

Table of Contents

	<u>Page</u>
Introduction	intro-1
Chapter 1 – Characterization	1-1
Chapter 2 – Issues and Key Questions	2-1
Chapter 3 – Current Conditions	3-1
Hillslope Processes	3-1
Riparian and Stream Areas	3-6
Aquatic Dependent Species	3-10
Forest Health and Fire Disturbance Risk and Hazard	3-14
Late Successional Habitat	3-23
Terrestrial Wildlife and Plants	3-29
Roads	3-46
Human Uses	3-49
Chapter 4 – Reference Conditions	4-1
Historic Overview	4-1
Hillslope Processes	4-3
Riparian and Stream Areas	4-5
Aquatic Dependent Species	4-6
Forest Health and Fire Disturbance Risk and Hazard	4-7
Late Successional Habitat	4-12
Terrestrial Wildlife and Plants	4-13
Roads	4-20
Human Uses	4-21
Chapter 5– Interpretation	5-1
Planning Direction	5-1
Hillslope Processes	5-3
Riparian and Stream Areas	5-10
Aquatic Dependent Species	5-16
Forest Health and Fire Disturbance Risk and Hazard	5-19
Late Successional Habitat	5-28
Terrestrial Wildlife and Plants	5-32
Roads	5-47
Human Uses	5-49
Chapter 6 - Recommendations	6-1
Table Column Definitions	6-1
Hillslope Processes	6-3
Riparian and Stream Areas	6-4
Aquatic Dependent Species	6-5
Forest Health and Fire Disturbance Risk and Hazard	6-6
Late Successional Habitat	6-8
Terrestrial Wildlife and Plants	6-9
Roads	6-12
Human Uses	6-13

Appendices

A – Forest Plan Feedback	A-1
B – Cumulative Watershed Effects	B-1
C – Aquatic Habitat	C-1
D – Fire and Fuels	D-1
E – Road Analysis Process	E-1
F – Short-Term Timber Program Analysis	F-1

Literature Cited**LC-1****Figure Number and Title****Page**

0-1	Watershed Vicinity Map	intro-3
0-2	Completed Ecosystem Analyses/Watershed Boundaries	intro-4
1-1	Horse Creek Watershed Analysis Base Map	Map Packet
1-2	Forest Plan Management Areas	Map Packet
3-1	Simplified Lithology	Map Packet
3-2	Subwatersheds and Forest Plan Areas with Watershed Concerns	Map Packet
3-3	Riparian Reserve by Component	Map Packet
3-4	Anadromous/Resident Fish Range	Map Packet
3-5	Timber Mortality	Map Packet
3-6	Vegetation Communities	Map Packet
3-7	Fuel Models	Map Packet
3-8	Fire Behavior Potential	Map Packet
3-9	Seral Stages	Map Packet
3-10	Road Density	Map Packet
3-11	Wildlife Features	Map Packet
3-12	Transportation System	Map Packet
3-13	Existing Visual Condition	Map Packet
4-1	Percentage of Fires by Size Class	4-8
4-2	Historic Large Fires	Map Packet
4-3	Historic Logging By Decade	Map Packet
5-1	Impaired Watersheds	Map Packet
5-2	Visual Quality Objectives	Map Packet
5-3	Short-Term Timber Program Analysis	Map Packet
6-1	Hillslope, Riparian, Stream & Aquatic-Dependent Species Opportunities	Map Packet
6-2	Forest Health and Fire Opportunities (1 of 2)	Map Packet
6-3	Forest Health and Fire Opportunities (2 of 2)	Map Packet
6-4	Late-Successional Habitat Opportunities	Map Packet
6-5	Terrestrial Wildlife Opportunities	Map Packet
6-6	Road Management Opportunities	Map Packet
6-7	Human Uses Opportunities (1 of 2)	Map Packet
6-8	Human Uses Opportunities (2 of 2)	Map Packet

Table Number and Title	Page
1-1 Management Areas and Proportion of Analysis Area (%WA) and National Forest (%NF)	1-1
3-1 Precipitation and Temperature Data	3-1
3-2 Stream Density Data	3-2
3-3 Acres of Geomorphic Terrane Type	3-3
3-4 Miles of Scoured Channel	3-4
3-5 Equivalent Road Acre (ERA) Impacts	3-5
3-6 Universal Soil Loss Equation (USLE) Index Scores	3-6
3-7 Mass Wasting Index Scores	3-6
3-8 Combined Index Scores	3-6
3-9 Stream Channel Habitat Parameters	3-7
3-10 Stream Habitat Parameters	3-8
3-11 Managed Stream Wood Frequency	3-8
3-12 Beneficial Use Conditions	3-9
3-13 Riparian Reserves (RR) with ROD Buffers	3-10
3-14 Geologic Component of Riparian Reserve Land Allocation	3-10
3-15 Fish Species Distribution in the Horse Creek Watershed Analysis Area	3-11
3-16 Information Regarding Fish Bearing Streams in the Horse Creek Analysis Area	3-12
3-17 Chinook Spawning Survey Data for Horse Creek (11/04/98)	3-12
3-18 Steelhead Spawning Survey Data for Horse Creek Watershed (2002)	3-13
3-19 Anadromous Adult Fish Species	3-13
3-20 Acreage of Mortality by Existing Vegetation	3-15
3-21 Percentage of Existing Vegetation Community Identified as Having Some Mortality	3-15
3-22 Acreage of Mortality by Management Area	3-15
3-23 Horse Creek Vegetation Communities	3-16
3-24 Fires by Size Class	3-21
3-25 Acreage by Fire Behavior Potential	3-22
3-26 Fire Behavior Potential Acreage by Vegetation Community	3-22
3-27 Late-Successional Habitat by Management Area	3-24
3-28 Dispersal Habitat Between LSRs and Wilderness Within the Horse Creek Analysis Area	3-27
3-29 Suitable Spotted Owl Habitat by Management Area	3-31
3-30 Acres of Suitable Spotted Owl Habitat and Management Areas for Owl Activity Centers	3-31
3-31 Goshawk Survey History for the Horse Creek Watershed	3-33
3-32 Plant Species of Concern in the Horse Creek Analysis Area	3-42
3-33 Road Maintenance Level Mileage	3-47
3-34 Travel Access Management Mileage	3-47
3-35 Road Mileage and Road Density Acreage by Land Allocation	3-48
3-36 Visual Sensitivity of Select Travel Routes, Roads, Trails, or Rivers	3-50
3-37 Acreage and Percentage by Existing Visual Condition Levels	3-50
3-38 Roads of Public Interest	3-51
3-39 Summary of Public Meeting Comments – Horse Creek WA Meeting 2/27/01	3-51
3-40 Existing Acres of Matrix Lands by Management Area	3-52
3-41 Acreage of Vegetation Types for Matrix Lands by Management Area	3-52
4-1 Fire Starts Horse Creek 1922-2000	4-8
4-2 Acres of Plantations by Decade	4-21
5-1 Forest Plan Management Area Acreage	5-1
5-2 Special Interest Area (SIA) Acreage and Feature	5-2
5-3 Road Miles	5-3
5-4 Fires Starts	5-3
5-5 Acres of Timber Harvest on Public Land	5-4
5-6 Universal Soil Loss Equation (USLE) Index Scores	5-4
5-7 Mass Wasting Index Scores	5-5
5-8 Channels With Multiple Crossings	5-5
5-9 Impaired Watersheds	5-7
5-10 Definitions of Aquatic Rating Criteria for Roads Analysis	5-9
5-11 Reference Habitat Parameters	5-11

Table Number and Title (continued)	Page
5-12 Matrix of Factors and Indicators	5-13
5-13 Scott River District Reference Habitat Parameters	5-14
5-14 Reference Coarse Woody Material	5-14
5-15 Fire/ Fuels Road Rating Criteria	5-26
5-16 Burn Intensity by Elevational Range (Percent of Total Area Burned)	5-28
5-17 Burn Intensity by Aspect (Percent of Total Area Burned)	5-28
5-18 Terrestrial Wildlife Road Rating Criteria For The Horse Creek Analysis Area	5-31
5-19 Road Maintenance Budget Levels 1987-2000	5-47
5-20 Human Access Need - Definitions For Rating Roads in Roads Analysis	5-49
5-21 Visual Quality Objectives for the Analysis Area	5-50
5-22 Summary of Road Opportunities Identified	5-51
5-23 Forest Plan and Ecosystem Analysis Comparison of Lands Available for Scheduled Timber Harvest (Matrix)	5-53
5-24 Percent Old Growth in 5 th Field Watersheds	5-54
5-25 Existing and Desired Seral Stage Percentages for Available Lands for the Horse Creek Watershed	5-54
6-1 ISSUE - Hillslope Processes	6-3
6-2 ISSUE - Riparian and Stream Areas	6-4
6-3 ISSUE - Aquatic Dependent Species	6-5
6-4 ISSUE – Forest Health and Fire Disturbance Risk and Hazard	6-6
6-5 ISSUE - Late-Successional Habitat	6-8
6-6 ISSUE - Terrestrial Wildlife and Plants	6-9
6-7 ISSUE - Roads	6-12
6-8 ISSUE - Human Uses	6-13