

Table of Contents

Front Material

Acronyms and Abbreviations.....	i
Acknowledgments.....	iv

Map Section

Elliott State Forest Vicinity Map	
Elliott State Forest Ownership	
Some of Coos County's Major Forest Fires	
Elliott State Forest Management Basins	
Elliott State Forest Conservation Areas	

Chapters

Executive Summary

ES.1. Background.....	ES-2
ES.2. Purpose	ES-3
ES.3. The Forest	ES-4
ES.4. Goals.....	ES-5
ES.5. Alternatives Considered.....	ES-6
ES.6. Proposed Approach – Alternative 2	ES-7
ES.7. Implementation.....	ES-9
ES.8. Achievements	ES-10

Chapter 1. Introduction

1.1. Purpose	1-1
1.2. Goals.....	1-2
1.3. Covered Species.....	1-3
1.4. Scope of the Incidental Take Permit	1-5
1.4.1. Permit Period and Area.....	1-5
1.4.2. Type of Take	1-5
1.4.3. Covered Activities	1-6

Table of Contents (continued)

Chapter 2. Legal Context

2.1.	Legal and Policy Mandates for Western Oregon State Forests.....	2-1
2.1.1.	Common School Forest Lands	2-1
2.1.2.	Department of State Lands Asset Management Plan.....	2-1
2.1.3.	Board of Forestry Lands	2-2
2.1.4.	Forest Management Plans	2-2
2.1.5.	Forestry Program for Oregon.....	2-3
2.2.	Regulatory Framework	2-4
2.2.1.	Endangered Species Act	2-4
2.2.2.	National Environmental Policy Act	2-5
2.3.	Federal Plans and Rules	2-7
2.3.1.	Northwest Forest Plan	2-7
2.3.2.	Draft Recovery Plan for the Northern Spotted Owl.....	2-8
2.3.3.	Critical Habitat Rule for the Northern Spotted Owl.....	2-8
2.3.4.	Recovery Plan for the Marbled Murrelet	2-9
2.3.5.	Critical Habitat Rule for the Marbled Murrelet	2-9
2.3.6.	Unlisted Species	2-10
2.3.7	Critical Habitat Rule for Coho Salmon.....	2-10
2.3.8.	Unlisted Species	2-11
2.4.	Other Legal Requirements	2-12
2.4.1.	State Endangered Species Act.....	2-12
2.4.2.	Oregon Forest Practices Act	2-12
2.4.3.	Oregon Plan for Salmon and Watersheds	2-12

Chapter 3. Regional Conservation Context

3.1.	Forest Lands in the South Oregon Coast Region.....	3-2
3.1.1.	Federal Lands	3-2
3.1.2.	Private Forest Lands	3-4
3.1.3.	State Forest Lands	3-4
3.2.	Elliott State Forest Overview.....	3-6
3.2.1.	History	3-6
3.2.2.	Administrative Areas	3-7
3.2.3.	Watersheds and Management Basins.....	3-7
3.2.4.	Current Forest Condition	3-8

Chapter 4. Biological Data for Covered Species

4.1.	Northern Spotted Owl.....	4-3
4.1.1.	Species Ecology and Literature Review	4-3
4.1.2.	Habitat Requirements	4-4
4.1.3.	Management Status in Western Oregon	4-5
4.1.4.	Current Status in the Elliott State Forest	4-6

Table of Contents (continued)

4.2.	Marbled Murrelet	4-8
4.2.1.	Species Ecology and Literature Review	4-8
4.2.2.	Habitat Requirements	4-9
4.2.3.	Management Status in Western Oregon	4-12
4.2.4.	Current Status in the Elliott State Forest	4-13
4.3.	Bald Eagle	4-15
4.3.1.	Species Ecology and Literature Review	4-15
4.3.2.	Habitat Requirements	4-16
4.3.3.	Management Status in Western Oregon	4-17
4.3.4.	Current Status in the Elliott State Forest	4-18
4.4.	Northern Goshawk	4-20
4.4.1.	Species Ecology and Literature Review	4-20
4.4.2.	Habitat Requirements	4-20
4.4.3.	Management Status in Western Oregon	4-21
4.4.4.	Current Status in the Elliott State Forest	4-21
4.5.	Olive-sided Flycatcher	4-22
4.5.1.	Species Ecology and Literature Review	4-22
4.5.2.	Habitat Requirements	4-22
4.5.3.	Management Status in Western Oregon	4-23
4.5.4.	Current Status in the Elliott State Forest	4-23
4.6.	Western Bluebird	4-24
4.6.1.	Species Ecology and Literature Review	4-24
4.6.2.	Habitat Requirements	4-24
4.6.3.	Management Status in Western Oregon	4-24
4.6.4.	Current Status in the Elliott State Forest	4-25
4.7.	Fisher	4-26
4.7.1.	Species Ecology and Literature Review	4-26
4.7.2.	Habitat Requirements	4-26
4.7.3.	Management Status in Western Oregon	4-27
4.7.4.	Current Status in the Elliott State Forest	4-27
4.8.	Red-legged Frog	4-28
4.8.1.	Species Ecology and Literature Review	4-28
4.8.2.	Habitat Requirements	4-28
4.8.3.	Management Status in Western Oregon	4-28
4.8.4.	Current Status in the Elliott State Forest	4-29
4.9.	Headwater Amphibian Species	4-30

Table of Contents (continued)

4.10.	Tailed Frog.....	4-31
4.10.1.	Species Ecology and Literature Review	4-31
4.10.2.	Habitat Requirements	4-31
4.10.3.	Management Status in Western Oregon	4-32
4.10.4.	Current Status in the Elliott State Forest	4-32
4.11.	Southern Torrent Salamander	4-33
4.11.1.	Species Ecology and Literature Review	4-33
4.11.2.	Habitat Requirements	4-33
4.11.3.	Management Status in Western Oregon	4-34
4.11.4.	Current Status in the Elliott State Forest	4-35
4.12.	Fish Species.....	4-36
4.13.	Coho Salmon (<i>Oncorhynchus kisutch</i>).....	4-38
4.13.1.	Species Ecology and Literature Review	4-38
4.13.2.	Management Status in Western Oregon	4-38
4.13.3.	Status in Elliott State Forest Lands	4-39
4.14.	Chinook Salmon (<i>Oncorhynchus tshawytscha</i>).....	4-40
4.14.1.	Species Ecology and Literature Review	4-40
4.14.2.	Management Status in Western Oregon	4-40
4.14.3.	Status in Elliott State Forest Lands	4-41
4.15.	Chum Salmon (<i>Oncorhynchus keta</i>).....	4-42
4.15.1.	Species Ecology and Literature Review	4-42
4.15.2.	Management Status in Western Oregon	4-42
4.15.3.	Status in Elliott State Forest Lands	4-42
4.16.	Steelhead Trout (<i>Oncorhynchus mykiss spp</i>).....	4-43
4.16.1.	Species Ecology and Literature Review	4-43
4.16.2.	Management Status in Western Oregon	4-43
4.16.3.	Status in Elliott State Forest Lands	4-44
4.17.	Coastal Cutthroat Trout (<i>Oncorhynchus clarki clarki</i>).....	4-45
4.17.1.	Species Ecology and Literature Review	4-45
4.17.2.	Management Status in Western Oregon	4-46
4.17.3.	Status in Elliott State Forest Lands	4-46
4.18.	Pacific Lamprey (<i>Lampetra tridentata</i>)	4-47
4.18.1.	Species Ecology and Literature Review	4-47
4.18.2.	Management Status in Western Oregon	4-47
4.18.3.	Status in Elliott State Forest Lands	4-47
4.19.	Western Brook Lamprey (<i>Lampetra richardsoni</i>)	4-49
4.19.1.	Species Ecology and Literature Review	4-49
4.19.2.	Management Status in Western Oregon	4-49
4.19.3.	Status in Elliott State Forest Lands	4-49
4.20.	River Lamprey (<i>Lampetra ayresi</i>)	4-50
4.20.1.	Species Ecology and Literature Review	4-50
4.20.2.	Management Status in Western Oregon	4-50
4.20.3.	Status in Elliott State Forest Lands	4-50
4.21.	Habitat Requirements	4-51

Table of Contents (continued)

4.21.1. Aquatic Habitat	4-51
4.21.2. Riparian Vegetation Influences	4-54
4.21.3. Upland Influences	4-55

Chapter 5. Integrated Habitat Conservation Strategies

5.1. Introduction	5-1
5.2. Manage for a Range of Stand Structures Across the Landscape	5-2
5.2.1. Stand Structure Definitions.....	5-2
5.2.2. Desired Future Condition.....	5-6
5.3. Establish Conservation Areas to Protect Special Resources.....	5-10
5.3.1. Types of Conservation Areas	5-10
5.3.2. Stand Structure in Conservation Areas Over Time	5-16
5.3.3. Adaptive Management and Conservation Areas	5-18
5.4. Develop Implementation Plans to Achieve a Landscape Design that Provides Functional Habitat for Native Species	5-19
5.4.1. Maintain Connectivity Between T&E Core Areas and Advanced Structure in each Management Basin	5-19
5.4.2. Apply Other Landscape Design Principles	5-20
5.5. Maintain or Incorporate Habitat Components into the Forest at a Landscape Level	5-22
5.5.1. Structural Component Standards	5-23
5.5.2. Guidelines for Special Circumstances	5-26
5.6. Apply Aquatic and Riparian Strategies.....	5-27
5.6.1. Riparian and Aquatic Ecosystems	5-27
5.6.2. Use Watershed Analysis to Inform Management Decisions.....	5-29
5.6.3. Apply Management Standards for Aquatic and Riparian Areas.....	5-31
5.6.4. Maintain or Improve Aquatic Habitats	5-43
5.6.5. Apply Alternative Vegetation Treatment to Achieve Habitat Objectives in Riparian Areas	5-45
5.6.6. Apply Specific Strategies to Other Aquatic Habitats.....	5-46
5.6.7. Employ Slope Stability Management	5-48
5.6.8. Use Forest Road Management	5-51
5.6.9. Aquatic and Riparian Monitoring	5-53

Table of Contents (continued)

Chapter 6. Northern Spotted Owls

6.1.	Background.....	6-2
6.1.1.	Northern Spotted Owl Recovery Plan	6-2
6.1.2.	Federal Land Commitments to Northern Spotted Owl Conservation	6-2
6.1.3.	Northern Spotted Owl Conservation on Non-Federal Lands.....	6-3
6.1.4.	Northern Spotted Owls on the Elliott State Forest	6-3
6.2.	Conservation Objective.....	6-6
6.3.	Conservation Strategies	6-7
6.4.	Key Indicators	6-8
6.4.1.	Persistence of Northern Spotted Owl Sites.....	6-8
6.4.2.	Contribution of Nesting, Roosting, and Foraging Habitat Across the Forest Through Time.....	6-13
6.4.3.	Maintaining Habitat Connectivity Through Application of Landscape Design Principles	6-17
6.5.	Monitoring	6-20

Chapter 7. Marbled Murrelets

7.1.	Background.....	7-2
7.1.1.	Marbled Murrelet Recovery Plan	7-2
7.1.2.	Federal Land Commitments to Marbled Murrelet Conservation.....	7-3
7.1.3.	Marbled Murrelet Conservation on Non-Federal Lands	7-3
7.1.4.	Marbled Murrelets on the Elliott State Forest.....	7-4
7.2.	Conservation Objective.....	7-6
7.3.	Conservation Strategies	7-7
7.4.	Key Indicators	7-8
7.4.1.	Maintaining Occupied Marbled Murrelet Sites	7-8
7.4.2.	Maintaining Marbled Murrelet Habitat Across the Forest Through Time	7-14
7.5.	Monitoring	7-18
7.5.1.	Assumptions	7-18
7.5.2.	Activities	7-18

Chapter 8. Aquatic and Riparian Habitat: Impacts, Minimization and Mitigating Programs

8.1.	Background.....	8-1
8.1.1.	Federal Land Commitments to Aquatic and Riparian Functions	8-1
8.1.2.	Aquatic and Riparian Function Conservation on Non-Federal Lands	8-1
8.2.	Conservation Objective.....	8-3
8.3.	Conservation Strategies	8-4
8.3.1..	Aquatic and Riparian Conservation Measures	8-4

Table of Contents (continued)

8.4.	Water Quality: Effects, and Minimization and Mitigation Programs.....	8-6
8.4.1.	Stream Temperature	8-6
8.4.2.	Suspended Sediment	8-13
8.4.3.	Dissolved Oxygen.....	8-17
8.5	Habitat: Effects, and Minimization and Mitigation Programs.....	8-19
8.5.1.	Habitat Access.....	8-19
8.5.2.	Substrate Character/Embeddedness.....	8-20
8.5.3.	Large Wood	8-21
8.5.4.	Pool Frequency and Quality	8-26
8.5.5.	Off-Channel Habitat/Refugia.....	8-27
8.5.6.	Stream Bank Condition.....	8-28
8.5.7.	Floodplain Connectivity	8-28
8.6	Flow/Hydrology: Effects, and Minimization and Mitigation Programs.....	8-30
8.6.1	Peak and Base Flows and Increasing Channel Drainage Network	8-30
8.4.	Summary	8-32

Chapter 9. Conservation Strategies for Other Species

9.1.	Background.....	9-2
9.1.1.	Management Status for Other Species.....	9-2
9.1.2.	Other Species on the Elliott State Forest	9-3
9.1.	Conservation Goals	9-4
9.2.	Conservation Strategies	9-5
9.3.	Key Indicators	9-7
9.4.	Potential effects and minimization and mitigation by species.....	9-8
9.4.1.	All Species.....	9-8
9.4.2.	Site Plans.....	9-8
9.4.3.	Bald Eagle	9-9
9.4.4.	Northern Goshawk	9-12
9.4.5.	Olive-sided Flycatcher	9-15
9.4.6.	Western Bluebird	9-18
9.4.7.	Fisher	9-20
9.4.8.	Red-legged Frog	9-24
9.4.9.	Headwater Amphibians	9-25

Chapter 10. Conservation Alternatives Considered

10.1.	Current Management (Alternative 1: No Action)	10-2
10.1.1.	Description of Alternative	10-2
10.1.2.	Why Alternative was Not Selected	10-2
10.2.	Proposed Action Alternative (Alternative 2)	10-4
10.2.1.	Description of Alternative	10-4
10.3.	Increased Stream Buffers (Alternative 3)	10-6
10.3.1.	Description of Alternative	10-6
10.3.2.	Why Alternative was Not Selected	10-6

Table of Contents (continued)

10.4.	Combined Reserves and Intensive Forestry (Alternative 4).....	10-7
10.4.1.	Description of Alternative.....	10-7
10.4.2.	Why Alternative was Not Selected.....	10-7
10.5.	Alternate Buffer Width Evaluations (Alternative 5).....	10-9
10.5.1.	Description of Alternative.....	10-9
10.5.2.	Why Alternative was Not Selected.....	10-9
10.6.	Wood Emphasis (Alternative 6)	10-11
10.6.1.	Description of Alternative.....	10-11
10.6.2.	Why Alternative was Not Selected.....	10-11
10.7.	Conservation Emphasis (Alternative 7)	10-12
10.7.1.	Description of Alternative.....	10-12
10.7.2.	Why Alternative was Not Selected.....	10-12

Chapter 11. Plan Implementation

11.1.	Implementing Agreement.....	11-1
11.1.1.	Plan Duration	11-1
11.1.2.	Unforeseen Circumstances.....	11-1
11.1.3.	Changed Circumstances	11-2
11.1.4.	Amendments and Flexibility	11-7
11.1.5.	Funding	11-7
11.1.6.	Land Transactions	11-7
11.1.7.	Transition Activities.....	11-8
11.1.8.	Reporting	11-8
11.2.	ODF Implementation	11-9
11.2.1.	Roles and Responsibilities.....	11-9
11.2.2.	Implementation Levels	11-9
11.3.	Adaptive Management	11-12
11.3.1.	Effecting Change through Adaptive Management.....	11-12
11.3.2.	Evaluation of Technical Information	11-13
11.3.3.	Research and Monitoring	11-17

Table of Contents (continued)

Appendices

- A. Glossary
- B. References
- C. Forest Condition
- D. Desired Future of Conditions for Elliott Watersheds
- E. Habitat Conservation Plan Requirements and Guidelines
- F. Final Report: Northern Spotted Owl Surveys, Elliott State Forest 2003
- G. Marbled Murrelet Management Areas on the Elliott State Forest 2006
- H. Report: Marbled Murrelet Habitat Mapping and Validation
- I. Elliott State Forest Harvest Modeling
- J. Annual HCP Stand Structure Reporting Process Using Oregon Department of Forestry's Stand Level Inventory
- K. Implementing Agreement
- L. Team Members

Table of Contents (continued)

Figures

5-1	Distribution of T&E Cores and SUVs on the Elliott State Forest	5-11
5-2	Acres in Three Structure Types within Conservation Areas at Plan Initiation and as Projected by Modeling at 50 Years	5-17
7-1	Expected Harvest of Murrelet Habitat (acres) and Potential Harvest Based on Projected Ingrowth by Decade.....	7-16
8-1	Estimated Miles of Stream by Region and for the Elliott State Forest.....	8-7
8-2	Estimated Acres of Riparian Management Area by Region and for the Elliott State Forest.....	8-8
8-3	Conceptual Model of Relationships Between Forest Management and Aquatic and Riparian Habitat	8-38
9-1	Structure Types by Decade	9-30
9-2	Inventory of Advanced Structure Within and Outside Conservation Areas	9-31
C-1	Current Stand Structure, by Acres and Percent	C-19
C-2	Stand Age Distribution, by Acres and Percent.....	C-20
C-3	Monthly Flows for the West Fork Millicoma River	C-32
C-4	Relationship Between Peak Flow and Recurrence Interval for the West Fork Millicoma River.....	C-32
H-1	Mapped Marbled Murrelet Habitat on the Elliott State Forest and Stands at Least 100 Years Old.....	H-3
H-2	Location of 50 Survey Grids and Occupied Stands Before and After Grid Surveys	H-6
H-3	Location of 159 Vegetation Sampling Plots by Type.....	H-9

Table of Contents (continued)

Tables

1-1	Species Covered by the HCP	1-3
3-1	Acres of Land Ownership by Ecoregion.....	3-3
3-2	Acres of Land Covered in the HCP in South Oregon Coast Counties Managed by the Department of Forestry	3-5
3-3	Site Class Acres.....	3-8
3-4	Stand Structure – Current Forest Condition.....	3-9
4-1	Species Covered by the Habitat Conservation Plan.....	4-2
4-2	Number of Northern Spotted Owls and Owl Activity Centers Observed, and the Crude Density of Northern Spotted Owls and Activity Centers, Elliott State Forest (378 square kilometers), 1993–1998, 2003	4-7
4-3	Marbled Murrelet Habitat Characteristics (mean) at the Limb, Tree, and Plot Level for 11 nests in the Elliott State Forest, 1995–1999	4-11
4-4	Listed, Proposed, or Sensitive Fish Species on Elliott State Forest Lands.....	4-37
4-5	West Fork Millicoma Standard Chinook Survey (0.5-mile reach)	4-41
4-6	2003 Steelhead Redd Density	4-44
4-7	2004 Steelhead Redd Density	4-44
4-8	2003 Lamprey Redd Density.....	4-48
4-9	2004 Lamprey Redd Density.....	4-48
5-1	Target Stand Structures to be Maintained Within Individual Basins on the Elliott State Forest over the Term of the Habitat Conservation Plan	5-9
5-2	T&E Core Areas—Acres and Presence of Northern Spotted Owl and Marbled Murrelet Sites	5-13
5-3	Acres in the Three Types of Conservation Areas, and Overlap Among Conservation Area Types.....	5-15
5-4	Estimated Stream Miles by Watershed and for the Entire Forest for Fish-Bearing and Non-Fish-Bearing Streams.....	5-28
5-5	Management Standards for Type F Stream Riparian Management Areas	5-35
5-6	Management Standards for Type N Stream RMAs.....	5-36
5-7	Estimated Acres of Riparian Area by Stream Type.....	5-40
5-8	Management Prescriptions for Lakes, Ponds, and Wetlands	5-47
5-9	Management Prescriptions for Bogs, Seeps, and Springs.....	5-48
6-1	Selected Structural Characteristics of Northern Spotted Owl Nesting Sites on the Elliott State Forest as determined through Research and Inventory Plots.....	6-5
6-2	Northern Spotted Owl Activity Centers and T&E Core Areas.....	6-9
6-3	Advanced Structure in T&E Core and SUV Areas and Outside Conservation Areas	6-13

Table of Contents (continued)

6-4	Northern Spotted Owl Habitat on the ESF at Initiation of HCP – Acres Within Conservation Areas, by Type, and Outside of Conservation Areas	6-14
6-5	Projected Effects of the Plan on Acres of Advanced Structure According to Harvest Model.....	6-15
7-1	Selected Structural Characteristics of Marbled Murrelet Nesting Sites on the Elliott State Forest as Determined through Research and Inventory Plots	7-5
7-2	Marbled Murrelet Occupied Sites Located in T&E Core Areas	7-9
7-3	Mapped Marbled Murrelet Habitat by Basin Amount and Percentage of Mapped Habitat in Different Types of Conservation Areas.....	7-11
8-1	Percent of Riparian Areas with Mature Forest Conditions for Fish-Bearing Streams, by Region	8-9
8-2	Forest Structure: Estimated Percent of Riparian Areas in Stand Structure Types by Watershed for Fish-Bearing and Non-Fish-Bearing Streams, Inner Zone (Within 100 Feet and 25 Feet of Fish-Bearing and Small Non-Fish-Bearing Streams)	8-11
8-3	Forest Structure: Estimated Percent of Riparian Areas in Stand Structure Types by Watershed for Fish-Bearing and Non-Fish-Bearing Streams, in the Outer Zone (100 to 160 Feet from Stream)	8-12
8-4	Potential Acres of Small Type N Stream that could be Managed under the Aquatic and Riparian Strategies	8-24
8-5	Aquatic Indicators, Potential Effect to Indicators from Forest Management, and Rationale for Findings	8-33
9-1	Other Species Covered by the Habitat Conservation Plan.....	9-1
9-2	Assumptions for Potential Habitat by Species	9-29
9-3	Current Condition.....	9-30
11-1	Effecting Change	11-14
11-2	Monitoring and Surveying Matrix	11-27
C-1	Coos District Acres, ¹ by County and Ownership	C-2
C-2	Coos District Road System.....	C-15
C-3	Comparison between Landscape Patch Types and Stand Types.....	C-21
C-4	Elliott State Forest Roads Located by Landscape Position	C-31
D-1	Summary of Proposed Metrics, Data Sources, and Proposed Ranges of Conditions for Riparian and Aquatic Resources	D-2
D-2	Data Sources for Describing Aquatic and Riparian Reference Conditions	D-6
D-3	Sample Size by Forest Type for the Elliott, ODFW AIP, and FIA Data Sources....	D-9
D-4	Summary of Results from Analysis of Three Data Sets Used to Characterize Desired Future Conditions of Riparian Areas Within 100 feet of Large Type F and Large and Medium Type N Streams.....	D-10

Table of Contents (continued)

D-5	Regression Results as a Function of Distance from the Divide with 100% Shade Levels	D-16
F-1	Number of Northern Spotted Owls and Northern Spotted Owl Activity Centers Observed, and the Crude Density of Northern Spotted Owls and Activity Centers, Elliott State Forest (378 square kilometers), 1991–1998, 2003	F-7
F-2	Number of Northern Spotted Owl Pairs, Pair Status Unknowns, Resident Singles, Total Activity Centers (used for density estimates), Status Unknowns, and Non-Territorial Singles Found on or Adjacent to the Elliott State Forest During 2003 Surveys	F-24
F-3	Total Number of Northern Spotted Owl Pair Sites, Pair Status Unknown Sites, Resident Single Sites, Status Unknown Sites, Non-Territorial Single Sites, and Historic Sites on or Adjacent to the Elliott State Forest, 2003	F-24
F-4	Site Name, Status, and Occupancy for Northern Spotted Owl Sites in the Elliott State Forest, 2003	F-25
G-1	Marbled Murrelet Occupied Sites, Marbled Murrelet Management Areas, and HCP T&E Core Areas	G-19
H-1	Occupied Plots, Method Used for Plot Selection, and Information Used to Establish Plot Location	H-10
H-2	Ranking of Timber Sale Survey Areas According to Quality of Information on Marbled Murrelet Behavior in the Area, Used to Select Occupied Stands in Method 3	H-12
H-3	Variables Measured in ½-Acre Plots	H-14
H-4	Spearman Rank Correlations	H-16
H-5	Characteristics of Variables Measured in Mapped, Unmapped, and Occupied Plots [Mean, (Standard Error), Range]	H-18
I-1	Model 9 Basin Targets for Advanced 1 Structure Acres	I-32
I-2	April 2006 Yield Table Pond Values (dollars/MBF)	I-33
I-3	Species Composition for Yield Table Plantations - Fall 2004	I-34
I-4	Natural Regeneration Assumed 15 years after First Thinning by SDI or Age	I-35
I-5	Volume and Value Deleted from Regeneration Harvest Stand for Live Tree Retention	I-37
I-6	Trees Added to Plantations to Represent Live Trees Retained from the Previous Stand	I-37
J-1	Reporting Format for Coos District State Forest Program's Annual Updating Process	J-7

Table of Contents (continued)
