thinning	6	T31N R13W SEC 26	*
Pre-commercial thinning	51	T31N R13W SEC 26	*
Pre-commercial thinning	7	T31N R13W SEC 35	*
Pre-commercial thinning	7	T31N R13W SEC 35	*
Pre-commercial thinning	37	T31N R13W SEC 36	*
Pre-commercial thinning	31	T32N R12W SEC 29	*
Pre-commercial thinning	29	T32N R13W SEC 18	*
Pre-commercial thinning	5	T32N R13W SEC 26	*
Pre-commercial thinning	124	T32N R13W SEC 29	*
Pre-commercial thinning	3	T32N R13W SEC 35	*
Pre-commercial thinning	3	T32N R13W SEC 35	*
Pre-commercial thinning	8	T32N R14W SEC 36	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Olympic Experimental State Forest HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Pre-commercial thinning	14	T32N R14W SEC 36	*
Pre-commercial thinning	4	T32N R14W SEC 36	*
Pre-commercial thinning	5	T32N R14W SEC 36	*
Pre-commercial thinning	5	T32N R14W SEC 36	*
Pre-commercial thinning	4	T32N R14W SEC 36	*
Tree pruning - Hand pruning	15	T30N R12W SEC 35	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Coast HCP Planning Unit			
Silvicultural Activity	Aeres	Location	FPA #
Timber harvest - Clear cut	1	T10N R08W SEC 02	1121755
Timber harvest - Clear cut	36	T13N R05W SEC 17	2500462
Timber harvest - Clear cut	29	T13N R05W SEC 19	2501479
Timber harvest - Clear cut	26	T13N R05W SEC 19	2501479
Timber harvest - Clear cut	25	T13N R05W SEC 20	2501479
Timber harvest - Clear cut	20	T13N R05W SEC 29	2501536
Timber harvest - Clear cut	15	T13N R05W SEC 29	2501536
Timber harvest - Clear cut	34	T13N R05W SEC 30	2500409
Timber harvest - Clear cut	24	T13N R05W SEC 30	2500753
Timber harvest - Clear cut	25	T13N R06W SEC 12	2501791
Timber harvest - Clear cut	63	T13N R06W SEC 14	0435108
Timber harvest - Clear cut	48	T13N R06W SEC 14	0435108
Timber harvest - Clear cut	8	T13N R06W SEC 21	2504092
Timber harvest - Clear cut	70	T13N R06W SEC 22	0435108
Timber harvest - Clear cut	19	T13N R06W SEC 24	2502866
Timber harvest - Clear cut	31	T13N R06W SEC 25	2503220
Timber harvest - Clear cut	22	T13N R06W SEC 25	2503220
Timber harvest - Clear cut	23	T13N R06W SEC 25	2500753
Timber harvest - Clear cut	17	T13N R06W SEC 25	2503220
Timber harvest - Clear cut	53	T13N R07W SEC 03	0435051
Timber harvest - Clear cut	60	T13N R07W SEC 03	0435051
Timber harvest - Clear cut	44	T13N R08W SEC 18	0429489
Timber harvest - Clear cut	38	T14N R02W SEC 36	2500365
Timber harvest - Clear cut	63	T14N R03W SEC 14	2501140
Timber harvest - Clear cut	32	T14N R05W SEC 01	2501860
Timber harvest - Clear cut	46	T14N R05W SEC 02	0434075
Timber harvest - Clear cut	41	T14N R05W SEC 02	0434075
Timber harvest - Clear cut	26	T14N R05W SEC 11	2500360
Timber harvest - Clear cut	58	T14N R05W SEC 14	2500682
Timber harvest - Clear cut	36	T14N R05W SEC 14	2500682
Timber harvest - Clear cut	36	T14N R05W SEC 22	2500653
Timber harvest - Clear cut	22	T14N R05W SEC 22	2500653
Timber harvest - Clear cut	38	T14N R05W SEC 27	0432675
Timber harvest - Clear cut	78	T15N R01E SEC 05	2503275
Timber harvest - Clear cut	70	T16N R04W SEC 02	0434655
Timber harvest - Clear cut	48	T16N R04W SEC 07	2500546
Timber harvest - Clear cut	39	T16N R04W SEC 13	2503250
Timber harvest - Clear cut	46	T16N R04W SEC 18	2500258
Timber harvest - Clear cut	8	T16N R04W SEC 19	2500258
Timber harvest - Clear cut	47	T16N R05W SEC 11	0433385
Timber harvest - Clear cut	46	T16N R05W SEC 11	0433385
Timber harvest - Clear cut	54	T16N R05W SEC 28	0435423
Timber harvest - Clear cut	20	T16N R05W SEC 31	0433733
Timber harvest - Clear cut	39	T16N R05W SEC 31	0433733
Timber harvest - Clear cut	32	T17N R03W SEC 17	2500742
Timber harvest - Clear cut	15	T17N R03W SEC 18	0434961
Timber harvest - Clear cut	19	T17N R03W SEC 19	0434961
Timber harvest - Clear cut	55	T17N R03W SEC 20	2502392
Timber harvest - Clear cut	38	T17N R03W SEC 30	2500570
Timber harvest - Clear cut	38	T17N R03W SEC 30	2500570
Timber harvest - Clear cut	76	T17N R04W SEC 07	2504425
Timber harvest - Clear cut	44	T17N R04W SEC 23	2502064
Timber harvest - Clear cut	38	T17N R04W SEC 23	2502064

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Coast HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Clear cut	66	T17N R04W SEC 27	2503359
Timber harvest - Clear cut	43	T17N R04W SEC 34	0431922
Timber harvest - Clear cut	43	T17N R04W SEC 34	0433176
Timber harvest - Clear cut	42	T17N R04W SEC 35	0431922
Timber harvest - Clear cut	42	T17N R04W SEC 35	0433176
Timber harvest - Clear cut	58	T17N R05W SEC 01	2501301
Timber harvest - Clear cut	18	T17N R05W SEC 11	2501875
Timber harvest - Clear cut	27	T17N R05W SEC 24	2501477
Timber harvest - Clear cut	41	T17N R05W SEC 24	2501477
Timber harvest - Clear cut	72	T17N R06W SEC 36	0434827
Timber harvest - Clear cut	49	T18N R04W SEC 19	2501508
Timber harvest - Clear cut	60	T18N R04W SEC 19	2501508
Timber harvest - Clear cut	67	T18N R04W SEC 29	2500407
Timber harvest - Clear cut	67	T18N R04W SEC 29	2500407
Timber harvest - Clear cut	51	T18N R04W SEC 35	0433039
Timber harvest - Clear cut	51	T18N R04W SEC 35	0433039
Timber harvest - Clear cut	27	T18N R05W SEC 26	0433396
Timber harvest - Clear cut	2	T18N R05W SEC 26	0433396
Timber harvest - Clear cut	79	T18N R05W SEC 36	2500677
Timber harvest - Clear cut	22	T18N R06W SEC 36	0433289
Timber harvest - Clear cut	73	T20N R11W SEC 36	0212483
Timber harvest - Clear cut	3	T20N R12W SEC 36	2601122
Timber harvest - Clear cut	5	T20N R12W SEC 36	2601122
Timber harvest - Clear cut	2	T20N R12W SEC 36	2601122
Timber harvest - Clear cut	68	T21N R10W SEC 36	2601110
Timber harvest - Salvage cut	45	T11N R09W SEC 33	2502986
Timber harvest - Selective product logging	49	T14N R03W SEC 19	2501818
Timber harvest - Shelterwood intermediate cut	3	T18N R04W SEC 25	0432722
Timber harvest - Smallwood thinning	382	T13N R09W SEC 36	0433991
Forest site preparation - Aerial herbicide	140	T14N R03W SEC 08	2503948
Forest site preparation - Pile and burn	4	T13N R05W SEC 16	*
Forest site preparation - Pile and burn	2	T13N R05W SEC 16	*
Forest site preparation - Pile and burn	2	T13N R05W SEC 16	*
Forest site preparation - Pile and burn	4	T13N R05W SEC 17	*
Forest site preparation - Pile and burn	3	T13N R05W SEC 29	*
Forest site preparation - Pile and burn	1	T13N R05W SEC 30	*
Forest site preparation - Pile and burn	2	T13N R06W SEC 12	*
Forest site preparation - Pile and burn	3	T13N R06W SEC 13	*
Forest site preparation - Pile and burn	5	T13N R06W SEC 13	*
Forest site preparation - Pile and burn	5	T13N R06W SEC 13	*
Forest site preparation - Pile and burn	1	T13N R06W SEC 13	*
Forest site preparation - Pile and burn	4	T14N R05W SEC 02	*
Forest site preparation - Pile and burn	4	T14N R05W SEC 02	*
Forest site preparation - Pile and burn	5	T14N R05W SEC 02	*
Forest site preparation - Pile and burn	4	T14N R05W SEC 03	*
Forest site preparation - Pile and burn	41	T14N R05W SEC 11	*
Forest site preparation - Pile and burn	2	T14N R05W SEC 22	*
Forest site preparation - Pile and burn	2	T14N R05W SEC 22	*
Forest site preparation - Pile and burn	2	T14N R05W SEC 27	*
Forest site preparation - Pile and burn	1	T15N R05W SEC 34	*
Forest site preparation - Pile and burn	7	T15N R05W SEC 36	*
Forest regeneration - Hand planting	1	T10N R08W SEC 02	*
Forest regeneration - Hand planting	43	T11N R09W SEC 33	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Coast HCP Planning Unit			
Silvicultural Activity	Aeres	Location	FPA #
Forest regeneration - Hand planting	8	T12N R03W SEC 22	*
Forest regeneration - Hand planting	27	T12N R08W SEC 03	*
Forest regeneration - Hand planting	62	T12N R08W SEC 04	*
Forest regeneration - Hand planting	35	T12N R08W SEC 04	*
Forest regeneration - Hand planting	16	T13N R02W SEC 01	*
Forest regeneration - Hand planting	38	T13N R02W SEC 01	*
Forest regeneration - Hand planting	7	T13N R02W SEC 01	*
Forest regeneration - Hand planting	24	T13N R05W SEC 16	*
Forest regeneration - Hand planting	25	T13N R05W SEC 16	*
Forest regeneration - Hand planting	28	T13N R05W SEC 16	*
Forest regeneration - Hand planting	9	T13N R05W SEC 17	*
Forest regeneration - Hand planting	36	T13N R05W SEC 17	*
Forest regeneration - Hand planting	26	T13N R05W SEC 19	*
Forest regeneration - Hand planting	29	T13N R05W SEC 19	*
Forest regeneration - Hand planting	25	T13N R05W SEC 20	*
Forest regeneration - Hand planting	17	T13N R05W SEC 29	*
Forest regeneration - Hand planting	20	T13N R05W SEC 29	*
Forest regeneration - Hand planting	34	T13N R05W SEC 30	*
Forest regeneration - Hand planting	24	T13N R05W SEC 30	*
Forest regeneration - Hand planting	19	T13N R06W SEC 12	*
Forest regeneration - Hand planting	25	T13N R06W SEC 13	*
Forest regeneration - Hand planting	13	T13N R06W SEC 13	*
Forest regeneration - Hand planting	23	T13N R06W SEC 25	*
Forest regeneration - Hand planting	22	T13N R06W SEC 25	*
Forest regeneration - Hand planting	17	T13N R06W SEC 25	*
Forest regeneration - Hand planting	53	T13N R07W SEC 03	*
Forest regeneration - Hand planting	99	T13N R08W SEC 16	*
Forest regeneration - Hand planting	9	T13N R08W SEC 29	*
Forest regeneration - Hand planting	21	T13N R08W SEC 29	*
Forest regeneration - Hand planting	48	T13N R08W SEC 29	*
Forest regeneration - Hand planting	15	T13N R08W SEC 29	*
Forest regeneration - Hand planting	42	T14N R02W SEC 36	*
Forest regeneration - Hand planting	94	T14N R02W SEC 36	*
Forest regeneration - Hand planting	3	T14N R03W SEC 06	*
Forest regeneration - Hand planting	159	T14N R03W SEC 08	*
Forest regeneration - Hand planting	63	T14N R03W SEC 14	*
Forest regeneration - Hand planting	4	T14N R04W SEC 01	*
Forest regeneration - Hand planting	32	T14N R05W SEC 01	*
Forest regeneration - Hand planting	29	T14N R05W SEC 02	*
Forest regeneration - Hand planting	46	T14N R05W SEC 02	*
Forest regeneration - Hand planting	50	T14N R05W SEC 02	*
Forest regeneration - Hand planting	41	T14N R05W SEC 03	*
Forest regeneration - Hand planting	46	T14N R05W SEC 10	*
Forest regeneration - Hand planting	26	T14N R05W SEC 11	*
Forest regeneration - Hand planting	41	T14N R05W SEC 11	*
Forest regeneration - Hand planting	58	T14N R05W SEC 14	*
Forest regeneration - Hand planting	36	T14N R05W SEC 14	*
Forest regeneration - Hand planting	22	T14N R05W SEC 22	*
Forest regeneration - Hand planting	36	T14N R05W SEC 22	*
Forest regeneration - Hand planting	38	T14N R05W SEC 27	*
Forest regeneration - Hand planting	37	T15N R05W SEC 34	*
Forest regeneration - Hand planting	30	T15N R05W SEC 36	*
Forest regeneration - Hand planting	58	T16N R01W SEC 34	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Coast HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Forest regeneration - Hand planting	42	T16N R04W SEC 01	*
Forest regeneration - Hand planting	36	T16N R04W SEC 02	*
Forest regeneration - Hand planting	2	T16N R04W SEC 02	*
Forest regeneration - Hand planting	2	T16N R04W SEC 02	*
Forest regeneration - Hand planting	67	T16N R04W SEC 02	*
Forest regeneration - Hand planting	2	T16N R04W SEC 02	*
Forest regeneration - Hand planting	48	T16N R04W SEC 07	*
Forest regeneration - Hand planting	40	T16N R04W SEC 12	*
Forest regeneration - Hand planting	36	T16N R04W SEC 13	*
Forest regeneration - Hand planting	22	T16N R04W SEC 14	*
Forest regeneration - Hand planting	1	T16N R04W SEC 19	*
Forest regeneration - Hand planting	27	T16N R04W SEC 22	*
Forest regeneration - Hand planting	44	T16N R04W SEC 23	*
Forest regeneration - Hand planting	48	T16N R04W SEC 23	*
Forest regeneration - Hand planting	6	T16N R04W SEC 28	*
Forest regeneration - Hand planting	1	T16N R05W SEC 11	*
Forest regeneration - Hand planting	44	T17N R03W SEC 07	*
Forest regeneration - Hand planting	34	T17N R03W SEC 16	*
Forest regeneration - Hand planting	32	T17N R03W SEC 17	*
Forest regeneration - Hand planting	10	T17N R03W SEC 18	*
Forest regeneration - Hand planting	19	T17N R03W SEC 19	*
Forest regeneration - Hand planting	47	T17N R03W SEC 28	*
Forest regeneration - Hand planting	38	T17N R03W SEC 30	*
Forest regeneration - Hand planting	19	T17N R03W SEC 33	*
Forest regeneration - Hand planting	76	T17N R04W SEC 07	*
Forest regeneration - Hand planting	2	T17N R04W SEC 12	*
Forest regeneration - Hand planting	5	T17N R04W SEC 13	*
Forest regeneration - Hand planting	5	T17N R04W SEC 27	*
Forest regeneration - Hand planting	53	T17N R05W SEC 01	*
Forest regeneration - Hand planting	27	T17N R05W SEC 24	*
Forest regeneration - Hand planting	43	T17N R06W SEC 36	*
Forest regeneration - Hand planting	60	T18N R04W SEC 19	*
Forest regeneration - Hand planting	2	T18N R04W SEC 25	*
Forest regeneration - Hand planting	66	T18N R04W SEC 29	*
Forest regeneration - Hand planting	9	T18N R04W SEC 29	*
Forest regeneration - Hand planting	51	T18N R04W SEC 35	*
Forest regeneration - Hand planting	3	T18N R04W SEC 36	*
Forest regeneration - Hand planting	76	T18N R05W SEC 36	*
Forest regeneration - Hand planting	1	T20N R12W SEC 26	*
Forest regeneration - Hand planting	3	T20N R12W SEC 36	*
Forest regeneration - Hand planting	5	T20N R12W SEC 36	*
Forest regeneration - Hand planting	2	T20N R12W SEC 36	*
Forest regeneration - Hand planting	68	T21N R10W SEC 36	*
Vegetation management - Aerial herbicide	81	T13N R04W SEC 16	2503935
Vegetation management - Aerial herbicide	49	T14N R05W SEC 11	2503935
Vegetation management - Aerial herbicide	24	T15N R02W SEC 16	2503935
Vegetation management - Aerial herbicide	92	T15N R02W SEC 16	2503935
Vegetation management - Aerial herbicide	38	T15N R02W SEC 16	2503935
Vegetation management - Aerial herbicide	11	T15N R02W SEC 17	2503935
Vegetation management - Aerial herbicide	44	T15N R02W SEC 18	2503935
Vegetation management - Aerial herbicide	191	T15N R04W SEC 31	2503935
Vegetation management - Ground herbicide	19	T13N R05W SEC 19	*
Vegetation management - Ground herbicide	31	T13N R05W SEC 19	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Coast HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Vegetation management - Ground herbicide	49	T13N R05W SEC 20	*
Vegetation management - Ground herbicide	33	T13N R05W SEC 20	*
Vegetation management - Ground herbicide	21	T13N R05W SEC 20	*
Vegetation management - Ground herbicide	7	T13N R05W SEC 21	*
Vegetation management - Ground herbicide	70	T15N R04W SEC 36	*
Vegetation management - Ground herbicide	40	T15N R05W SEC 36	*
Vegetation management - Ground herbicide	70	T16N R01W SEC 35	*
Vegetation management - Ground herbicide	71	T16N R04W SEC 08	*
Vegetation management - Ground herbicide	42	T16N R04W SEC 08	*
Vegetation management - Ground herbicide	46	T16N R05W SEC 11	*
Vegetation management - Ground herbicide	3	T18N R04W SEC 25	*
Vegetation management - Hand cutting	34	T10N R08W SEC 02	*
Vegetation management - Hand cutting	6	T10N R09W SEC 03	*
Vegetation management - Hand cutting	43	T10N R10W SEC 36	*
Vegetation management - Hand cutting	50	T10N R10W SEC 36	*
Vegetation management - Hand cutting	18	T11N R08W SEC 24	*
Vegetation management - Hand cutting	98	T11N R08W SEC 24	*
Vegetation management - Hand cutting	27	T11N R08W SEC 26	*
Vegetation management - Hand cutting	25	T11N R08W SEC 26	*
Vegetation management - Hand cutting	4	T11N R09W SEC 32	*
Vegetation management - Hand cutting	7	T11N R09W SEC 32	*
Vegetation management - Hand cutting	100	T11N R09W SEC 32	*
Vegetation management - Hand cutting	11	T11N R09W SEC 32	*
Vegetation management - Hand cutting	55	T11N R10W SEC 16	*
Vegetation management - Hand cutting	45	T12N R06W SEC 03	*
Vegetation management - Hand cutting	81	T13N R05W SEC 29	*
Vegetation management - Hand cutting	30	T13N R05W SEC 30	*
Vegetation management - Hand cutting	83	T13N R06W SEC 25	*
Vegetation management - Hand cutting	44	T13N R06W SEC 32	*
Vegetation management - Hand cutting	10	T13N R06W SEC 35	*
Vegetation management - Hand cutting	75	T13N R06W SEC 35	*
Vegetation management - Hand cutting	8	T13N R06W SEC 35	*
Vegetation management - Hand cutting	50	T13N R06W SEC 35	*
Vegetation management - Hand cutting	9	T13N R07W SEC 24	*
Vegetation management - Hand cutting	9	T13N R08W SEC 22	*
Vegetation management - Hand cutting	8	T13N R08W SEC 22	*
Vegetation management - Hand cutting	87	T14N R05W SEC 27	*
Vegetation management - Hand cutting	34	T14N R05W SEC 27	*
Vegetation management - Hand cutting	6	T16N R03W SEC 03	*
Vegetation management - Hand cutting	123	T16N R03W SEC 03	*
Vegetation management - Hand cutting	9	T16N R03W SEC 18	*
Vegetation management - Hand cutting	30	T16N R03W SEC 19	*
Vegetation management - Hand cutting	126	T16N R03W SEC 19	*
Vegetation management - Hand cutting	9	T16N R03W SEC 19	*
Vegetation management - Hand cutting	77	T16N R04W SEC 08	*
Vegetation management - Hand cutting	64	T16N R04W SEC 20	*
Vegetation management - Hand cutting	74	T16N R04W SEC 27	*
Vegetation management - Hand cutting	31	T16N R05W SEC 13	*
Vegetation management - Hand cutting	5	T16N R05W SEC 13	*
Vegetation management - Hand cutting	77	T16N R06W SEC 12	*
Vegetation management - Hand cutting	64	T17N R03W SEC 29	*
Vegetation management - Hand cutting	43	T17N R03W SEC 31	*
Vegetation management - Hand cutting	44	T17N R05W SEC 32	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Coast HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Vegetation management - Hand cutting	59	T18N R04W SEC 19	*
Vegetation management - Hand cutting	29	T18N R05W SEC 35	*
Vegetation management - Hand cutting	43	T18N R05W SEC 35	*
Vegetation management - Hand cutting	8	T20N R10W SEC 16	*
Vegetation management - Hand cutting	57	T21N R09W SEC 16	*
Vegetation management - Hand cutting	28	T21N R10W SEC 36	*
Pre-commercial thinning	7	T11N R08W SEC 21	*
Pre-commercial thinning	100	T11N R08W SEC 34	*
Pre-commercial thinning	60	T11N R09W SEC 06	*
Pre-commercial thinning	15	T11N R09W SEC 18	*
Pre-commercial thinning	6	T11N R09W SEC 19	*
Pre-commercial thinning	68	T11N R10W SEC 36	*
Pre-commercial thinning	295	T13N R07W SEC 22	*
Pre-commercial thinning	34	T14N R05W SEC 27	*
Pre-commercial thinning	12	T15N R04W SEC 09	*
Pre-commercial thinning	58	T15N R04W SEC 10	*
Pre-commercial thinning	333	T15N R04W SEC 17	*
Pre-commercial thinning	49	T16N R04W SEC 08	*
Pre-commercial thinning	34	T16N R04W SEC 13	*
Pre-commercial thinning	9	T16N R04W SEC 13	*
Pre-commercial thinning	47	T16N R04W SEC 13	*
Pre-commercial thinning	40	T16N R05W SEC 27	*
Pre-commercial thinning	85	T17N R04W SEC 05	*
Pre-commercial thinning	113	T17N R04W SEC 06	*
Pre-commercial thinning	10	T17N R05W SEC 01	*
Pre-commercial thinning	15	T17N R05W SEC 14	*
Pre-commercial thinning	33	T17N R05W SEC 14	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Puget HCP Planning Unit			
Silvicultural Activity	Acre	Location	FPA #
Timber harvest - Clear cut	35	T13N R06E SEC 04	0923234
Timber harvest - Clear cut	48	T14N R06E SEC 02	2402304
Timber harvest - Clear cut	43	T15N R06E SEC 34	2402817
Timber harvest - Clear cut	73	T16N R01E SEC 16	2501436
Timber harvest - Clear cut	36	T16N R05E SEC 33	2401148
Timber harvest - Clear cut	48	T16N R05E SEC 33	2401148
Timber harvest - Clear cut	46	T16N R05E SEC 35	0918776
Timber harvest - Clear cut	51	T16N R05E SEC 35	0918776
Timber harvest - Clear cut	41	T18N R03W SEC 26	2501699
Timber harvest - Clear cut	41	T18N R03W SEC 26	2501699
Timber harvest - Clear cut	22	T19N R06E SEC 16	0926117
Timber harvest - Clear cut	39	T19N R06E SEC 16	0926117
Timber harvest - Clear cut	19	T21N R04W SEC 22	2404786
Timber harvest - Clear cut	5	T23N R02W SEC 21	2404463
Timber harvest - Clear cut	98	T23N R02W SEC 22	2404463
Timber harvest - Clear cut	15	T23N R02W SEC 26	2405200
Timber harvest - Clear cut	52	T23N R02W SEC 27	2404333
Timber harvest - Clear cut	43	T23N R02W SEC 35	2405200
Timber harvest - Clear cut	57	T23N R02W SEC 36	2404331
Timber harvest - Clear cut	28	T23N R06E SEC 11	0920874
Timber harvest - Clear cut	3	T23N R07E SEC 17	0920874
Timber harvest - Clear cut	7	T23N R07E SEC 17	0920874
Timber harvest - Clear cut	3	T23N R07E SEC 17	0920874
Timber harvest - Clear cut	1	T24N R01W SEC 03	2405201
Timber harvest - Clear cut	1	T24N R01W SEC 03	2405201
Timber harvest - Clear cut	2	T24N R01W SEC 03	2405201
Timber harvest - Clear cut	45	T24N R01W SEC 03	2405201
Timber harvest - Clear cut	44	T24N R01W SEC 20	2404696
Timber harvest - Clear cut	25	T24N R02W SEC 02	2404727
Timber harvest - Clear cut	45	T24N R02W SEC 11	2404727
Timber harvest - Clear cut	16	T24N R02W SEC 13	2404727
Timber harvest - Clear cut	26	T25N R01E SEC 16	2403499
Timber harvest - Selective product logging	18	T15N R06E SEC 19	2402040
Timber harvest - Selective product logging	42	T15N R06E SEC 20	2402040
Timber harvest - Selective product logging	8	T24N R01W SEC 03	2405201
Timber harvest - Selective product logging	7	T24N R01W SEC 03	2405201
Timber harvest - Selective product logging	21	T24N R01W SEC 04	2404371
Timber harvest - Selective product logging	19	T24N R01W SEC 04	2404371
Timber harvest - Selective product logging	28	T24N R01W SEC 04	2404371
Timber harvest - Selective product logging	4	T24N R01W SEC 06	2404371
Timber harvest - Selective product logging	7	T25N R01W SEC 30	2404371
Timber harvest - Selective product logging	47	T25N R01W SEC 30	2404371
Timber harvest - Selective product logging	6	T25N R01W SEC 31	2404371
Timber harvest - Selective product logging	13	T25N R01W SEC 31	2404371
Timber harvest - Shelterwood intermediate cut	52	T18N R04W SEC 25	0432722
Timber harvest - Two aged management	24	T21N R01W SEC 24	2404006
Timber harvest - Two aged management	20	T24N R01W SEC 03	2405201
Forest regeneration - Hand planting	81	T16N R01E SEC 11	*
Forest regeneration - Hand planting	73	T16N R01E SEC 16	*
Forest regeneration - Hand planting	27	T16N R04E SEC 16	*
Forest regeneration - Hand planting	8	T16N R04E SEC 16	*
Forest regeneration - Hand planting	48	T16N R04E SEC 16	*
Forest regeneration - Hand planting	48	T16N R05E SEC 33	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Forest regeneration - Hand planting	36	T16N R05E SEC 33	*
Forest regeneration - Hand planting	6	T18N R03W SEC 14	*
Forest regeneration - Hand planting	14	T18N R03W SEC 14	*
Forest regeneration - Hand planting	17	T18N R03W SEC 19	*
Forest regeneration - Hand planting	41	T18N R03W SEC 26	*
Forest regeneration - Hand planting	9	T18N R04W SEC 13	*
Forest regeneration - Hand planting	8	T18N R04W SEC 23	*
Forest regeneration - Hand planting	26	T18N R04W SEC 25	*
Forest regeneration - Hand planting	39	T19N R06E SEC 16	*
Forest regeneration - Hand planting	22	T19N R06E SEC 16	*
Forest regeneration - Hand planting	15	T20N R08E SEC 03	*
Forest regeneration - Hand planting	10	T21N R07E SEC 20	*
Forest regeneration - Hand planting	70	T21N R07E SEC 20	*
Forest regeneration - Hand planting	21	T21N R08E SEC 17	*
Forest regeneration - Hand planting	63	T22N R03W SEC 21	*
Forest regeneration - Hand planting	50	T22N R03W SEC 21	*
Forest regeneration - Hand planting	11	T23N R02W SEC 14	*
Forest regeneration - Hand planting	3	T23N R02W SEC 14	*
Forest regeneration - Hand planting	3	T23N R02W SEC 14	*
Forest regeneration - Hand planting	4	T23N R02W SEC 21	*
Forest regeneration - Hand planting	98	T23N R02W SEC 22	*
Forest regeneration - Hand planting	52	T23N R02W SEC 27	*
Forest regeneration - Hand planting	9	T23N R02W SEC 32	*
Forest regeneration - Hand planting	3	T23N R07E SEC 17	*
Forest regeneration - Hand planting	8	T23N R07E SEC 17	*
Forest regeneration - Hand planting	3	T23N R07E SEC 17	*
Forest regeneration - Hand planting	55	T24N R01W SEC 15	*
Forest regeneration - Hand planting	6	T24N R02W SEC 10	*
Vegetation management - Aerial herbicide	27	T15N R05E SEC 19	2503948
Vegetation management - Ground herbicide	68	T18N R03W SEC 21	*
Vegetation management - Ground herbicide	33	T18N R03W SEC 22	*
Vegetation management - Ground herbicide	69	T18N R04W SEC 14	*
Vegetation management - Ground herbicide	52	T18N R04W SEC 25	*
Vegetation management - Hand cutting	23	T14N R06E SEC 04	*
Vegetation management - Hand cutting	64	T14N R06E SEC 04	*
Vegetation management - Hand cutting	64	T14N R06E SEC 04	*
Vegetation management - Hand cutting	99	T14N R06E SEC 04	*
Vegetation management - Hand cutting	99	T14N R06E SEC 04	*
Vegetation management - Hand cutting	28	T14N R06E SEC 04	*
Vegetation management - Hand cutting	25	T14N R06E SEC 04	*
Vegetation management - Hand cutting	28	T14N R06E SEC 04	*
Vegetation management - Hand cutting	88	T15N R05E SEC 13	*
Vegetation management - Hand cutting	88	T15N R05E SEC 13	*
Vegetation management - Hand cutting	85	T15N R05E SEC 21	*
Vegetation management - Hand cutting	85	T15N R05E SEC 21	*
Vegetation management - Hand cutting	5	T18N R03W SEC 04	*
Vegetation management - Hand cutting	63	T18N R03W SEC 16	*
Vegetation management - Hand cutting	30	T18N R03W SEC 35	*
Vegetation management - Hand cutting	56	T18N R04W SEC 14	*
Vegetation management - Hand cutting	70	T18N R04W SEC 24	*
Vegetation management - Hand cutting	23	T21N R08E SEC 07	*
Vegetation management - Hand cutting	49	T22N R01W SEC 16	*
Vegetation management - Hand cutting	10	T22N R03W SEC 13	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

South Puget HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Vegetation management - Hand cutting	28	T23N R01W SEC 19	*
Vegetation management - Hand cutting	5	T23N R01W SEC 19	*
Vegetation management - Hand cutting	10	T23N R02W SEC 34	*
Vegetation management - Hand cutting	3	T23N R03W SEC 36	*
Vegetation management - Hand cutting	45	T23N R03W SEC 36	*
Vegetation management - Hand cutting	34	T23N R03W SEC 36	*
Vegetation management - Hand cutting	20	T23N R03W SEC 36	*
Vegetation management - Hand cutting	56	T27N R02E SEC 11	*
Pre-commercial thinning	38	T15N R06E SEC 16	*
Pre-commercial thinning	162	T15N R06E SEC 16	*
Pre-commercial thinning	162	T15N R06E SEC 16	*
Pre-commercial thinning	41	T15N R06E SEC 16	*
Pre-commercial thinning	41	T15N R06E SEC 16	*
Pre-commercial thinning	54	T20N R07E SEC 12	*
Pre-commercial thinning	3	T20N R08E SEC 02	*
Pre-commercial thinning	93	T20N R08E SEC 10	*
Pre-commercial thinning	30	T20N R08E SEC 10	*
Pre-commercial thinning	4	T22N R03W SEC 08	*
Pre-commercial thinning	10	T22N R03W SEC 08	*
Pre-commercial thinning	25	T22N R03W SEC 08	*
Pre-commercial thinning	84	T24N R01W SEC 12	*
Pre-commercial thinning	5	T24N R01W SEC 12	*
Pre-commercial thinning	30	T24N R02W SEC 12	*
Pre-commercial thinning	21	T24N R02W SEC 13	*
Pre-commercial thinning	18	T24N R02W SEC 13	*
Pre-commercial thinning	40	T24N R02W SEC 15	*
Pre-commercial thinning	43	T24N R02W SEC 15	*
Forest fertilization - Aerial fertilization	35	T22N R02W SEC 03	2405607
Forest fertilization - Aerial fertilization	798	T22N R02W SEC 04	2405607
Forest fertilization - Aerial fertilization	375	T22N R02W SEC 07	2405607
Forest fertilization - Aerial fertilization	78	T22N R02W SEC 09	2405607
Forest fertilization - Aerial fertilization	242	T23N R01W SEC 18	2405607
Forest fertilization - Aerial fertilization	60	T23N R01W SEC 19	2405607
Forest fertilization - Aerial fertilization	30	T23N R01W SEC 19	2405607
Forest fertilization - Aerial fertilization	198	T23N R01W SEC 19	2405607
Forest fertilization - Aerial fertilization	292	T23N R02W SEC 20	2405607
Forest fertilization - Aerial fertilization	422	T23N R02W SEC 23	2405607
Forest fertilization - Aerial fertilization	650	T23N R02W SEC 25	2405607
Forest fertilization - Aerial fertilization	247	T23N R02W SEC 27	2405607
Forest fertilization - Aerial fertilization	375	T23N R02W SEC 28	2405607
Forest fertilization - Aerial fertilization	95	T23N R02W SEC 33	2405607
Forest fertilization - Aerial fertilization	160	T23N R02W SEC 34	2405607
Forest fertilization - Aerial fertilization	78	T23N R02W SEC 35	2405607
Forest fertilization - Aerial fertilization	19	T23N R02W SEC 35	2405607
Forest fertilization - Aerial fertilization	40	T23N R02W SEC 35	2405607

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Straits HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Clear cut	9	T21N R04W SEC 22	2404786
Timber harvest - Clear cut	14	T21N R04W SEC 22	2404786
Timber harvest - Clear cut	18	T21N R04W SEC 22	2404786
Timber harvest - Clear cut	45	T21N R04W SEC 22	2404786
Timber harvest - Clear cut	77	T23N R04W SEC 11	2403725
Timber harvest - Clear cut	93	T23N R04W SEC 16	2404926
Timber harvest - Clear cut	66	T23N R04W SEC 21	2404609
Timber harvest - Clear cut	86	T23N R04W SEC 25	2404467
Timber harvest - Clear cut	42	T24N R03W SEC 02	2404269
Timber harvest - Clear cut	13	T24N R03W SEC 03	2404269
Timber harvest - Clear cut	73	T24N R03W SEC 15	2404269
Timber harvest - Clear cut	74	T26N R01W SEC 28	2600370
Timber harvest - Clear cut	44	T27N R01W SEC 27	2601614
Timber harvest - Clear cut	24	T27N R01W SEC 27	2601244
Timber harvest - Clear cut	3	T28N R02W SEC 23	2601121
Timber harvest - Clear cut	10	T30N R04W SEC 29	2600762
Timber harvest - Clear cut	83	T30N R04W SEC 32	0216931
Timber harvest - Clear cut	16	T30N R05W SEC 31	2600332
Timber harvest - Clear cut	18	T30N R06W SEC 20	0216012
Timber harvest - Clear cut	60	T30N R06W SEC 30	0216012
Timber harvest - Clear cut	61	T31N R09W SEC 30	0216391
Timber harvest - Shelterwood intermediate cut	131	T30N R07W SEC 10	0216031
Timber harvest - Shelterwood intermediate cut	90	T30N R07W SEC 16	0216031
Timber harvest - Two aged management	78	T31N R01W SEC 32	0216392
Forest regeneration - Hand planting	62	T23N R04W SEC 21	*
Forest regeneration - Hand planting	42	T24N R03W SEC 02	*
Forest regeneration - Hand planting	13	T24N R03W SEC 03	*
Forest regeneration - Hand planting	73	T24N R03W SEC 15	*
Forest regeneration - Hand planting	74	T26N R01W SEC 28	*
Forest regeneration - Hand planting	19	T27N R01W SEC 15	*
Forest regeneration - Hand planting	4	T27N R01W SEC 22	*
Forest regeneration - Hand planting	24	T27N R01W SEC 27	*
Forest regeneration - Hand planting	44	T27N R01W SEC 27	*
Forest regeneration - Hand planting	3	T28N R02W SEC 23	*
Forest regeneration - Hand planting	88	T29N R02W SEC 16	*
Forest regeneration - Hand planting	10	T30N R04W SEC 29	*
Forest regeneration - Hand planting	23	T30N R04W SEC 29	*
Forest regeneration - Hand planting	20	T30N R04W SEC 29	*
Forest regeneration - Hand planting	74	T30N R04W SEC 32	*
Forest regeneration - Hand planting	14	T30N R05W SEC 31	*
Forest regeneration - Hand planting	16	T30N R06W SEC 20	*
Forest regeneration - Hand planting	60	T30N R06W SEC 30	*
Forest regeneration - Hand planting	121	T30N R07W SEC 10	*
Forest regeneration - Hand planting	85	T30N R07W SEC 16	*
Forest regeneration - Hand planting	12	T30N R08W SEC 14	*
Forest regeneration - Hand planting	4	T30N R08W SEC 14	*
Forest regeneration - Hand planting	2	T30N R08W SEC 23	*
Forest regeneration - Hand planting	74	T30N R09W SEC 06	*
Forest regeneration - Hand planting	10	T31N R01W SEC 32	*
Forest regeneration - Hand planting	2	T31N R08W SEC 30	*
Forest regeneration - Hand planting	61	T31N R09W SEC 30	*
Forest regeneration - Hand planting	79	T31N R09W SEC 31	*
Vegetation management - Ground herbicide	82	T27N R02W SEC 25	*

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Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Straits HCP Planning Unit			
Silvicultural Activity	Aeres	Location	FPA #
Vegetation management - Ground herbicide	21	T29N R01W SEC 27	*
Vegetation management - Ground herbicide	99	T29N R01W SEC 28	*
Vegetation management - Ground herbicide	67	T29N R04W SEC 06	*
Vegetation management - Ground herbicide	61	T29N R05W SEC 10	*
Vegetation management - Ground herbicide	71	T30N R04W SEC 36	*
Vegetation management - Ground herbicide	65	T30N R04W SEC 36	*
Vegetation management - Ground herbicide	19	T30N R05W SEC 30	*
Vegetation management - Ground herbicide	21	T30N R07W SEC 17	*
Vegetation management - Ground herbicide	83	T30N R08W SEC 13	*
Vegetation management - Ground herbicide	57	T30N R08W SEC 14	*
Vegetation management - Ground herbicide	45	T30N R08W SEC 14	*
Vegetation management - Ground herbicide	63	T30N R08W SEC 23	*
Vegetation management - Hand cutting	6	T27N R02W SEC 25	*
Vegetation management - Hand cutting	82	T27N R02W SEC 25	*
Vegetation management - Hand cutting	7	T28N R01E SEC 07	*
Vegetation management - Hand cutting	38	T28N R01E SEC 22	*
Vegetation management - Hand cutting	31	T28N R01E SEC 34	*
Vegetation management - Hand cutting	22	T28N R01E SEC 34	*
Pre-commercial thinning	16	T27N R01W SEC 03	*
Pre-commercial thinning	24	T27N R01W SEC 03	*
Pre-commercial thinning	32	T27N R01W SEC 03	*
Pre-commercial thinning	30	T27N R01W SEC 05	*
Pre-commercial thinning	10	T27N R01W SEC 05	*
Pre-commercial thinning	41	T27N R01W SEC 05	*
Pre-commercial thinning	6	T27N R01W SEC 05	*
Pre-commercial thinning	48	T27N R01W SEC 17	*
Pre-commercial thinning	8	T27N R01W SEC 17	*
Pre-commercial thinning	10	T27N R01W SEC 17	*
Pre-commercial thinning	18	T27N R01W SEC 17	*
Pre-commercial thinning	102	T27N R01W SEC 17	*
Pre-commercial thinning	19	T27N R01W SEC 26	*
Pre-commercial thinning	67	T27N R01W SEC 26	*
Pre-commercial thinning	52	T27N R02W SEC 15	*
Pre-commercial thinning	10	T27N R02W SEC 22	*
Pre-commercial thinning	76	T27N R02W SEC 26	*
Pre-commercial thinning	29	T27N R02W SEC 26	*
Pre-commercial thinning	41	T28N R01E SEC 28	*
Pre-commercial thinning	43	T28N R01W SEC 16	*
Pre-commercial thinning	65	T28N R01W SEC 21	*
Pre-commercial thinning	10	T28N R01W SEC 33	*
Pre-commercial thinning	56	T28N R02W SEC 01	*
Pre-commercial thinning	91	T28N R02W SEC 35	*
Pre-commercial thinning	24	T29N R01W SEC 36	*
Pre-commercial thinning	83	T29N R02W SEC 07	*
Pre-commercial thinning	103	T29N R02W SEC 07	*
Pre-commercial thinning	78	T29N R02W SEC 17	*
Pre-commercial thinning	78	T29N R04W SEC 10	*
Pre-commercial thinning	66	T29N R04W SEC 11	*
Pre-commercial thinning	80	T30N R04W SEC 28	*
Pre-commercial thinning	14	T30N R04W SEC 32	*
Pre-commercial thinning	34	T30N R06W SEC 29	*
Pre-commercial thinning	8	T30N R06W SEC 29	*
Pre-commercial thinning	73	T30N R07W SEC 17	*

* Forest Practices Application (FPA) number is not applicable for Class I Forest Practices, such as most silvicultural activities. Aerial herbicide/aerial fertilization silvicultural activities have FPA. All harvest activities have FPA.

Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Straits HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Pre-commercial thinning	18	T30N R08W SEC 04	*
Pre-commercial thinning	7	T30N R08W SEC 05	*
Pre-commercial thinning	27	T30N R08W SEC 06	*
Pre-commercial thinning	18	T30N R08W SEC 09	*
Pre-commercial thinning	41	T30N R08W SEC 10	*
Pre-commercial thinning	41	T30N R08W SEC 10	*
Pre-commercial thinning	41	T30N R08W SEC 10	*
Pre-commercial thinning	49	T30N R09W SEC 03	*
Pre-commercial thinning	71	T30N R09W SEC 04	*
Pre-commercial thinning	10	T30N R09W SEC 05	*
Pre-commercial thinning	24	T30N R09W SEC 06	*
Pre-commercial thinning	56	T30N R09W SEC 06	*
Pre-commercial thinning	13	T30N R09W SEC 09	*
Pre-commercial thinning	15	T30N R09W SEC 09	*
Pre-commercial thinning	2	T30N R09W SEC 10	*
Pre-commercial thinning	2	T30N R09W SEC 10	*
Pre-commercial thinning	21	T31N R07W SEC 33	*
Pre-commercial thinning	6	T31N R08W SEC 31	*
Pre-commercial thinning	86	T31N R09W SEC 29	*
Pre-commercial thinning	67	T31N R09W SEC 32	*
Pre-commercial thinning	47	T31N R09W SEC 32	*
Pre-commercial thinning	65	T31N R09W SEC 33	*
Pre-commercial thinning	3	T31N R09W SEC 34	*
Forest fertilization - Aerial fertilization	130	T23N R03W SEC 05	2405607
Forest fertilization - Aerial fertilization	56	T23N R04W SEC 10	2405607
Forest fertilization - Aerial fertilization	152	T23N R04W SEC 10	2405607
Forest fertilization - Aerial fertilization	282	T24N R03W SEC 02	2405607
Forest fertilization - Aerial fertilization	138	T24N R03W SEC 04	2405607
Forest fertilization - Aerial fertilization	113	T24N R03W SEC 08	2405607
Forest fertilization - Aerial fertilization	232	T24N R03W SEC 09	2405607
Forest fertilization - Aerial fertilization	171	T24N R03W SEC 10	2405607
Forest fertilization - Aerial fertilization	267	T24N R03W SEC 10	2405607
Forest fertilization - Aerial fertilization	190	T24N R03W SEC 15	2405607
Forest fertilization - Aerial fertilization	82	T24N R03W SEC 17	2405607
Forest fertilization - Aerial fertilization	200	T24N R03W SEC 17	2405607
Forest fertilization - Aerial fertilization	84	T24N R03W SEC 17	2405607
Forest fertilization - Aerial fertilization	220	T24N R03W SEC 21	2405607
Forest fertilization - Aerial fertilization	118	T24N R03W SEC 30	2405607
Forest fertilization - Aerial fertilization	391	T24N R03W SEC 32	2405607

* Forest Practices Application (FPA) number is not applicable for Class I Forest Practices, such as most silvicultural activities. Aerial herbicide/aerial fertilization silvicultural activities have FPA. All harvest activities have FPA.

Appendix A: Silvicultural Activities Conducted from July 1, 1998 through June 30, 1999

Yakima HCP Planning Unit			
Silvicultural Activity	Acres	Location	FPA #
Timber harvest - Clear cut	14	T21N R20E SEC 24	2700418
Timber harvest - Selective product logging	101	T19N R16E SEC 16	2700045
Timber harvest - Selective product logging	168	T20N R19E SEC 24	0108794
Timber harvest - Selective product logging	130	T20N R19E SEC 24	0108794
Timber harvest - Shelterwood removal cut	28	T20N R13E SEC 24	0108796
Timber harvest - Shelterwood removal cut	30	T20N R14E SEC 16	0108796
Timber harvest - Shelterwood removal cut	63	T20N R14E SEC 16	0108796
Timber harvest - Uneven-aged management	84	T19N R19E SEC 12	0108893
Timber harvest - Uneven-aged management	7	T19N R19E SEC 12	0108893
Timber harvest - Uneven-aged management	137	T19N R19E SEC 12	0108893
Timber harvest - Uneven-aged management	29	T19N R19E SEC 12	0108893
Timber harvest - Uneven-aged management	6	T19N R21E SEC 04	0108390
Timber harvest - Uneven-aged management	39	T19N R21E SEC 04	0108390
Timber harvest - Uneven-aged management	83	T19N R21E SEC 06	0108181
Timber harvest - Uneven-aged management	63	T20N R21E SEC 06	2700351
Timber harvest - Uneven-aged management	27	T20N R21E SEC 06	2700351
Timber harvest - Uneven-aged management	240	T20N R21E SEC 06	2700351
Forest site preparation - Ground herbicide	28	T20N R13E SEC 24	*
Forest site preparation - Ground herbicide	30	T20N R14E SEC 16	*
Forest site preparation - Ground herbicide	63	T20N R14E SEC 16	*
Forest site preparation - Ground herbicide	25	T20N R16E SEC 36	*
Forest site preparation - Ground herbicide	62	T20N R21E SEC 18	*
Forest regeneration - Hand planting	28	T20N R13E SEC 24	*
Forest regeneration - Hand planting	30	T20N R14E SEC 16	*
Forest regeneration - Hand planting	63	T20N R14E SEC 16	*
Forest regeneration - Hand planting	77	T20N R16E SEC 36	*
Forest regeneration - Hand planting	25	T20N R16E SEC 36	*
Forest regeneration - Hand planting	62	T20N R21E SEC 18	*
Pre-commercial thinning	633	T13N R14E SEC 26	*
Pre-commercial thinning	4	T15N R15E SEC 02	*

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* Forest Practices Application (FPA) number is not applicable for Class I Forest Practices, such as most silvicultural activities. Aerial herbicide/aerial fertilization silvicultural activities have FPA. All harvest activities have FPA.

Appendix B: Non-Timber - Significant

Disclaimer: Portions of this report were not available in their final electronic version. In some cases, missing sections were scanned. In other cases, modified draft versions, which look slightly different from the original print versions, were substituted. Although the formatting may look different from the print version of this report, in no case were the data changed in any way.

Appendix B

Significant Non-Timber Activities

Conducted from July 1, 1998

through June 30, 1999

Appendix B

Significant Non-Timber Activities

Conducted from July 1, 1998 through June 30, 1999

OVERVIEW: All new non-timber management activities, subject to HCP planning, were required to be in compliance with the HCP beginning January 1, 1999. Annual HCP reporting requirements include identifying non-timber activities that occurred that were significant or habitat altering events. Preliminary information for the six-month reporting period indicates that few, if any, non-timber activities were potential significant habitat altering activities.

The HCP/IA required data reporting process will be developed and implemented for the FY2000 Annual HCP Report to the Services. The Annual Services/DNR HCP Meeting, November 17, 1999, addressed this delayed schedule for completing the non-timber reporting documentation process. The Services agreed that a six-month adjustment to the required schedule was acceptable. Therefore, the FY2000 Annual HCP Report to the Services will contain detailed data in Appendix B.

BACKGROUND: Non-timber management activities that are permitted within the HCP-covered forest lands are identified in the chart in Chapter 3. The Chapter 3 chart enumerates all HCP non-timber management activities for 1996 and for the FY99 reporting period.

Existing Activities: When the HCP was negotiated with the Services, the parties identified the non-timber activities that historically occur on DNR-managed forest lands. Additionally, the parties identified the likely level of impacts to the forest resources that occurred, at that time, as a result of those activities. The existing, previously permitted non-timber activities were allowed to continue after approval of the HCP. That level of impacts is referred to as the baseline level and is considered to be the *de minimus* level.

Future Activities: The Department agreed that non-timber renewal agreements or new non-timber activities will include HCP commitments. The Department further agreed that reasonable efforts will be made to re-locate pre-existing activities, when feasible, to areas with fewer resource impacts. Recreation sites in riparian areas, managed under long-term lease agreements with the Interagency Committee, or DNR stream-side trails are in this category.

BASELINE LEVEL: At the 1996 level of non-timber activities, the Services determined that no take or an insignificant (i.e. *de minimus*) level of "take" occurred. The existing activities constituted the 1996 baseline non-timber level. Therefore, the "footprints" of non-timber management activities existing in 1996 are allowed under the HCP agreement. Each Annual HCP Report includes a listing of all non-timber program activities compared to the baseline 1996 level. If the level of impacts
(cont. Appendix B Significant Non-Timber Activities)

increases for a non-timber program, to the extent that incidental take increases, the parties agree to initiate the HCP amendment process. Details of this condition are addressed in the Implementation Agreement, section 16.2b.

SIGNIFICANT REPORTABLE NON-TIMBER ACTIVITIES:

Appendix B: When new non-timber activities are permitted, they may have the potential to result in adverse habitat alterations that could cause incidental take if not appropriately mitigated. The Implementation Agreement with the Services includes a requirement to report non-timber management activities that could cause potential habitat alterations that could result in incidental take. These activities are documented in each ANNUAL REPORT, in Appendix B.

In compliance with approved agreements, each new significant reportable non-timber activity will be identified by activity type, acres impacted or miles impacted, legal description and applicable Forest Practices Application number or Hydraulics Permit number.

Re-locations: The Department is committed to minimizing the occurrence of new and existing habitat-altering activities. Approved pre-HCP locations, such as stream-side campsites or trails, are allowed. DNR is committed to re-locating or de-commissioning stream-side activities to the extent possible, over time. Some leases for recreational uses are long-term, and may not be candidates for re-location. The Department will work with the lease-holder to minimize habitat impacts where possible.

FUTURE REPORTS: During the FY2000 period the Department will finalize the Non-Timber Documentation and Reporting process. Future Significant Non-Timber Activities will be itemized in Appendix B, consistent with the approved implementation documentation and reporting process.

FY1999 RESULTS: Review of the FY1999 non-timber activities indicates that new activities are usually for short-term non-habitat altering projects, or are for non-significant activities, such as:

- 1) short-use permits for photographic work, e.g. Eddie Bauer catalogue, and
- 2) short-term use of an existing environmental camp facility.

Traditional DNR non-timber management activities and leases are usually,

- 1) not habitat altering activities,
- 2) denied because they are potential habitat altering activities,
- 3) or pre-exist the HCP adoption and will be re-newed only in compliance with the HCP.

CONCLUSIONS: The Department has refused to issue some short-term permits that could result in adverse impacts in the riparian areas, even when those have been traditional approved events on DNR lands. This includes some public use events. Unapproved public uses of the forests are the most challenging activities for the Department to manage and prevent. The Department is actively trying to resolve public use problems through gate closures or road de-commissionings. As the urban and suburban population expansion continues, DNR forests are subject to increased public use and unfortunately, public abuse.

process

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APPENDIX C

DNR Annual Report to the Services

ROAD

MANAGEMENT

ACTIVITIES

FY1999

APPENDIX C: Road Maintenance: FY1999

Development of the Road Data Management System (RDMS) is in process. The HCP Planning Unit Road Maintenance Data Base Chart below represents information in the RDMS as of June 30, 1999.

ROAD MAINTENANCE DATA BASE INFORMATION									
HCP Planning Units									
	Chelan	Columbia	Klickitat	North Puget	OESF	South Coast	South Puget	Straits	Yakima
Total Road Miles	91	1,573	662	1,905	1,547	1,427	848	540	465
Maintenance Status:									
-Regularly	0	341	0	1,232	591	719	487	180	45
-Minimally	0	549	0	340	888	528	115	291	66
-Decommissioned	0	347	0	283	32	94	110	7	3
-Unspecified	91	336	662	50	36	86	136	62	351
Vehicular Access									
-Year around public	0	94	0	3	937	776	36	250	37
-Seasonal public	0	53	0	4	0	81	33	0	8
-Management only	0	40	0	0	351	320	31	101	13
-Undriveable	0	25	0	0	146	164	19	36	8
-Unspecified	91	1,361	662	1,898	113	86	729	153	399
Road Surface:									
-Paved	2	44	19	56	110	52	23	29	15
-Unpaved: -Unclassified	73	1,485	557	1,333	172	1,308	712	209	339
-Crushed rock	0	0	0	13	220	13	13	126	6
-Gravel	0	0	0	3	746	20	0	110	1
-Native material	0	0	0	0	296	1	0	9	58
-Unspecified	16	44	86	500	3	33	100	57	46
Roads within 500 ft of Type 1-3 streams									
-Regularly maintain	0	42	0	187	123	118	48	24	5
-Minimally maintain	0	42	0	50	112	72	12	27	3
-Decommissioned	0	37	0	22	6	15	11	1	0
-Unspecified	2	38	53	12	9	34	28	16	0
Total	2	159	53	271	250	239	99	68	48
Roads on Potentially Unstable slopes									
-Regularly maintain	0	59	0	227	110	147	83	41	10
-Minimally maintain	0	95	0	65	182	110	18	59	3
-Decommissioned	0	59	0	57	5	23	23	1	1
-Unspecified	3	26	111	95	12	18	32	9	57
Total	3	239	111	444	309	298	156	110	71

Development of the RDMS continued through June of 1999 to expand capability to meet data needs for culverts, bridges, rockpits, gates and maintenance project. Inventory collection is a program in development and is subject to anticipated additions and changes. Subsequent reporting periods will include both additional data categories and will report maintenance activities conducted during the reporting period. At this point, road maintenance activities can not be statistically reported. All road maintenance is conducted by trained personnel operating under the Department's "Road Standards" and in compliance with all applicable Forest Practices road maintenance procedures.

NOTES:1 Road miles occurring on DNR trustlands within HCP Unit boundaries. Does not exclude public roads crossing DNR lands. Does not include roads off DNR lands on which DNR has acquired permanent access.

2 Maintenance status codes were defined based on physical characteristics of roads that have a direct impact on the frequency of maintenance work they receive.

Regularly Maintained: Roads which are considered annually for maintenance work on the basis of traffic levels, design vehicle types, safety considerations, and potential for resource damage. Common activities which occur on these roads include grading, brushing, ditching, culvert inlet cleanout, slump removal, surfacing replacement, and installation of drainage structures. These roads fit both the "active" and "inactive" Forest Practices activity status definition, depending on whether commercial hauling has occurred within the last 12 months.

Minimally Maintained: Roads which the department considers unlikely to need maintenance attention in the foreseeable future. These roads would receive maintenance work only to prevent resource damage. Many of these are old roads which are revegetated and stable, but do not meet the definition of a decommissioned road. Very little activity takes place on these roads. These roads fit both the "inactive" and "orphaned" Forest Practices activity status definition, depending on whether commercial hauling has occurred within the last 12 months and when the road was originally constructed.

Decommissioned: Roads which have been "put to bed". No culverts or fills have been left in live stream crossings; drainage has been provided for in a manner that does not require regular maintenance; an attempt has been made to make the road undriveable. These roads would receive maintenance work only to prevent resource damage. Very little activity takes place on these roads. If Forest Practices paperwork has been filed, these roads are considered to be "abandoned", otherwise they are considered to be "inactive" roads in Forest Practices activity status. Very little activity takes place on these roads.

3 Vehicular access codes are defined as follows.

Year Around Public: Roads which are open to public, 4-wheeled highway vehicles, year around.

Seasonal Public: Roads which are temporarily gated to public, 4-wheeled highway vehicle access.

Management Access: Roads which are gated to public, 4-wheeled highway vehicle access. They are open to vehicle access for management purposes only.

Undriveable: Roads which are undriveable to 4-wheeled highway vehicles.

4 Stream types as shown on the DNRGIS HYDRO layer. Current Forest Practices emergency stream typing rules are not reflected on this layer.

5 Potentially unstable slopes as defined on DNRGIS SOILS layer polygons with a slope stability code equal to "unstable" or "very unstable".

6 A large portion of the North Puget Planning Unit has not had road inventory work completed. Figures are based on estimates resulting from road inventory work completed in 1994.

Appendix C

Road Management Activities Conducted from July 1, 1998 through June 30, 1999

DNR Region: NW		HCP Unit: North Puget		
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	0.39	T27NR7E	2800147
Road Construction	Timber Sale	0.47	T28NR7E	2800086
Road Construction	Timber Sale	0.36	T28NR7E	2800148
Road Construction	Timber Sale	0.13	T28NR8E	2801558
Road Construction	Timber Sale	1.31	T28NR8E	1922553
Road Construction	Timber Sale	0.83	T28NR9E	1921342
Road Construction	Timber Sale	0.2	T29NR6&7E	2800131
Road Construction	Timber Sale	0.17	T30NR7E	2802252
Road Construction	Timber Sale	1.02	T32&33NR7E	1922543
Road Construction	Timber Sale	0.1	T32&33NR5&6E	1921589
Road Construction	Timber Sale	0.1	T32NR9E	2800300
Road Construction	Timber Sale	1.01	T33NR10&11E	2800045
Road Construction	Timber Sale	0.72	T33NR10E	2801800
Road Construction	Timber Sale	2.25	T33NR10E	2800125
Road Construction	Timber Sale	1.9	T33NR10E	1921514
Road Construction	Timber Sale	0.43	T33NR10E	2801429
Road Construction	Timber Sale	0.76	T33NR10E	2800964
Road Construction	Timber Sale	0.34	T33NR5&6E	1921206
Road Construction	Timber Sale(land traded)	0.52	T35NR7E	2800080
Road Construction	Timber Sale	1.39	T35NR8&9E	1920256
Road Construction	Timber Sale	0.5	T35NR8E	1922554
Road Construction	Timber Sale	0.41	T36NR4E	1922448
Road Construction	Timber Sale	1.64	T36NR4E	2802114
Road Construction	Timber Sale	0.63	T36NR7E	2800546
Road Construction	Timber Sale	0.5	T36NR5E	1922345
Road Construction	Timber Sale	0.3	T36NR6E	2800091
Road Construction	Timber Sale	1.07	T37NR3E	2800098
Road Construction	Timber Sale	0.76	T37NR4E	2800190
Road Construction	Timber Sale	0.09	T37NR5E	2802193
Road Construction	Timber Sale	0.16	T38NR5E	2802325
Road Construction	Timber Sale	0.9	T38NR5E	2801047
Road Construction	Granted RUP	0.15	T39NR5&6E	2802038
Road Construction	Timber Sale	0.3	T39NR5E	1922451
Road Construction	Timber Sale	2.32	T39NR6E	1922536
Road Construction	Timber Sale	0.29	T40NR5E	2802308
Road Construction	Timber Sale	1.48	T40NR6E	2800160
Road Reconstruction	Timber Sale	0.24	T27NR7E	2800147
Road Reconstruction	Heavy Equipment Crew	1.3	T28&29NR7E	0
Road Reconstruction	Timber Sale	0.45	T28NR7E	2800086
Road Reconstruction	Timber Sale	0.9	T28NR7E	2800148
Road Reconstruction	Timber Sale	1.12	T28NR8E	1922553
Road Reconstruction	Timber Sale	0.06	T28NR9E	1921342
Road Reconstruction	Timber Sale	4.05	T29NR6&7E	2800131
Road Reconstruction	Heavy Equipment Crew	2.2	T29NR7E	*
Road Reconstruction	Heavy Equipment Crew	2.8	T29NR7E	*
Road Reconstruction	Timber Sale	0.31	T29NR7E	2802252
Road Reconstruction	Heavy Equipment Crew	5.2	T31NR6E	*
Road Reconstruction	Timber Sale	2.68	T32&33NR7E	1922543
Road Reconstruction	Timber Sale	0.9	T32NR9E	1922162
Road Reconstruction	Timber Sale	0.75	T33NR10E	2801429

DNR Region: NW		HCP Unit: North Puget		
Activity	Type	Miles	Location	FPA
Road Reconstruction	Timber Sale	0.73	T33NR10E	2800125
Road Reconstruction	Timber Sale	1.1	T33NR10E	1921514
Road Reconstruction	Heavy Equipment Crew	1.6	T33NR4&5E	2802231
Road Reconstruction	Timber Sale	0.3	T33NR5&6E	1921206
Road Reconstruction	Timber Sale(land traded)	0.1	T35NR7E	2800080
Road Reconstruction	Timber Sale	5	T35NR7E	2801175
Road Reconstruction	Timber Sale	4.4	T35NR89&E	1920256
Road Reconstruction	Timber Sale	0.5	T35NR8E	1922554
Road Reconstruction	Timber Sale	0.17	T36NR4E	2802114
Road Reconstruction	Timber Sale	2	T36NR7E	2800546
Road Reconstruction	Timber Sale	0.06	T36NR6E	2800091
Road Reconstruction	Timber Sale	2.6	T37NR3E	2800098
Road Reconstruction	Timber Sale	0.21	T37NR4E	2800190
Road Reconstruction	Timber Sale	0.06	T37NR5E	2802193
Road Reconstruction	Timber Sale	0.49	T38NR5E	2802325
Road Reconstruction	Timber Sale	0.2	T38NR5E	1922559
Road Reconstruction	Timber Sale	0.4	T38NR5E	2800888
Road Reconstruction	Heavy Equipment Crew	1.1	T39&40NR4&5E	*
Road Reconstruction	Timber Sale	3.7	T39NR5E	1922451
Road Reconstruction	Timber Sale	0.66	T39NR6E	1922536
Road Reconstruction	Timber Sale	0.12	T40NR5E	2802308
Road Reconstruction	Timber Sale	1.05	T40NR6E	2800160
Road Decommissioning	Timber Sale	0.46	T27NR7E	1920240
Road Decommissioning	Timber Sale	0.57	T27NR7E	1920997
Road Decommissioning	Timber Sale	0.82	T27NR7E	1919940
Road Decommissioning	Heavy Equipment Crew	1.45	T27NR10E	*
Road Decommissioning	JFE	32.3	T28-30NR7-9E	1921936
Road Decommissioning	Heavy Equipment Crew	13.7	T28-30NR7-9E	1921936
Road Decommissioning	Timber Sale	0.3	T28NR7E	1920404
Road Decommissioning	Timber Sale	0.34	T28NR8E	1921245
Road Decommissioning	Timber Sale	0.57	T28NR8E	1921107
Road Decommissioning	Timber Sale	0.15	T30NR7E	1919958
Road Decommissioning	Timber Sale	0.17	T30NR7E	1919748
Road Decommissioning	Timber Sale	0.67	T31&32NR7E	1921951
Road Decommissioning	Timber Sale	0.22	T32NR4E	1918829
Road Decommissioning	Timber Sale	0.99	T32NR5E	1921154
Road Decommissioning	Timber Sale	0.11	T32NR6E	1919191
Road Decommissioning	Timber Sale	0.12	T32NR9E	1920269
Road Decommissioning	Heavy Equipment Crew	2.2	T35NR11E	2801175
Road Decommissioning	Heavy Equipment Crew	10.47	T35NR11E	2801768
Road Decommissioning	Heavy Equipment Crew	4.1	T35NR11E	2801776
Road Decommissioning	Timber Sale	1.21	T37NR5E	1918830
Road Decommissioning	Timber Sale	0.34	T38NR5&6E	1916680
Road Decommissioning	Timber Sale	0.32	T38NR6E	1919555
Road Decommissioning	Timber Sale	0.9	T38NR5E	1923374
Road Decommissioning	Heavy Equipment Crew	5.25	T40NR5E	2800563
Road Decommissioning	Timber Sale	0.74	T40NR5E	1921296

DNR Region: SPS			HCP Unit: North Puget	
Road Construction	Timber Sale	0.62	T26NR08E	2404268
Road Construction	Timber Sale	0.73	T26NR08E	2404539
Road Reconstruction	Timber Sale	1.02	T26NR08E	2404268
Road Decommissioning	NRCA	4.15	T24NR09E	*
Road Decommissioning	NRCA	1	T23NR08E	*
Road Decommissioning	NRCA	0.85	T24NR09E	2405116
Road Decommissioning	Grant	2.5	T23NR09E	2403690
DNR Region: SPS			HCP Unit: South Puget	
Road Construction	Timber Sale	0.09	T19NR04E	2404005
Road Construction	Timber Sale	0.57	T20NR08E	2404133
Road Construction	Timber Sale	0.19	T24NR02W	2404727
Road Construction	Timber Sale	0.09	T21NR01W	2404006
Road Construction	Timber Sale	0.2	T14NR06E	2404435
Road Construction	Timber Sale	0.21	T24NR01W	2404696
DNR Region: SPS			HCP Unit: South Puget	
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	0.71	T24NR01W	2405201
Road Construction	Timber Sale	0.36	T23NR02W	2405200
Road Construction	Timber Sale	0.08	T24NR01W	2404371
Road Construction	Timber Sale	0.09	T23NR02W	2404331
Road Construction	Timber Sale	0.57	T23NR01W	2405538
Road Construction		0.05	T23NR01W	2405638
Road Construction	Timber Sale	0.6	T23NR02W	2405639
Road Reconstruction	Timber Sale	0.35	T20NR08E	2404007
Road Reconstruction	Timber Sale	2.34	T23NR02W	2404929
Road Reconstruction	Timber Sale	1.76	T25NR01W	2404371
Road Reconstruction	Timber Sale	0.19	T21NR07E	2404133
Road Reconstruction	Timber Sale	1.54	T19NR04E	2404005
Road Reconstruction	Timber Sale	1	T15NR06E	2402040
Road Reconstruction	Timber Sale	0.88	T14NR06E	2402435
Road Reconstruction	Timber Sale	0	T20NR07E	2404133
Road Reconstruction	Timber Sale	0.19	T24NR02W	2404727
Road Reconstruction	Timber Sale	0.2	T24NR01W	2404371
Road Reconstruction	Timber Sale	0.37	T20NR08E	2404132
Road Reconstruction	Timber Sale	1.03	T23NR02W	2405200
Road Reconstruction	Timber Sale	2.21	T23NR02W	2404331
Road Reconstruction	Timber Sale	0.19	T23NR02W	2405538
Road Reconstruction	Timber Sale	2.32	T23NR01W	2405538
Road Reconstruction	Timber Sale	0.08	T23NR01W	2405638
Road Reconstruction	Timber Sale	0.78	T23NR02W	2405639
Road Reconstruction	Timber Sale	1.99	T23NR02W	2405552
Road Decommissioning	Timber Sale	0.09	T21NR01W	2404006
Road Decommissioning	Timber Sale	0.07	T34NR02W	2404929
Road Decommissioning	Heavy Equipment Crew	1	T15NR06E	*
Road Decommissioning	Heavy Equipment Crew	2.27	T13NR06E	*
Road Decommissioning	Timber Sale	1.89	T20NR08E	2402063
Road Decommissioning	Timber Sale	2.08	T14NR05E	2401148
Road Decommissioning	Timber Sale	0.32	T14NR06E	925194
Road Decommissioning	Heavy Equipment Crew	5.7	T15NR05E	*
Road Decommissioning	Heavy Equipment Crew	6.4	T14NR06E	*
Road Decommissioning	Timber Sale	0.24	T16NR04E	2403724
Road Decommissioning	Timber Sale	0.13	T23NR02W	2404333
Road Decommissioning	Timber Sale	0.99	T23NR01W	2405538
Road Decommissioning	Heavy Equipment Crew	3.7	T21NR08E	*
Road Decommissioning	Heavy Equipment Crew	0.4	T20NR07E	*
Road Decommissioning	Heavy Equipment Crew	0.4	T20NR08E	*

DNR Region: CEN			HCP Unit: South Puget	
Activity	Type	Miles	Location	FPA
Road Construction	Granted Rup	0.15	T18NR3W	2504038
Road Construction	Timber Sale	3.11	T17&18NR3&4W	35366
Road Construction	Timber Sale	1.24	T15NR5E	2502968
Road Reconstruction	Timber Sale	3.09	T17&18NR3&4W	35366
DNR Region: SW			HCP Unit: Columbia	
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	0.41	T5NR1E	2900976
Road Construction	Timber Sale	0.38	T10NR8W	2901325
Road Construction	Timber Sale	0.3	T10NR4W	2900057
Road Construction	Timber Sale	1.92	T2NR4E	2900093
Road Construction	Timber Sale	0.66	T8NR2W	2901033
Road Construction	Timber Sale	0.31	T3NR6E	2900079
Road Construction	Timber Sale	0.66	T9NR5W	2900292
Road Construction	Timber Sale	0.83	T3NR3E	2900259
Road Construction	Timber Sale	1.61	T8NR5W	2900475
Road Construction	Timber Sale	0.71	T6NR5E	2900583
Road Construction	Timber Sale	1.24	T6NR1W	2900487
Road Construction	Timber Sale	0.62	T10NR1E	2900427
Road Construction	Timber Sale	0.27	T4NR1E	2900845
Road Construction	Timber Sale	1.06	T9NR5W	2900712
Road Construction	Timber Sale	0.33	T2NR4E	2900912
Road Construction	Timber Sale	0.19	T6NR2E	2900806
Road Construction	Timber Sale	0.71	T3&4NR3E	2900900
Road Construction	Timber Sale	1.09	T6NR5E	2900748
Road Construction	Timber Sale	0.06	T6NR4E	2900855
Road Construction	Timber Sale	2.32	T3NR4E	2900901
Road Construction	Timber Sale	0.65	T9&10NR4W	2900996
Road Construction	Timber Sale	0.32	T3NR6E	2900867
Road Construction	Timber Sale	0.36	T10NR6W	2901013
Road Construction	Timber Sale	0.91	T6NR3E	2900940
Road Construction	Timber Sale	0.66	T4NR2E	2900891
Road Construction	Timber Sale	0.42	T6NR4E	2901017
Road Construction	Timber Sale	0.38	T2NR3E	2900899
Road Construction	Timber Sale	0.6	T3NR5E	2900344
Road Construction	Timber Sale	0.67	T3NR6E	2901207
Road Construction	Timber Sale	1.57	T6NR5E	2901030
Road Construction	Timber Sale	0.32	T6NR4E	2900990
Road Construction	Timber Sale	0.36	T8NR5W	2901138
Road Construction	Granted RUP	2.69	T6&7NR4E	2900727
Road Reconstruction	Timber Sale	0.33	T10NR4W	2900057
Road Reconstruction	Timber Sale	0.75	T3NR6E	2900079
Road Reconstruction	Timber Sale	0.51	T3NR3E	2900259
Road Reconstruction	Timber Sale	1.29	T10NR1E	2900427
Road Reconstruction	Timber Sale	0.41	T4NR1E	2900845
Road Reconstruction	Timber Sale	0.11	T9NR5W	2900712
Road Reconstruction	Timber Sale	0.55	T6NR3E	2900806
Road Reconstruction	Timber Sale	0.4	T6NR5E	2900748
Road Reconstruction	Timber Sale	0.7	T6NR4E	2900855
Road Reconstruction	Timber Sale	1.64	T10NR4W	2900996
Road Reconstruction	Timber Sale	0.13	T4NR2E	2900891
Road Reconstruction	Timber Sale	1.39	T6NR5E	2901030
Road Reconstruction	Timber Sale	0.96	T6NR4E	2900990
Road Reconstruction	Granted RUP	1.2	T3NR6E	2900647
Road Decommissioning	Timber Sale	0.35	T6NR5E	1121040
Road Decommissioning	Timber Sale	0.38	T5NR1E	2900976

DNR Region: SW			HCP Unit: Columbia	
Activity	Type	Miles	Location	FPA
Road Decommissioning	Timber Sale	0.24	T10NR8W	2901325
Road Decommissioning	Timber Sale	0.97	T6NR1&2E	1122236
Road Decommissioning	Timber Sale	0.1	T6NR2E	1122357
Road Decommissioning	Timber Sale	0.19	T10NR4W	1122289
Road Decommissioning	Timber Sale	1.13	T6NR3E	2900088
Road Decommissioning	Timber Sale	0.21	T5NR2E	1122420
Road Decommissioning	Timber Sale	2.4	T2NR5E	2901022
Road Decommissioning	Timber Sale	0.17	T6NR4E	2900103
Road Decommissioning	Timber Sale	0.41	T6NR3E	2900105
Road Decommissioning	Timber Sale	0.86	T6NR5E	2900097
Road Decommissioning	Timber Sale	0.3	T10NR4W	2900057
Road Decommissioning	Timber Sale	0.36	T6NR5E	1122000
Road Decommissioning	Timber Sale	0.91	T4NR4E	2900258
Road Decommissioning	Timber Sale	0.41	T3NR6E	2900079
Road Decommissioning	Timber Sale	0.26	T10NR1E	2900427
Road Decommissioning	Timber Sale	0.19	T5NR3E	2900825
Road Decommissioning	Timber Sale	0.71	T4NR3E	2900900
Road Decommissioning	Timber Sale	0.42	T6NR4E	2901017
Road Decommissioning	Timber Sale	1.7	T6NR4E	2900990
Road Decommissioning	Timber Sale	0.09	T8NR5W	2901138
Road Decommissioning	Heavy Equipment Crew	1.14	T7NR4E	2901036
Road Decommissioning	Heavy Equipment Crew	1.08	T6NR4E	2901035
Road Decommissioning	Heavy Equipment Crew	0.92	T6NR4E	2901230
DNR Region: CEN			HCP Unit: Columbia	
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	0.25	T11NR02E	2500559
Road Construction	Timber Sale	0.63	T11NR3E	2501534
Road Construction	Timber Sale	0.89	T11NR3E	2503972
Road Construction	Timber Sale	0.27	T13NR5E	2503762
Road Construction	Timber Sale	0.51	T13NR3E	2504153
Road Construction	Timber Sale	1.65	T11NR3E	2501306
Road Construction	Timber Sale	0.45	T12NR4E	2500713
Road Construction	Timber Sale	0.92	T12NR2E	35127
Road Reconstruction	Timber Sale	0.02	T11NR3E	2503972
Road Reconstruction	Timber Sale	0.44	T12NR8E	2505198
Road Reconstruction	Timber Sale	6.16	T13NR3E	2504153
Road Reconstruction	Timber Sale	4.96	T12NR4E	2500713
Road Reconstruction	Timber Sale	0.73	T12NR2E	35127
Road Decommissioning	Timber Sale	0.14	T11NR3E	2501534
Road Decommissioning	Timber Sale	0.22	T11NR3E	2503972
Road Decommissioning	Timber Sale	0.16	T12NR8E	2505198
Road Decommissioning	Timber Sale	0.84	T13NR3E	2504153
DNR Region: CEN			HCP Unit: South Coast	
Activity	Type	Miles	Location	FPA
Road Construction	Granted Rup	0.07	T13NR8W	*
Road Construction	Timber Sale	0.56	T11NR8W	2502663
Road Construction	Timber Sale	0.76	T11NR8W	2500681
Road Construction	Timber Sale	0.43	T17&18NR4&5W	2500677
Road Construction	Timber Sale	0.36	T13NR7W	2503775
Road Construction	Timber Sale	3.11	T17NR4W	35090
Road Construction	Timber Sale	1.46	T13N49W	33991
Road Construction	Timber Sale	0.86	T18NR3W	2503317
Road Construction	Timber Sale	0.97	T15NR1E	2503275
Road Construction	Timber Sale	1.74	T16NR4W	2503078

DNR Region: CEN			HCP Unit: South Coast	
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	1.54	T16NR1W	2503495
Road Construction	Timber Sale	1.2	T17NR4W	2504425
Road Construction	Timber Sale	2.3	T13NR6W	2502969
Road Construction	Timber Sale	1.88	T13NR7W	35051
Road Construction	Timber Sale	0.5	T17RN3W	34961
Road Construction	Timber Sale	0.48	T16NR1W	2502443
Road Construction	Timber Sale	0.86	T12NR3W	2500330
Road Construction	Timber Sale	0.16	T12NR8E	2505198
Road Construction	Timber Sale	0.62	T16NR4W	34655
Road Construction	Timber Sale	0.84	T14NR5W	2503467
Road Construction	Timber Sale	0.67	T11NR9W	2502986
Road Construction	Timber Sale	0.04	T17NR4W	2503010
Road Construction	Timber Sale	0.74	T13NR7W	2502897
Road Construction	Timber Sale	0.91	T13NR7W	2502400
Road Construction	Timber Sale	1.01	T13NR6W	2501305
Road Construction	Timber Sale	0.71	T14NR3W	2501140
Road Construction	Timber Sale	0.64	T11NR8W	2504068
Road Construction	Timber Sale	0.62	T13NR5&6W	2500503
Road Construction	Timber Sale	0.39	T17NR3W	2500742
Road Construction	Timber Sale	0.27	T17RN4W	2504411
Road Construction	Timber Sale	0.74	T14NR5W	2503318
Road Construction	Timber Sale	1	T16NR1W	2501921
Road Construction	Timber Sale	1.35	T18NR3W	2500037
Road Construction	Timber Sale	0.24	T17NR4W	2503178
Road Construction	Timber Sale	0.75	T14NR3W	2502750
Road Construction	Timber Sale	0.21	T13NR6&7W	2504088
Road Construction	Timber Sale		T17NR5W	2501301
Road Construction	Timber Sale	1.11	T14NR5W	2503093
Road Construction	Timber Sale	0.07	T17NR3W	2503455
Road Construction	Timber Sale	0.75	T15NR5W	2502480
Road Construction	Timber Sale	0.67	T14NR3W	2504475
Road Construction	Timber Sale	0.17	T18NR5W	2502212
Road Construction	Timber Sale	1.47	T17NR4W	2502664
Road Construction	Timber Sale	1.01	T14NR6W	2502866
Road Construction	Timber Sale	3.92	T16NR5W	35423
Road Construction	Timber Sale		T12NR3W	33532
Road Construction	Timber Sale	0.91	T15NR3W	2502211
Road Construction	Timber Sale	1.52	T13NR5W	2502665
Road Construction	Timber Sale	0.88	T13NR5&6W	2500753
Road Construction	Timber Sale	0.41	T17NR3W	2501332
Road Construction	Timber Sale	0.46	T17NR3W	2503676
Road Construction	Timber Sale	0.43	T13NR5W	2502878
Road Construction	Timber Sale	0.14	T12NR8W	2504082
Road Construction	Timber Sale	0.54	T17NR3W	2502392
Road Construction	Timber Sale	0.91	T15NR3W	2503828
Road Construction	Timber Sale	0.75	T18NR4W	2501209
Road Construction	Timber Sale	6.14	T15&16NR5W	2502146
Road Construction	Timber Sale	1.17	T16NR5W	2503079
Road Reconstruction	Timber Sale	0.68	T11NR8W	2502663
Road Reconstruction	Timber Sale	2.16	T11NR8W	2500681
Road Reconstruction	Timber Sale	9.1	T17&18NR4&5W	2500677
Road Reconstruction	Timber Sale	11.19	T13NR7W	2503775
Road Reconstruction	Timber Sale	1.46	T17NR4W	35090
Road Reconstruction	Timber Sale	7.24	T13NR9W	33991
Road Reconstruction	Timber Sale	4.35	T18NR3W	2503317
Road Reconstruction	Timber Sale	3.45	T15NR1E	2503275
Road Reconstruction	Timber Sale	3.67	T16NR4W	2503078
Road Reconstruction	Timber Sale	1.35	T16NR1W	2503495

DNR Region: CEN		HCP Unit: South Coast		
Activity	Type	Miles	Location	FPA
Road Reconstruction	Timber Sale	1.42	T17NR4W	2504425
Road Reconstruction	Timber Sale	2.51	T13NR7W	35051
Road Reconstruction	Timber Sale	0.38	T17NR3W	34961
Road Reconstruction	Timber Sale	0.99	T14NR3W	2501818
Road Reconstruction	Timber Sale	0.3	T11NR9W	2502986
Road Reconstruction	Timber Sale	8.1	T13NR5E	2503762
Road Reconstruction	Timber Sale	5.7	T17NR4W	2503010
Road Reconstruction	Timber Sale	2.36	T13NR7W	2502897
Road Reconstruction	Timber Sale	2.9	T13NR7W	2502400
Road Reconstruction	Timber Sale	4.11	T13NR6W	2501305
Road Reconstruction	Timber Sale	1.13	T14NR3W	2501140
Road Reconstruction	Timber Sale	1.03	T12NR2E	2503311
Road Reconstruction	Timber Sale	2	T11NR8W	2504068
Road Reconstruction	Timber Sale	7.54	T14NR5W	2503318
Road Reconstruction	Timber Sale	5.93	T16NR1W	2501921
Road Reconstruction	Timber Sale	1.98	T13NR8W	2502475
Road Reconstruction	Timber Sale	0.2	T14NR5W	2501860
Road Reconstruction	Timber Sale	1.19	T18RN3W	2500037
Road Reconstruction	Timber Sale	6.35	T17NR4W	2503178
Road Reconstruction	Timber Sale	2.58	T14NR3W	2502750
Road Reconstruction	Timber Sale	1.11	T17NR3W	2501692
Road Reconstruction	Timber Sale		T17NR5W	2501301
Road Reconstruction	Timber Sale	4.73	T14NR3W	2504475
Road Reconstruction	Timber Sale	0.85	T18NR5W	2502212
Road Reconstruction	Timber Sale	5.22	T17NR4W	2503359
Road Reconstruction	Timber Sale	0.52	T14NR6W	2502866
Road Reconstruction	Timber Sale	2.26	T11NR3E	2501241
Road Reconstruction	Timber Sale	3.8	T16NR5W	35423
Road Reconstruction	Timber Sale	0.41	T15NR3W	2502211
Road Reconstruction	Timber Sale	0.61	T13NR5W	2502665
Road Reconstruction	Timber Sale	1.4	T17NR3W	2501332
Road Reconstruction	Timber Sale	1.4	T14NR4W	2503094
Road Reconstruction	Timber Sale	2.45	T11NR8W	2503990
Road Reconstruction	Timber Sale	0.86	T12NR8W	2504082
Road Reconstruction	Timber Sale	0.03	T17NR3W	2502392
Road Reconstruction	Timber Sale	1.05	T18NR4W	2501209
Road Reconstruction	Timber Sale	0.8	T15&16NR5W	2502146
Road Decommissioning	Timber Sale	0.56	T11NR8W	2502663
Road Decommissioning	Timber Sale	0.06	T17&18NR4&5W	2500677
Road Decommissioning	Timber Sale	0.38	T18NR3W	2503317
Road Decommissioning	Timber Sale	0.58	T15NR1E	2503275
Road Decommissioning	Timber Sale	1.01	T16NR1W	2503495
Road Decommissioning	Timber Sale	0.48	T16NR1W	2502443
Road Decommissioning	Timber Sale	0.5	T17NR4W	2502064
Road Decommissioning	Timber Sale	0.39	T17NR3W	2500742
Road Decommissioning	Timber Sale	0.4	T14NR3W	2502750
Road Decommissioning	Timber Sale	0.07	T17NR3W	2503455
Road Decommissioning	Timber Sale	1.41	T14NR3W	2504475
Road Decommissioning	Timber Sale	0.17	T18NR5W	2502212
Road Decommissioning	Timber Sale	0.82	T17NR4W	2500423
Road Decommissioning	Timber Sale	0.14	T12NR8W	2504082
Road Decommissioning	Timber Sale	0.54	T17NR3W	2502392
Road Decommissioning	Timber Sale	1.83	T15&16NR5W	2502146
Road Decommissioning	Rental Agreement	1.07	T11NR8W	2503946
Road Decommissioning	Rental Agreement	3.7	T11&12NR32	2505196
Road Decommissioning	Rental Agreement	3	T15NR2W	*
Road Decommissioning	Heavy Equipment Crew	0.57	T15NR2W	*
Road Decommissioning	Heavy Equipment Crew	1.43	T12NR8W	2504200

DNR Region: CEN			HCP Unit: South Coast	
Activity	Type	Miles	Location	FPA
Road Decommissioning	Heavy Equipment Crew	0.38	T13NR7W	*
Road Decommissioning	Heavy Equipment Crew	0.95	T12NR8W	2502672
Road Decommissioning	Heavy Equipment Crew	0.51	T12NR8W	2502672
Road Decommissioning	Heavy Equipment Crew	0.58	T12NR8W	2504200
DNR Region: OLY			HCP Unit: South Coast	
Road Construction	Timber Sale	0.44	T21NR10W	2601110
Road Construction	Timber Sale	0.7	T20NR10W	2600592
Road Construction	Timber Sale	0.94	T21NR9W	2600739
Road Construction	Timber Sale	0.57	T20NR9W	2601076
Road Construction	Timber Sale	2.29	T20NR12W	2602195
Road Reconstruction	Timber Sale	0.25	T20NR10W	2600592
Road Reconstruction	Timber Sale	0.12	T21NR9W	2600739
Road Reconstruction	Timber Sale	2.69	T20NR9W	2601076
Road Reconstruction	Timber Sale	0.63	T20NR12W	2602195
DNR Region: OLY			HCP Unit: OESF	
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	0.1	T27NR12W	2601024
Road Construction	Timber Sale	1.3	T31NR13W	2600628
Road Construction	Timber Sale	0.1	T26NR11W	2601024
Road Construction	Timber Sale	0.1	T26NR11W	2600429
Road Construction	Timber Sale	0.13	T27NR10W	2600429
Road Construction	Timber Sale	0.6	T30NR12W	2601246
Road Construction	Timber Sale	1.1	T24NR11W	2600084
Road Construction	Timber Sale	0.2	T32NR12W	2601129
Road Construction	Timber Sale	0.8	T30NR10&11W	2600458
Road Construction	Timber Sale	0.1	T30NR12W	2601195
Road Construction	Timber Sale	0.02	T27NR10W	15429
Road Construction	Timber Sale	0.1	T26NR11W	15429
Road Construction	Timber Sale	3.8	T32NR12W	2601129
Road Construction	Timber Sale	4.1	T25NR11W	15832
Road Construction	Timber Sale	1.48	T26NR11W	2601075
Road Construction	Timber Sale	1	T24NR11W	2600084
Road Construction	Timber Sale	0.25	T28NR13W	2602790
Road Construction	Timber Sale	0.19	T25NR11W	2601075
Road Construction	Timber Sale	1.8	T27NR13W	2600724
Road Construction	Timber Sale	0.25	T26NR11W	2601024
Road Construction	Timber Sale	0.1	T27NR10W	2600429
Road Construction	Timber Sale	0.4	T30NR10W	2600458
Road Construction	Timber Sale	2.4	T26NR11W	15429
Road Construction	Timber Sale	3.7	T31NR13W	2600628
Road Decommissioning	Timber Sale	0.7	T27NR13W	2601978
Road Decommissioning	Timber Sale	0.02	T27NR11W	15429
Road Decommissioning	Timber Sale	0.46	T26NR11W	15429
DNR Region: OLY			HCP Unit: Straits	
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	0.7	T31NR9W	2601641
Road Construction	Timber Sale	0.77	T28NR1W	2601077
Road Construction	Timber Sale	0.9	T31NR8W	2600436
Road Construction	Timber Sale	0.9	T29NR4W	2600435
Road Construction	Timber Sale	0.8	T30NR8W	2601313
Road Construction	Timber Sale	0.6	T28NR1W	2600882

DNR Region: SPS		HCP Unit: Straits		
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	0.2	T26NR2W	2601324
Road Construction	Timber Sale	2	T27&28NR1&2W	2601623
Road Construction	Timber Sale	0.43	T29NR2W	2602032
Road Construction	Timber Sale	0.2	T30NR4W	2600762
Road Construction	Timber Sale	0.25	T27NR1W	2600327
Road Reconstruction	Timber Sale	2.6	T29NR4W	2600435
Road Reconstruction	Timber Sale	0.22	T27NR1W	2600327
Road Reconstruction	Timber Sale	1.5	T27&28NR1W	2601623
Road Reconstruction	Timber Sale	1.05	T28NR1W	216972
Road Reconstruction	Timber Sale	0.29	T28NR1W	2600882
Road Reconstruction	Timber Sale	1.3	T28NR1W	2601077
Road Decommissioning	Heavy Equipment Crew	0.26	T29NR4W	*
Road Decommissioning	Heavy Equipment Crew	0.56	T28NR1E	*
Road Decommissioning	Timber Sale	0.2	T30NR4W	2600732
Road Decommissioning	Timber Sale	0.02	T27NR1W	2600327
Road Decommissioning	Timber Sale	0.1	T28NR1W	216972
Road Construction	Timber Sale	0.19	T21NR04W	2404786
Road Construction	Timber Sale	1.09	T23NR04W	2404467
Road Construction	Timber Sale	0.23	T23NR04W	2404920
Road Construction	Timber Sale	0.78	T23NR04W	2404624
Road Construction	Timber Sale	0.31	T24NR03W	2405539
Road Construction	Timber Sale	0.11	T23NR04W	2401873
Road Reconstruction	Timber Sale	0.4	T23NR04W	2402609
Road Reconstruction	Timber Sale	0.95	T21NR04W	2404786
Road Reconstruction	Timber Sale	0.31	T23NR04W	2404624
Road Reconstruction	Timber Sale	0.41	T24NR03W	2405539
Road Reconstruction	Timber Sale	0.51	T23NR03W	2405559
Road Decommissioning	Timber Sale	0.19	T21NR04W	2404786
DNR Region: SE		HCP Unit: Klickitat		
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	0.35	T6NR12E	2700329
Road Construction	Timber Sale	1.04	T5NR16E	2700896
Road Construction	Timber Sale	0.88	T5NR15E	2700215
Road Construction	Timber Sale	0.65	T4NR12E	2700414
Road Construction	Timber Sale	0.55	T4NR11E	2700434
Road Construction	Timber Sale	0.29	T6NR12E	2700256
Road Construction	Timber Sale	0.83	T6NR15E	2700458
Road Construction	Timber Sale	0.17	T7NR12E	2700041
Road Construction	Timber Sale	0.37	T5NR16E	2700896
Road Reconstruction	Timber Sale	0.09	T4NR11E	2700434
Road Reconstruction	Timber Sale	2.24	T5NR11E	2700330
Road Reconstruction	Timber Sale	4.16	T6NR15E	2700458
Road Reconstruction	Timber Sale	1.84	T6NR12E	2700458
Road Decommissioning	Timber Sale	0.15	T6NR12E	2700256
Road Decommissioning	Timber Sale	0.65	T4NR12E	2700414
DNR Region: SE		HCP Unit: Yakima		
Activity	Type	Miles	Location	FPA
Road Construction	Timber Sale	1.68	T16NR16E	2700611
Road Construction	Timber Sale	1.83	T17NR16E	2700480
Road Construction	Timber Sale	1.6	T20NR21E	2700351
Road Construction	Timber Sale	1.33	T21NR20E	2700418
Road Construction	Timber Sale	1.47	T20NR19E	2700710

DNR Region: SE		HCP Unit: Yakima		
Activity	Type	Miles	Location	FPA
Road Reconstruction	Timber Sale	0.09	T16NR16E	2700611
Road Reconstruction	Timber Sale	0.1	T17NR16E	2700480
Road Reconstruction	Timber Sale	2.75	T20NR19E	2700710
Road Reconstruction	Timber Sale	0.13	T20NR21E	2700351
Road Reconstruction	Timber Sale	0.13	T21NR20E	2700418
Road Reconstruction	Timber Sale	4.16	T6NR15E	2700458
Road Decommissioning	Timber Sale	0.91	T11NR13E	108437

Appendix D: Transactions

Disclaimer: Portions of this report were not available in their final electronic version. In some cases, missing sections were scanned. In other cases, modified draft versions, which look slightly different from the original print versions, were substituted. Although the formatting may look different from the print version of this report, in no case were the data changed in any way.

APPENDIX D

TRANSACTIONS

CHANGES to the LAND BASE

Effects of Transactions on Permit Lands---FY 1999

July 1, 1998 to June 30, 1999

Habitat Acquired

Habitat Disposed

Zones Acquired

Zones Disposed

Effects of Transactions on Permit Lands

January 30, 1997 to June 30, 1999

Habitat Acquired

Habitat Disposed

Zones Acquired

HCP Planning Unit Maps – Transactions for FY1999*

Lands Incoming to HCP

Lands Outgoing from HCP

Maps: Ownership Update Information

Maps Identifying transactions for FY1999

Data regarding location and activity

* Colored maps available with Transactions Section, and with HCP Coordinator

**Effects of Transactions on Permit Lands - July 1998 to June 1999
(Second Reporting Period)**

Nov. 8, 1999

Activity	Planning Unit							Totals	
	Chelan	Columbia	Klickitat	N Puget	OESF	S Coast	S Puget		
Total Acres Acquired	200	26	217	2326	1424	660	59	4913	
Total Acres Disposed	0	-131	0	-160	0	0	-81	-372	
Net Change	200	-106	217	2166	1424	660	-21	4541	
Notes:	Acreage includes trust land acquired and disposed of through real estate transactions, and all special lands acquisitions. Parcel information and maps are attached.								
Owl Habitat									
Acquired	Designated Dispersal	0	0	0	0	0	0	0	
	Existing Dispersal (41+)	0	0	0	0	0	0	0	
	Designated NRF	200	0	217	0	0	0	417	
	Existing NRF (71+)	0	0	0	0	0	0	0	
	OESF	0	0	0	0	1424	0	1424	
	No Role	0	26	0	2326	0	660	59	3072
Owl Habitat	Designated Dispersal	0	0	0	0	0	0	0	
Disposed	Existing Dispersal (41+)	0	0	0	0	0	0	0	
	Designated NRF	0	0	0	0	0	0	0	
	Existing NRF (71+)	0	0	0	0	0	0	0	
	OESF	0	0	0	0	0	0	0	
	No Role	0	-131	0	-160	0	0	-81	-372
Notes:	Age class is used as surrogate for owl habitat. - Age classes over 41 years on designated dispersal parcels are considered existing dispersal. -Age classes over 71 years on designated NRF parcels are considered existing NRF. -All acres acquired in the OESF unit are within or adjacent to owl circles.								
Other	Murrelet	0	0	0	0	0	0	0	
Habitats	Oregon silverspot butterfly	0	0	0	0	0	0	0	
Acquired	Aleutian Canadian goose	0	0	0	0	0	0	0	
	Bald eagle	0	0	0	0	0	0	0	
	Peregrine falcon	0	0	0	0	0	0	0	
	Gray wolf	0	0	0	0	0	0	0	
	Grizzly bear	0	0	0	0	0	0	0	
	Columbia white-tailed deer	0	0	0	0	0	0	0	
	Talus and cliffs	0	0	0	0	0	0	0	
	Meadows	102	0	70	0	0	0	173	
Other	Murrelet	0	0	0	0	0	0	0	
Habitats	Oregon silverspot butterfly	0	0	0	0	0	0	0	
Disposed	Aleutian Canadian goose	0	0	0	0	0	0	0	
	Bald eagle	0	0	0	0	0	0	0	
	Peregrine falcon	0	0	0	0	0	0	0	
	Gray wolf	0	0	0	0	0	0	0	
	Grizzly bear	0	0	0	0	0	0	0	
	Columbia white-tailed deer	0	-117	0	0	0	0	-117	
	Talus and cliffs	0	0	0	-17	0	0	-17	
	Meadows	0	-82	0	0	0	0	-82	
Notes:	A 117-acre parcel was transferred to the USFWS for inclusion in a wildlife refuge for columbia white-tailed deer. Talus & cliff acreage based on interpretation of aerial photos.								

Activity	Planning Unit							Totals	
	Chelan	Columbia	Klickitat	N Puget	OESF	S Coast	S Puget		
Riparian:									
Stream Miles	Stream type 1	0.0	0.0	0.8	0.0	0.0	0.8	0.0	1.7
Acquired	Stream type 2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.4
	Stream type 3	0.0	0.0	1.0	1.2	1.2	1.2	0.3	4.8
	Stream type 4	1.0	0.0	0.0	2.1	2.1	0.6	0.0	5.7
	Stream type 5	0.5	0.2	0.0	3.2	3.2	2.1	0.0	9.2
	Stream type 9	1.3	0.0	0.1	2.3	2.2	5.3	0.0	11.3
ROS/Slopes	Rain on Snow	0	0	217	746	0	0	0	963
Acquired	Unstable Slopes	1	0	0	13	494	0	4	512
<i>Stream Miles</i>	<i>Stream type 1</i>	<i>0.0</i>	<i>-0.3</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.3</i>
<i>Disposed</i>	<i>Stream type 2</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.3</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.3</i>
	<i>Stream type 3</i>	<i>0.0</i>	<i>-1.4</i>	<i>0.0</i>	<i>-0.1</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-1.5</i>
	<i>Stream type 4</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.4</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.4</i>
	<i>Stream type 5</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
	<i>Stream type 9</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.2</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.2</i>
<i>ROS/Slopes</i>	<i>Rain on Snow</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>Disposed</i>	<i>Unstable Slopes</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>-45</i>	<i>0</i>	<i>0</i>	<i>4</i>	<i>-41</i>
Stream types and length are based on GIS forest practices data.									
Rain on snow and unstable slopes acreage based on GIS data.									
Zones:	Interior Douglas Fir	200	0	217	0	0	0	0	417
Acquired	Mt Hemlock	0	0	0	0	0	0	0	0
	Puget Sound Douglas Fir	0	0	0	10	0	0	59	70
	Silver Fir	0	0	0	0	0	0	0	0
	Sitka Spruce	0	0	0	0	839	40	0	878
	Western Hemlock	0	26	0	2316	586	621	0	3548
	Total Acres								4913
<i>Zones:</i>	<i>Interior Douglas Fir</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>Disposed</i>	<i>Mt Hemlock</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>-160</i>	<i>0</i>	<i>0</i>	<i>-81</i>	<i>-241</i>
	<i>Puget Sound Douglas Fir</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
	<i>Silver Fir</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
	<i>Sitka Spruce</i>	<i>0</i>	<i>-131</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>-131</i>
	<i>Western Hemlock</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
	Total Acres								-372

General Notes:

No activity occurred in the Straits or Yakima planning units this reporting period.

Non-timber effects and road effects are included in the report prepared by Property Management Section.

Effects of Transactions on Permit Lands - January 1997 to June 1999

Nov - 8-99

(Cumulative)

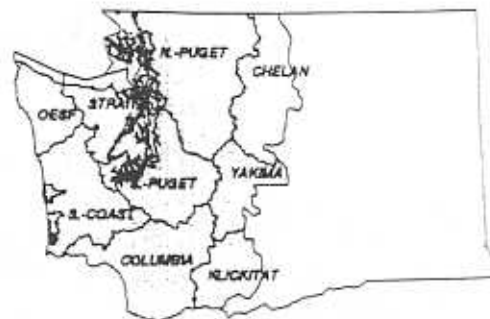
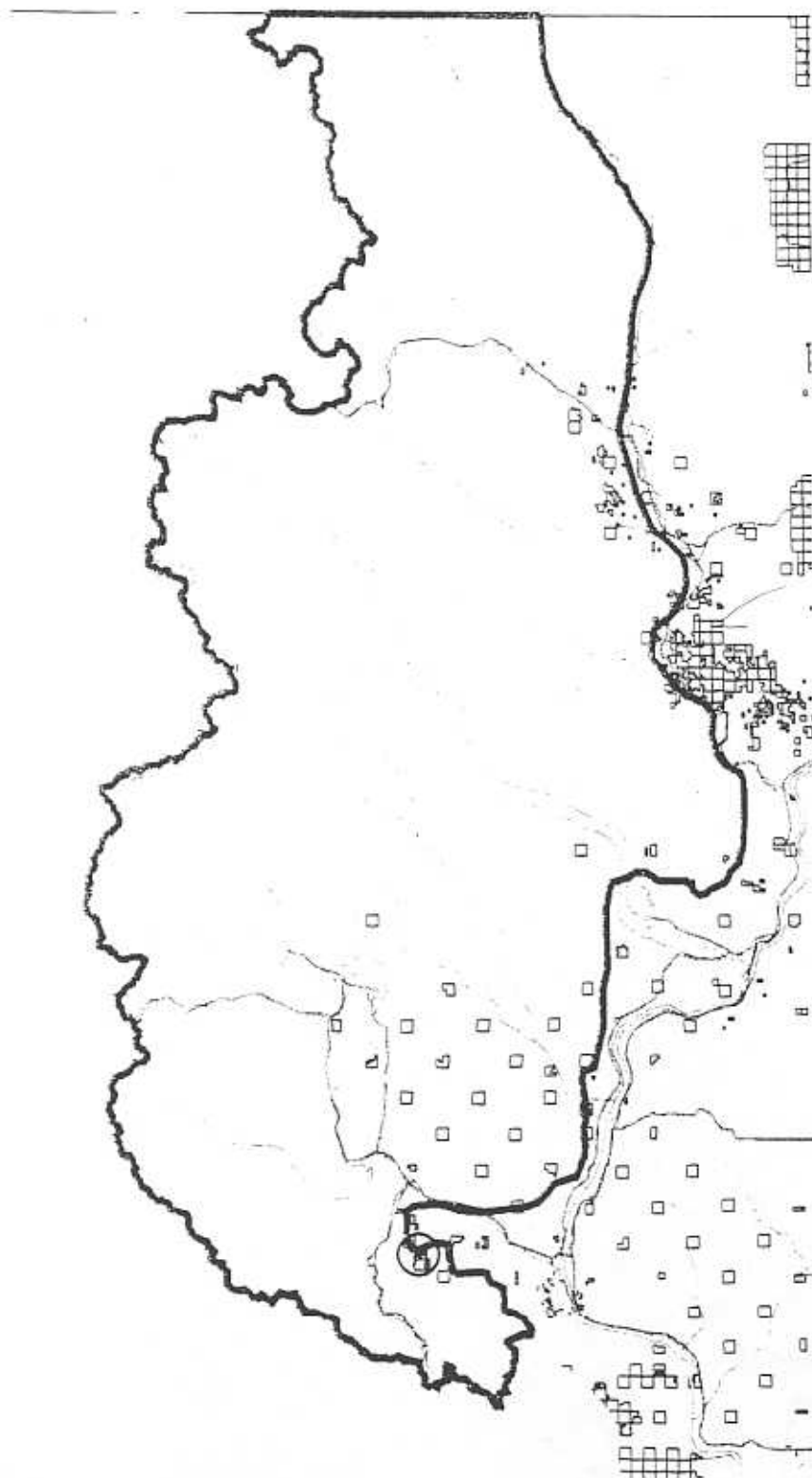
Activity	Planning Unit								Totals	
	Chelan	Columbia	Klickitat	N Puget	OESF	S Coast	S Puget	Straits		
Total Acres Acquired	201	5446	847	10890	3181	1476	5202	1	27243	
Total Acres Disposed	0	-5678	0	-3096	-838	-1680	-2157	0	-13449	
Net Change	201	-232	847	7794	2343	-204	3045	1	13795	
Notes:	Acreage includes trust land acquired and disposed of through real estate transactions, and all special lands acquisitions.									
Owl Habitat	Designated Dispersal	0	0	0	10	0	0	4470	0	4480
Acquired	Existing Dispersal (41+)	0	0	0	10	0	0	2193	0	2203
	Designated NRF	201	320	847	1916	0	0	0	0	3284
	Existing NRF (71+)	0	17	126	0	0	0	0	0	143
	OESF	0	0	0	0	3181	0	0	0	3181
	No Role	0	5126	0	8964	0	1476	732	1	16299
Owl Habitat	Designated Dispersal	0	-3411	0	-734	0	-560	-100	0	-4805
Disposed	Existing Dispersal (41+)	0	-1174	0	-109	0	-39	-93	0	-1415
	Designated NRF	0	-1285	0	-122	0	0	0	0	-1406
	Existing NRF (71+)	0	-389	0	0	0	0	0	0	-389
	OESF	0	0	0	0	-838	0	0	0	-838
	No Role	0	-983	0	-2240	0	-1120	-2057	0	-6400
Notes:	Age class is used as surrogate for owl habitat. ~ Age classes over 41 years on designated dispersal parcels are considered existing dispersal. ~ Age classes over 71 years on designated NRF parcels are considered existing NRF. All acres acquired in the OESF unit are within or adjacent to owl circles.									
Other	Murrelet	0	0	0	0	0	0	0	0	0
Habitats	Oregon silverspot butterfly	0	0	0	0	0	0	0	0	0
Acquired	Aleutian Canadian goose	0	0	0	0	0	0	0	0	0
	Bald eagle	0	0	0	20	0	0	0	0	20
	Peregrine falcon	0	0	0	0	0	0	0	0	0
	Gray wolf	0	0	0	0	0	0	0	0	0
	Grizzly bear	0	0	0	0	0	0	0	0	0
	Columbia white-tailed deer	0	0	0	0	0	0	0	0	0
	Talus and cliffs	0	0	0	325	0	0	0	0	325
	Meadows	102	0	70	0	0	0	0	0	173
	Fish:									
Stream Miles	Ret. Sculpin	0	0	0	0	1.2	0	0	0	1.2
	Tor. Sculpin	0	0	0	0	1.2	0	0	0	1.2
	Lower Col. Steelhead	0	0	0	0	0	0	0	0	0.0
	Bulltrout	0	0	0	0	0	0	0	0	0.0
Other	Murrelet	0	-568	0	0	0	0	0	0	-568
Habitats	Oregon silverspot butterfly	0	0	0	0	0	0	0	0	0
Disposed	Aleutian Canadian goose	0	0	0	0	0	0	0	0	0
	Bald eagle	0	0	0	-5	-49	0	0	0	-54
	Peregrine falcon	0	0	0	0	0	0	0	0	0
	Gray wolf	0	0	0	0	0	0	0	0	0
	Grizzly bear	0	0	0	0	0	0	0	0	0
	Columbia white-tailed deer	0	-117	0	0	0	0	0	0	-117
	Talus and cliffs	0	-87	0	-20	0	0	0	0	-107
	Meadows	0	-82	0	0	0	0	0	0	-82
	Fish:									
Stream Miles	Mudminnow	0	0	0	0	0	-3.0	0	0	-3.0
	Lower Col. Steelhead	0	0	0	0	0	0	0	0	0.0
	Bulltrout	0	0	0	0	0	0	0	0	0.0
Notes:	Murrelet: Unoccupied habitat. Believed to be outside usage range at time of trade. DNR study of 12/98 shows suitable stands east of 1-5 are not Eagle: No nest sites are on any acquired or disposed parcels; however, due to adjacency, some breeding and communal roost territories have been exchanged. A 117-acre parcel was transferred to USFWS for inclusion in a wildlife refuge for columbia white-tailed deer. Talus & cliff acreage based on interpretation of aerial photos.									

Activity	Planning Unit								Totals	
	Chelan	Columbia	Klickitat	N Puget	OESF	S Coast	S Puget	Straits		
Riparian:										
Stream Miles	Stream type 1	0.0	1.9	2.8	12.6	0.3	3.8	0.9	0.0	22.4
Acquired	Stream type 2	0.0	0.0	1.1	0.2	1.0	0.0	0.0	0.0	2.4
	Stream type 3	0.0	8.2	1.0	11.6	7.2	2.6	1.6	0.0	32.3
	Stream type 4	1.0	9.9	0.0	14.6	2.2	2.1	5.0	0.0	34.8
	Stream type 5	0.5	34.5	0.3	27.0	9.0	3.9	18.6	0.0	93.7
	Stream type 9	1.3	39.2	2.0	20.8	4.8	8.4	11.0	0.0	87.5
ROS/Slopes	Rain on Snow	0	1039	787	2585	4	0	1579	0	5995
Acquired	Unstable Slopes	1	809	0	817	1137	116	4	0	2885
<i>Stream Miles</i>	<i>Stream type 1</i>	<i>0.0</i>	<i>-0.3</i>	<i>0.0</i>	<i>-2.0</i>	<i>-0.3</i>	<i>0.0</i>	<i>-0.2</i>	<i>0.0</i>	<i>-2.7</i>
<i>Disposed</i>	<i>Stream type 2</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>-0.3</i>	<i>0.0</i>	<i>-1.9</i>	<i>0.0</i>	<i>0.0</i>	<i>-2.3</i>
	<i>Stream type 3</i>	<i>0.0</i>	<i>-2.7</i>	<i>0.0</i>	<i>-11.4</i>	<i>-2.2</i>	<i>-1.2</i>	<i>-1.0</i>	<i>0.0</i>	<i>-18.6</i>
	<i>Stream type 4</i>	<i>0.0</i>	<i>-7.0</i>	<i>0.0</i>	<i>-0.4</i>	<i>-1.7</i>	<i>-3.0</i>	<i>-0.9</i>	<i>0.0</i>	<i>-13.0</i>
	<i>Stream type 5</i>	<i>0.0</i>	<i>-26.2</i>	<i>0.0</i>	<i>-3.0</i>	<i>-5.2</i>	<i>-6.8</i>	<i>-1.2</i>	<i>0.0</i>	<i>-42.4</i>
	<i>Stream type 9</i>	<i>0.0</i>	<i>-29.8</i>	<i>0.0</i>	<i>-1.2</i>	<i>0.0</i>	<i>-6.6</i>	<i>-4.8</i>	<i>0.0</i>	<i>-42.4</i>
ROS/Slopes	Rain on Snow	0	-2156	0	-537	-78	-20	-162	0	-2953
Disposed	Unstable Slopes	0	-1110	0	-378	-14	-32	-35	0	-1569
Notes:	Stream types and length are based on GIS forest practices data. Rain on snow and unstable slopes acreage based on GIS data.									
Zones:	Interior Douglas Fir	201	0	847	0	0	0	0	0	1048
Acquired	Mt Hemlock	0	0	0	0	0	0	0	0	0
	Puget Sound Douglas Fir	0	0	0	68	0	0	124	1	193
	Silver Fir	0	0	0	5401	0	9	0	0	5410
	Sitka Spruce	0	0	0	0	920	292	0	0	1212
	Western Hemlock	0	5446	0	5421	2261	1176	5078	0	19380
	Total Acres									27243
Zones:	Interior Douglas Fir	0	0	0	0	0	0	0	0	0
Disposed	Mt Hemlock	0	0	0	-215	0	0	0	0	-215
	Puget Sound Douglas Fir	0	0	0	-360	0	0	-1303	0	-1663
	Silver Fir	0	-645	0	-411	0	0	0	0	-1056
	Sitka Spruce	0	0	0	0	-54	-1120	0	0	-1174
	Western Hemlock	0	-5033	0	-2111	-784	-560	-853	0	-9340
	Total Acres									-13449

General Notes:

Non-timber effects and road effects are included in the report prepared by Property Management Section.
No activity occurred in the Straits or Yakima planning units during this reporting period.

Department of Natural Resources
Habitat Conservation Plan Land Status FY 1999
Chelan Planning Unit

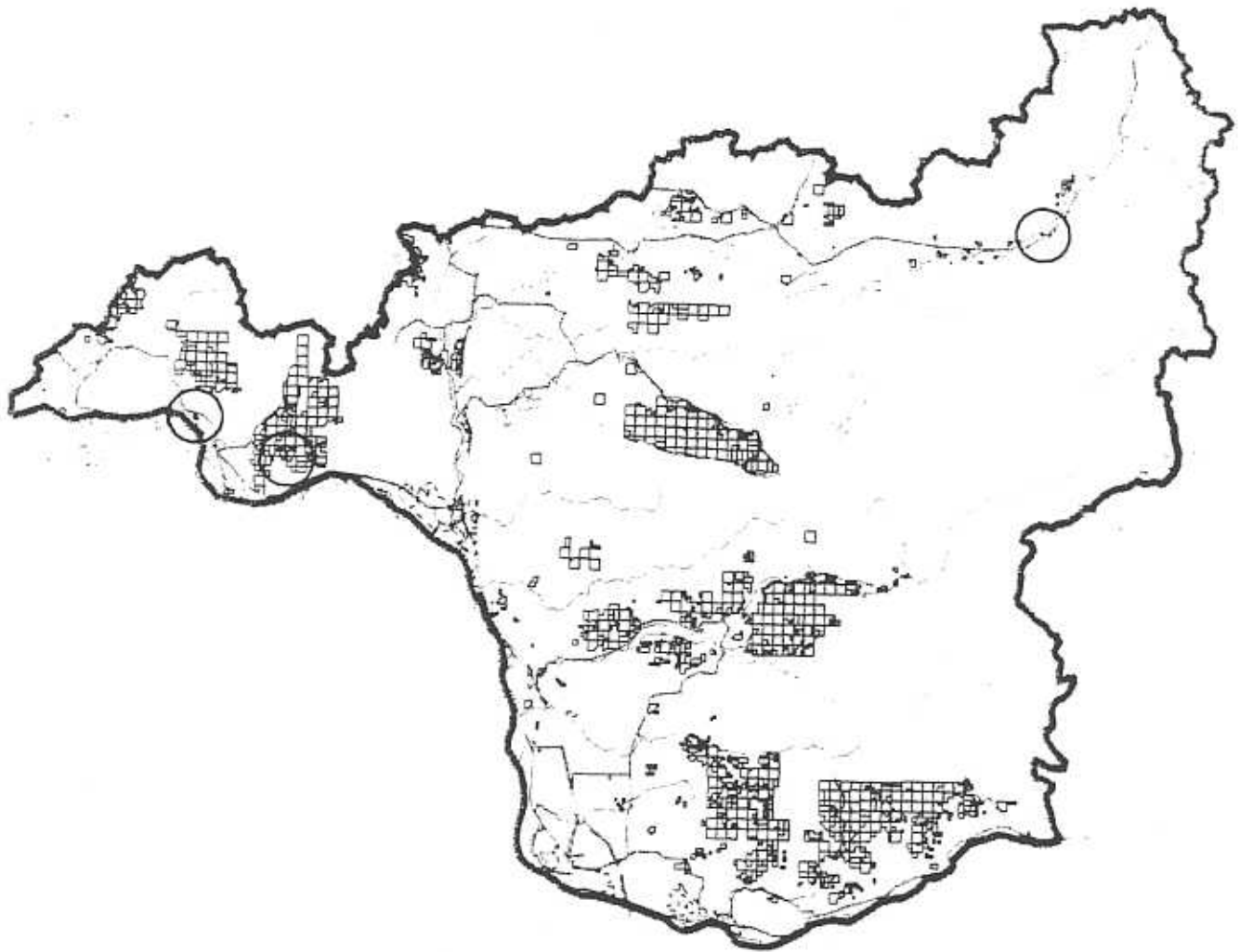






Incoming HCP Acres: 179
Outgoing HCP Acres: 0



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Balcher - Commissioner of Public Lands
144XCT-4/99

Department of Natural Resources
 Habitat Conservation Plan Land Status FY 1999
 Columbia Planning Unit



-  DNR Managed Lands
-  FY99 Incoming Lands
-  FY99 Outgoing Lands
-  Planning Unit Boundary

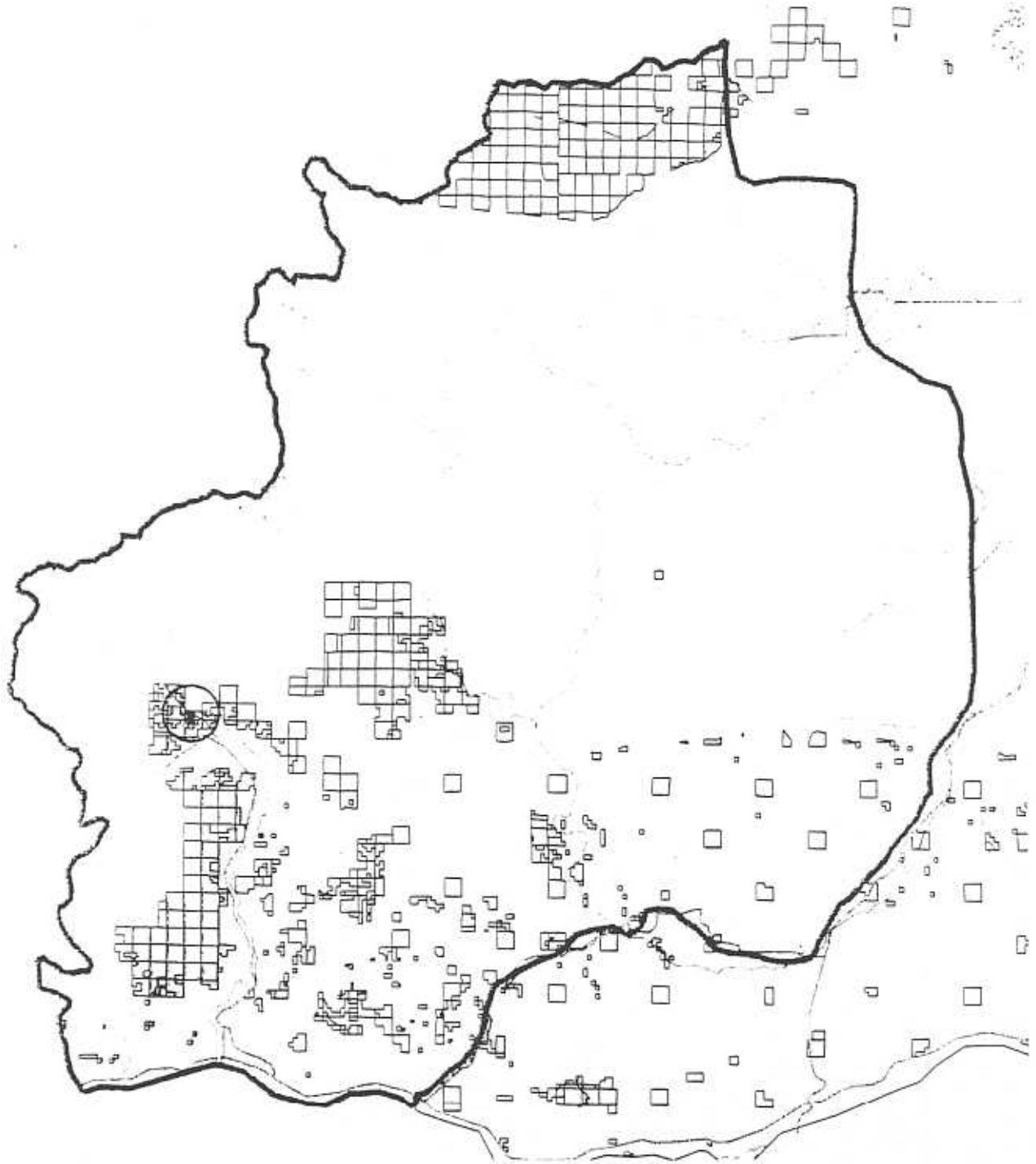






Incoming HCP Acres: 32
 Outgoing HCP Acres: 126



WASHINGTON STATE DEPARTMENT OF
Natural Resources
 Jennifer M. Belscher - Commissioner of Public Lands
 14-OCT-1999

Department of Natural Resources
Habitat Conservation Plan Land Status FY 1999
Klickitat Planning Unit



-  DNR Managed Lands
-  FY99 Incoming Lands
-  FY99 Outgoing Lands
-  Planning Unit Boundary

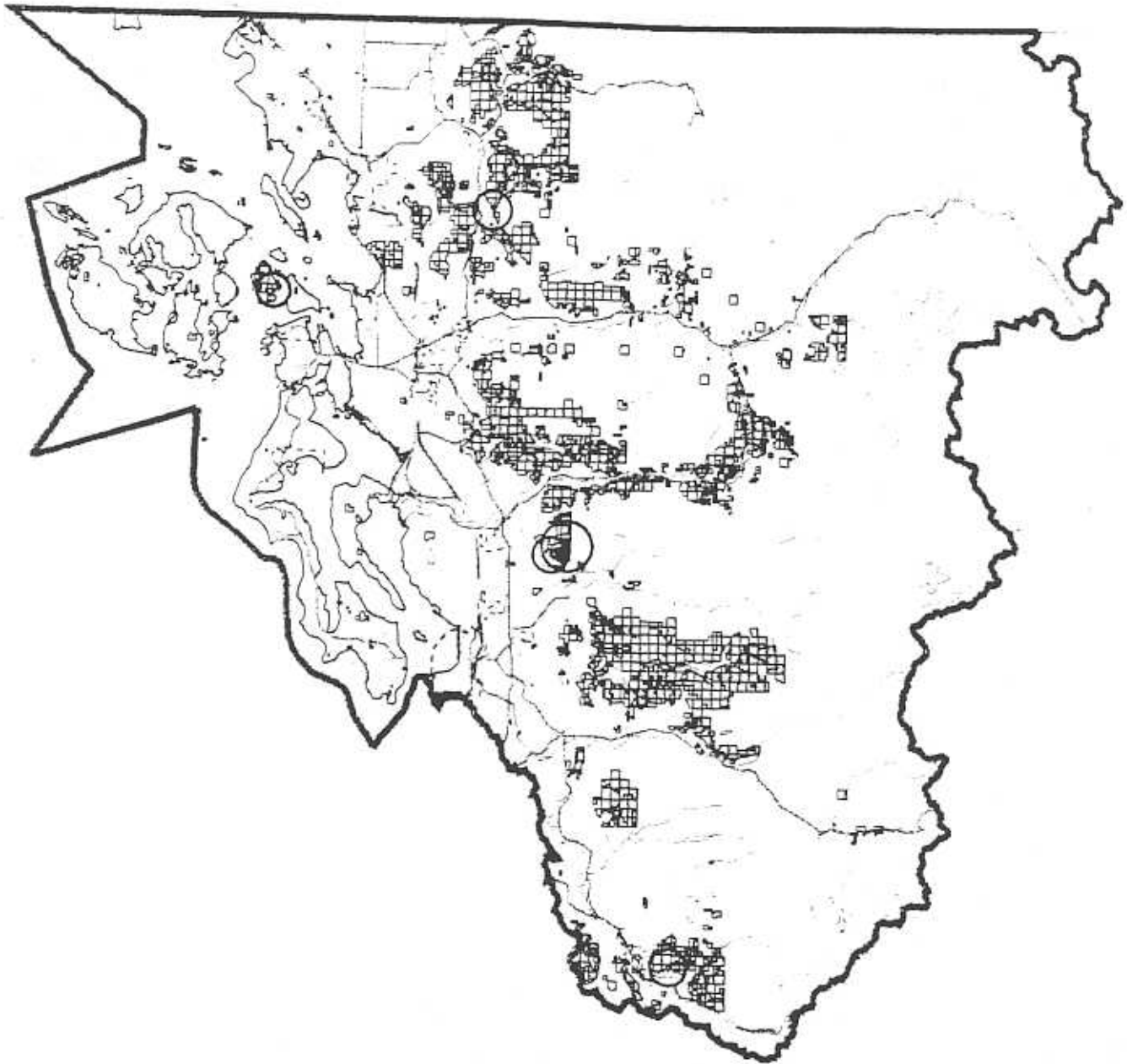






Incoming HCP Acres: 217
Outgoing HCP Acres: 0



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Searles | Commissioner of Public Lands
144OCT-4WA

Department of Natural Resources
 Habitat Conservation Plan Land Status FY 1999
 North Puget Planning Unit



-  DNR Managed Lands
-  FY99 Incoming Lands
-  FY99 Outgoing Lands
-  Planning Unit Boundary

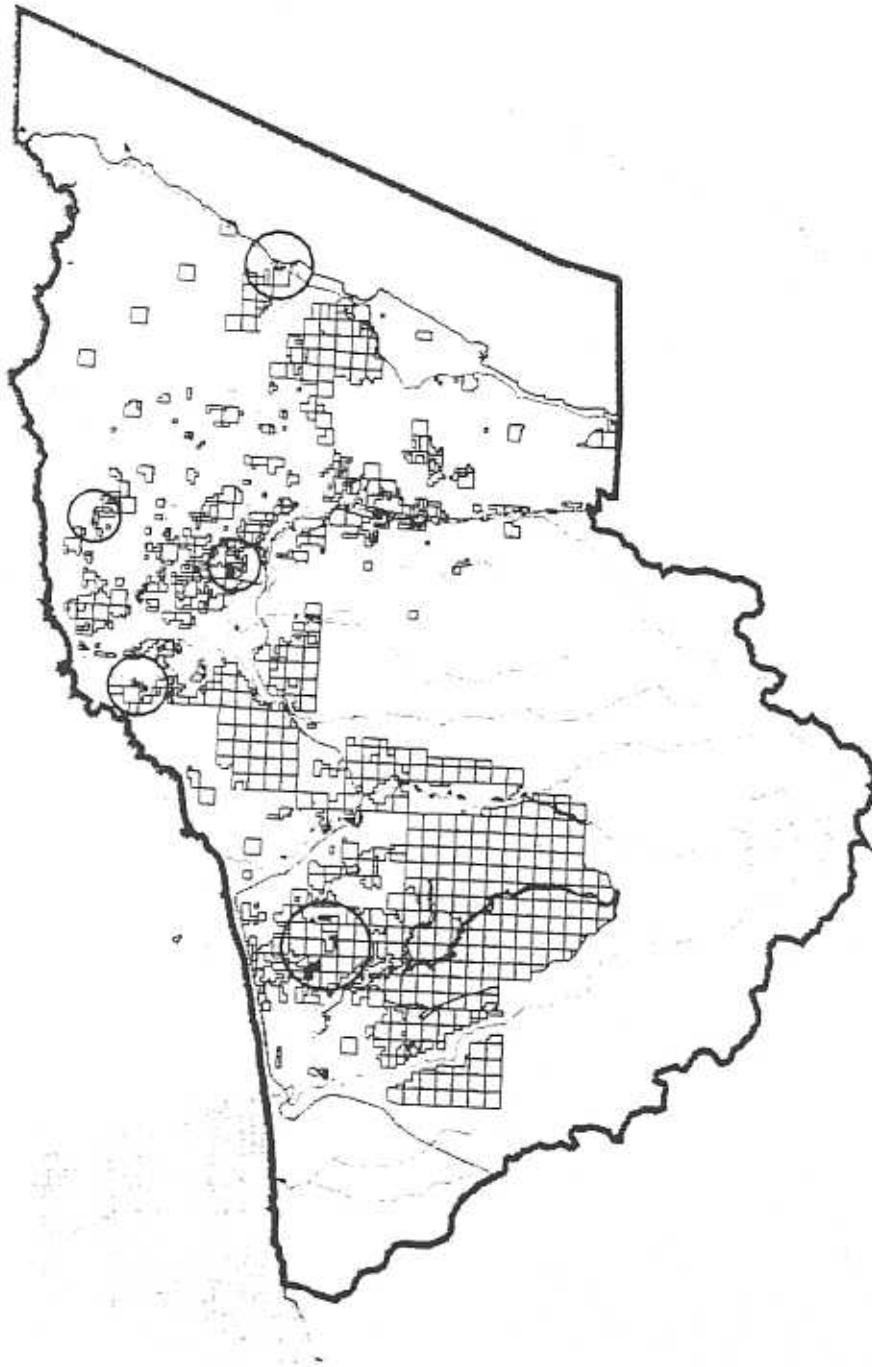






Incoming HCP Acres: 2,305
 Outgoing HCP Acres: 398

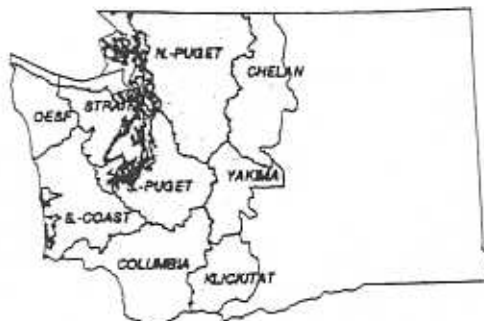


WASHINGTON STATE DEPARTMENT OF
Natural Resources
 Justice M. Becker, Commissioner of Public Lands
 144 XT-1999

Department of Natural Resources
 Habitat Conservation Plan Land Status FY 1999
 Olympic Experimental State Forest Planning Unit



-  DNR Managed Lands
-  FY99 Incoming Lands
-  FY99 Outgoing Lands
-  Planning Unit Boundary



Incoming HCP Acres: 1,401
 Outgoing HCP Acres: 0

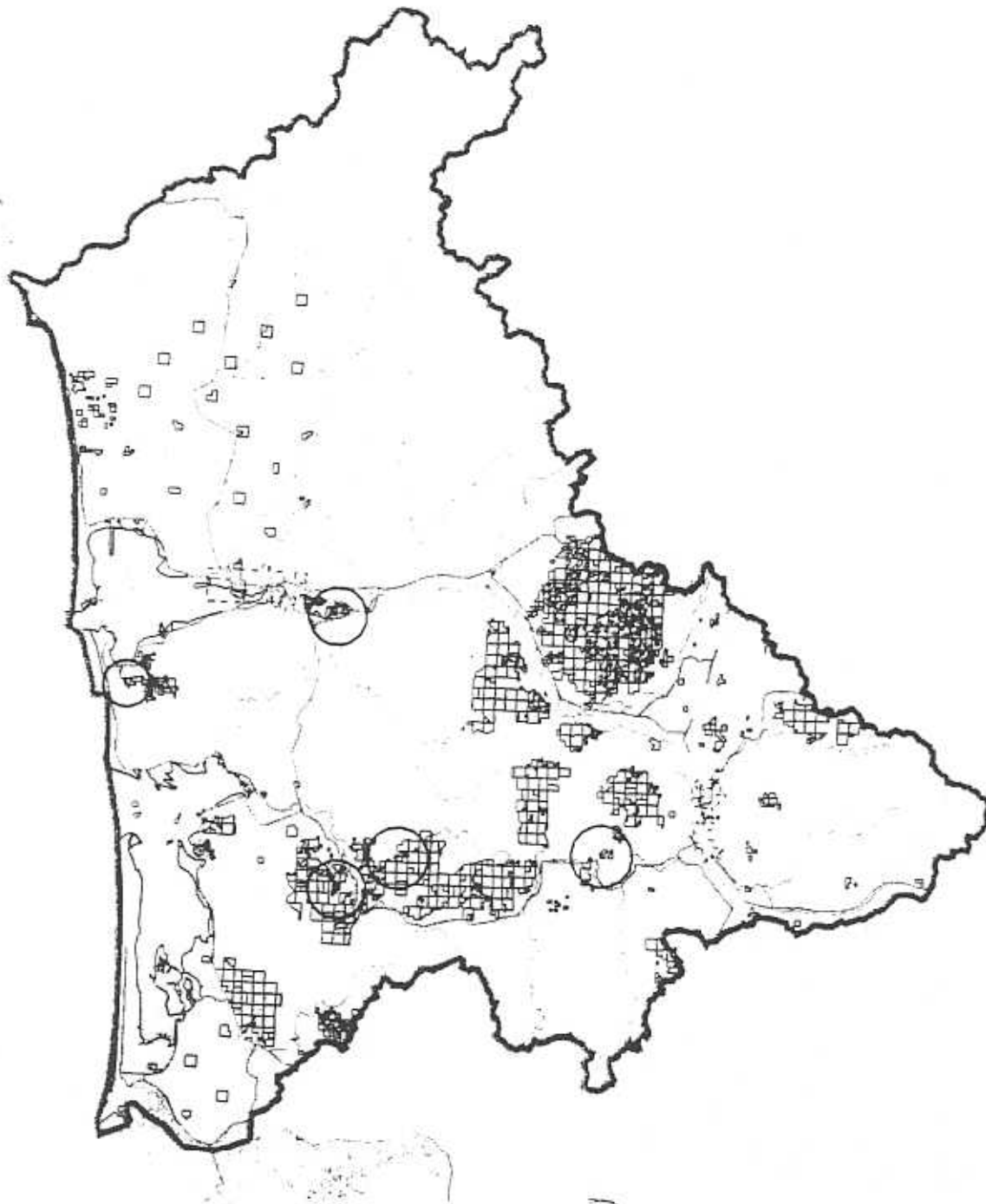






WASHINGTON STATE DEPARTMENT OF
Natural Resources

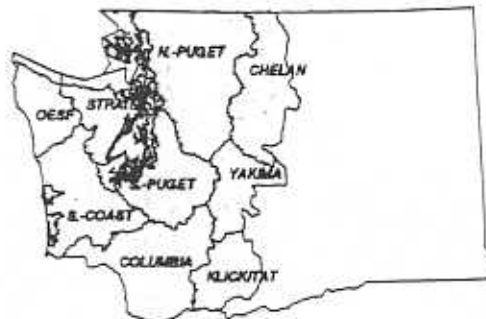
Janice M. Beahm, Commissioner of Public Lands

14 OCT 1999

Department of Natural Resources
Habitat Conservation Plan Land Status FY 1999
South Coast Planning Unit



-  DNR Managed Lands
-  FY99 Incoming Lands
-  FY99 Outgoing Lands
-  Planning Unit Boundary



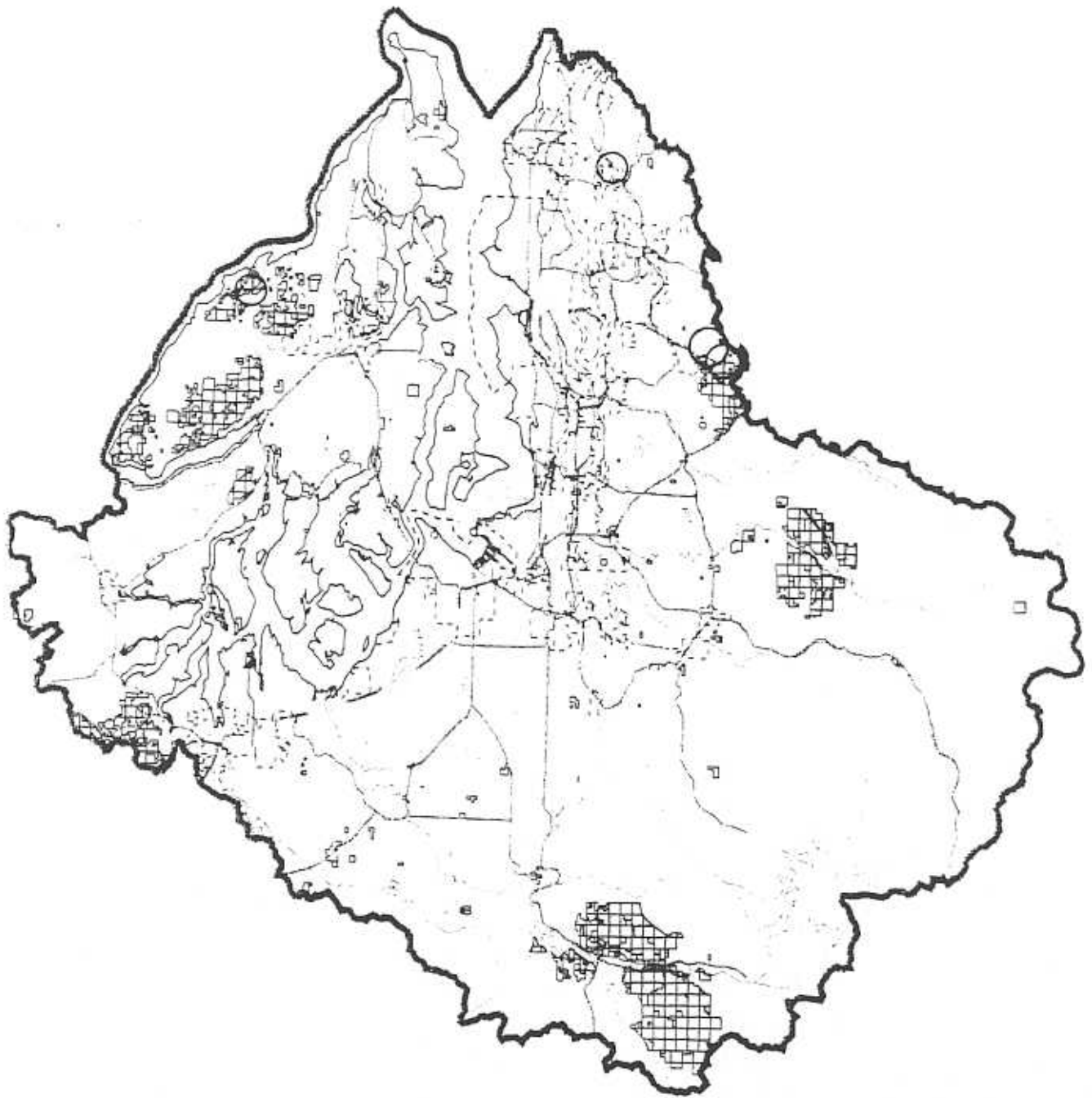
Incoming HCP Acres: 660





Outgoing HCP Acres: 0

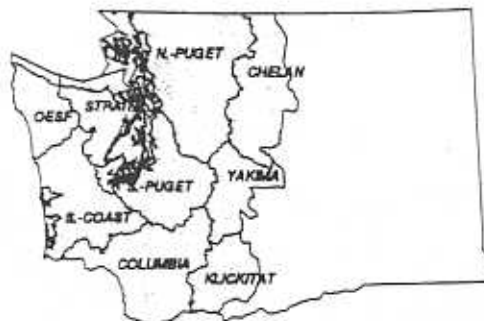


WASHINGTON STATE DEPARTMENT OF
Natural Resources
Javelle M. Becher - Commissioner of Public Lands
14-OCT-1999

Department of Natural Resources
Habitat Conservation Plan Land Status FY 1999
South Puget Planning Unit



-  DNR Managed Lands
-  FY99 Incoming Lands
-  FY99 Outgoing Lands
-  Planning Unit Boundary

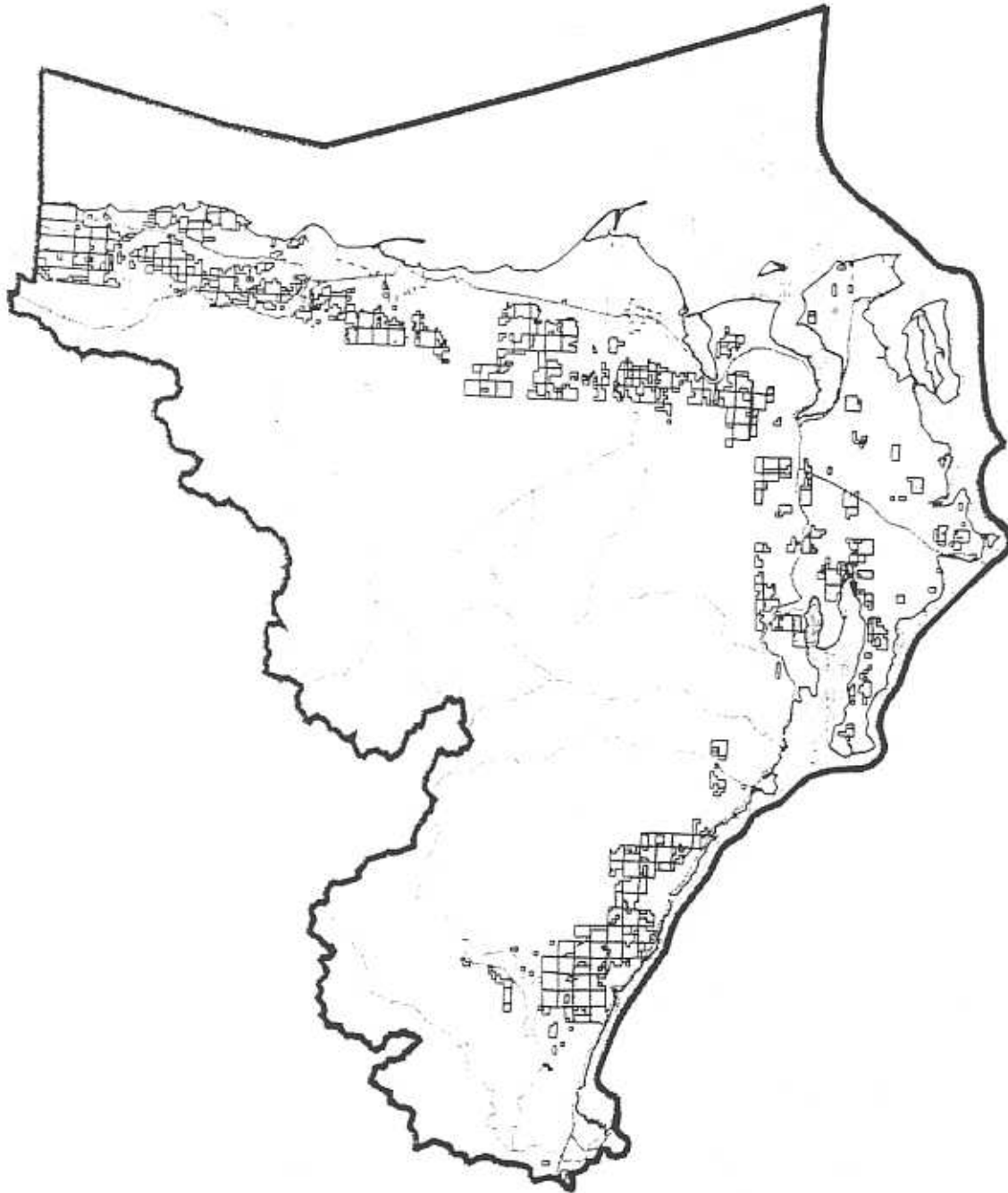






Incoming HCP Acres: 67
Outgoing HCP Acres: 81

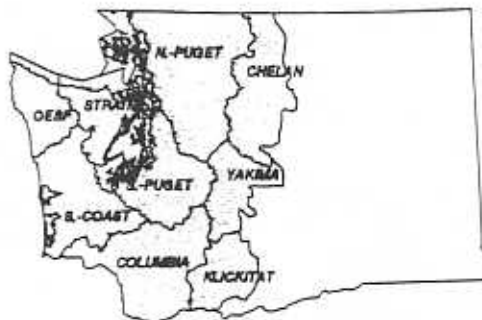


WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Beaker - Commissioner of Public Lands
14-OCT-1999

Department of Natural Resources
Habitat Conservation Plan Land Status FY 1999
Straits Planning Unit



-  DNR Managed Lands
-  FY99 Incoming Lands
-  FY99 Outgoing Lands
-  Planning Unit Boundary



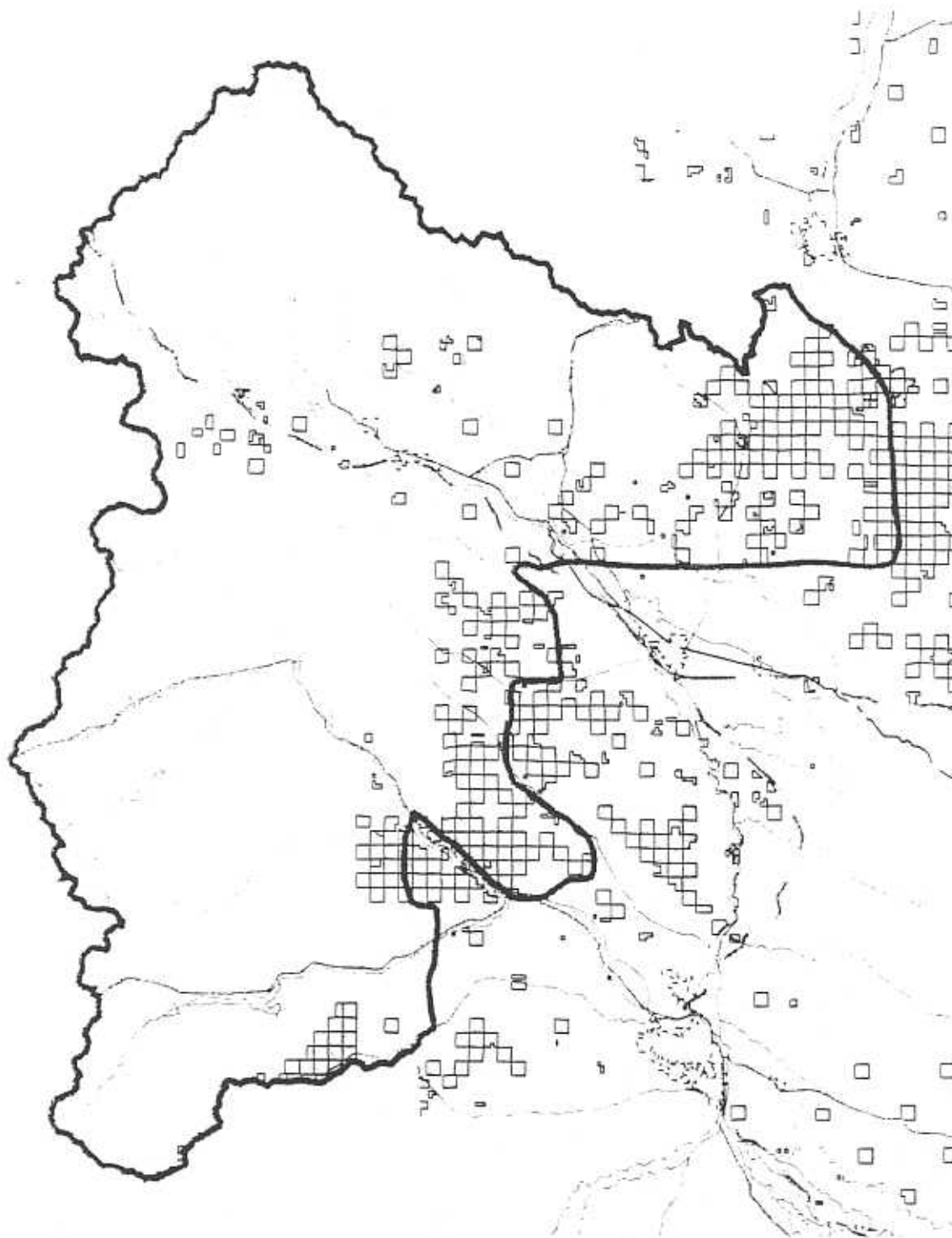
Incoming HCP Acres: 0
Outgoing HCP Acres: 0







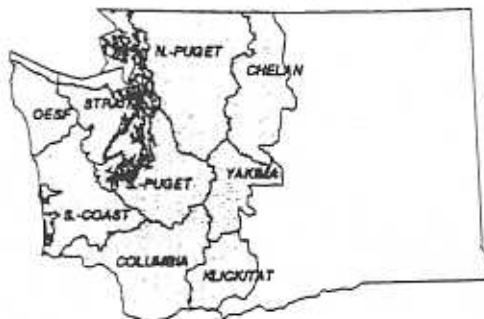
WASHINGTON STATE DEPARTMENT OF
Natural Resources
Janet M. Becker, Commissioner of Public Lands

144XLT-4-99

Department of Natural Resources
 Habitat Conservation Plan Land Status FY 1999
 Yakima Planning Unit



-  DNR Managed Lands
-  FY99 Incoming Lands
-  FY99 Outgoing Lands
-  Planning Unit Boundary



Incoming HCP Acres: 0
 Outgoing HCP Acres: 0

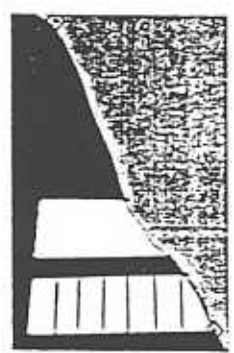
Township/Range: 36N R1E Section: 27
 County: Skagit Legal Acres: 5.3±
 Legal Description: S2 S2, S2 N2 S2 Govt Lot 1 Program Index: 924-105
 Purchase: (Sungson) Cypress Island NRCA Exchange: _____
 Sale: _____ Other: _____

Surface Trust: 75
 Mineral Trust: 75
 Timber Trust: 75
 Contract Trust: _____
CONTRACTS (trust code for lands sold under contract)
 Tim. Who: _____
(non-DNR party involved in timbered land exchange)
 Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)

Included in HCP: yes Designation: no role
(NRF, Dispersed, No Role)
 HCP Inclusion - Year: 1999 Month: January
 Comments: NRCA - credited as HCP land
(justification for parcel not being in the HCP)

Other Sensitive Species Designation: _____

Township: t36r01e
 Section: 27



 Forest Board
(Forest Board Transfer,
 Forest Board Purchase)
 Granted Trusts
 NRCA, NRP
(Natural Resource
 Conservation Area,
 Natural Area Preserve)

 DNR Land Sale
 DNR Land Exchanged
 DNR Land Transfer
 Land Purchase or
 Land Acquired (through
 land exchange)



DNR Ownership Update Information Date: _____
Resource Planning & Asset Mgmt. Division

Surface Trust: _____

Mineral Trust: 75

Timber Trust: 75

Township/Range: T35N, R1E Section: 4

County: Skagit Legal Acres: 5 ±

Legal Description: Gas Lot 2 Program Index: 924-105

Contract Trust: _____
CONTRTS (trust code for lands sold under contract)

Tim.Who: _____
Inn-DNR party involved in timbered land exchange

Tim.Yr: _____ Tim.Mo: _____
Timber removal deadline on land exchange parcel

Flag: _____
(warning to check tract book for details)

Purchase: 12-30-98 Exchange: _____
Cypress Island NRCA

Sale: _____ Other: _____

Included in HCP: yes Designation: no role
(NRF, Disposal, No Role)

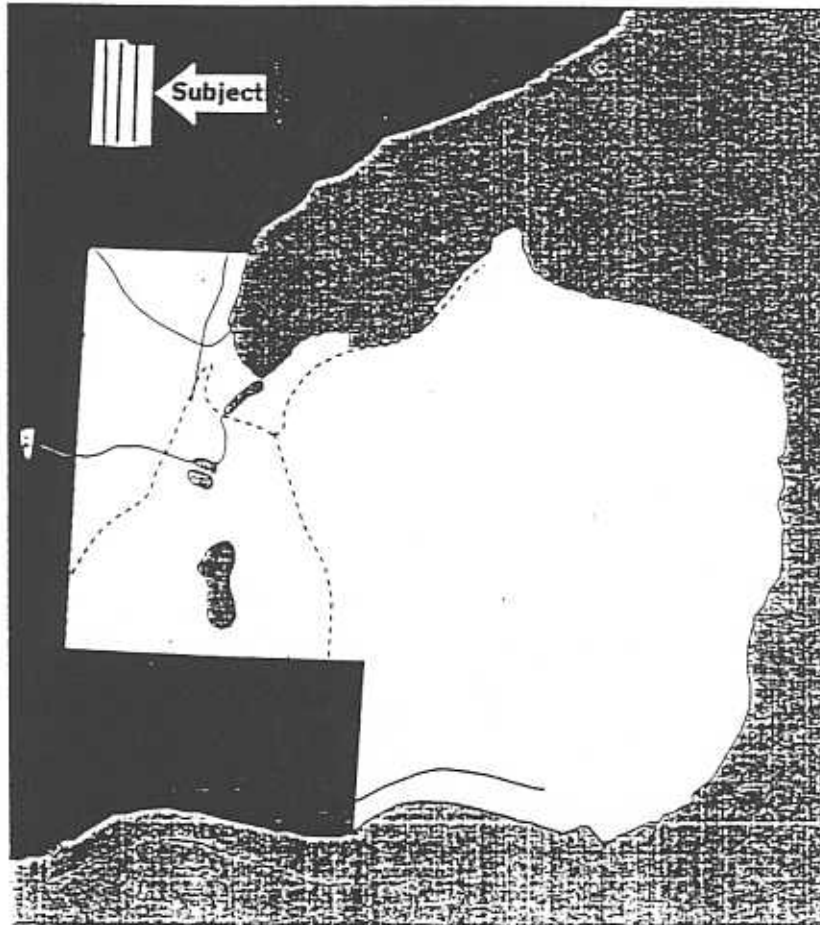
Other Sensitive Species Designation: _____


HCP Inclusion - Year: 1998 Month: December


Comments: NRCA - credited as HCP land.


(Justification for parcel not being in the HCP)

*Cypress Island NRCA - Skagitians to
Township: t35r01e
Section: 4
Preserve Farmland*



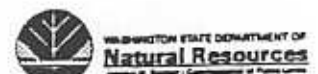
 Forest Board
(Forest Board Transfer,
Forest Board Purchase)

 Gravel Trusts

 NRCA, NAP
(Natural Resources
Conservation Areas,
Natural Area Preserves)

 DNR Land Sale
DNR Land Exchanged
DNR Land Transfer

 Land Purchase or
Land Acquired (through
land exchange)



10-SEP-1999

Ownership Update Information Date: 4-14-99
Resource Planning & Asset Mgmt. Division

Surface Trust: 75
Mineral Trust: 75
Timber Trust: 75

Township/Range: 23N/8E Section: 12

County: King Legal Acres: 5±

Legal Description: E2 SE4 NW4 NE4 Program Index: 922

Purchase: MSI NRCA Exchange: _____

Sale: (Hulman-MS03) Other: _____

Contract Trust: _____
CONTRACTS (trust made for lands sold under contract)
Tim. Who: _____
(non-DNR party involved in timbered land exchange)
Tim. Yr: _____ Tim. Mo: _____
(timber removal deadlines on land exchange parcel)
Flag: _____
(warning to check tract book for details)

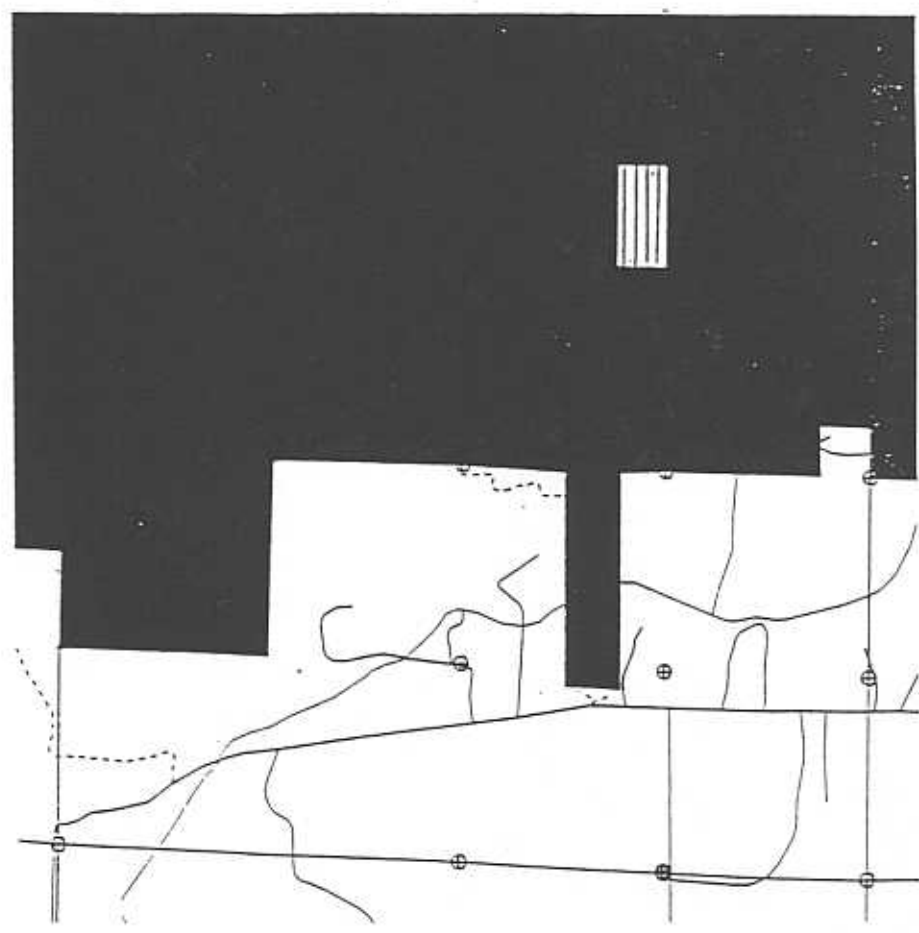
Included in HCP: yes Designation: no role
(NRF, Dispersal, No Role)

Other Sensitive Species Designation: _____

HCP Inclusion - Year: 1999 Month: January

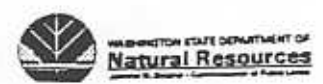
Comments: NRCA - credited as HCP land
(verification for parcel not being in the HCP)

Township: t23r08e
Section: 12



 Forest Board
(Forest Board Transfer,
Forest Board Purchase)
 Granted Trusts
 NRCA, NAP
(Natural Resources
Conservation Areas,
Natural Area Preserves)

 DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
 Land Purchase or
Land Acquired (through
land exchange)



DNR Ownership Update Information Date: 12/21/13
Resource Planning & Asset Mgmt. Division

Township/Range: 25-12w Section: 5

County: Jefferson Legal Acres: 80

Legal Description: Tract 201 Program Index: 235
N2SW4

Purchase: 1181 Winney Exchange: _____

Sale: _____ Other: _____

Surface Trust: 03

Mineral Trust: 03

Timber Trust: 03

Contract Trust: _____
CNTJRS (tryst code for lands sold under contract)

Tim.Who: _____
(non-DNR party involved in timbered land exchange)

Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

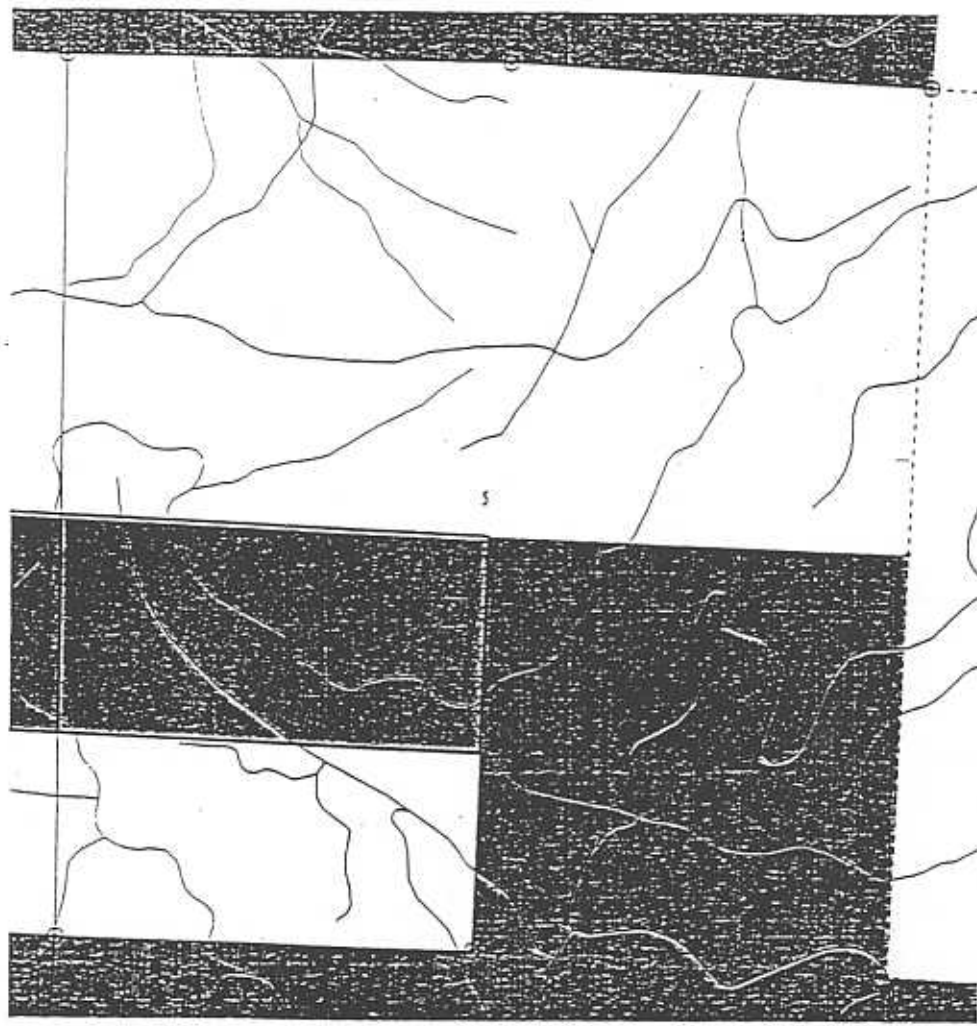
Included in HCP: yes Designation: OESF
(NRF, Dispersal, No Role)




HCP Inclusion - Year: 1995 Month: Oct

Other Sensitive Species Designation

Comments: _____
(Justification for parcel not being in the HCP)

Township: t25r12w
Section: 05



-  Granted Trusts
-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

DNR Ownership Update Information Date: 1-1-2013
Resource Planning & Asset Mgmt. Division

Township/Range: 25-12W Section: 6

County: Jefferson Legal Acres: 40

Legal Description: Tract 201 Program Index: 335

NESE

Purchase: 115, Winney Exchange: _____

Sale: _____ Other: _____

Surface Trust: 03

Mineral Trust: 03

Timber Trust: 03

Contract Trust: _____
CNTRS (trust code for lands sold under contract)

Tim.Who: _____
(non-DNR party involved in timbered land exchange)

Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

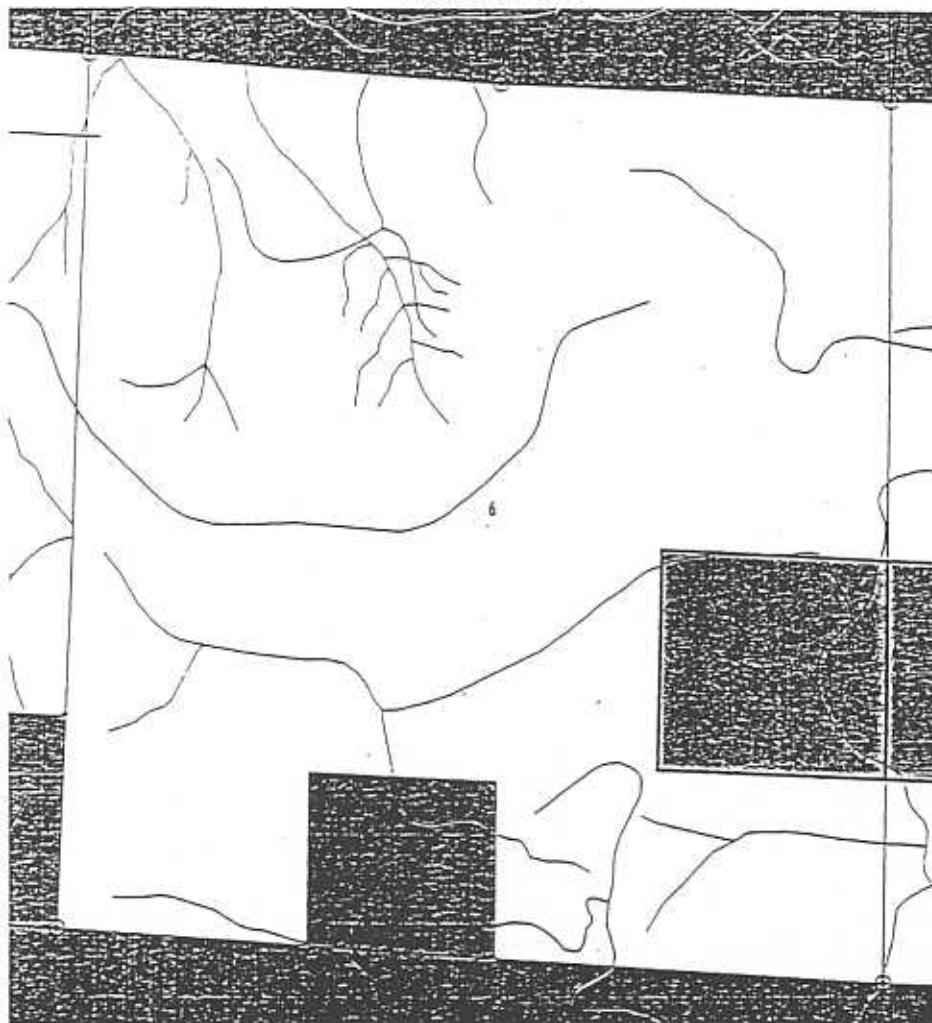
Included in HCP: YES Designation: NESEF

HCP Inclusion - Year: 1998 Month: Oct


Other Sensitive Species Designation: _____


Comments: _____
(Justification for parcel not being in the HCP)


Township: t25r12w
Section: 06




 Granted Trusts

 Forest Board
(Forest Board Transfer,
Forest Board Purchase)

 NRCA, NAP
(Natural Resources Conservation Areas,
Natural Area Preserves)

 DNR Land Sale
DNR Land Exchanged
DNR Land Transfer

 Land Purchase or
Land Acquired (through
land exchange)



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Division of Forestry - Conservation of Forest Lands

DNR Ownership Update Information Date: 12/2/97
Resource Planning & Asset Mgmt. Division

Surface Trust: 03
Mineral Trust: 03
Timber Trust: 03

Township/Range: 25-12W Section: 8

County: Jefferson Legal Acres: 80

Legal Description: Tract 202 Program Index: 335
S2SE4

Contract Trust: _____
CONTRS (trust code for lands sold under contract)

Tim. Who: _____
(non-DNR party involved in timbered land exchange)

Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

Purchase: 118, 12/1/94 Exchange: _____

Sale: _____ Other: _____

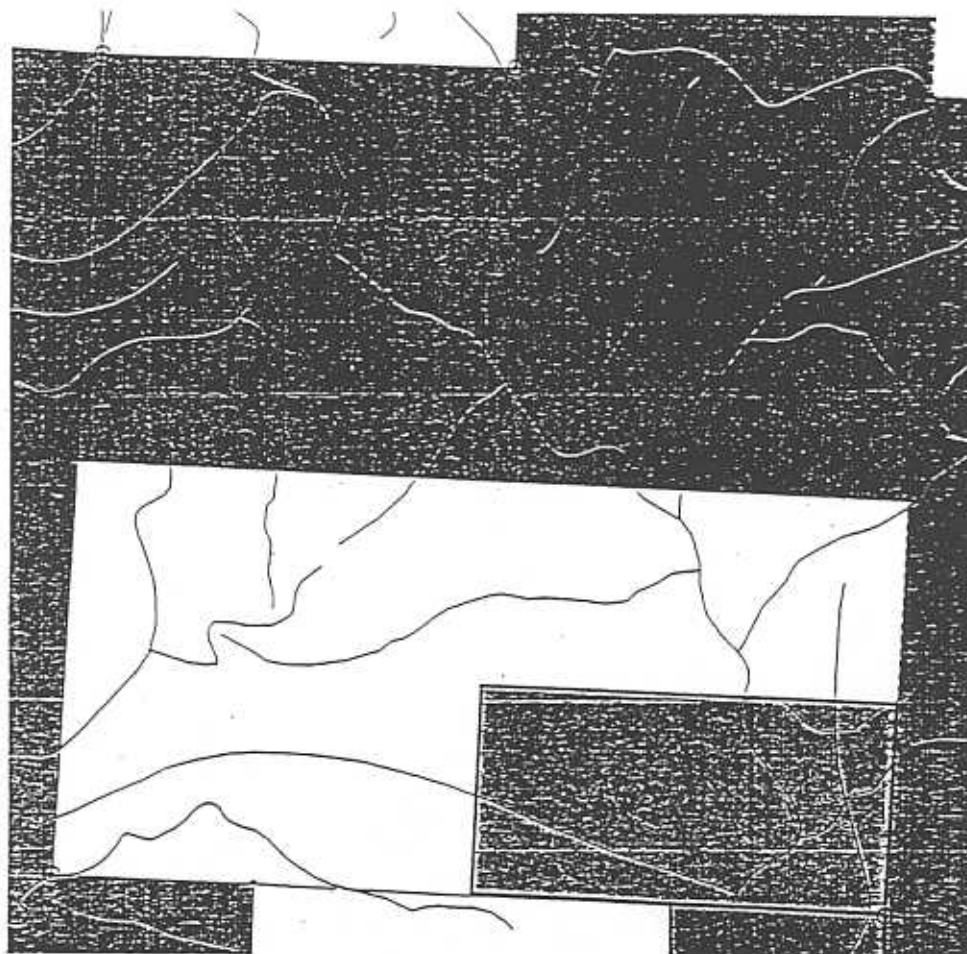
Included in HCP: YES Designation: DES
(NRF, Dispersal, No Role)

Other Sensitive Species Designation: _____

HCP Inclusion - Year: 1998 Month: Oct

Comments: _____
(Justification for parcel not being in the HCP)

Township: t25r12w
Section: 08



Granted Trusts



Forest Board
(Forest Board Transfer,
Forest Board Purchase)



NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)



DNR Land Sale
DNR Land Exchanged
DNR Land Transfer



Land Purchase or
Land Acquired (through
land exchange)



WASHINGTON STATE DEPARTMENT OF
Natural Resources

DNR Ownership Update Information Date: 12/2/11
Resource Planning & Asset Mgmt. Division

Surface Trust: 03

Mineral Trust: 03

Timber Trust: 03

Township/Range: 25-12W Section: 17

County: Jefferson Legal Acres: 80

Legal Description: Tract 202 Program Index: 335
E2NE4

Contract Trust: _____
CNTJRS (trust code for lands sold under contract)

Tim.Who: _____
(non-DNR party involved in timbered land exchange)

Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

Purchase: 115, Winner Exchange: _____

Sale: _____ Other: _____

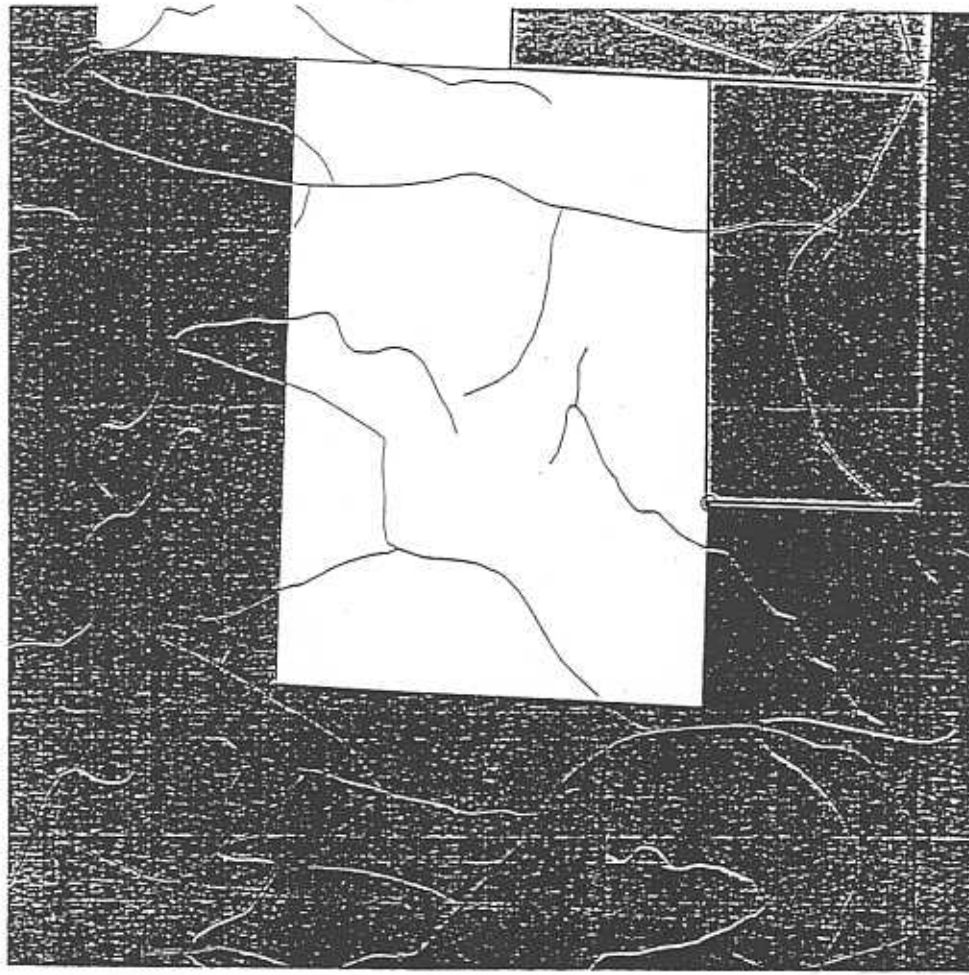
Included in HCP: yes Designation: DESP

Other Sensitive Species Designation: _____

HCP Inclusion - Year: 1998 Month: Oct

Comments: _____
(justification for parcel not being in the HCP)

Township: t25r12w
Section: 17



-  Granted Trusts
-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

Township/Range: 25-12W Section: 19
 County: Jefferson Legal Acres: 316.38
 Legal Description: Tract 205
 E4, SENE, E2SW, G.L. 4
 Program Index: 335
 Purchase: 118,111.00 Exchange: _____
 Sale: _____ Other: _____

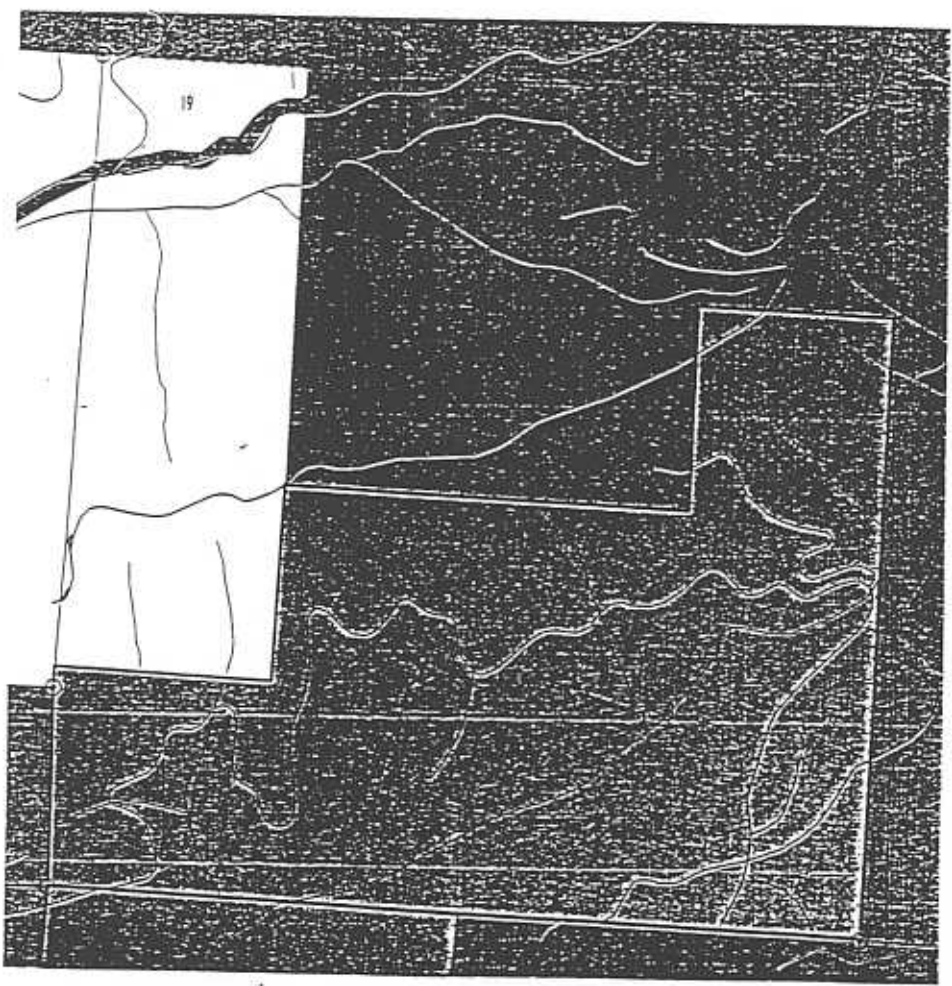
Surface Trust: 03
 Mineral Trust: 07
 Timber Trust: 23
 Contract Trust: _____
(trust made for lands sold under contract)
 Tim.Who: _____
(non-DNR party involved in timbered land exchange)
 Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)






Included in HCP: YES Designation: DESF
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1998 Month: Oct

Other Sensitive Species Designation: _____

Comments: _____
(Justification for parcel not being in the HCP)

Township: t25r12w
 Section: 19



-  Granted Trusts
-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

Township/Range: 25-12W Section: 30
 County: Jefferson Legal Acres: 156.01
 Legal Description: Tract 205 Program Index: 335
GL1, GL2, E2NW4
 Purchase: 118, Winney Exchange: _____
 Sale: _____ Other: _____

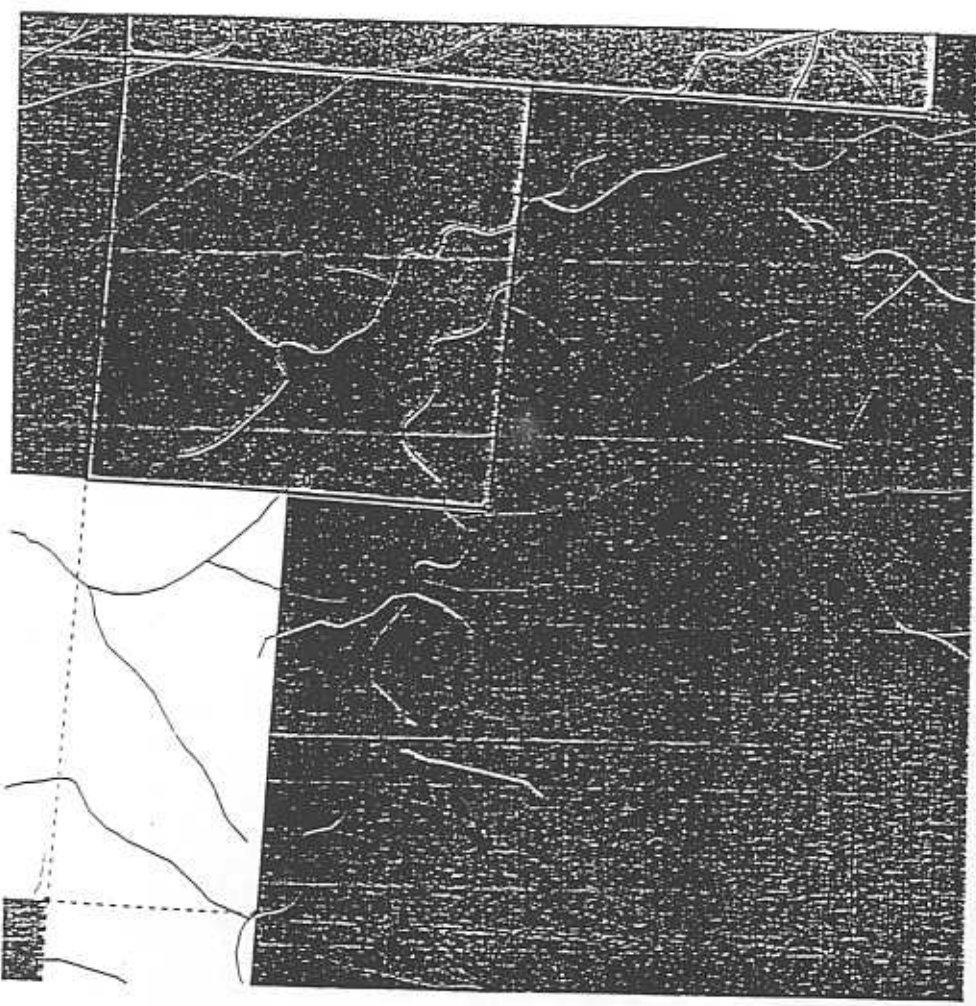
Mineral Trust: 03
 Timber Trust: 03
 Contract Trust: _____
CONTRS (trust code for lands sold under contract)
 Tim.Who: _____
(non-DNR party involved in timbered land exchange)
 Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)






Included in HCP: YES Designation: TRESF
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1998 Month: Oct

Other Sensitive Species Designation: _____

Comments: _____
(Justification for parcel not being in the HCP)

Township: t25r12w
 Section: 30



-  Granted Trusts
-  Forest Board
(Forest Board Transfer, Forest Board Purchase)
-  NRCA, NAP
(Natural Resources Conservation Areas, Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

Township/Range: 32-13W Section: 9

County: Clallam Legal Acres: 162.80

Legal Description: (Incls A,B,C) Program Index: 335

1SE 5ESW, except strip conveyed to Crown Zeller; W2SW pt 64 south of hwy.

Purchase: 118 Winney Exchange:

Sale: Other:

Surface Trust:

Mineral Trust: 03

Timber Trust: 03

Contract Trust: CNTJRS (trust code for lands sold under contract)

Tim.Who: (non-DNR party involved in timbered land exchange)

Tim.Yr: Tim.Mo: (timber removal deadline on land exchange period)

Flag: (warning to check tract book for details)

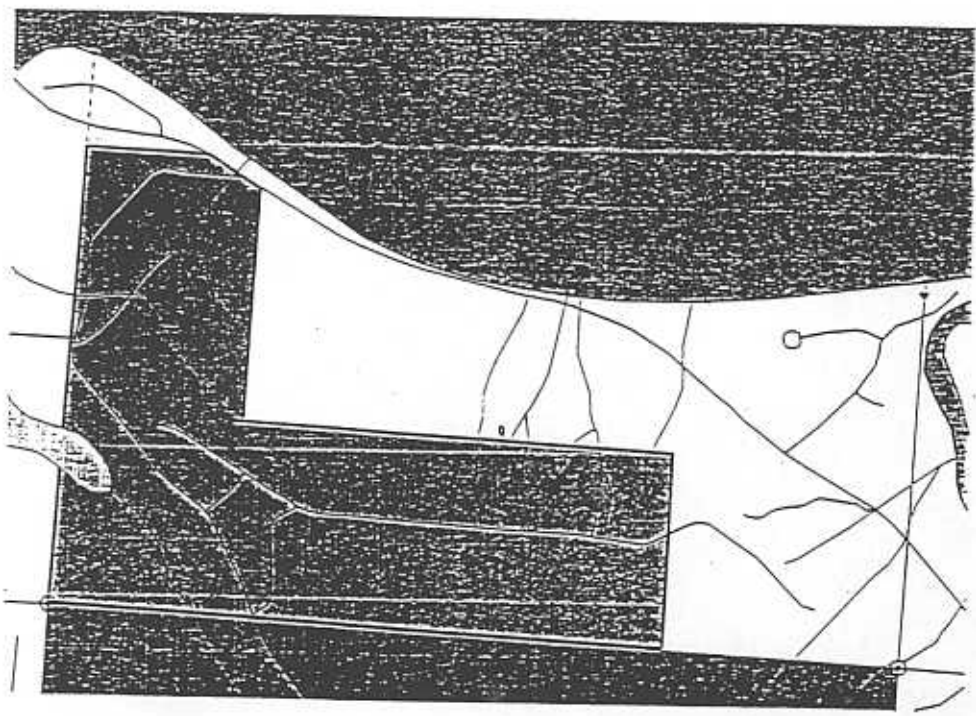
Included in HCP: yes Designation: CESH (NRF, Dispersal, No Role)

HCP Inclusion - Year: 1998 Month: Oct

Comments: (justification for parcel not being in the HCP)

Other Sensitive Species Designation:

Township: t32r13w Section: 09



- Granted Trusts
- Forest Board (Forest Board Transfer, Forest Board Purchase)
- NRCA, NAP (Natural Resource Conservation Areas, Natural Area Preserves)

- DNR Land Sale
- DNR Land Exchanged
- DNR Land Transfer
- Land Purchase or Land Acquired (through land exchange)

State Ownership Update Information Date: _____
 Resource Planning & Asset Mgmt. Division
 Township/Range: 29-13W Section: 18
 County: Clallam Legal Acres: 38.7
 Legal Description: Tract 236 Program Index: 335
NWSE - except strip conveyed to railroad co.
 Purchase: 118, 12/1/1994 Exchange: _____
 Sale: _____ Other: _____

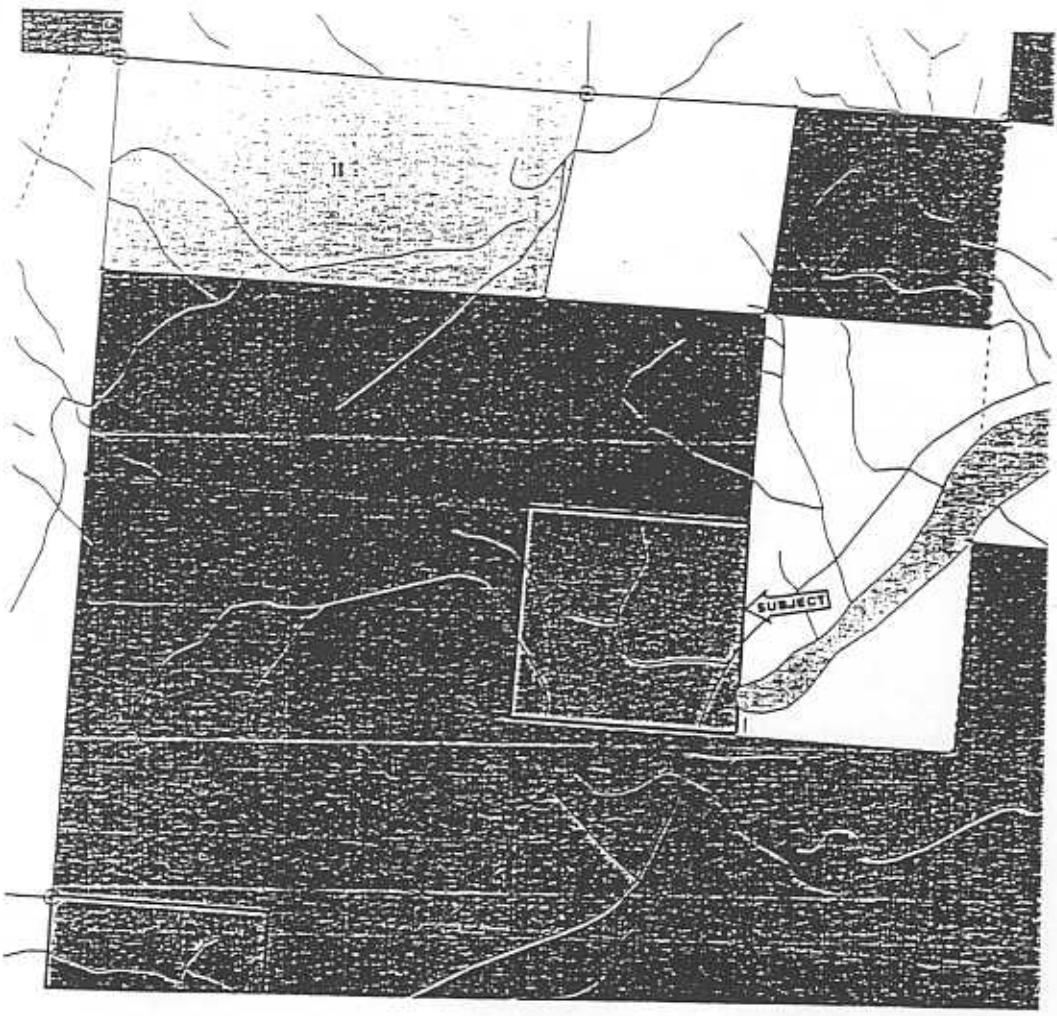
Mineral Trust: 03
 Timber Trust: 03
 Contract Trust: _____
CONTRACT (trust code for lands sold under contract)
 Tim. Who: _____
(non-DNR party involved in timbered land exchange)
 Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)






Included in HCP: YES Designation: OE-SF
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1998 Month: Oct

Other Sensitive Species Designation: _____

Comments: _____
(justification for parcel not being in the HCP)

Township: t29r13w
 Section: 18



-  Granted Trusts
-  Forest Board (Forest Board Transfer, Forest Board Purchase)
-  NRCA, NAP (Natural Resource Conservation Areas, Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or Land Acquired (through land exchange)

DNR Ownership Update Information Date: 2/2/98
 Resource Planning & Asset Mgmt. Division
 Township/Range: 29-13W Section: 19
 County: Clallam Legal Acres: 305.34
 Legal Description: Tract 237 Program Index: 335
G.L. 1, 2, 3, 4; SE NW, E2SW
 Purchase: 115, Winney Exchange: _____
 Sale: _____ Other: _____

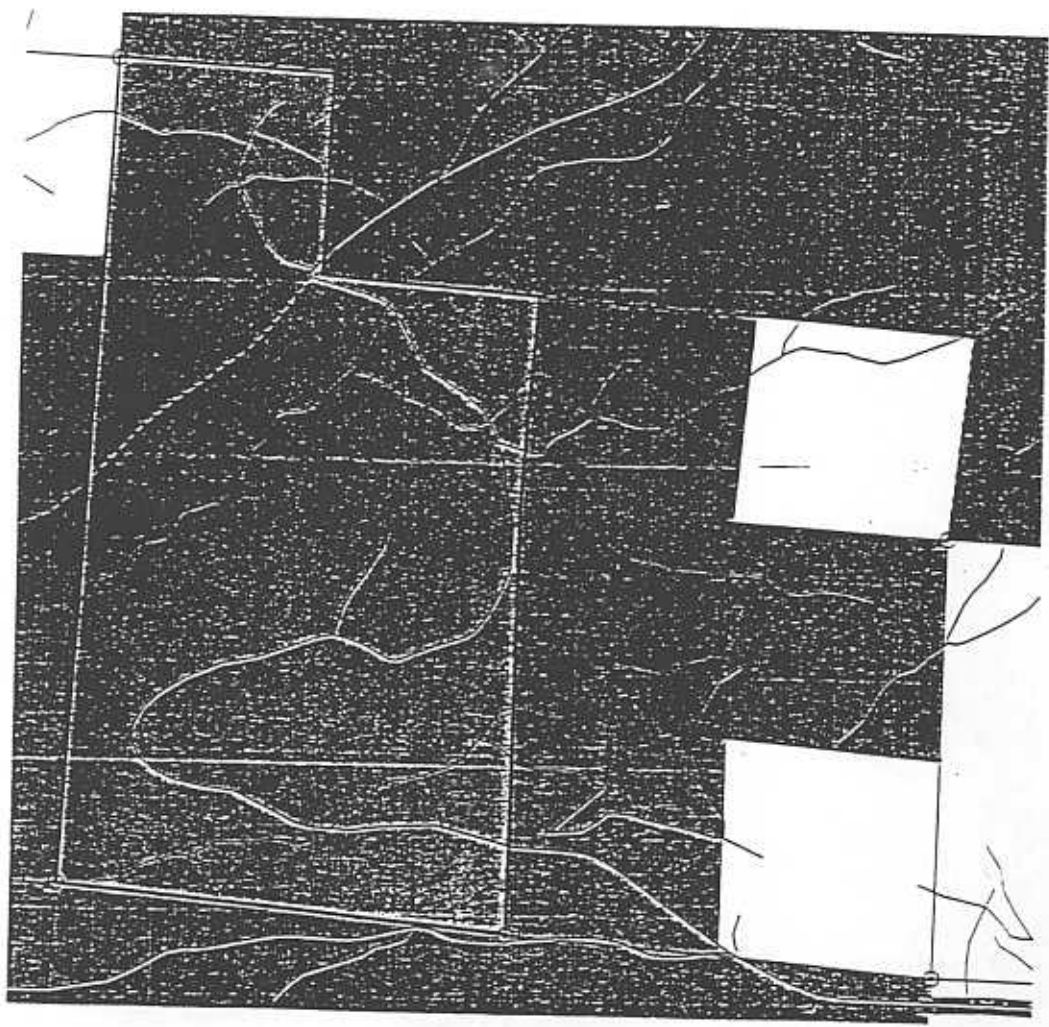
Surface Trust: 02
 Mineral Trust: 03
 Timber Trust: 03
 Contract Trust: _____
CNTJRS (trust code for lands sold under contract)
 Tim.Who: _____
(non-DNR party involved in timbered land exchange)
 Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)

Included in HCP: YES Designation: DESF
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1998 Month: Oct

Other Sensitive Species Designation: _____

Comments: _____
(justification for parcel not being in the HCP)

Township: t29r13w
 Section: 19



Granted Trusts
 Forest Board
(Forest Board Transfer, Forest Board Purchase)
 NRCA, NAP
(Natural Resource Conservation Areas, Natural Area Preserves)

DNR Land Sale
 DNR Land Exchanged
 DNR Land Transfer
 Land Purchase or Land Acquired (through land exchange)

Disclaimer: Portions of this report were not available in their final electronic version. In some cases, missing sections were scanned. In other cases, modified draft versions, which look slightly different from the original print versions, were substituted. Although the formatting may look different from the print version of this report, in no case were the data changed in any way.

Township/Range: 28-14W Section: 30
 County: Clallam Legal Acres: 78.91
 Legal Description: Tract 240 Program Index: 335
S2SE4
 Purchase: 1181 Winney Exchange: _____
 Sale: _____ Other: _____

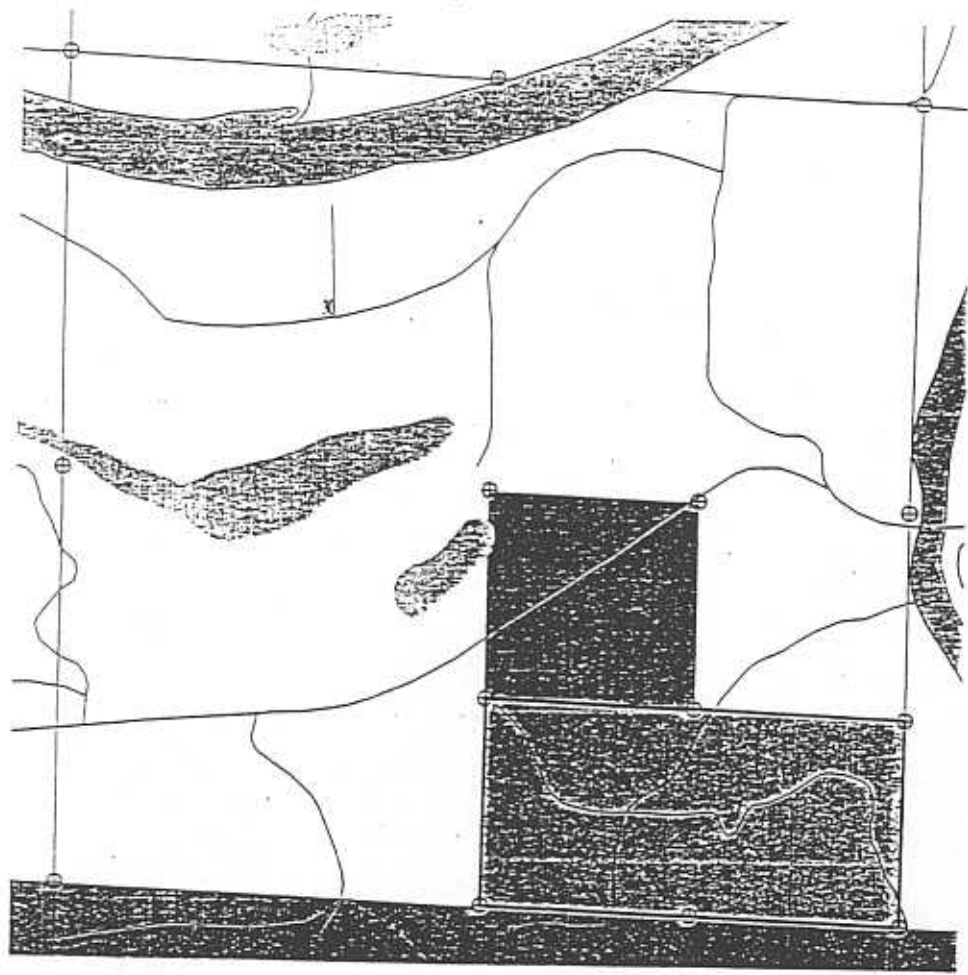
Mineral Trust: 03
 Timber Trust: 03
 Contract Trust: _____
CNTJRS (trust code for lands sold under contract)
 Tim.Who: _____
(non-DNR party involved in timbered land exchange)
 Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)






Included in HCP: 1175 Designation: DESF
INRF, Dispersal, No Role
 HCP Inclusion - Year: 1998 Month: Oct

Other Sensitive Species Designation

Comments: _____
(justification for parcel not being in the HCP)

Township: t28r14w
 Section: 30



-  Granted Trusts
-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

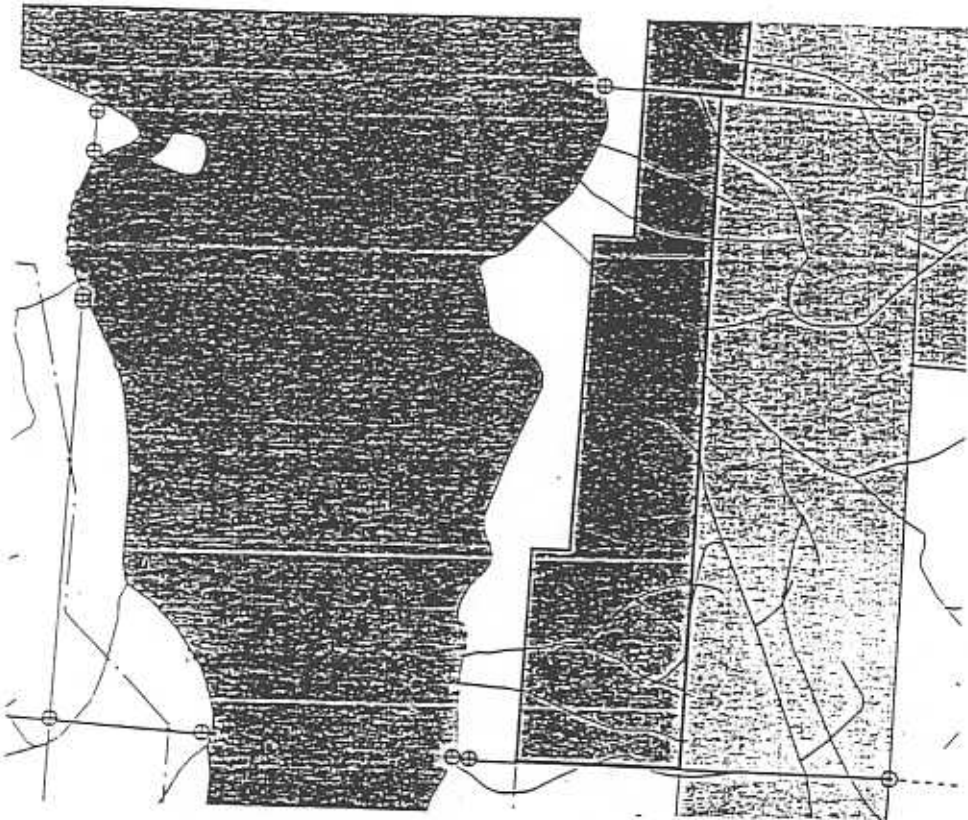
Township/Range: 29-15W Section: 03
County: Clallam Legal Acres: 74.93
Legal Description: Tract 245 Program Index: 335
GL 2, 6, 7 except pt. conveyed to USA
Purchase: 118. Winney Exchange: _____
Sale: _____ Other: _____






Mineral Trust: 50% interest only - 6
Timber Trust: 03
Contract Trust: _____
(CONTRs (trust code for lands sold under contract))
Tim. Who: _____
(non-DNR party involved in timbered land exchange)
Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)
Flag: _____
(warning to check tract book for details)

Included in HCP: yes Designation: DESF
(NRF, Dispersal, No Role)
HCP Inclusion - Year: 1998 Month: Oct
Comments: _____
(justification for parcel not being in the HCP)

Other Sensitive Species Designation: _____

Township: t29r15w
Section: 03



-  Granted Trusts
-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

Township/Range: 30-15W

Section: 34

Mineral Trust: 03

Timber Trust: 03

County: Clallam

Legal Acres: 10.74

Contract Trust: _____

CMTTR5 (trust code for lands sold under contract)

Legal Description: Tract 245

Program Index: 335

Tim.Who: _____

(non-DNR party involved in timbered land exchange)

S.L. 3, 4 except pt. conveyed to USA

Purchase: 118, Winney

Exchange: _____

Tim.Yr: _____

Tim.Mo: _____

(timber removal deadline on land exchange parcel)

Sale: _____

Other: _____

Flag: _____

(warning to check tract book for details)

Included in HCP: yes

Designation: DESF

Other Sensitive Species Designation: _____

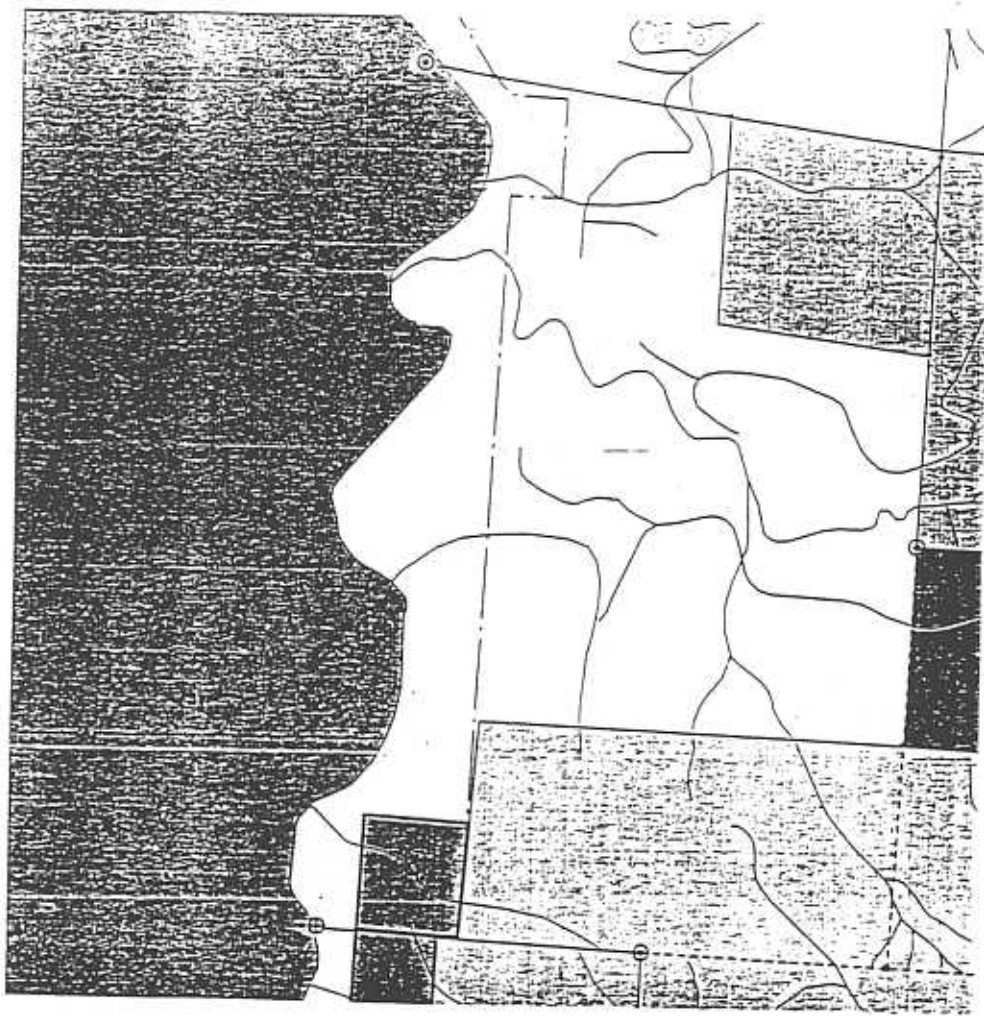
HCP Inclusion - Year: 1998

(NRF, Dispersal, No Role)
Month: oct

Comments: _____

(justification for parcel not being in the HCP)

Township: t30r15w
Section: 34



Granted Trusts

Forest Board
(Forest Board Transfer,
Forest Board Purchase)

NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)

DNR Land Sale
DNR Land Exchanged
DNR Land Transfer

Land Purchases or
Land Acquired (through
land exchange)

Surface Trust: _____
 Mineral Trust: no coal or iron
 Timber Trust: 03 Revenue 03
 Contract Trust: _____
CONTRACTS (trust code for lands sold under contract)
 Tim.Who: _____
(non-DNR party involved in timbered land exchange)
 Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)

Township/Range: 13-4W Section: 3
 County: Lewis Legal Acres: 78
 Land Description: _____
1/2 SE 1/4 (Wiskill)
 Purchase: Willapa Logging #117 Exchange: _____
 Sale: _____ Other: _____

Included in HCP: yes Designation: no role
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1998 Month: Sept

Other Sensitive Species Designation:

Comments: _____
(justification for parcel not being in the HCP)

Township: t13r04w
 Section: 3



-  Granted Trusts
-  Forest Board (Forest Board Transfer, Forest Board Purchase)
-  NRCA, NAP (Natural Resource Conservation Areas, Natural Area Preserves)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or Land Acquired (through land exchange)

Township/Range: 13-7W Section: 9

County: Pac. Fic Legal Acres: 30

Legal Description: 5 1/2 SW 1/4, pt. NE 1/4 SW 1/4 (Mill Creek) Program Index: ~~335~~ 335

Purchase: Willapa Logging #117 Exchange: _____

Sale: _____ Other: _____

Surface Trust: _____

Mineral Trust: no minerals

Timber Trust: 03

Contract Trust: _____

CONTRACTS (trust code for lands sold under contract)

Tim. Who: _____
(non-DNR party involved in timbered land exchange)

Tim. Yr: _____ Tim. Mo: _____

(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

Included in HCP: YES Designation: no role

(NRF, Dispersal, No Role)


Other Sensitive Species Designation: _____

HCP Inclusion - Year: 1998 Month: Sept

Comments: _____
(Justification for parcel not being in the HCP)

Township: t13r07w
Section: 9



-  Granted Trusts
-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

Township/Range: 13-8w Section: 27
 County: Pacific Legal Acres: 380
 Legal Description: Program Index: 335

Purchase: Willapa Logging #117 Exchange: SF 1/4 SW 1/4 (Coe Creek)
 Sale: _____ Other: _____

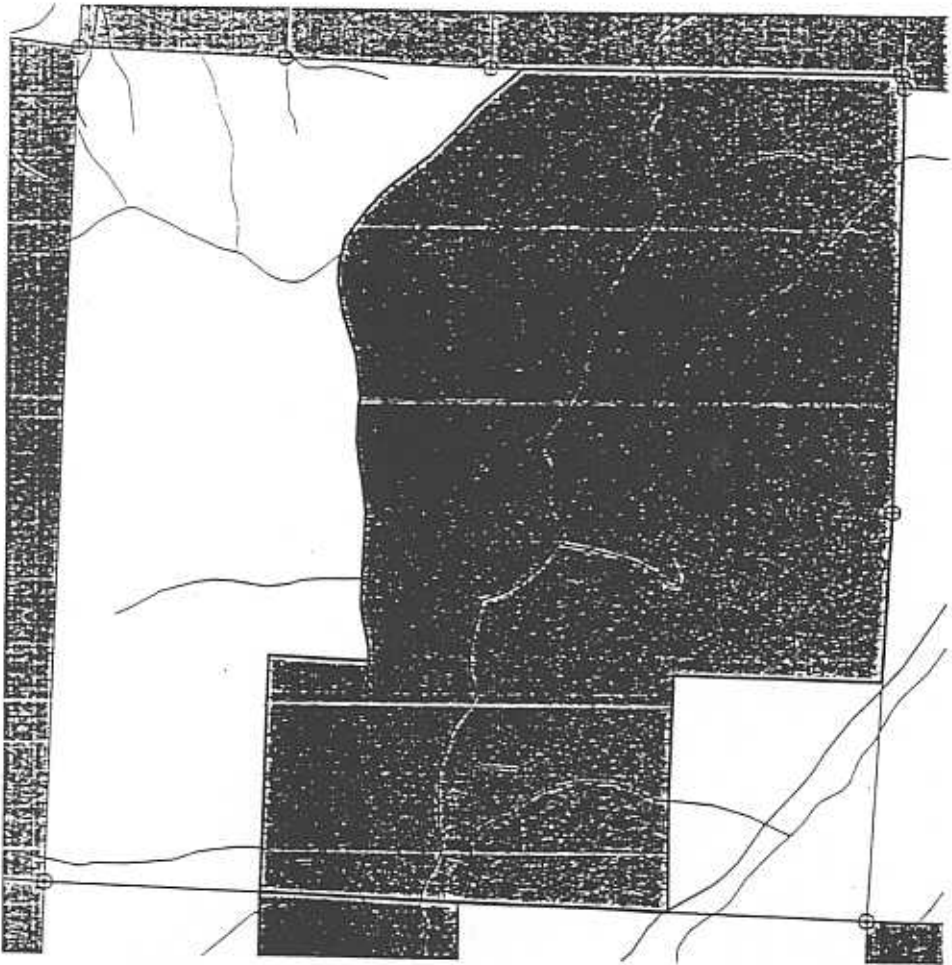
Surface Trust: _____
 Mineral Trust: 150 mineral
 Timber Trust: 23
 Contract Trust: _____
CNTJRS (trust made for lands sold under contract)
 Tim. Who: _____
(non-DNR party involved in timbered land exchange)
 Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)

Included in HCP: YES Designation: no role
INRF, Dispersal, No Role
 HCP Inclusion - Year: 1998 Month: Sept

Other Sensitive Species Designation: _____

Comments: _____
(Justification for parcel not being in the HCP)

Township: t13r08w
 Section: 27



-  Granted Trusts
-  Forest Board
(Forest Board Transfer, Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas, Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

DNR Ownership Update Information Date: _____

Resource Planning & Asset Mgmt. Division

Township/Range: 13-8W Section: 34

County: Pacific Legal Acres: 40

Legal description: 274 NW/4 (Rue Creek) Program Index: 335

Purchase: Willapa Logging #117 Exchange: _____

Sale: _____ Other: _____

Surface Trust: _____

Mineral Trust: no minerals

Timber Trust: 23

Contract Trust: _____
CNTJRS (trust code for lands sold under contract)

Tim.Who: _____
(non-DNR party involved in timbered land exchange)

Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

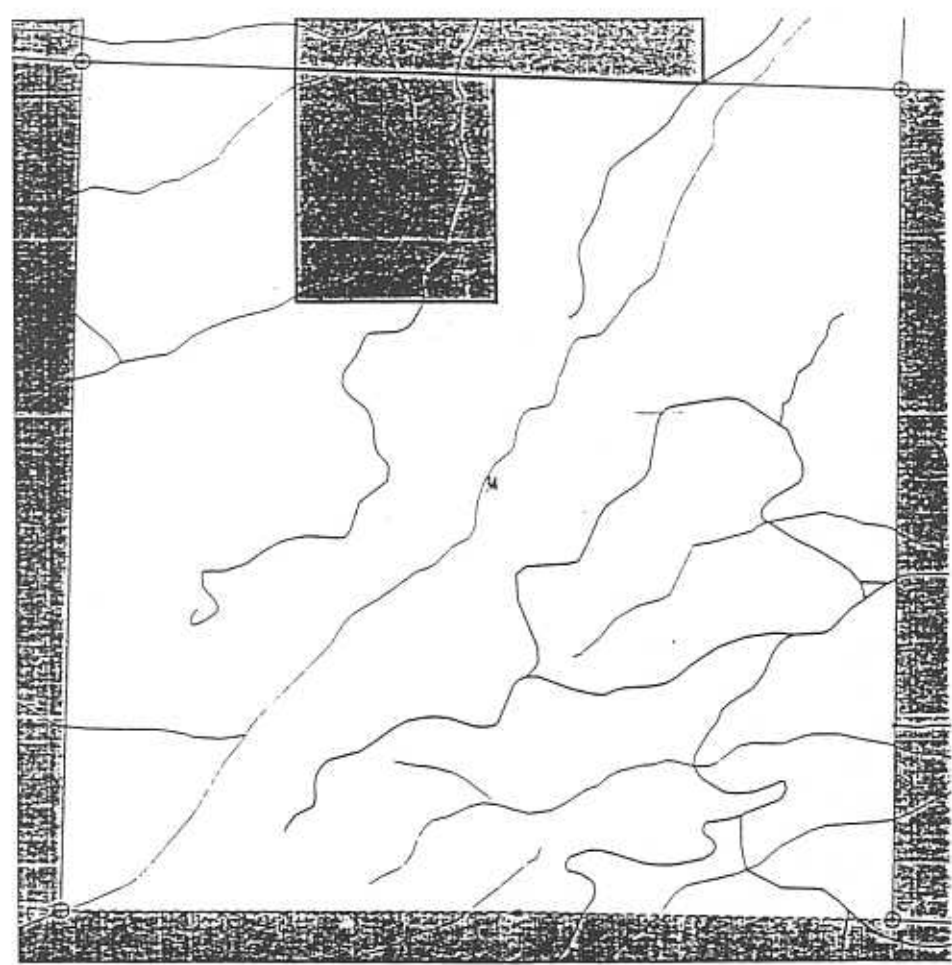
Included in HCP: VCS Designation: no role
(NRF, Dispersal, No Role)

HCP Inclusion - Year: 1995 Month: Sept

Other Sensitive Species Designation: _____

Comments: _____
(Justification for parcel not being in the HCP)

Township: t13r08w
Section: 34



-  Granted Trusts
-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas,
Natural Area Preserves)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

Township/Range: 13N R7W Section: 10
 County: Pacific Legal Acres: 90
 Legal Description: Pt of NE 1/4 W/4 of Mill Creek + So. of vacated Mill Co. Co. Road Program Index: 335
 Purchase: Timber Services Exchange: _____
 Sale: _____ Other: _____

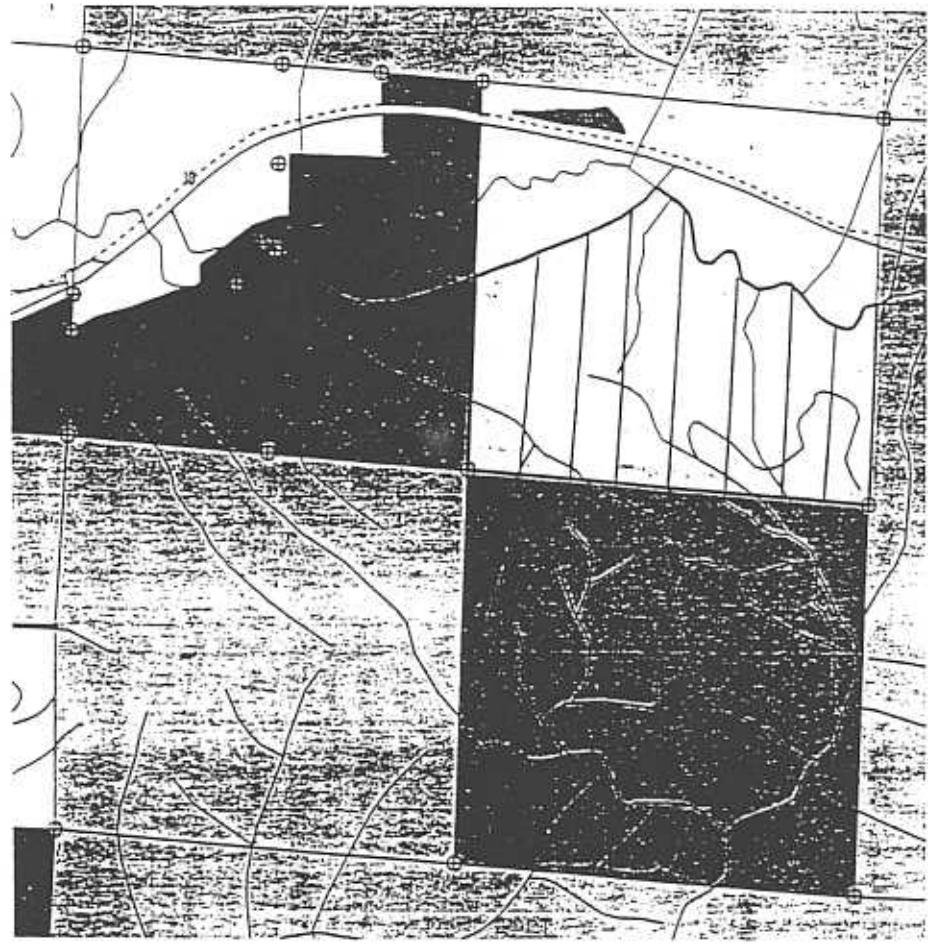
Timber Trust: _____
 Contract Trust: _____
 (NRTS trust code for lands sold under contract)
 Tim. Who: _____
 (non-DNR party involved in timbered land exchange)
 Tim. Yr: _____ Tim. Mo: _____
 (timber removal deadline on land exchange parcel)
 Flag: _____
 (warning to check trust book for details)






Included In HCP: Yes Designation: No Role
 (NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1999 Month: January

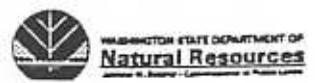
Other Sensitive Species Designation: _____

Comments: _____
 (Justification for parcel not being in the HCP)

Township: t13r07w
 Section: 10



-  Forest Board (Forest Board Transfer, Forest Board Purchase)
-  Granted Trusts
-  NRCA, NAP (Natural Resource Conservation Areas, Natural Area Preserve)
-  DNR Land Sale, DNR Land Exchanged, DNR Land Transfer
-  Land Purchase or Land Acquired (through land exchange)



Ownership Update Information Date: 1-28-99
to Planning & Asset Mgmt. Division

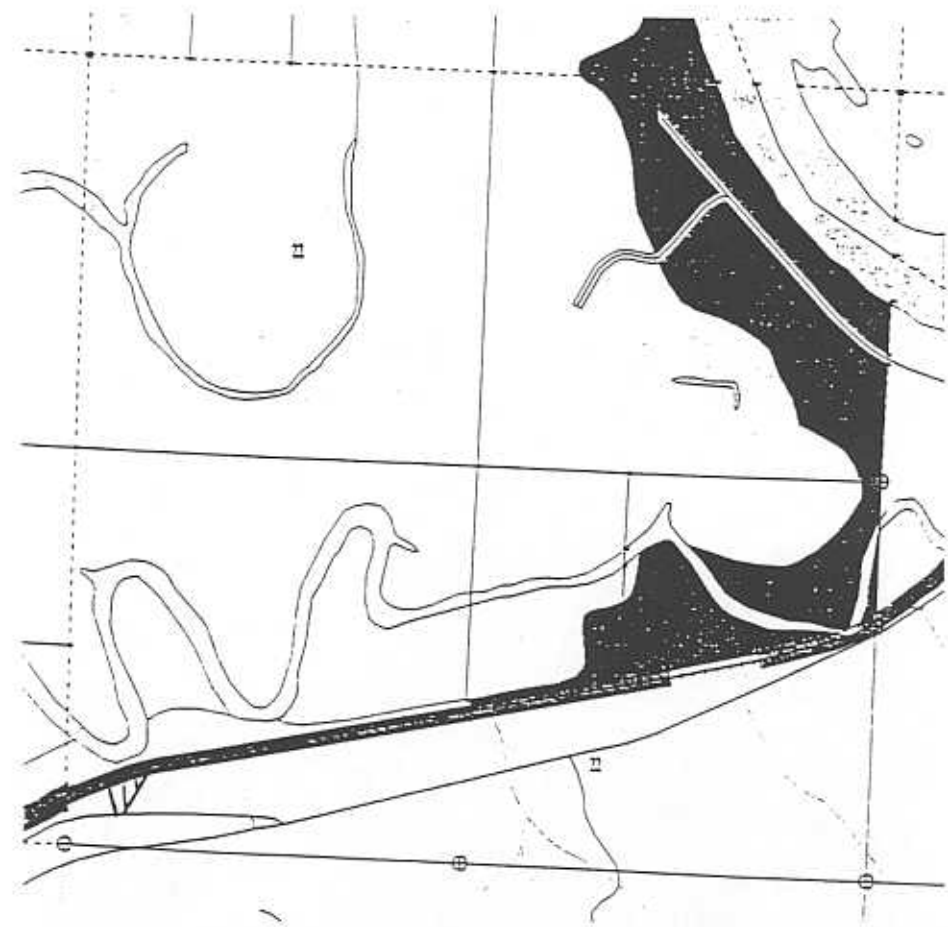
Township/Range: 17N 8W Section: 22
County: Grays Harbor Legal Acres: -72±
Legal Description: Portion of SWSW - legal attached Program Index: 929-172
Purchase: Exchange: _____
Chehalis River NAP
Sale: (Wages CRP?) Other: _____

Surface Trust: 74
Mineral Trust: 74
Timber Trust: 74
Contract Trust: _____
CONTRACTS (trust code for lands sold under contract)
Tim.Who: _____
(non-DNR party involved in combined land exchange)
Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
Flag: _____
(warning to check tract book for details)

Included in HCP: yes Designation: no role
(NRF, Dispersal, No Role)
HCP Inclusion - Year: 1998 Month: October
Comments: NAP - credited as HCP land
(justification for parcel not being in the HCP)

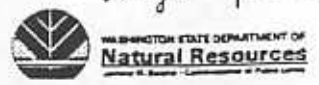
Other Sensitive Species Designation: _____

Township: t17r08w
Section: 22



- Forest Board
(Forest Board Transfer,
Forest Board Purchase)
- Granted Trusts
- NRCA, NAP
(Natural Resource
Conservation Areas,
Natural Area Preserves)
- DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
- Land Purchase or
Land Acquired (through
land exchange)

*Chehalis River Surge Plain NAP
"Wages" parcel*



27-JAN-1999

DNR Ownership Update Information Date: 12-21-98
Resource Planning & Asset Mgmt. Division

Township/Range: 18N 8W Section: 22

County: Grays Harbor Legal Acres: .25 ±

Legal Description: See attached Program Index: 929-172

Purchase: Schenbach Exchange: _____
Chehalis River

Sale: NAP Other: _____

Surface Trust: N/A 74

Mineral Trust: minerals acquired

Timber Trust: N/A 74

Contract Trust: N/A
CNTRS (trust code for lands sold under contract)

Tim.Who: N/A
non-DNR party involved in timbered land exchanged

Tim.Yr: N/A Tim.Mo: N/A
timber removal deadline on land exchange parcel

Flag: N/A
(warning to check trust book for details)

Included in HCP: yes Designation: no role
no (NRF, Dispersal, No Role)

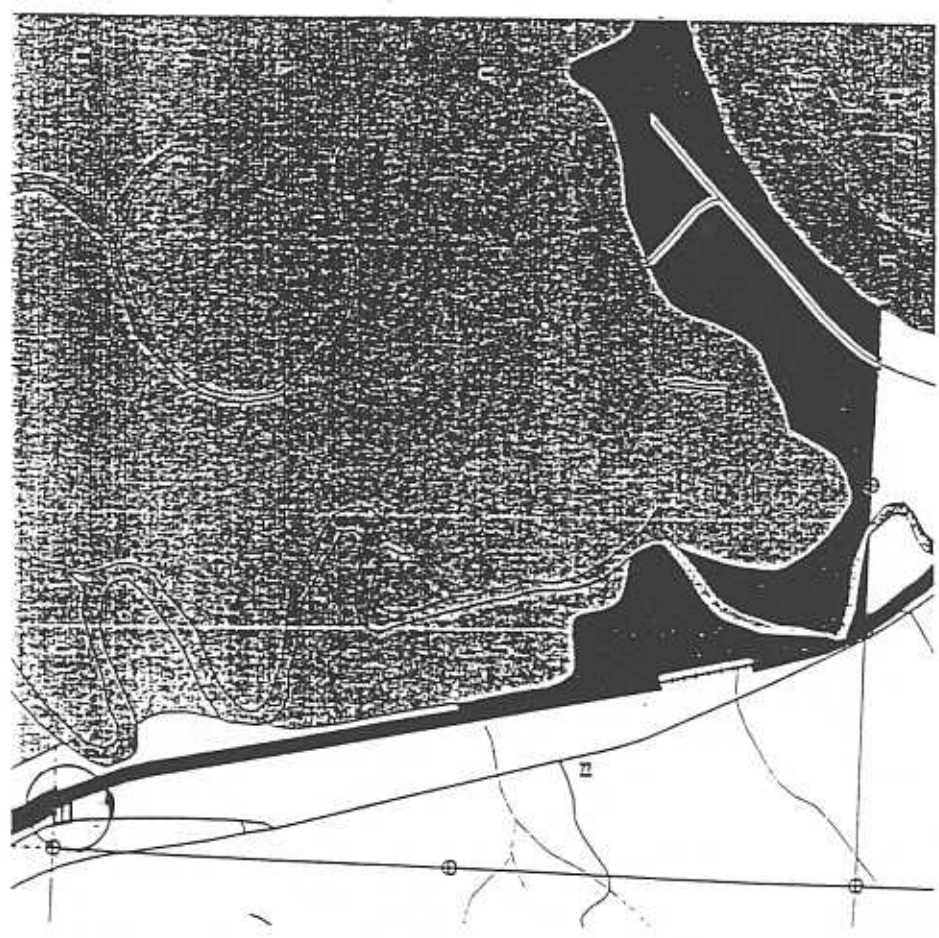
HCP Inclusion - Year: 1998 Month: 11




Comments: NAP - credited as HCP land
(justification for parcel not being in the HCP)

Other Sensitive Species Designation: _____

Township: t17r08w
Section: 22

2nd report



-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  Gravel Trusts
-  NRCA, NAP
(Natural Resources
Conservation Areas,
Natural Area Preserve)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)



Ownership Update Information Date: 2-3-99
Resource Planning & Asset Mgmt. Division

Township/Range: T16N/R11W Section: 29
County: Grays Harbor Legal Acres: 39.50
Legal Description: Govt Lot 6 Program Index: 929-170

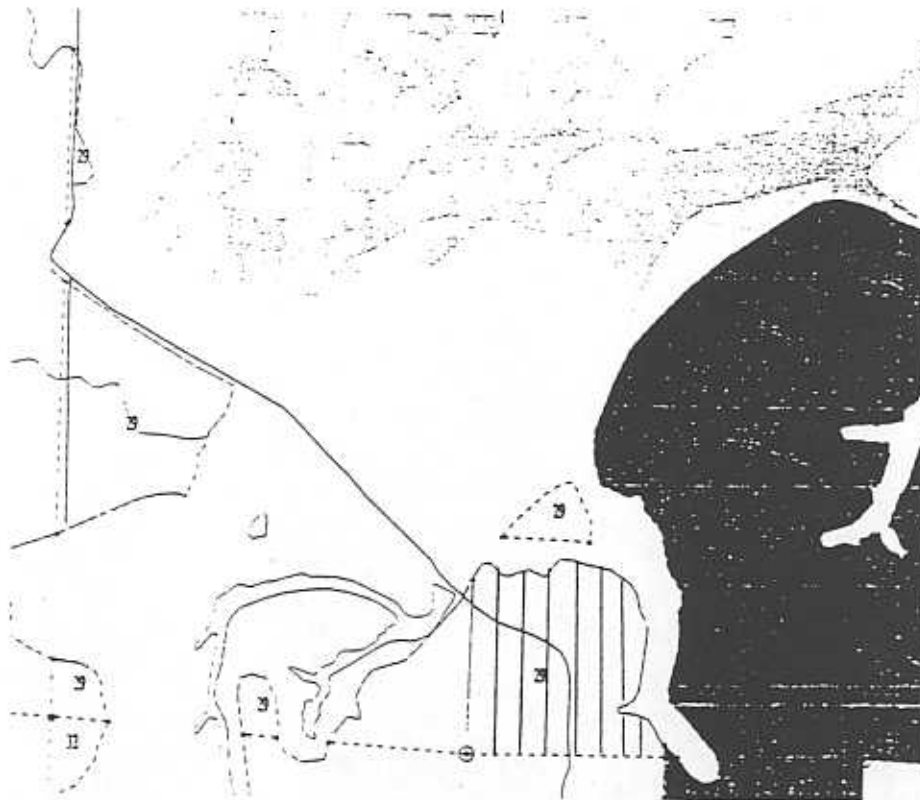
Purchase: EJK River NRCA Exchange: _____
Sale: (ERO4-WARWICK) Other: _____

Included in HCP: yes Designation: no role
(NRF, Disposal, No Role)
HCP Inclusion - Year: 1998 Month: Sept.
Comments: NRCA - credited as HCP land
(Justification for parcel not being in the HCP)

Surface Trust: 75
Mineral Trust: 75 (part)
Timber Trust: 75
Contract Trust: _____
CONTRACTS (trust only for lands sold under contract)
Tim.Who: _____
(non-DNR party involved in timberland land exchange)
Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
Flag: _____
(warning to check tract book for details)

Other Sensitive Species Designation: _____

Township: t16r11w
Section: 29



Forest Board
(Forest Board Transfer,
Forest Board Purchase)
 Granted Trusts
 NRCA, NAP
(Natural Resource
Conservation Areas,
Natural Area Preserves)

DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
 Land Purchase or
Land Acquired (through
land exchange)



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Division of Forest Conservation & Management

27-JAN-1999

Ownership Update Information Date: 4/10/99
Resource Planning & Asset Mgmt. Division

Surface Trust: 74
Mineral Trust: 74
Timber Trust: 74

Township/Range: 24N 2W Section: 1

County: Kitsap Legal Acres: 21.55

Legal Description: Govt Lot 1, except E 416 ft and except 66 NE
Program Index: 93A-130

Purchase: Kitsap Forest NAP Exchange: _____

Sale: Washington (KFO) Other: _____

Contract Trust: _____
CONTRACTS (trust code for lands sold under contract)
Tim. Who: _____
(non-DNR party involved in timbered land exchange)
Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)
Flag: _____
(warning to check tract book for details)

Included in HCP: yes Designation: no role
(NRF, Dispersed, No Role)




Other Sensitive Species Designation: _____

HCP Inclusion - Year: 1999 Month: March

Comments: NAP - credited as HCP land
(justification for parcel not being in the HCP)

Township: t24r02w
Section: 1



-  Forest Board
(Forest Board Transfer, Forest Board Purchase)
-  Granted Trusts
-  NRCA, NAP
(Natural Resource Conservation Areas, Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or Land Acquired (through land exchange)



Ownership Update Information
 Source Planning & Asset Mgmt. Division

Date: _____

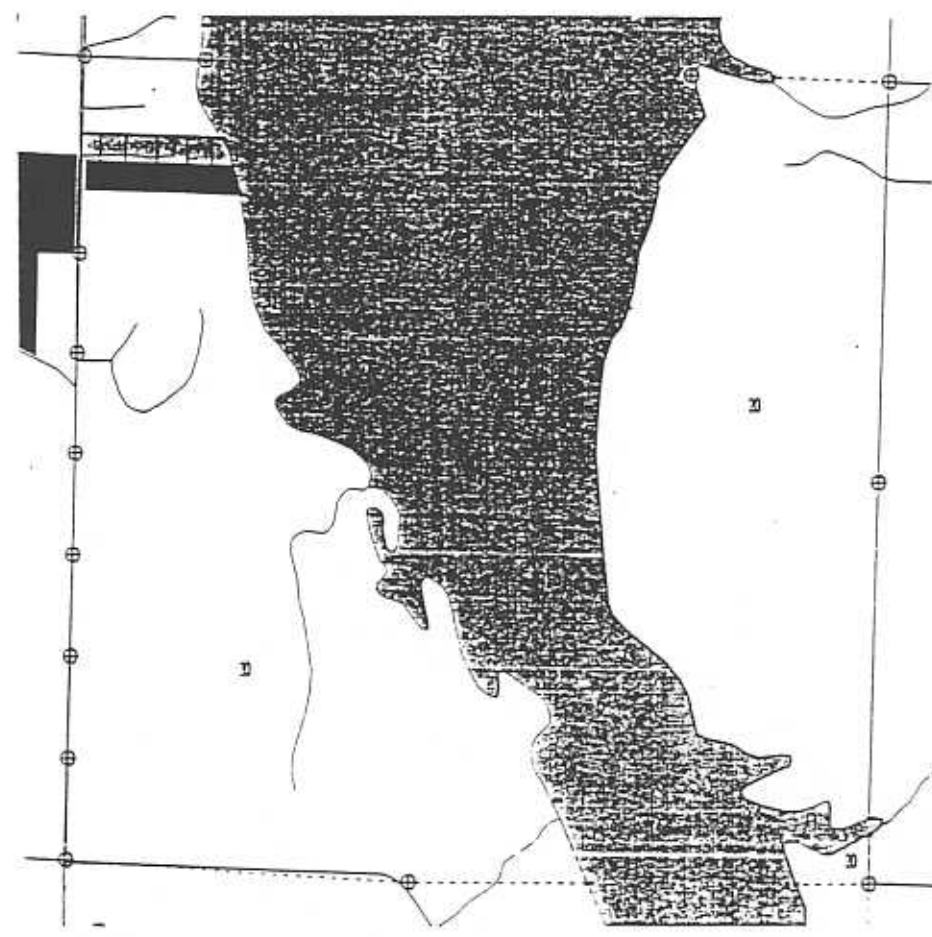
Township/Range: 19N/1W Section: 20
 County: Thurston Legal Acres: 4±
 Legal Description: Ptn Govt Lot 1 Program Index: 928
 Purchase: Woodard Bay NRCA Exchange: _____
 Sale: (Bate W002) Other: _____

Mineral Trust: 75
 Timber Trust: 75
 Contract Trust: _____
(trust exists for lands sold under contract)
 Tim.Who: _____
(non-DNR party involved in timbered land exchange)
 Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)

Included in HCP: yes Designation: no role
(NRF, Dispersed, No Role)
 HCP Inclusion - Year: 1999 Month: March
 Comments: NRCA - credited as HCP land
(justification for parcel not being in the HCP)

Other Sensitive Species Designation: _____

Township: t19r01w
 Section: 20



- | | | | |
|---|---|---|--|
|  | Forest Board
(Forest Board Transfer,
Forest Board Purchase) |  | DNR Land Sale
DNR Land Exchanged
DNR Land Transfer |
|  | Granted Tracts |  | Land Purchase or
Land Acquired (through
land exchange) |
|  | NRCA, NAP
(Natural Resources
Conservation Areas,
Natural Area Preserved) | | |



DNR Ownership Update Information Date: _____
 Resource Planning & Asset Mgmt. Division

Township/Range: 24N 6E Section: 25
 County: King Legal Acres: 1.87±
 Legal Description: Ptn SE4 SW4 Program Index: 933-123
 Purchase: West Tiger Exchange: _____
 State: (Cook - W03) Other: _____

Surface Trust: 75
 Mineral Trust: 75
 Timber Trust: 75

Contract Trust: _____
(NTRS trust code for lands sold under contract)

Tim. Who: _____
(non-DNR party involved in timbered land exchange)

Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange period)

Flag: _____
(warning to check tract book for details)

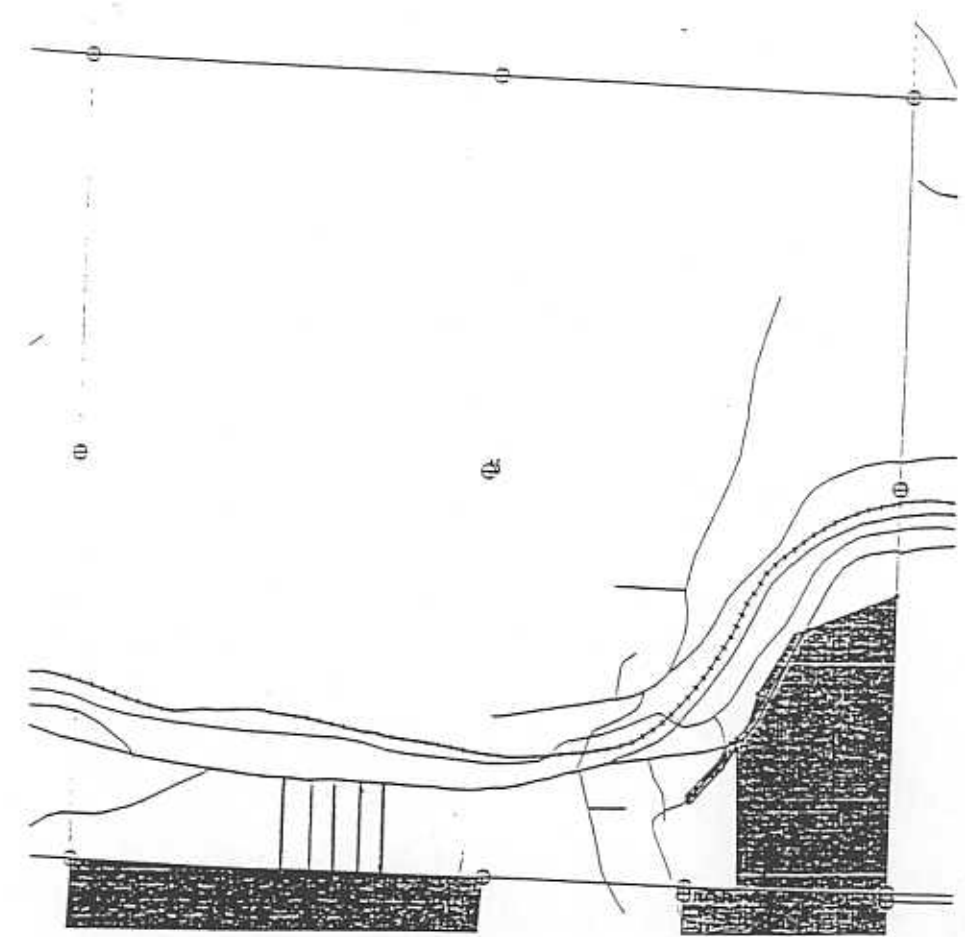
Included in HCP: yes Designation: no role
(NRF, Disposal, No Role)




HCP Inclusion - Year: 1998 Month: August



Comments: NRCA - credited as HCP land.
Justification for parcel not being in the HCPI

Other Sensitive Species Designation: _____

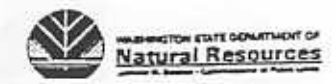
Township: t24r06e
 Section: 25



-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  Gravel Trusts
-  NRCA, NAP
(Natural Resources
Conservation Areas,
Natural Area Preserves)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

West Tiger NRCA
Cook



DNR Ownership Update Information Date: 9-10-99
Resource Planning & Asset Mgmt. Division

Surface Trust: _____
Mineral Trust: 75
Timber Trust: 75

Township/Range: T24N/R7E Section: 30

County: King Legal Acres: 31.98

Legal Description: ATTACHED Program Index: 933-103

Contract Trust: _____
CNTRS (trust code for lands sold under contract)

Purchase: 11-20-98 Exchange: _____
West Tiger Mt.

Tim.Who: _____
From-DNR party involved in timbered land exchange

Saler: (Nelson-WT04) Other: _____

Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

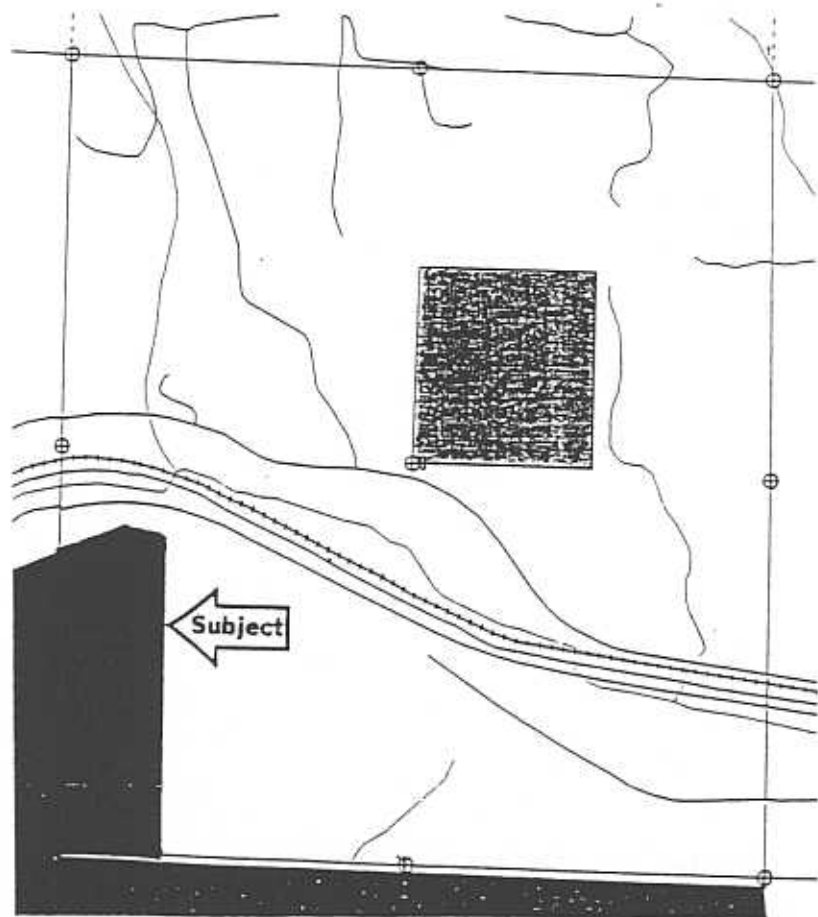
Included in HCP: YES Designation: no role
(NRF, Disposal, No Role)

Other Sensitive Species Designation: _____

HCP Inclusion - Year: 1998 Month: September

Comments: NRCA - credited as HCP land
(justification for parcel not being in the HCP)

West Tiger Mtn. NRCA - Nelson
Township: t24r07e
Section: 30



- Forest Board
(Forest Board Transfer,
Forest Board Purchase)
- Granted Trusts
- NRCA, NAP
(Natural Resource
Conservation Areas,
Natural Area Preserves)

- DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
- Land Purchase or
Land Acquired (through
land exchange)



Surface Trust: Forest CS

Township/Range: 9-6W Section: 16

Mineral Trust: Transferred to DNR

County: Wilkes Legal Acres: 117

Timber Trust: -

Lot Description: 1, 2 SW 1/4 NW 1/4, NW 1/4 SW 1/4, pt. SE 1/4 SW 1/4
tidelands exempt

Contract Trust: _____
CNTJRS (trust code for lands sold under contract)

Purchase: _____ Exchange: _____

Tim. Who: _____
(non-DNR party involved in timbered land exchange)

Sale: JDH Wildlife Refuge Transfer 53764 Other: _____

Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

Included in HCP: no former Designation: no role
(NRF, Dispersal, No Role)






Other Sensitive Species Designation: Columbia white-tailed deer

HCP Inclusion - Year: _____ Month: _____

Comments: transferred to other govt agency
(justification for parcel not being in the HCP)

Township: t09r06w
 Section: 16



-  Forest Board (Forest Board Transfer, Forest Board Purchase)
-  Granted Trusts
-  NRCA, NAP (Natural Resource Conservation Areas, Natural Area Preserves)
-  DNR Land Sale, DNR Land Exchanged, DNR Land Transfer
-  Land Purchase or Land Acquired (through land exchange)

Ownership Update Information
 Land Use Planning & Asset Mgmt. Division

Date: 1-2-99

Township/Range: 12N 9E Section: 6

County: Lewis Legal Acres: 14.31

Legal Description: Portion of Govt Lot 8 (see attached) Program Index: 335 03

Purchase: _____ Exchange: _____

Sale: X Other: _____

Surface Trust: Forestry 33

Mineral Trust: 03

Timber Trust: _____

Contract Trust: _____
CNTTRS (trust code for lands sold under contract)

Tim.Who: _____
(non-DNR party involved in timbered land exchange)

Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

Included in HCP: no

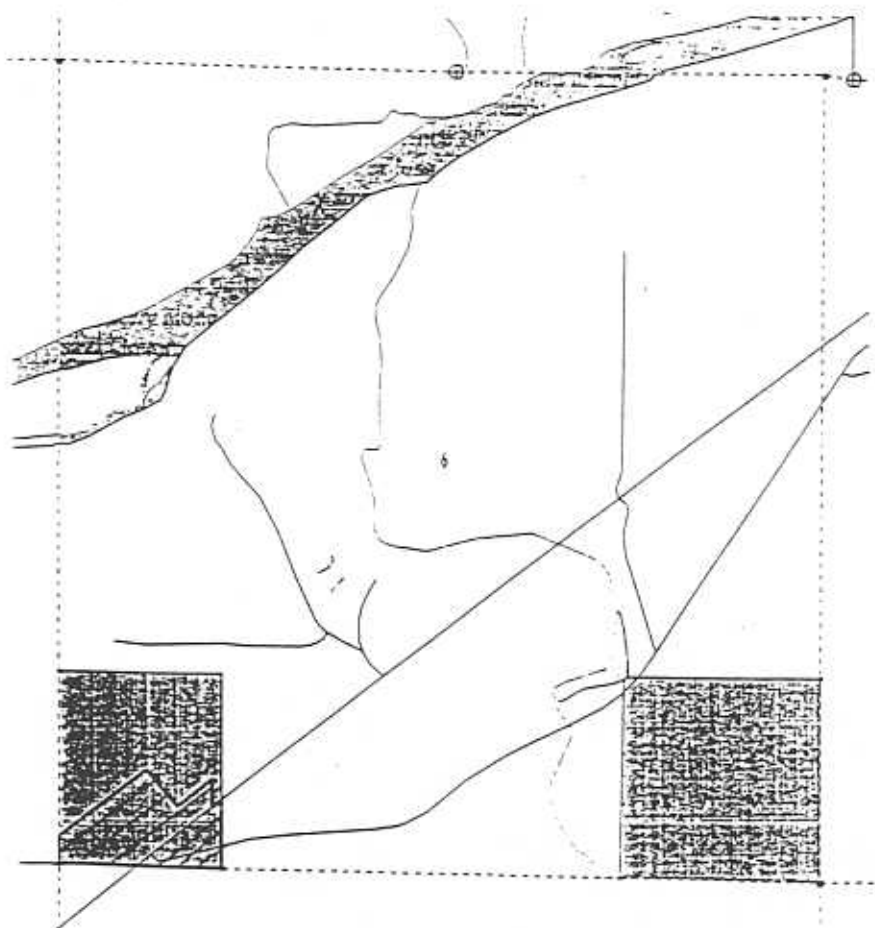
Designation: former
(NRF, Dispersed, No Role)

Other Sensitive Species Designation: None



HCP Inclusion - Year: _____ Month: _____

Comments: _____
(justification for parcel not being in the HCP)

Township: t12r09e
 Section: 6



-  Granted Trusts
-  Forest Board
(Forest Board Transfer, Forest Board Purchase)
-  NRCA, NAP
(Natural Resource Conservation Areas, Natural Area Preserves)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or Land Acquired (through land exchange)



Township: T31N, Range 6E Section: 22

County: Snohomish Legal Acres: 54.21

L Description: 1/4 SW 1/4 sec 22 T31N R 6E W1M Program Index: 995

Purchase: _____ Exchange: #512 TWIN FALLS INC

Sale: _____ Other: _____

Surface Trust: _____

Mineral Trust: Forest Board Trans

Timber Trust: _____

Contract Trust: _____
CNTRTS (trust code for lands sold under contract)

Tim. Who: _____
(non-DNR party involved in timbered land exchange)

Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

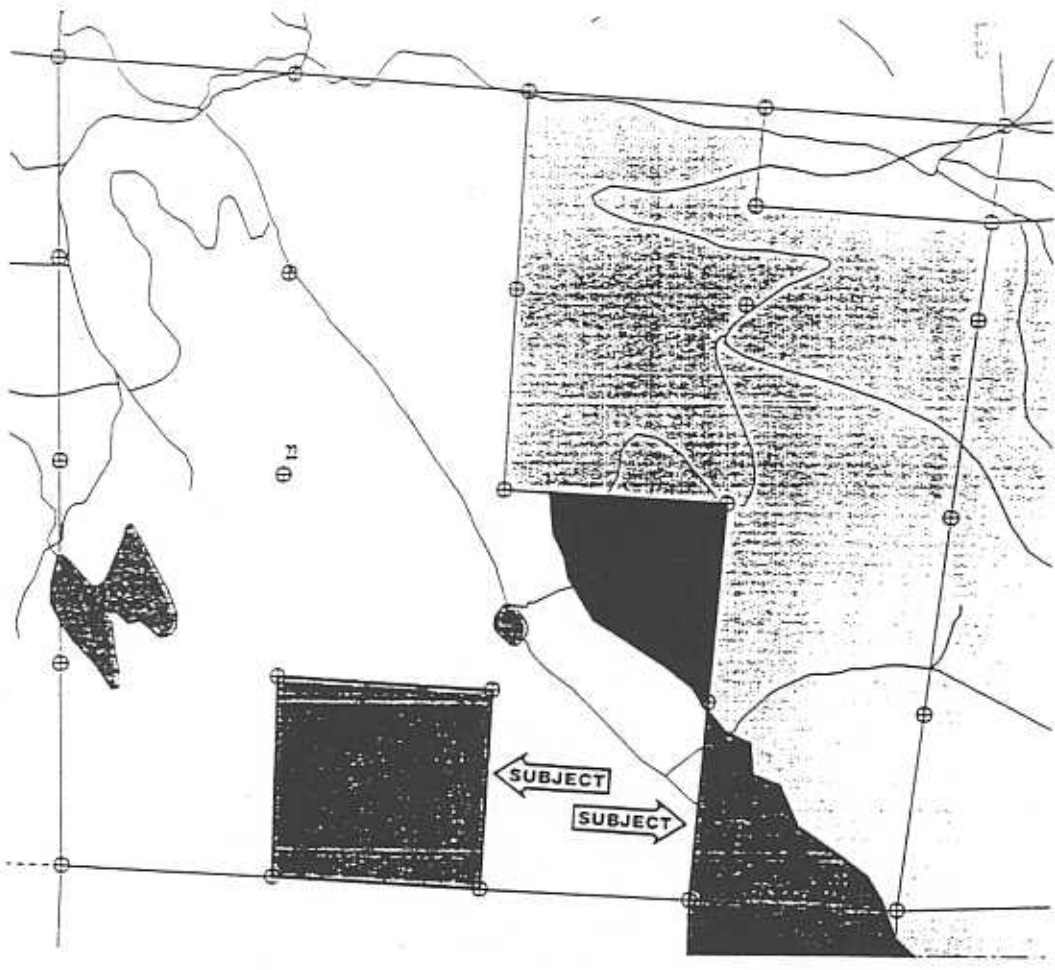
Included in HCP: NO Designation: former no role
(NRF, Dispersal, No Role)

Other Sensitive Species Designation: _____

HCP Inclusion - Year: _____ Month: _____

Comments: land exchanged to private ownership
(justification for parcel not being in the HCP)

Township: t31r06e
 Section: 22



DNR Land Sale
 DNR Land Exchanged
 DNR Land Transfer



Land Purchase or
 Land Acquired (through
 land exchange)



DNR Managed Land



WASHINGTON STATE DEPARTMENT OF
Natural Resources

DNR Ownership Update Information
Resource Planning & Asset Mgmt. Division

Date: 8/24/98

Township: 31 N, Range 6 E Section: 27, Portion of

County: Snohomish Legal Acres: 6.8

Description: NE 1/4 NE 1/4, Ptn of SE 1/4 NE 1/2 Sec 27 T31N R6E N1M Program Index: 995

Purchase: _____ Exchange: #512 Twin Falls Inc.

Sale: _____ Other: _____

Surface Trust: _____

Mineral Trust: SE 1/4 NE 1/4 - F.B. Purchase

Timber Trust: _____

Contract Trust: _____
CNTJRS (trust code for lands sold under contract)

Tim. Who: _____
(non-DNR party involved in timbered land exchange)

Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

Included in HCP: no Former Designation: no role
(NRF, Dispersal, No Role)

Other Sensitive Species Designation: _____

HCP Inclusion - Year: _____ Month: _____

Comments: Land exchanged to private ownership
(Qualification for parcel not being in the HCP)

Township: t31r06e
Section: 27



DNR Land Sale
DNR Land Exchanged
DNR Land Transfer



Land Purchase or
Land Acquired (through
land exchange)



DNR Managed Land



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Division of Forest Management

09-JUL-1998

DNR Ownership Update Information Date: 8/2-1998

Resource Planning & Asset Mgmt. Division

Township: T31-6E Section: 26

Owner: Shohomish Legal Acres: 60

Description: pt. NW 1/4, NE 1/4 SW 1/4 line westerly of top of bluff Program Index: _____

Purchase: _____ Exchange: S12, Twin Falls

Sale: _____ Other: _____

Surface Trust: _____

Mineral Trust: 51

Timber Trust: _____

Contract Trust: _____
(Contract code for lands sold under contract)

Tim. Who: _____
(Non-DNR party involved in timbered land exchange)

Tim. Yr: _____ Tim. Mo: _____
(Timber removal deadline on land exchange parcel)

Flag: _____
(Warning to check tract book for details)

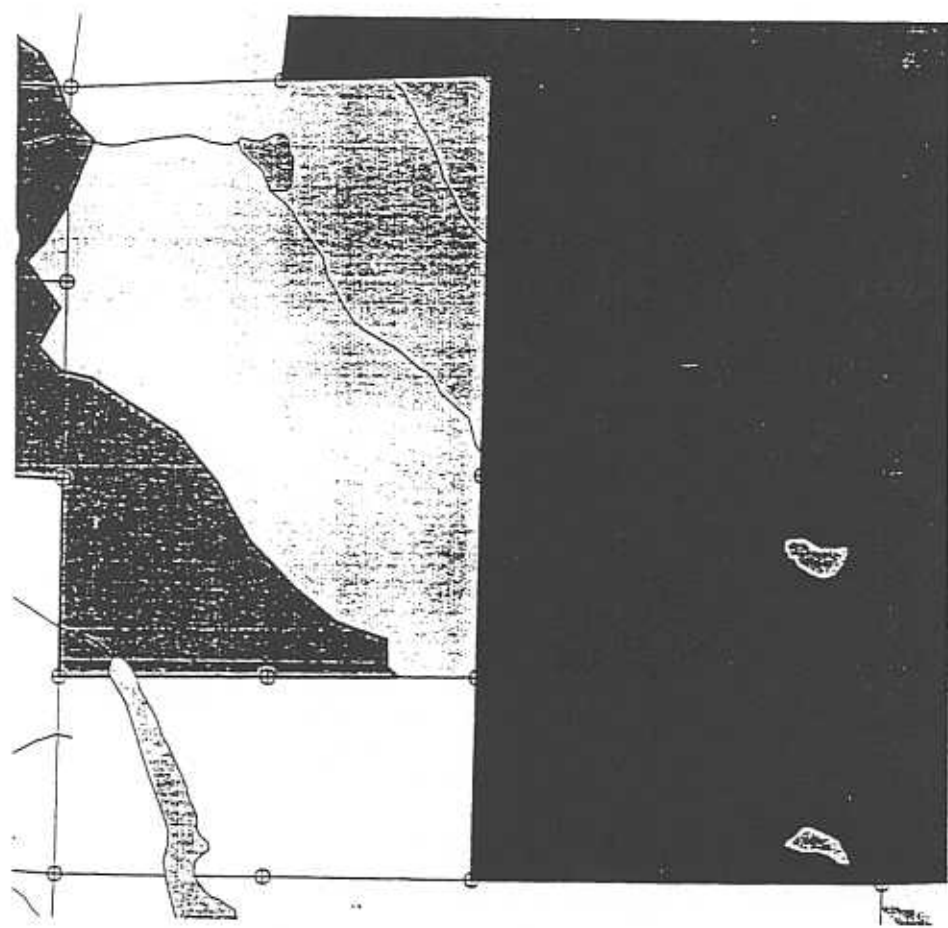
Included in HCP: no Designation: Former no role
(INRF, Dispersal, No Role)

Other Sensitive Species Designation: _____

CP Inclusion - Year: _____ Month: _____

Comments: land exchanged to private ownership - see next map for portion of
justification for parcel not being in the HCP) property to ~~be exchanged~~ remain under HCP designation

Township: t31r06e
Section: 26



DNR Land Sale
DNR Land Exchanged
DNR Land Transfer



Land Purchase or
Land Acquired (through
land exchange)



DNR Managed Land



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Director: W. S. ...

09-JUL-1998

DNR Ownership Update Information
Resource Planning & Asset Mgmt. Division

Date: 5/24/98

Township/Range: 31N, R6E

Section: 26-section

County: Snohomish

Legal Acres: 130

Legal Description:

Program Index: 995

Surface Trust: _____

Mineral Trust: Forest Board Transfer

Timber Trust: _____

Contract Trust: _____

Tim. Who: _____

Tim. Yr: _____ Tim. Mo: _____

Flag: _____

(warning to check tract book for details)

That portion of the SW 1/4, NW 1/4, & NE 1/4 of sec 26, T31N, R6E, W.M., Snohomish Co. WA lying westerly of the cliff edge, as said cliff edge is shown on that Record of Survey recorded July 17, 1998, under RFN 9807175081 Snohomish County Records, excepting therefrom the west 700 ft of said SW 1/4 NW 1/4, and the west 700 ft of said NE 1/4 SW 1/4 section 26.

#512
TWIN FALLS
EXCHANGE

Included in HCP: Yes*

Designation: No Role

Other Sensitive Species Designation:

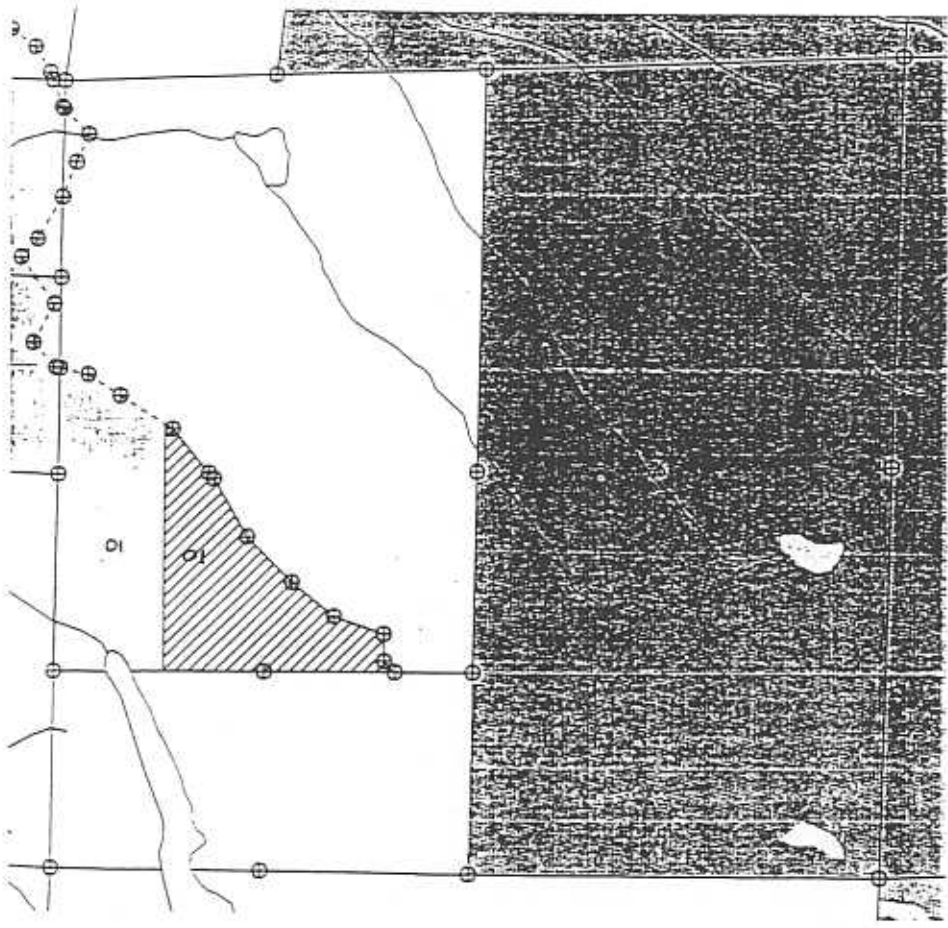
HCP Inclusion - Year: 1998

Month: August

Peregrine Falcons in HCP land

Comments: *Only the land highlighted in yellow with the diagonal lines is included in the HCP. This is private land.

Township: t31r06e
Section: 26



DNR Land Sale
DNR Land Exchanged
DNR Land Transfer

Land Purchase or Land Acquired (through land exchange)

HCP Designation: NO ROLE

Granted Trusts

Forest Board (Forest Board Transfer, Forest Board Purchase)



NR Ownership Update Information
 Resource Planning & Asset Mgmt. Division

Date: 4/12/99

Township/Range: 24-6E Section: 27
 County: King Legal Acres: 40
 Legal Description: NW 1/4 SE 1/4 Program Index: 335

Purchase: _____ Exchange: 520
 Sale: _____ Other: _____

Surface Trust: Trust
 Mineral Trust: "
 Timber Trust: "
 Contract Trust: _____
CONTRACTS (trust made for lands sold under contract)
 Tim. Who: _____
(non-DNR party involved in timbered land exchange)
 Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check trust book for details)




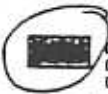

Included in HCP: ~~Yes~~ no Designation: former
(NRR Disposal, No Role)
 HCP Inclusion - Year: _____ Month: _____
 Comments: traded to Glacier Ridge Partnership

Other Sensitive Species Designation _____

(Justification for parcel not being in the HCP)

Township: **t24r06e**
 Section: **27**



-  Forest Board
(Forest Board Transfer,
 Forest Board Purchase)
-  Granted Trusts
-  NRCA, NAP
(Natural Resources
 Conservation Areas,
 Natural Area Preserves)
-  DNR Land Sale
 DNR Land Exchanged
 DNR Land Transfer
-  Land Purchase or
 Land Acquired (through
 land exchange)

NR Ownership Update Information Date: 4/12/14
Resource Planning & Asset Mgmt. Division

Township/Range: 24-6E Section: 24
County: King Legal Acres: 40.88
Legal Description: NW/4 NE/4 Program Index: 315

Surface Trust: Traded

Mineral Trust: _____

Timber Trust: _____

Contract Trust: _____
CONTRACTS (trust exists for lands sold under contract)

Tim. Who: _____
(non-DNR party involved in timbered land exchanges)

Tim. Yr: _____ Tim. Mo: _____

(timber removal deadline on land exchange parcel)

Flag: _____

(returning to check trust book for details)

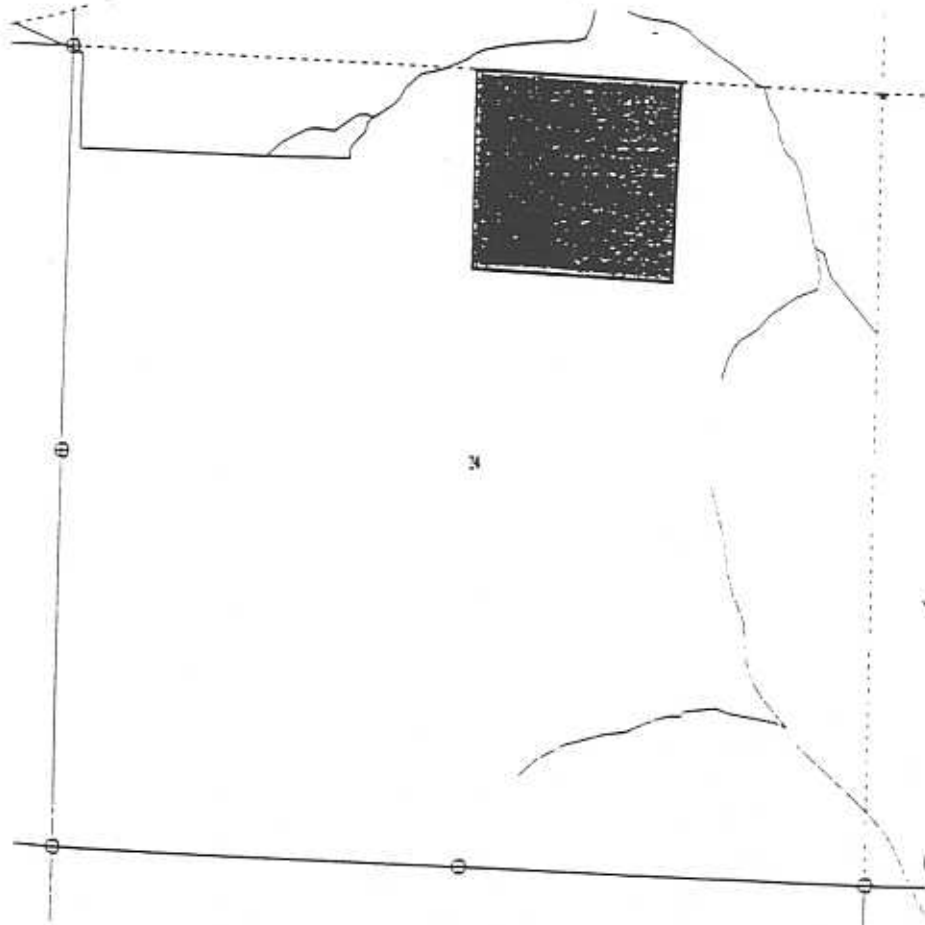
Included in HCP: no Designation: former no role
(NRF, Disposal, No Role)



HCP Inclusion - Year: _____ Month: _____

Comments: traded to Glacier Ridge Partnership
(justification for parcel not being in the HCP)

Other Sensitive Species Designation: _____

Township: t24r06e
Section: 24



-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  Granted Trusts
-  NRCA, NRP
(Natural Resources
Conservation Areas,
Natural Area Preserve)

-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)

DNR Ownership Update Information Date: 7-7-99
Resource Planning & Asset Mgmt. Division

Township/Range: 23 18E Section: 22

County: Chelan Legal Acres: 200 ±

Legal Description: NE NW, S2 NW, N2 SW 22-23N-18E Program Index: 930

Purchase: Camas Meadows NAP Exchange: _____
(KNO WES)

Sale: CUMD Other: _____

Surface Trust: 74 ✓

Mineral Trust: 74 ✗

Timber Trust: 74 ✗

Contract Trust: _____
CONTRACTS (trust code for lands sold under contract)

Tim.Who: _____
(non-DNR party involved in timbered land exchange)

Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check trust book for details)

Included in HCP: yes Designation: NRF
(NRF, Disposed, No Role)

HCP Inclusion - Year: 99 Month: June

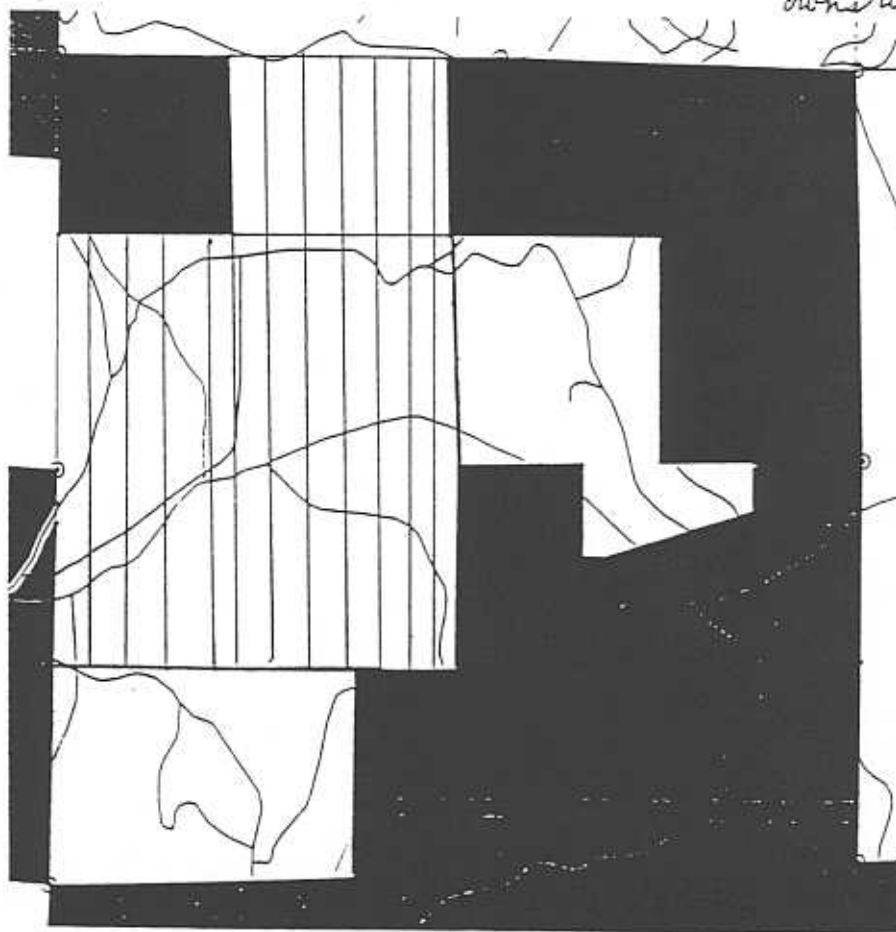
Comments: NAP - credited as HCP land
(Justification for parcel not being in the HCP)

Other Sensitive Species Designation: _____

Township: t23r18e
Section: 22

* DNR owns undivided 75% interest.

* The Nature Conservancy owns undivided 25% interest.



Forest Board
(Forest Board Transfer,
Forest Board Purchase)
 Granted Trusts
 NRCA, NAP
(Natural Resource
Conservation Areas,
Natural Area Preserves)

DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
 Land Purchase or
Land Acquired (through
land exchange)



07-JUL-1999

Ownership Update Information Date: 11/30/98
 Resource Planning & Asset Mgmt. Division

Township/Range: T8N R5W Section: 1
 County: Wahkiakum Legal Acres: 10.61
 Legal Description: Portion of Tract 10 in Ocean Highway Tracts Program Index: 335
 Purchase: Rid #119 Exchange: _____
 Sale: _____ Other: _____

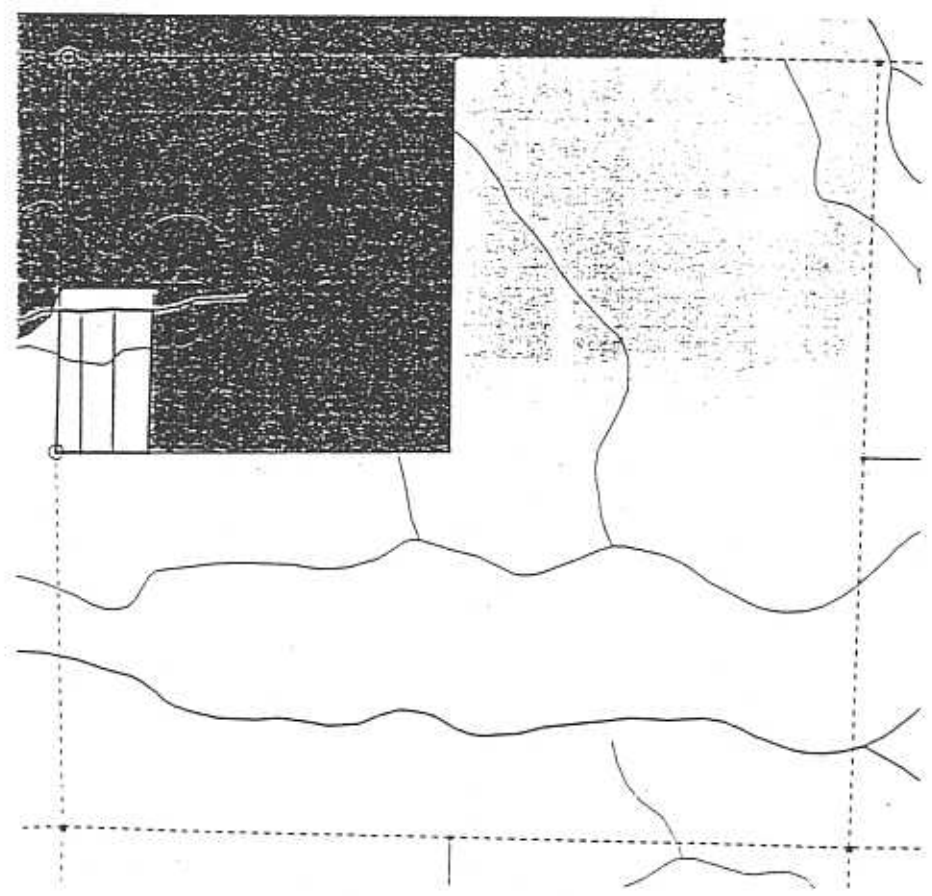
Surface Trust: 03-Common Sale
 Mineral Trust: 03-Common Sale
 Timber Trust: 03-Common Sale
 Contract Trust: _____
CONTRS (trust code for lands sold under contract)
 Tim. Who: _____
(non-DNR party involved in timbered land exchange)
 Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)






Included in HCP: Yes Designation: No Role
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1999 Month: January

Other Sensitive Species Designation: _____

Comments: _____
(Justification for parcel not being in the HCP)

Township: t08r05w
 Section: 01



-  Forest Board
(Forest Board Transfer, Forest Board Purchase)
-  Granted Trusts
-  NRCA, NAP
(Natural Resource Conservation Areas, Natural Area Preserved)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)



Ownership Update Information Date: 11/20/98
 Planning & Asset Mgmt. Division

Ownership/Range: T8N R5W Section: 2
 County: Wahkiakum Legal Acres: 14.89
 Legal Description: 24.2 of Tract 3 in Ocean Highway Tracts Program Index: 335
 Purchase: Rid #114 Exchange: _____
 Sale: _____ Other: _____

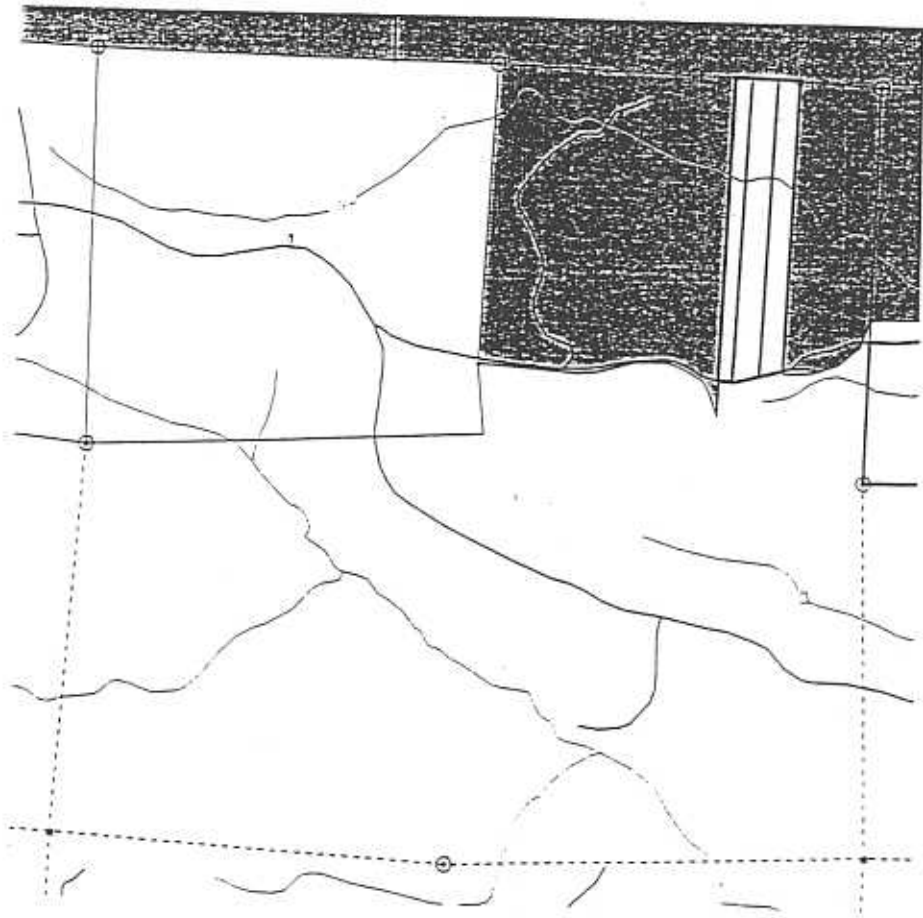
Surface Trust: 03-Common 24
 Mineral Trust: 03-Common 24
 Timber Trust: 03-Common 24
 Contract Trust: _____
CNTTRS (trust code for lands sold under contract)
 Tim. Who: _____
(non-DNR party involved in timbered land exchange)
 Tim. Yr: _____ Tim. Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)






Included in HCP: Yes Designation: No Role
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1999 Month: January

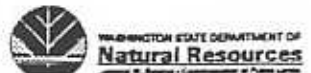
Other Sensitive Species Designation: _____

Comments: _____
(Justification for parcel not being in the HCP)

Township: t08r05w
 Section: 2



-  Forest Board
(Forest Board Transfer, Forest Board Purchase)
-  Granted Trusts
-  NRCA, NRP
(Natural Resource Conservation Areas, Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)



Ownership Update Information Date: 5-3-99
 Resource Planning & Asset Mgmt. Division

Surface Trust: 74

Mineral Trust: 74

Timber Trust: 74

Township/Range: T6/R10E Section: 9

County: Klickitat Legal Acres: 143.00
216.95

Legal Description: _____ Program Index: 934-101

_____ see attached

Purchase: Exchange: _____
Trout Lake NAP

Sale: _____ Other: _____
(Hollenbeck - TLO3)

Contract Trust: _____
CNTJRS (trust code for lands sold under contract)

Tim.Who: _____
(non-DNR party involved in timbered land exchanged)

Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)

Flag: _____
(warning to check tract book for details)

Included in HCP: YES Designation: NRF
(NRF Dispersed, No Role)

HCP Inclusion - Year: 1999 Month: January

Comments: NAP - credited as HCP land.
(Justification for parcel not being in the HCP)

Other Sensitive Species Designation: _____

Township: t06r10e
 Section: 9

FR

SUBJ

This acq.

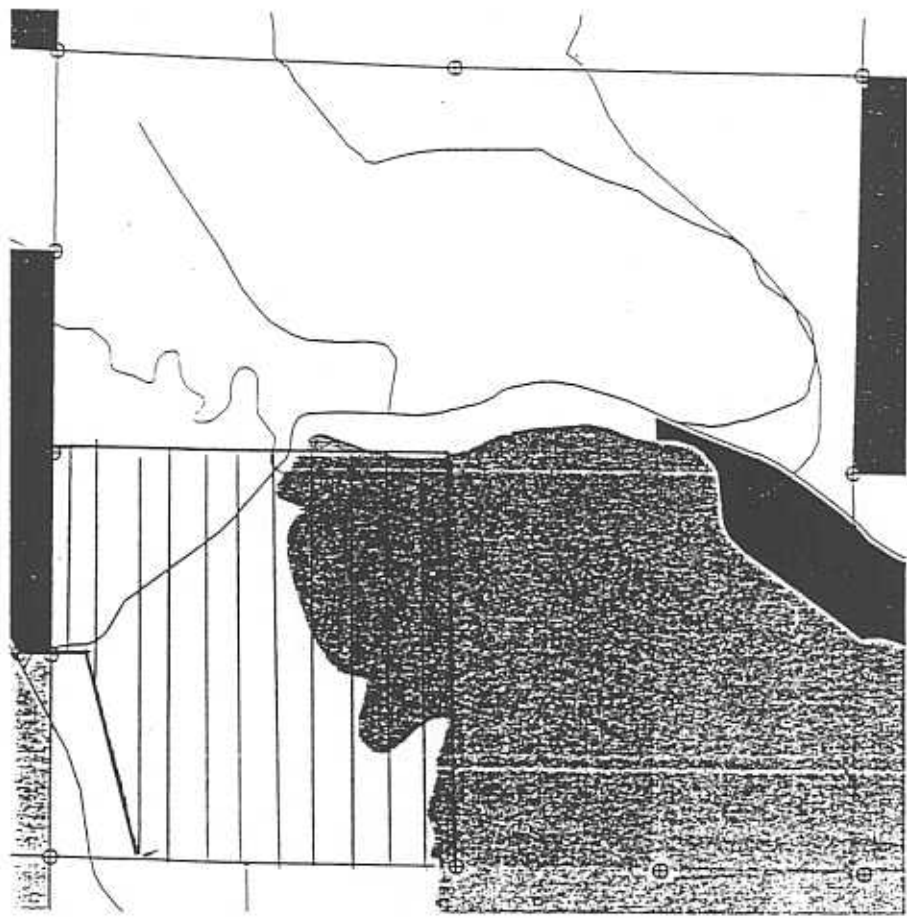
Sel




Date
 Acres
 County
 Tax par

Program/

If you need addition
 902-1705.

Attachments



-  Forest Board
(Forest Board Transfer,
 Forest Board Purchase)
-  Granted Trusts
-  NRCA, NAP
(Natural Resources
 Conservation Areas,
 Natural Area Preserve)

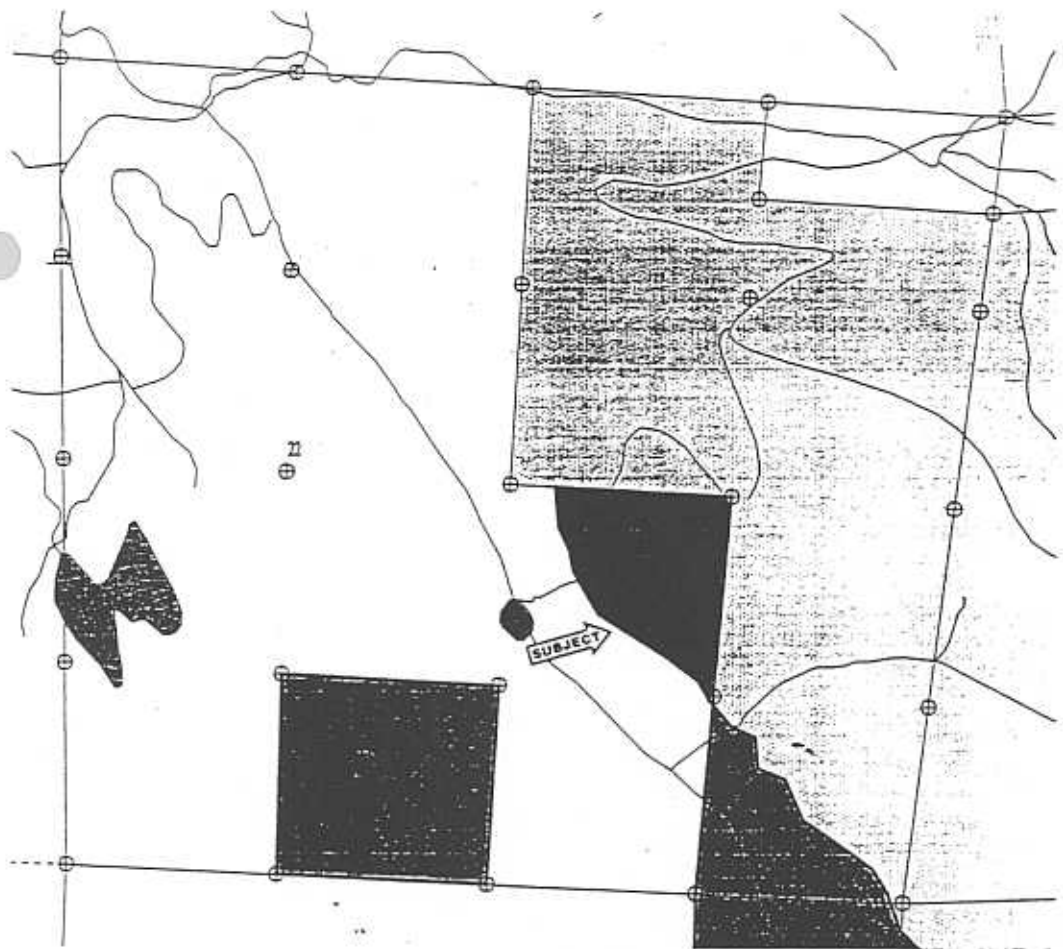
-  DNR Land Sale
DNR Land Exchanged
 DNR Land Transfer
-  Land Purchase or
 Land Acquired (through
 land exchange)

NR Ownership Update Information Date: 5/24/98
 source Planning & Asset Mgmt. Division
 Township: 31-6E Section: 22
 County: Snohomish Legal Acres: ~~20~~
 Parcel Description: pt. W 1/2 SE 1/4 lying northwesterly of top of bluff Program Index: 995
 Purchase: _____ Exchange: #512 Twin Falls
 Title: _____ Other: _____

Surface Trust: 01
 Mineral Trust: _____
 Timber Trust: _____
 Contract Trust: _____
(Contract code for lands sold under contract)
 Tim.Who: _____
(non-DNR party involved in timbered land exchange)
 Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)

Included in HCP: No * Designation: no role Other Sensitive Species Designation: _____
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 2006 Month: July
 Comments: * Not included in HCP until timber reservation expires July 29, 2006
(Justification for parcel not being in the HCP)

Township: t31r06e
 Section: 22



DNR Land Sale
 NR Land Exchanged
 JNR Land Transfer

Land Purchase or Land Acquired (through land exchange)

DNR Managed Land



Township/Range: 6-10E Section: 16
 County: Clickitat Legal Acres: 71.95
 Legal Description: _____ Program Index: 934-101

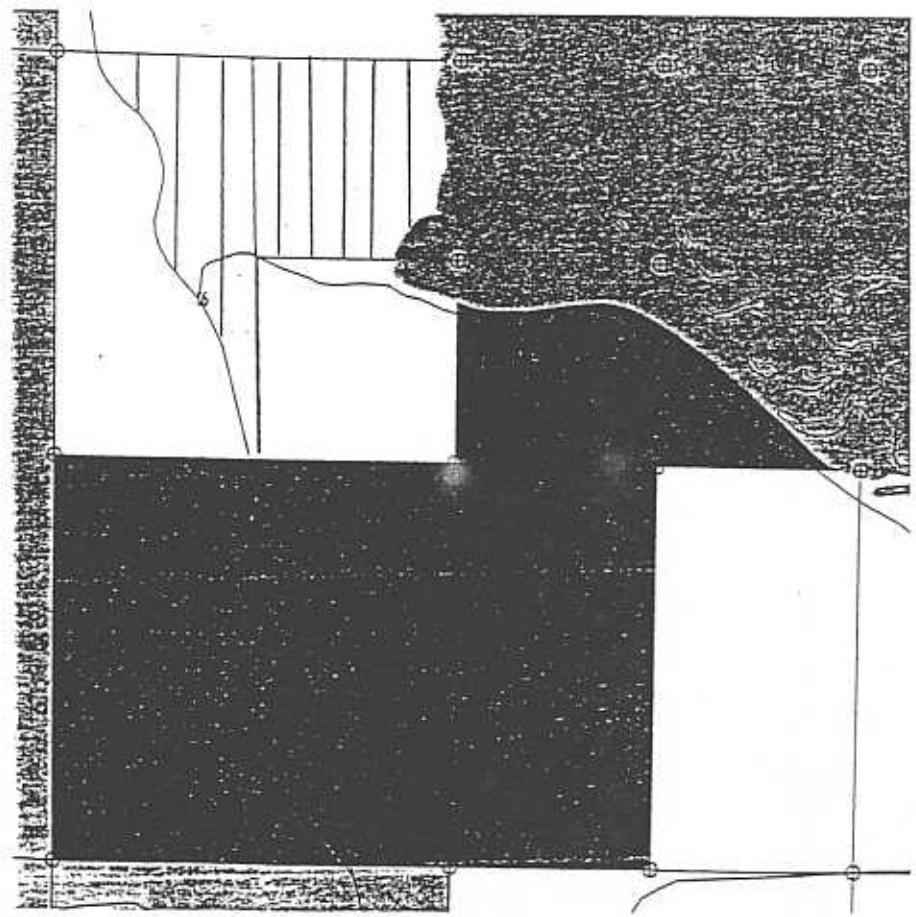
Mineral Trust: 74
 Timber Trust: 74
 Contract Trust: _____
CONTRACTS (trust code for lands sold under contract)
 Tim.Who: _____
(non-DNR party involved in timbered land exchange)
 Tim.Yr: _____ Tim.Mo: _____
(timber removal deadline on land exchange parcel)
 Flag: _____
(warning to check tract book for details)






Purchase: Trout Lake Exchange: _____
 Sale: (Hollenbeck-TR04) Other: _____

Included in HCP: yes Designation: NRF
(NRF, Dispersal, No Role)
 HCP Inclusion - Year: 1999 Month: January
 Comments: NAP - credited as HCP land
(Justification for parcel not being in the HCP)

Other Sensitive Species Designation: _____

Township: t06r10e
 Section: 16



-  Forest Board
(Forest Board Transfer,
Forest Board Purchase)
-  Granted Trusts
-  NRCA, NAP
(Natural Resource
Conservation Areas,
Natural Area Preserves)
-  DNR Land Sale
DNR Land Exchanged
DNR Land Transfer
-  Land Purchase or
Land Acquired (through
land exchange)



DNR Ownership Update Information Date: 2/20/98
Resource Planning & Asset Mgmt. Division

Surface Trust: C.D. - F.B. Par

Township: 21 North, Range 14 Section: E 1/2 E 1/2 Sec 12

Mineral Trust: owned by parcel owner

Timber Trust: N/A

County: Snohomish Legal Acres: 158.6

Contract Trust: _____
CONTRACTS (trust code for lands sold under contract)

Legal Description: _____
E 1/2 E 1/2 Sec 12, T31N, R14E, W1M

Tim.Who: John Hancock Mutual L
(non-DNR party involved in timbered land exchange)

Purchase: #115, Hancock - Arlington Exchange: _____

Tim.Yr: 2006 Tim.Mo: Jul
(timber removal deadline on land exchange parcel)

Sale: _____ Other: _____

Flag: _____
(warning to check tract book for details)

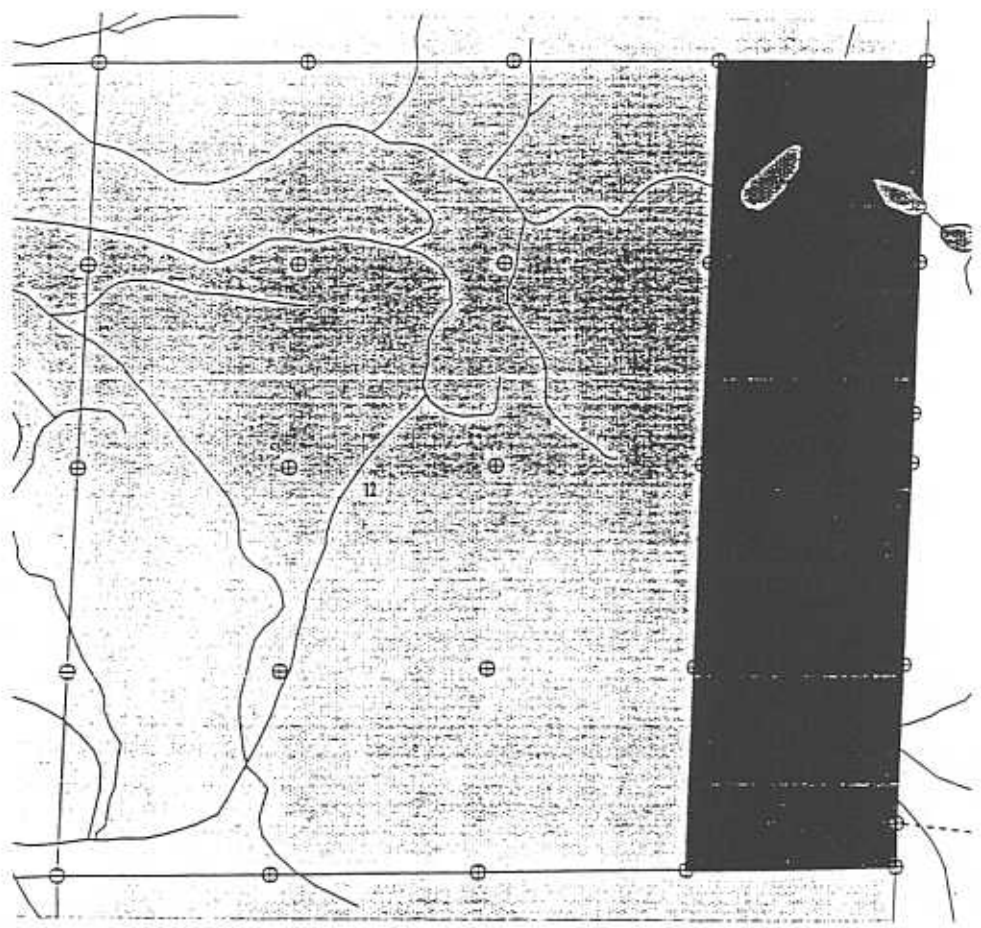
Included in HCP: No* Designation: no role
(NRF, Dispersal, No Role)


Other Sensitive Species Designation: _____

HCP Inclusion - Year: _____ Month: _____

Comments: Not included in HCP until after expiration of Hancock's timber reservation which expires July 29, 2006
(justification for parcel not being in the HCP)

Township: t31r06e
Section: 12



 DNR Land Sale
DNR Land Exchanged
DNR Land Transfer

 Land Purchase or
Land Acquired (through
land exchange)

 DNR Managed Land



DNR Ownership Update Information
Resource Planning & Asset Mgmt. Division

Date: 7/26/98

Surface Trust: 02

Township: T31N, Range 6E Section: SE 1/4, E 1/2 SW 1/4 23

Mineral Trust: Reserved by previous owner

Timber Trust: N/A

County: Snohomish Legal Acres: 231.20

Contract Trust: -

Legal Description: 1/4, E 1/2 SW 1/4, Section 23, T31N, R6E 111M

Program Index: 025

CNTTRS (trust code for lands sold under contract)

Tim.Who: John Hancock Mutual Life

(non-DNR party involved in timbered land exchange)

Tim.Yr: 2006 Tim.Mo: July

(timber removal deadline on land exchange parcel)

Purchase: #115 Hancock Mutual Life Exchange: -

Sale: - Other: -

Flag: -

(warning to check tract book for details)

Included in HCP: No* Designation: no role

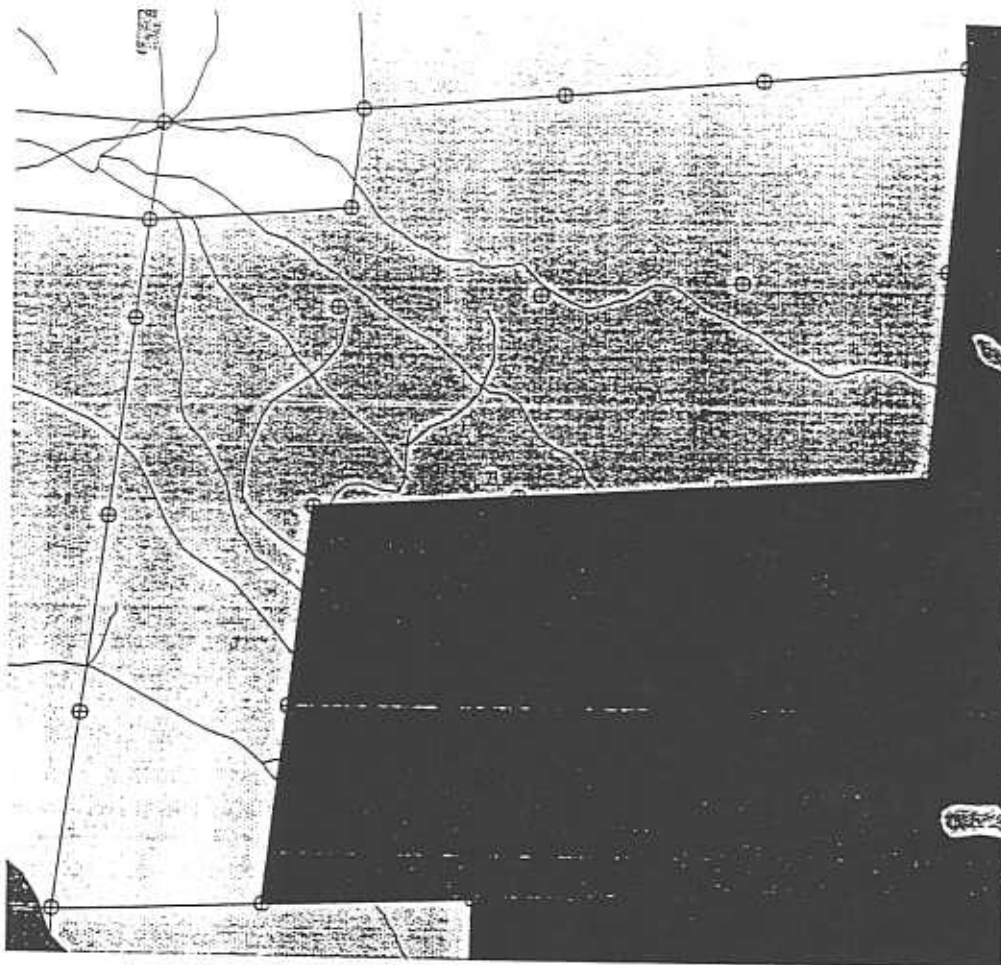
(NRF, Dispersal, No Role)

Other Sensitive Species Designation: -

HCP Inclusion - Year: - Month: -

Comments: *Not included in HCP until the expiration of the timber reservation
(justification for parcel not being in the HCP) Expires July 29, 2006.

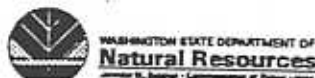
Township: t31r06e
Section: 23



 DNR Land Sale
 DNR Land Exchanged
 DNR Land Transfer

 Land Purchase or
Land Acquired (through
land exchange)

 DNR Managed Land



09-JUL-1998

Appendix E: Future Forest Condition

Disclaimer: Portions of this report were not available in their final electronic version. In some cases, missing sections were scanned. In other cases, modified draft versions, which look slightly different from the original print versions, were substituted. Although the formatting may look different from the print version of this report, in no case were the data changed in any way.

Appendix E

FUTURE FOREST CONDITIONS

Westside excluding OESF

Olympic Region - including OESF

Westside including OESF

Olympic Experimental State Forest

Central Region

South Puget Sound Region

Northwest Region

Southwest Region

HCP ANNUAL REPORT TO THE SERVICES FY'99
US Fish and Wildlife Service & National Marine Fisheries Service

WESTSIDE HCP PLANNING UNITS (EXCLUDING OESF)

FUTURE FOREST CONDITIONS {1}

Fiscal year ending: June 30, 1999

Decadal Calculations: Sustainable Harvest Analysis of September 1996

Stand Stage (2)	Baseline Condition (3) January 1997		Present Condition (4) June 30, 1999		HCP/SH @ 10 years (5)		HCP/SH @ 20 years (5)		HCP/SH @ 30 years (5)		HCP/SH @ 40 years (5)		HCP/SH @ 50 years (5)		HCP/SH @ 60 years (5)		HCP/SH @ 70 years (5)		HCP/SH @ 100 years (5)		HCP objectives @ 100 year, waterside excluding OESF
	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	
Open (0-10 years)	93,767	9%	99,850	9%	115,929	10%	139,366	12%	128,585	11%	114,450	10%	111,422	10%	112,219	10%	126,557	11%	115,947	10%	5-10%
Regeneration (10-20 years)	135,601	11%	132,333	11%	139,325	12%	124,251	11%	144,408	12%	134,037	11%	122,784	11%	122,652	11%	124,386	11%	123,360	11%	5-15%
Pole (20-40 years)	184,564	15%	193,469	17%	213,015	18%	258,251	22%	263,576	23%	268,659	23%	278,445	24%	256,821	22%	254,436	22%	271,898	23%	15-25%
Closed (40-70 years)	539,019	45%	528,869	46%	437,670	37%	324,431	28%	305,323	26%	351,291	30%	361,803	31%	375,644	32%	36,129	31%	346,949	30%	25-35%
Complex (at least 70 years)	222,757	19%	215,659	18%	262,185	22%	321,605	28%	326,212	28%	299,664	26%	293,649	25%	300,766	26%	311,593	27%	309,947	27%	25-36%
[Fully Functional 150+ years, included in Complex stand stages]	[39,308]	[3%]	[32,748]	[3%]	[48,771]	[4%]	[48,735]	[4%]	[50,815]	[4%]	[55,578]	[5%]	[59,501]	[5%]	[64,161]	[6%]	[74,801]	[8%]	[183,535]	[14%]	at least 150 years 10-15%
TOTAL AREA [acres]	1,175,708	99%	1,170,180	100%	1,168,104	99%	1,168,104	101%	1,168,104	100%	1,168,101	100%	1,168,103	101%	1,168,102	101%	1,168,101	102%	1,168,101	101%	75%-120%

(1) Future Forest Conditions are identified as age-class designations in the sustainable harvest model. Future Forest Conditions are achieved over time through forest management activities. Forest management activities influence stand structure by integrating policies, issues, resources and uses. Management activities are subject to changes over time.

(2) Stand stages and stand structure objectives for Future Forest Conditions are defined on page IV.150 of the Habitat Conservation Plan, 1996.

(3) Baseline Condition 1997 data source: Geographic Information System, Land Use Land Cover/Forest Resources Inventory System. The sustainable harvest calculation was based on June 1996 inventory data. Differences between data bases may reflect information system updates during 1996.

(4) Present Condition is the age-class inventory, as documented in the Geographic Information System in July 1999. (Data Source: GIS- LULC/FRIS). Land transactions, such as exchanges and sales, can change acreage totals.

(5) HCP/SH information is the forest composition according to the September 1996 Sustainable Harvest calculation, incorporating the Habitat Conservation Plan. (Data Source: GIS- LULC/FRIS).

Note: HCP/SH area figures include all lands included in the 1996 HCP sustainable harvest analysis [i.e., "off-base" as well as "on-base"].

HCP/SH % data is the % of decade's total acres.

Numbers may not add due to rounding.

HCP ANNUAL REPORT TO THE SERVICES FY'99
 US Fish and Wildlife Service & National Marine Fisheries Service

WESTSIDE HCP PLANNING UNITS (INCLUDING OESF)

FUTURE FOREST CONDITIONS {1}

Fiscal year ending: June 30, 1999

Decadal Calculations: Sustainable Harvest Analysis of September 1996

Stand Stage (2)	Baseline Condition (3) January 1997		Present Condition (4) June 30, 1999		HCP/SH @ 10 years (5)		HCP/SH @ 20 years (5)		HCP/SH @ 30 years (5)		HCP/SH @ 40 years (5)		HCP/SH @ 50 years (5)		HCP/SH @ 60 years (5)		HCP/SH @ 70 years (5)		HCP/SH @ 100 years (5)	
	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	area [acres]	% of total area	total westside area [acres]	% of total westside acres
Open (0-10 years)	112,659	8%	119,308	8%	119,823	8%	148,857	10%	137,062	10%	142,012	10%	139,621	10%	139,584	10%	147,763	10%	136,680	10%
Regeneration (10-20 years)	195,203	14%	192,696	13%	171,374	12%	128,362	9%	154,139	11%	141,927	10%	148,120	10%	149,169	10%	149,508	10%	141,015	10%
Pole (20-40 years)	270,648	19%	279,805	20%	329,736	23%	353,842	25%	299,736	21%	282,501	20%	286,066	21%	290,047	20%	297,289	21%	309,692	22%
Closed (40-70 years)	569,288	40%	558,131	39%	478,603	33%	411,001	29%	443,732	31%	498,461	35%	461,505	32%	421,535	29%	381,861	27%	423,924	30%
Complex (at least 70 years)	291,038	20%	279,702	20%	333,549	23%	391,224	27%	398,416	28%	368,185	26%	387,773	27%	432,751	30%	456,664	32%	421,775	29%
{150+ years, included in Complex stand stage}	[83,228]	[6%]	[75,119]	[5%]	[68,895]	[5%]	[91,436]	[6%]	[83,737]	[7%]	[97,979]	[7%]	[104,388]	[7%]	[108,659]	[8%]	[118,842]	[8%]	[213,852]	[15%]
TOTAL AREA [acres]	1,438,836	101%	1,432,830	100%	1,433,085	99%	1,433,086	100%	1,433,085	101%	1,433,086	101%	1,433,085	100%	1,433,086	99%	1,433,085	100%	1,433,086	101%

{1} Future Forest Conditions are identified as age-class designations in the sustainable harvest model. Future Forest Conditions are achieved over time through forest management activities. Forest management activities influence stand structure by integrating policies, issues, resources and uses. Management activities are subject to changes over time.

{2} Stand stages and stand structure objectives for Future Forest Conditions are defined on page IV.180 of the Habitat Conservation Plan, 1996.

{3} Baseline Condition 1997 data source: Geographic Information System, Land Use Land Cover/Forest Resources Inventory System. The sustainable harvest calculation was based on June 1996 inventory data. Differences between data bases may reflect information system updates during 1996.

{4} Present Condition is the age-class inventory, as documented in the Geographic Information System in July 1999. (Data Source: GIS- LULC/FRIS). Land transactions, such as exchanges and sales, can change acreage totals.

{5} HCP/SH information is the forest composition according to the September 1996 Sustainable Harvest calculation, incorporating the Habitat Conservation Plan. (Data Source: GIS- LULC/FRIS).

Note: HCP/SH area figures include all lands included in the 1996 HCP sustainable harvest analysis [i.e., "off-base" as well as "on-base"].

HCP/SH % data is the % of decade's total acres.

Numbers may not add due to rounding.



HCP ANNUAL REPORT TO THE SERVICES FY'99
US Fish and Wildlife Service & National Marine Fisheries Service

CENTRAL REGION

FUTURE FOREST CONDITIONS (1)

September 1996

Stand Stage (2)	Baseline Condition (3) January 1997		Present Condition (4) June 30, 1998		HCP/SH @ 10 years (5)		HCP/SH @ 20 years (5)		HCP/SH @ 30 years (5)		HCP/SH @ 40 years (5)		HCP/SH @ 50 years (5)		HCP/SH @ 60 years (5)		HCP/SH @ 70 years (5)		HCP/SH @ 100 years (5)		100 years: % of total westside stand stage acres in Central Region
	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	
Open (0-10 years)	25,015	9%	25,296	8%	41,342	14%	42,873	14%	38,541	13%	32,491	11%	35,579	12%	34,577	12%	39,112	13%	34,438	11%	2%
Regeneration (10-20 years)	37,511	13%	36,027	12%	41,787	14%	42,685	14%	43,972	15%	39,417	13%	34,280	11%	37,754	13%	36,143	12%	37,421	12%	3%
Pole (20-40 years)	45,016	15%	45,673	16%	54,566	18%	73,907	25%	84,472	28%	86,657	29%	83,389	28%	73,697	25%	72,033	24%	79,491	26%	6%
Closed (40-70 years)	153,418	52%	151,987	53%	133,365	44%	98,046	33%	85,587	29%	96,353	32%	102,688	34%	106,833	36%	101,254	34%	96,594	32%	7%
Complex (at least 70 years)	32,450	11%	30,342	11%	29,241	10%	42,790	14%	47,728	16%	45,382	15%	44,364	15%	47,441	16%	51,757	17%	52,358	17%	4%
Fully Functional (150+ years, included in Complex stand stage)	[1,018]	[0%]	[448]	[0%]	[2,158]	[1%]	[2,389]	[1%]	[2,468]	[1%]	[2,736]	[1%]	[2,961]	[1%]	[3,240]	[1%]	[4,036]	[1%]	[24,094]	[8%]	[2%]
TOTAL AREA (acres)	293,410	100%	288,324	101%	300,301	100%	300,301	100%	300,300	101%	300,300	100%	300,300	100%	300,302	102%	300,299	100%	300,302	98%	22%

{1} Future Forest Conditions are identified as age-class designations in the sustainable harvest model. Future Forest Conditions are achieved over time through forest management activities. Forest management activities influence stand structure by integrating policies, issues, resources and uses. Management activities are subject to changes over time.

{2} Stand stages and stand structure objectives for Future Forest Conditions are defined on page IV.180 of the Habitat Conservation Plan, 1996.

{3} Baseline Condition 1997 data source: Geographic Information System, Land Use Land Cover/Forest Resources Inventory System. The sustainable harvest calculation was based on June 1996 inventory data. Differences between data bases may reflect information system updates during 1996.

{4} Present Condition is the age-class inventory, as documented in the Geographic Information System in July 1999. (Data Source: GIS- LULC/FRIS). Land transactions, such as exchanges and sales, can change acreage totals.

{5} HCP/SH information is the forest composition according to the September 1996 Sustainable Harvest calculation, incorporating the Habitat Conservation Plan. (Data Source: GIS- LULC/FRIS).

Note: HCP/SH area figures include all lands included in the 1996 HCP sustainable harvest analysis [i.e., "off-base" as well as "on-base"].

HCP/SH % data is the % of decade's total acres.

Numbers may not add due to rounding.

HCP ANNUAL REPORT TO THE SERVICES FY'99
US Fish and Wildlife Service & National Marine Fisheries Service

NORTHWEST REGION

FUTURE FOREST CONDITIONS (1)

Fiscal year ending: June 30, 1999

Decadal Calculations: Sustainable Harvest Analysis of September 1996

Stand Stage (2)	Baseline Condition (3) January 1997		Present Condition (4) June 30, 1999		HCP/SH @ 10 years (5)		HCP/SH @ 20 years (5)		HCP/SH @ 30 years (5)		HCP/SH @ 40 years (5)		HCP/SH @ 50 years (5)		HCP/SH @ 60 years (5)		HCP/SH @ 70 years (5)		HCP/SH @ 100 years (5)		100 years: % of total available stand stage acres in NW Region
	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	
Open (0-10 years)	32,361	9%	35,849	10%	29,028	8%	37,116	10%	32,863	9%	35,264	10%	32,658	9%	32,491	9%	33,682	9%	32,022	9%	2.2%
Regeneration (10-20 years)	43,978	12%	43,814	12%	46,208	14%	29,882	8%	36,864	10%	32,841	9%	36,148	10%	34,908	10%	35,327	10%	32,080	9%	2.2%
Pole (20-40 years)	53,807	15%	68,096	16%	59,467	17%	81,874	23%	78,090	22%	66,766	19%	69,725	20%	68,989	19%	71,056	20%	74,152	21%	5.2%
Closed (40-70 years)	152,080	42%	145,123	41%	110,658	31%	78,943	22%	83,497	24%	106,627	30%	106,679	30%	105,538	30%	93,630	26%	98,014	28%	6.8%
Complex (at least 70 years)	77,587	22%	74,398	21%	107,806	30%	127,350	36%	123,832	35%	113,867	32%	109,956	31%	113,238	32%	121,469	34%	118,896	33%	8.3%
Fully Functional, 150+ years, included in Complex stand stage	[28,822]	[8%]	[27,455]	[8%]	[30,052]	[9%]	[31,434]	[9%]	[32,825]	[9%]	[36,074]	[10%]	[37,856]	[11%]	[38,579]	[11%]	[40,112]	[11%]	[68,079]	[19%]	[4.6%]
TOTAL AREA [acres]	359,813	100%	367,279	100%	355,165	100%	355,165	99%	355,166	100%	355,165	100%	355,166	100%	355,164	100%	355,164	99%	355,164	100%	27.4%

(1) Future Forest Conditions are identified as age-class designations in the sustainable harvest model. Future Forest Conditions are achieved over time through forest management activities. Forest management activities influence stand structure by integrating policies, issues, resources and uses. Management activities are subject to changes over time.

(2) Stand stages and stand structure objectives for Future Forest Conditions are defined on page IV.160 of the Habitat Conservation Plan, 1996.

(3) Baseline Condition 1997 data source: Geographic Information System, Land Use Land Cover/Forest Resources Inventory System. The sustainable harvest calculation was based on June 1996 inventory data. Differences between data bases may reflect information system updates during 1996.

(4) Present Condition is the age-class inventory, as documented in the Geographic Information System in July 1999. (Data Source: GIS- LULC/FRIS). Land transactions, such as exchanges and sales, can change acreage totals.

(5) HCP/SH information is the forest composition according to the September 1996 Sustainable Harvest calculation, incorporating the Habitat Conservation Plan. (Data Source: GIS- LULC/FRIS).

Note: HCP/SH area figures include all lands included in the 1996 HCP sustainable harvest analysis [i.e., "off-base" as well as "on-base"].
HCP/SH % data is the % of decade's total acres.
Numbers may not add due to rounding.



HCP ANNUAL REPORT TO THE SERVICES FY'99
US Fish and Wildlife Service & National Marine Fisheries Service

OLYMPIC REGION (INCLUDING OESF)

FUTURE FOREST CONDITIONS {1}

Fiscal year ending: June 30, 1999

Decadal Calculations: Sustainable Harvest Analysis of September 1996

Stand Stage (2)	Baseline Condition (3) January 1997		Present Condition (4) June 30, 1999		HCP/SH @ 10 years (5)		HCP/SH @ 20 years (5)		HCP/SH @ 30 years (5)		HCP/SH @ 40 years (5)		HCP/SH @ 50 years (5)		HCP/SH @ 60 years (5)		HCP/SH @ 70 years (5)		HCP/SH @ 100 years (5)		
	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	
Open (0-10 years)	31,645	4%	32,423	9%	9,592	3%	22,889	6%	20,808	6%	35,884	10%	35,958	10%	38,130	11%	31,175	9%	31,285	9%	
Regeneration (10-20 years)	73,419	21%	74,450	21%	48,117	13%	11,513	3%	24,330	7%	20,835	6%	34,544	10%	36,007	10%	38,524	11%	31,080	9%	
Pole (20-40 years)	96,371	28%	96,767	27%	134,423	37%	122,992	34%	59,630	16%	35,843	10%	44,965	12%	55,179	15%	70,551	20%	61,930	17%	4.3%
Closed (40-70 years)	62,144	18%	62,920	18%	61,138	17%	102,041	28%	159,038	44%	180,938	50%	134,505	37%	83,960	23%	56,477	16%	108,496	30%	7.8%
Complex (at least 70 years)	96,888	28%	92,968	26%	108,375	30%	102,210	28%	97,839	27%	88,345	24%	111,873	31%	148,368	41%	164,918	46%	128,854	36%	9.0%
[150+ years, included in Complex stand stage]	[44,787]	[12%]	[38,811]	[13%]	[43,523]	[12%]	[44,328]	[12%]	[44,874]	[12%]	[44,444]	[12%]	[47,343]	[13%]	[47,737]	[13%]	[48,183]	[13%]	[60,588]	[17%]	[4.2%]
TOTAL AREA [acres]	360,467	99%	369,618	100%	361,845	100%	361,845	99%	361,845	100%	361,845	100%	361,845	100%	361,844	100%	361,845	102%	361,845	101%	25.2%

(1) Future Forest Conditions are identified as age-class designations in the sustainable harvest model. Future Forest Conditions are achieved over time through forest management activities. Forest management activities influence stand structure by integrating policies, issues, resources and uses. Management activities are subject to changes over time.

(2) Stand stages and stand structure objectives for Future Forest Conditions are defined on page IV.180 of the Habitat Conservation Plan, 1996.

(3) Baseline Condition 1997 data source: Geographic Information System, Land Use Land Cover/Forest Resources Inventory System. The sustainable harvest calculation was based on June 1996 inventory data. Differences between data bases may reflect information system updates during 1996.

(4) Present Condition is the age-class inventory, as documented in the Geographic Information System in July 1999. (Data Source: GIS- LULC/FRIS). Land transactions, such as exchanges and sales, can change acreage totals.

(5) HCP/SH information is the forest composition according to the September 1996 Sustainable Harvest calculation, incorporating the Habitat Conservation Plan. (Data Source: GIS- LULC/FRIS)

Note: HCP/SH area figures include all lands included in the 1996 HCP sustainable harvest analysis [i.e., "off-base" as well as "on-base"].

HCP/SH % data is the % of decade's total acres.

Numbers may not add due to rounding.

3/11/00 Murphy

HCP ANNUAL REPORT TO THE SERVICES FY'99
 US Fish and Wildlife Service (USFWS) & National Marine Fisheries Service (NMFS)

OLYMPIC EXPERIMENTAL STATE FOREST

FUTURE FOREST CONDITIONS {1}

Fiscal year ending: June 30, 1999

Decadal Calculations: Sustainable Harvest Analysis of September 1996

Stand Stage {2}	Baseline Condition {3} January 1997		Present Condition {4} June 30, 1999		HCP/SH @ 10 years {5}		HCP/SH @ 20 years {5}		HCP/SH @ 30 years {5}		HCP/SH @ 40 years {5}		HCP/SH @ 50 years {5}		HCP/SH @ 60 years {5}		HCP/SH @ 70 years {5}		HCP/SH @ 100 years {5}	
	OESF area [acres]	% of total OESF area	OESF area [acres]	% of total OESF area	OESF area [acres]	% of total OESF area	OESF area [acres]	% of total OESF area	OESF area [acres]	% of total OESF area	OESF area [acres]	% of total OESF area	OESF area [acres]	% of total OESF area	OESF area [acres]	% of total OESF area	OESF area [acres]	% of total OESF area	OESF area [acres]	% total westside acres in OESF
Open (0-10 years)	18,892	7%	19,456	7%	3,894	1%	9,291	4%	8,477	3%	27,563	10%	28,199	11%	27,364	10%	21,205	8%	20,734	1.5%
Regeneration (10-20 years)	59,602	23%	60,363	23%	32,049	12%	4,111	2%	9,731	4%	7,890	3%	25,336	10%	26,517	10%	25,123	9%	17,654	1.2%
Pole (20-40 years)	86,084	33%	86,336	33%	116,722	44%	95,591	36%	36,160	14%	13,842	5%	17,621	7%	33,226	13%	51,853	20%	37,793	2.6%
Closed (40-70 years)	30,269	12%	29,262	11%	48,853	18%	86,570	33%	138,410	52%	147,169	56%	99,702	38%	45,881	17%	21,732	8%	76,976	5.4%
Complex (at least 70 years)	68,281	25%	67,233	26%	63,666	24%	69,420	26%	72,205	27%	68,521	26%	94,126	36%	131,985	50%	145,071	55%	111,828	7.8%
Fully Functional (200+ years, included in Complex stand stage)	[4,634]	[2%]	[5,163]	[2%]	[41,117] {6}	[16%]	[40,710]	[16%]	[40,924]	[15%]	[40,088]	[15%]	[40,151]	[15%]	[40,168]	[15%]	[41,037]	[15%]	[41,912]	[2.0%]
TOTAL AREA [acres]	263,128	101%	262,650	100%	264,984	99%	264,983	101%	264,983	100%	264,985	100%	264,984	102%	264,983	100%	264,984	100%	264,985	18.5%

{1} Future Forest Conditions are identified as age-class designations in the sustainable harvest model. Future Forest Conditions are achieved over time through forest management activities. Forest management activities influence stand structure by integrating policies, issues, resources and uses. Management activities are subject to changes over time.

{2} Stand stages and stand structure objectives for Future Forest Conditions are defined on page IV.180 of the Habitat Conservation Plan, 1996.

{3} Baseline Condition 1997 data source: Geographic Information System, Land Use Land Cover/Forest Resources Inventory System. The sustainable harvest calculation was based on June 1996 inventory data. Differences between data bases may reflect information system updates during 1996.

{4} Present Condition is the age-class inventory, as documented in the Geographic Information System in July 1999. (Data Source: GIS- LULC/FRIS). Land transactions, such as exchanges and sales, can change acreage totals.

{5} HCP/SH information is the forest composition according to the September 1996 Sustainable Harvest calculation, incorporating the Habitat Conservation Plan. (Data Source: GIS- LULC/FRIS).

{6} Inventory age-class of 190 years was approximately 40,000 acres in 1996.

Note HCP/SH area figures include all lands included in the 1996 HCP sustainable harvest analysis [i.e., "off-base" as well as "on-base"].

HCP/SH % data is the % of decade's total acres.

Numbers may not add due to rounding.

3/11/00 Murphy

HCP ANNUAL REPORT TO THE SERVICES FY'99
 US Fish and Wildlife Service & National Marine Fisheries Service

SOUTH PUGET SOUND REGION

FUTURE FOREST CONDITIONS {1}

	region area [acres]		% of total region area		region area [acres]		% of total region area		region area [acres]		% of total region area		region area [acres]		% of total region area		region area [acres]		% of total region area		100 years: % of total westside stand stage acres in S. Puget Sd. Region
	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area			
Open (0-10 years)	10,754	6%	10,770	6%	18,765	11%	19,388	11%	19,191	11%	16,201	9%	14,923	9%	14,073	8%	21,129	12%	17,655	10%	1.2%
Regeneration (10-20 years)	15,487	9%	15,204	8%	14,729	9%	21,527	13%	21,653	13%	21,933	13%	18,447	11%	17,803	10%	15,729	9%	16,999	10%	1.2%
Pole (20-40 years)	26,471	15%	28,948	15%	28,896	17%	30,638	18%	36,258	21%	43,180	25%	43,586	26%	40,380	24%	36,250	21%	42,764	25%	3.0%
Closed (40-70 years)	92,811	51%	93,054	52%	71,162	42%	41,494	24%	42,313	25%	43,624	30%	50,847	30%	56,791	33%	55,963	33%	51,759	30%	3.8%
Complex (at least 70 years)	34,772	19%	34,161	19%	37,009	22%	57,515	34%	51,144	30%	45,619	25%	42,754	25%	41,511	24%	41,489	24%	41,384	24%	2.9%
Fully Functional (150+ years, included in Complex stand stage)	[3,745]	[2%]	[3,719]	[2%]	[5,062]	[3%]	[5,483]	[3%]	[5,599]	[3%]	[6,093]	[4%]	[6,421]	[4%]	[8,137]	[5%]	[9,417]	[6%]	[23,615]	[14%]	[1.7%]
TOTAL AREA [acres]	180,295	100%	180,135	100%	170,561	101%	170,560	100%	170,557	100%	170,557	102%	170,557	101%	170,558	99%	170,560	99%	170,561	99%	11.9%

{1} Future Forest Conditions are identified as age-class designations in the sustainable harvest model. Future Forest Conditions are achieved over time through forest management activities. Forest management activities influence stand structure by integrating policies, issues, resources and uses. Management activities are subject to changes over time.

{2} Stand stages and stand structure objectives for Future Forest Conditions are defined on page IV.180 of the Habitat Conservation Plan, 1996.

{3} Baseline Condition 1997 data source: Geographic Information System, Land Use Land Cover/Forest Resources Inventory System. The sustainable harvest calculation was based on June 1996 inventory data. Differences between data bases may reflect information system updates during 1996.

{4} Present Condition is the age-class inventory, as documented in the Geographic Information System in July 1999. (Data Source: GIS- LULC/FRIS). Land transactions, such as exchanges and sales, can change acreage totals. Land transactions during 1996 added acreage to SPS region in the Middle Fork Snoqualmie block, Enumclaw block, and to the King County trust.

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Washington State Department of Natural Resources
HCP ANNUAL REPORT TO THE SERVICES FY'99
 US Fish and Wildlife Service & National Marine Fisheries Service

SOUTHWEST REGION

FUTURE FOREST CONDITIONS (1)

Fiscal year ending: June 30, 1999

Decadal Calculations: Sustainable Harvest Analysis of :

Stand Stage (2)	Baseline Condition January 1997 (3)		Present Condition (4) June 30, 1999		HCP/SHG 10 years (5)																	
	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area	region area [acres]	% of total region area
Open (0-10 years)	12,686	5%	14,968	6%	21,098	9%	26,389	11%	25,659	10%	22,173	9%	20,503	8%	20,314	8%	22,664	9%	21,281	9%		1.5%
Regeneration (10-20 years)	24,808	10%	24,171	10%	18,533	8%	22,755	9%	27,300	11%	27,101	11%	24,701	10%	22,697	9%	23,785	10%	23,435	10%		1.6%
Pole (20-40 years)	48,982	20%	52,334	21%	52,385	21%	44,433	18%	41,289	17%	50,055	20%	54,401	22%	51,802	21%	47,398	19%	51,355	21%		3.0%
Closed (40-70 years)	106,835	44%	106,047	43%	102,281	42%	90,478	37%	73,297	30%	70,919	29%	66,787	27%	68,413	28%	74,537	30%	69,060	28%		4.8%
Complex (at least 70 years)	49,342	20%	47,834	20%	51,118	21%	81,361	25%	77,871	32%	75,168	31%	79,022	32%	82,189	33%	77,032	31%	80,284	33%		5.8%
Fully Functional 150+ years, included in Complex stand stage	[4,754]	[2%]	[4,667]	[2%]	[7,901]	[3%]	[7,804]	[3%]	[7,872]	[3%]	[8,633]	[4%]	[9,805]	[4%]	[10,967]	[4%]	[17,083]	[7%]	[37,476]	[15%]		[2.9%]
TOTAL AREA [acres]	244,853	99%	244,354	100%	245,415	101%	245,416	100%	245,416	100%	245,416	100%	245,416	99%	245,415	99%	245,416	99%	245,415	101.0%		17.1%

(1) Future Forest Conditions are identified as age-class designations in the sustainable harvest model. Future Forest Conditions are achieved over time through forest management activities. Forest management activities influence stand structure by integrating policies, issues, resources and uses. Management activities are subject to changes over time.

(2) Stand stages and stand structure objectives for Future Forest Conditions are defined on page IV.180 of the Habitat Conservation Plan, 1996.

(3) Baseline Condition 1997 data source: Geographic Information System, Land Use Land Cover/Forest Resources Inventory System. The sustainable harvest calculation was based on June 1996 inventory data. Differences between data bases may reflect information system updates during 1996.

(4) Present Condition is the age-class inventory, as documented in the Geographic Information System in July 1999. (Data Source: GIS- LULC/FRIS). Land transactions, such as exchanges and sales, can change acreage totals.

