
TABLE OF CONTENTS – VOLUME II

Section	Page
4. ENVIRONMENTAL CONSEQUENCES.....	4-1
4.1 Introduction	4-1
4.1.1 Analytical Assumptions	4-1
4.1.2 Types of Effects (Direct, Indirect, and Cumulative).....	4-3
4.1.3 Projects that Contribute to the Cumulative Impact Scenario.....	4-3
4.1.4 Incomplete or Unavailable Information.....	4-8
4.2 Resources.....	4-9
4.2.1 Air Quality	4-9
4.2.2 Cultural Resources.....	4-21
4.2.3 Soils	4-39
4.2.4 Paleontological Resources	4-63
4.2.5 Vegetation	4-69
4.2.6 Fish and Wildlife.....	4-143
4.2.7 Special Status Species.....	4-176
4.2.8 Visual Resources.....	4-238
4.2.9 Water Resources.....	4-243
4.2.10 Wildland Fire Management	4-256
4.3 Resource Uses	4-274
4.3.1 Forestry	4-274
4.3.2 Lands and Realty	4-286
4.3.3 Livestock Grazing.....	4-304
4.3.4 Minerals and Energy	4-327
4.3.5 Recreation	4-377
4.4 Special Designations	4-391
4.4.1 Administrative Designations.....	4-391
4.5 Socioeconomics and Environmental Justice.....	4-405
4.5.1 Socioeconomics and Environmental Justice.....	4-405
4.6 Unavoidable Adverse Impacts	4-421
4.7 Irreversible and Irrecoverable Commitment of Resources.....	4-422
4.8 Relationship of Short-term Uses of the Environment to Long-term Productivity.....	4-423
5. CONSULTATION AND COORDINATION	5-1
5.1 Introduction	5-1
5.2 Public Collaboration and Outreach	5-1
5.2.1 Scoping Process	5-1
5.2.2 Project Web Site.....	5-3
5.2.3 Newsletters.....	5-3
5.3 Consultation and Coordination.....	5-3
5.3.1 Shoshone-Bannock Tribes	5-4
5.3.2 Federal and State Agencies	5-4
5.4 Distribution and Availability of the Draft RMP/EIS	5-4
5.5 Distribution and Availability of the Proposed RMP/Final EIS.....	5-5
5.6 Comments Received on the Draft RMP/EIS	5-6
5.6.1 Method of Comment Collection and Analysis.....	5-6
5.6.2 Summary of Written Comments Received.....	5-6
5.6.3 Comment Letters and BLM Responses	5-9
5.7 List of Preparers	5-9

TABLE OF CONTENTS – VOLUME II

Section	Page
REFERENCES	REFERENCES-1
GLOSSARY	GLOSSARY-1
INDEX	INDEX-1

LIST OF DIAGRAMS – VOLUME II

Diagram	Page
4.2.10-1 Low-Elevation Shrub, Perennial Grass, and Seedings Types Departure in 30 Years.	4-257
4.2.10-2 Mid-Elevation Shrub with Juniper Encroachment Type Departure in 30 Years.	4-257
4.2.10-3 Mountain Shrub Type Departure in 30 Years.....	4-258
4.2.10-4 Aspen/Aspen Conifer Mix/Dry Conifer types Departure in 30 Years.....	4-258
4.2.10-5 Wet/Cold Conifer Type Departure in 30 Years.	4-259
4.2.10-6 Other/Vegetated Lava Type Departure in 30 Years.	4-259
4.2.10-7 Graphical Display of FRCC 1, 2 and 3, Representing the Percent Departure from the Historical Range of Variability for Fire Frequency-Severity and Vegetation-Fuels.	4-261
4.3.5-1 Idaho OHV Registrations From 1973 Through 2003.	4-388

LIST OF TABLES – VOLUME II

Table	Page
4.2.1-1	Comparison of Air Quality Indicators by Alternative 4-10
4.2.2-1	Comparison of Cultural Resources Indicators by Alternative in Approximate Acres..... 4-22
4.2.3-1	Comparison of Soil Indicators by Alternative 4-40
4.2.3-2	Approximate Acres of Erodible Soils by Vegetation Type and Treatment Acres..... 4-44
4.2.3-3	Approximate Acres of Erodible Soils Open to Minerals Activities 4-47
4.2.3-4	Acres of Wind and Water Erodible Soils by OHV Designation and Alternative..... 4-51
4.2.4-1	Comparison of Paleontological Resource Indicators by Alternative..... 4-64
4.2.5-1	Comparison of Vegetation Indicators by Alternative 4-73
4.2.5-2	Area Extent of Vegetation Treatments Occurring in Each Vegetation Type by Alternative During the First 10 Years of Plan Implementation..... 4-74
4.2.5-3	Mountain Shrub Land Health Condition for All Alternatives Following Vegetation Treatments and Natural Succession..... 4-77
4.2.5-4	Wet/Cold Conifer Land Health Condition for All Alternatives Following Vegetation Treatments and Natural Succession..... 4-78
4.2.5-5	Natural Juniper Land Health Condition for All Alternatives Following Vegetation Treatments and Natural Succession..... 4-79
4.2.5-6	Average Annual Acres Burned by Vegetation Type for the Period 1971 Through 2001..... 4-80
4.2.5-7	Alternative A Vegetation Treatment Methods - Shrub Steppe Vegetation Types..... 4-91
4.2.5-8	Low-Elevation Shrub Land Health Condition for All Alternatives Following Vegetation Treatments and Natural Succession..... 4-92
4.2.5-9	Mid-Elevation Shrub LHC for All Alternatives Following Vegetation Treatments and Natural Succession 4-94
4.2.5-10	Alternative A Vegetation Treatment Methods - Forested Vegetation Types 4-96
4.2.5-11	Aspen/Aspen Conifer Mix/Dry Conifer Land Health Condition for All Alternatives Following Vegetation Treatments and Natural Succession..... 4-97
4.2.5-12	Approximate Public Land Acres Open, with an NSO Stipulation, Closed and Administratively Unavailable to Fluid Mineral Leasing by Vegetation Type and Alternative 4-101
4.2.5-13	Vegetation Types and Approximate Acres Open to Solid Mineral Leasing with No Closure Restrictions for All Alternatives 4-102
4.2.5-14	Vegetation Types and Approximate Acres Open to Mineral Materials Disposal with No Closure Restrictions for All Alternatives 4-104
4.2.5-15	Vegetation Types and Approximate Acres Open to Location of Mining Claims (Locatable Minerals) with No Closure Restrictions for All Alternatives 4-106
4.2.5-16	Alternative B Vegetation Treatment Methods - Shrub Steppe Vegetation Types..... 4-107
4.2.5-17	Alternative B Vegetation Treatment Methods – Forested Vegetation Types..... 4-111
4.2.5-18	Alternative C Vegetation Treatment Methods - Shrub Steppe Vegetation Types..... 4-121
4.2.5-19	Alternative C Vegetation Treatment Methods - Forested Vegetation Types 4-124
4.2.5-20	Alternative D Vegetation Treatment Methods - Shrub Steppe Vegetation Types..... 4-132
4.2.5-21	Alternative D Vegetation Treatment Methods - Forested Vegetation Types 4-135
4.2.6-1	Comparison of Fish and Wildlife Indicators by Alternative..... 4-144
4.2.6-1	Comparison of Fish and Wildlife Indicators by Alternative..... 4-145
4.2.6-2	Key Representative Wildlife Species by Vegetation Type..... 4-147
4.2.6-3	Description of Selected BpS Class for Wildlife Impact Assessment by Vegetation Type..... 4-148
4.2.6-4	Short Term (10 Years) and Long Term (30 Years) Change in Acreage Resulting from Vegetation Treatments on Identified (Desired) BpS Classes of Representative Fish and Wildlife Species by Alternative..... 4-149
4.2.6-5	Wildland Fire Treatment Acreage and Predicted Change in FRCC Class by Alternative 4-152

LIST OF TABLES – VOLUME II

Table	Page
4.2.6-6	Approximate Acres Open for Mineral Resource Development by Mineral Resource Type by Alternative 4-154
4.2.7-1	Acres of Special Status Plant Habitat on Public Lands Potentially Affected by Surface Disturbance Activities by Alternative 4-176
4.2.7-2	Representative Special Status Species by Vegetation Type and Approximate Acres of Public Land..... 4-178
4.2.7-3	Comparison of Special Status Species Indicators by Alternative..... 4-179
4.2.7-4	Expected Wildland Fire Effects on Special Status Plant Species Within the Planning Area. 4-186
4.2.7-5	Approximate Acres of Special Status Plant Habitat With Oil and Gas and Geothermal Resource Potential on Public Lands Within the Planning Area 4-191
4.2.7-6	Description of Selected BpS Class for Special Status Fauna Impact Assessment by Vegetation Type 4-192
4.2.7-7	Short Term (10 Years) and Long Term (30 Years) Change in Acreage Resulting from Vegetation Treatments on Identified (Desired) BpS Classes of Representative Fish and Wildlife Species by Alternative..... 4-194
4.2.7-8	Expected Livestock Grazing Effects On Special Status Flora Plant Species Within the Pocatello Field Office Area 4-196
4.2.7-9	Approximate Acres of Special Status Plant Habitat Where WFU Would be Suitable/Not Appropriate on Public Lands Under Alternative B 4-206
4.2.7-10	Approximate Acres of Special Status Plant Habitat Where WFU Would be Suitable/Not Appropriate on Public Lands Under Alternative C 4-218
4.2.7-11	Approximate Acres of Special Status Plant Habitat Where WFU Would be Suitable/Not Appropriate on Public Lands Under Alternative D 4-224
4.2.7-12	Approximate Acres of Special Status Plant Habitat by Land Status for Southeastern Idaho. 4-231
4.2.7-13	Approximate Acres of Special Status Plant Habitat Available To Livestock Grazing by Land Status for Each Alternative..... 4-233
4.2.7-14	Approximate Acres of Special Status Plant Habitat by Alternative Across Southeastern Idaho Open to Mineral Resource Development 4-234
4.2.7-15	Approximate Acres of Special Status Plant Habitat by Alternative Across Southeastern Idaho Open to Mineral Resource Development 4-234
4.2.7-16	Approximate Acres of Special Status Plant Habitat by Land Status In Areas With Oil and Gas and Geothermal Potential Across Southeastern Idaho 4-236
4.2.8-1	LUA Exclusion Areas for each Alternative..... 4-238
4.2.9-1	Comparison of Water Resource Indicators by Alternative 4-244
4.2.10-1	Comparison of Wildland Fire Indicators (FRCC in 30 Years) by Alternative and Vegetation Type 4-256
4.2.10-2	Wildland Urban Interface Area Risk Potential and Treatment Levels by Alternative. 4-260
4.2.10-3	Change in FRCC in each Vegetation Type Following Treatment for Alternative A 4-264
4.2.10-4	Change in FRCC in each Vegetation Type Following Treatment for Alternative B..... 4-267
4.2.10-5	Change in FRCC in each Vegetation Type Following Treatment for Alternative C..... 4-269
4.2.10-6	Change in FRCC in each Vegetation Type Following Treatment for Alternative D 4-271
4.3.1-1	Approximate Acres of Commercial and Non Commercial Forestry Program Affected by Management Direction by Alternative 4-274
4.3.2-1	Comparison of Lands and Realty Indicators by Alternative..... 4-287
4.3.2-2	Zone 4 Acres Potentially Disposed of by Alternative Based Upon Assumption that 50% of Public Lands Identified for Disposal Would Be Transferred Over the Next 20 Years 4-288
4.3.3-1	Comparison of Livestock Grazing Indicators by Alternative..... 4-304
4.3.3-2	Grazing Allotments Affected by Selenium..... 4-313
4.3.3-3	Allotments With Portions Consisting of Areas Designated as RNAs 4-316

LIST OF TABLES – VOLUME II

Table	Page
4.3.3-4	Acres of Unpermitted/Unleased Allotments With Riparian Areas..... 4-317
4.3.3-5	Grazing Allotments (A) and Unallotted Tracts (U) (Public Lands Only) Partially or Entirely within the Boundaries of the Blackfoot Stock Driveway 4-318
4.3.3-6	Allotments with Portions Consisting of Areas Designated as RNAs 4-318
4.3.3-7	Regional Comparison of Cattle and Sheep Grazing (AUMs and Percent) by Land Ownership..... 4-322
4.3.3-8	Public Land Acres and AUMs Unavailable on a Permanent or Temporary Basis Due To Resources/Uses Management Direction By Alternative 4-326
4.3.3-9	Public Lands Acres of Livestock Grazing Potentially Impacted By Plan Direction By Alternative 4-327
4.3.4-1	Comparison of Mineral and Energy Indicators in Approximate Acres by Alternative 4-328
4.3.4-2	Approximate Acres of Timing Restrictions from Fish and Wildlife and Special Status Species for Oil and Gas Resources on Public Lands 4-337
4.3.4-3	Approximate Acres of Timing Restrictions from Fish and Wildlife and Special Status Species for Geothermal Resources on Public Lands 4-339
4.3.4-4	Approximate Acres (Percent) Public Lands Designated as Visual Resources Class I or II in Oil and Gas and Geothermal Resource Potential Areas 4-342
4.3.4-5	Approximate Acres of Public Lands in the Planning Area with Fluid Mineral Potential and No Surface Occupancy or Closure for Various Resources/Uses for All Alternatives..... 4-351
4.3.4-6	Approximate Acres of Special Designations, Fish and Wildlife/Special Status Species Geographical Areas and Special Status Habitat in the Planning Area with Fluid Mineral Potential Designated No Surface Occupancy or Administratively Unavailable for Leasing by Alternative 4-353
4.3.4-7	Approximate Total Footprint Acres of Public Lands with Fluid Mineral Potential and No Surface Occupancy, Unavailable, or Closed to Leasing by Alternative..... 4-354
4.3.4-8	Approximate Acres of Public Lands in the Planning Area Identified for Possible Land Tenure Adjustments (Zones 3 and 4) in Fluid Mineral Potential Areas by Alternative 4-358
4.3.4-9	Cumulative Approximate Acres of Fluid Mineral Surface Disturbance Within Southeastern Idaho for all Public or Split-Estate Lands..... 4-371
4.3.4-10	Approximate Acres of Cumulative Surface Disturbance for All Past, Current, and Future Mineral Material, Locatable Mineral, and Solid Leasable Mineral Activities within Southeastern Idaho by Surface Agency/Owner 4-374
4.3.5-1	Approximate Acres of Special Recreation Management Areas, the Extensive Recreation Management Area and Off-Highway Vehicle Designations by Alternative 4-378
4.4.1-1	Comparison of the Number and Approximate Acres of Special Designations by Alternative 4-391
4.4.1-1	Comparison of the Number and Approximate Acres of Special Designations by Alternative 4-392
4.4.1-2	Approximate Acres of Identified Values/Characteristics by Alternative for WSAs, ACECs and RNAs 4-392
4.4.1-3	Approximate Acres Available/Not Available by Alternative for Livestock Grazing Within Special Designated Areas (WSA, RNA, and ACEC) in the Planning Area 4-397
4.4.1-4	Approximate Acres of Special Designation Areas (WSA, ACEC, RNA, and Historic Trails) Protected Through Discretionary and Non-discretionary Closures and NSO Stipulation for Minerals and Energy Resources for Alternative A..... 4-397
4.4.1-5	Approximate Acres of Special Designated Areas (WSA, ACEC, RNA, and Historic Trails) Protected Through Discretionary and Non-discretionary Closures and NSO Stipulation for Minerals and Energy Resources for Alternative B..... 4-399

LIST OF TABLES – VOLUME II

Table	Page
4.4.1-6	Approximate Acres of Special Designated Areas (WSA, ACEC, RNA, and Historic Trails) Protected Through Discretionary and Non-discretionary Closures and NSO Stipulation for Mineral and Energy Resources for Alternative C..... 4-400
4.4.1-7	Approximate Acres of Special Designated Areas (WSA, ACEC, RNA, and Historic Trails) Protected Through Discretionary and Non-discretionary Closures and NSO Stipulation for Mineral and Energy Resources for Alternative D 4-402
4.5-1	Comparison of Socioeconomic Indicators by Alternative 4-407
4.5-2	Socioeconomic Comparison of Alternatives 4-409
5-1	Number of Written Submissions on the Draft RMP/EIS per Affiliation 5-7
5-2	Letter Submissions Received Sorted by Affiliation and Author Name 5-7
5-3	Number of Comments Regarding Each Resource or Resource Use 5-9
5-4	List of Preparers..... 5-10