

TABLE OF CONTENTS

	Page
 CHAPTER 1 - PURPOSE AND NEED FOR ACTION	
Introduction	1-1
Background	1-1
Purposes and Needs for Action	1-1
Current Conditions	1-2
Forest Plan Direction and Desired Condition	1-2
Proposed Action	1-4
Scope of the Project Action, Analysis and Decisions Framework	1-5
 CHAPTER 2 - ALTERNATIVES	
Introduction	2-1
Public Involvement	2-1
Issues	2-1
Alternative Development Process	2-2
Alternatives Considered in Detail	2-2
Alternative 1	2-3
Alternative 2 (Proposed Action)	2-3
Alternative 3	2-11
Management Requirements and Mitigation Measures	2-14
Monitoring	2-17
Alternatives Considered But Not Given Detailed Study	2-17
Comparison of Alternatives	2-18
 CHAPTER 3 - AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES	
Introduction	3-1
Soils	3-1
Watershed/Wetlands	3-16
Fisheries	3-33
Vegetation	3-49
Threatened, Endangered, and Sensitive Plants and Noxious Plants	3-65
Heritage	3-73
Visual Quality	3-75
Recreation	3-77
Economic	3-80
Fire and Fuels/ Air Quality	3-81
Wildlife	3-86
 TABLES	
2-1 – Alternative 2 – Timber Harvest Activities	2-7
2-2 – Alternatives 2 & 3 – Watershed Improvement Road Work	2-8
2-3 – Alternative 3 – Timber Harvest Activities	2-12
2-4 – Management Requirements and Mitigation Measures	2-14
2-5 – Alternatives Comparison	2-18
 3-1 – Detrimental Soil Conditions in the Lyman Planning Area	 3-5

3-2 – Alternative 2 – Soil Effects Summary	3-13
3-3 – Alternatives – Soil Effects Summary	3-15
3-4 – Road and Crossing Densities	3-18
3-5 – Acres Burned During Fires of 2000	3-19
3-6 – Sediment Yield Estimates (Land and Water, 2001)	3-19
3-7 – Percent Cover Reduction by Yarding System	3-21
3-8 – WEPP Estimate of Sediment Contributed to Stream Channels from Proposed Unit Areas	3-24
3-9 – 303(d) Listing Status	3-30
3-10 – Summary Documentation for Ground-Disturbing Projects in 303(d) Listed Watersheds	3-31
3-11 – Existing Condition of the INFISH RMOs in Cameron Creek, Guide Creek, and the North Fork of Lyman Creek	3-39
3-12 – BAER Fire Severity	3-52
3-13 – Vegetation Response Units	3-53
3-14 – Unit VRU/Fire Intensity	3-55
3-15 – Douglas-fir Beetle Hazard Rating	3-56
3-16 – Unit Douglas-fir Beetle Hazard Rating	3-57
3-17 – Stand Grouping Characteristics	3-60
3-18 – Cumulative Effects Summary for Forested Resource	3-64
3-19 – Sensitive Plant Species that have Potential to Occur in the Project Area	3-66
3-20 – Biological Agents Released for Spotted Knapweed	3-67
3-21 – Sensitive Plants and Noxious Weeds	3-69
3-22 – Alternatives 2 and 3 – Watershed Improvement Road Work and Resulting Motorized Access	3-79
3-23 – Motorized Access After Project Completion	3-80
3-24 – Economics Summary for Timber Harvest and Slash/Fuels Activities	3-81
3-25 – Cost Comparison of Fuels Treatments by Alternative	3-84
3-26 – Particulate Matter (PM 10) Generated by Alternative	3-85
3-27 – Threatened, Endangered, Sensitive and Management Indicator Species of the Bitterroot National Forest	3-88
3-28 – Elk Habitat Proportions (percent)	3-90
3-29 – Road Density by Third-Order Drainage	3-91
3-30 – Wildlife Species that were not Carried Forward Into the Effects Analysis	3-92

MAPS

I-1 – Project Location and Vicinity	1-6
I-2 – Forest Plan Management Areas	1-7
II-1 – Alternative 2 – Treatments	2-9
II-2 – Alternatives 2 & 3 – Road Work & Watershed Improvements	2-10
II-3 – Alternative 3 – Treatments	2-13
III-1 – Burn Severity	3-4
III-2 – Lyman Vegetation Analysis Area	3-52

FIGURES

2-1 – Untreated Area	2-5
2-2 – Area Treated Using the Salvage/Regeneration Harvest Prescription	2-5
3-1 – Cameron Creek	3-34
3-2 – East Fork of the Bitterroot River	3-36
3-3 – Example of VRU2 with High and Moderate Severity Fire Effects (stand replacing)	3-53
3-4 – Regeneration Harvest by Decade	3-57
3-5 – Regeneration Harvests Burned 2000 BAER Fire Severity	3-58
3-6 – Unit 4	3-61

APPENDICES

- A – Best Management Practices
- B – Monitoring Plan
- C – Literature Cited
- D – Glossary
- E – List of Preparers
- F – Wildlife Biological Evaluation