

CONTENTS

Chapter 1 - Purpose and Need

Introduction	1
Location of the Planning Area	1
Purpose and Need	2
Issues	3
Land Acquisition and Disposal	3
Access to BLM Land	3
Off-Road Vehicle Designations	3
Oil and Gas Leasing and Development	3
Hardrock Mining	3
Riparian and Wetland Management of Watersheds	3
Elk and Bighorn Sheep Habitat Management	3
Prairie Dog and Black-Footed Ferret Management	4
Areas With Special Management Concerns	4
Issues Not Addressed	4
Rights-of-Way	4
Withdrawal Review	4
Vegetation Allocation	5
Land Treatments	5
Fire Management	5
Coal	5
Issues Previously Addressed	5
Planning Criteria	5
General Criteria	5
Issue Specific Criteria	6
Land Acquisition and Disposal	6
Access to BLM Land	6
Off-Road Vehicle Designations	6
Oil and Gas Leasing and Development	7
Hardrock Mining	7
Riparian and Wetland Management of Watersheds	7
Elk and Bighorn Sheep Habitat Management	8
Prairie Dog and Black-Footed Ferret Management	8
Areas With Special Management Concerns	8

Chapter 2 - Alternatives

Introduction	9
Alternatives Eliminated From Detailed Study	9
Management Common To All Alternatives	9
Energy Mineral Resources	9
Nonenergy Mineral Resources	10
Geologic Features	12
Cave Resources	12
Paleontology	12
Hazardous Materials	12
Soils Management	13
Water Resource Management	13
Air Quality Management	13
Vegetation Management	16
Land Treatments	18
Noxious Plants	19
Animal Damage Control	19

Wildlife and Fisheries Management	19
Recreation	22
Wilderness Management	25
Visual Resource Management	25
Cultural Resources	26
Fire Management	28
Forest Management	28
Lands	29
Waterpower and Water Storage Management	35
Areas Of Critical Environmental Concern	35
Wild and Scenic Rivers	35
Alternative A	36
Land Acquisition and Disposal	36
Access to BLM Land	37
Off-Road Vehicle Designations	37
Oil and Gas Leasing and Development	40
Hardrock Mining	40
Riparian and Wetland Management of Watersheds	41
Elk and Bighorn Sheep Habitat Management	42
Prairie Dog and Black-Footed Ferret Management	42
Judith Mountains Scenic Area ACEC	47
Acid Shale-Pine Forest ACEC	47
Square Butte Outstanding Natural Area ACEC	47
Collar Gulch ACEC	47
Azure Cave ACEC	47
Big Bend of the Milk River	47
Alternative B	48
Land Acquisition and Disposal	48
Access To BLM Land	48
Off-Road Vehicle Designations	48
Oil and Gas Leasing and Development	51
Hardrock Mining Activity	51
Riparian and Wetland Management of Watersheds	52
Elk and Bighorn Sheep Habitat Management	53
Prairie Dog and Black-Footed Ferret Management	53
Judith Mountains Scenic Area ACEC	56
Acid Shale-Pine Forest ACEC	56
Square Butte Outstanding Natural Area ACEC	56
Collar Gulch ACEC	56
Azure Cave ACEC	56
Big Bend of the Milk River	56
Alternative C	58
Land Acquisition and Disposal	58
Access To BLM Land	58
Off-Road Vehicle Designations	58
Oil and Gas Leasing and Development	62
Hardrock Mining	62
Riparian and Wetland Management of Watersheds	64
Elk and Bighorn Sheep Habitat Management	65
Prairie Dog and Black-Footed Ferret Management	65
Judith Mountains Scenic Area ACEC	68
Acid Shale-Pine Forest ACEC	68
Square Butte Outstanding Natural Area ACEC	68
Collar Gulch ACEC	69
Azure Cave ACEC	69
Big Bend of the Milk River ACEC	70
Alternative D	70
Land Acquisition and Disposal	70

Access To BLM Land	70
Off-Road Vehicle Designations	71
Oil and Gas Leasing and Development	74
Hardrock Mining	75
Riparian and Wetland Management of Watersheds	76
Elk and Bighorn Sheep Habitat Management	78
Prairie Dog and Black-Footed Ferret Management	78
Judith Mountains Scenic Area ACEC	83
Acid Shale-Pine Forest ACEC	83
Square Butte Outstanding Natural Area ACEC	83
Collar Gulch ACEC	84
Azure Cave ACEC	84
Big Bend of the Milk River ACEC	84
Alternative E	84
Land Acquisition and Disposal	84
Access To BLM Land	85
Off-Road Vehicle Designations	86
Oil and Gas Leasing and Development	87
Hardrock Mining	88
Riparian and Wetland Management of Watersheds	89
Elk and Bighorn Sheep Habitat Management	91
Prairie Dog and Black-Footed Ferret Management	94
Judith Mountains Scenic Area ACEC	96
Acid Shale-Pine Forest ACEC	96
Square Butte Outstanding Natural Area ACEC	96
Collar Gulch ACEC	97
Azure Cave ACEC	97
Big Bend of the Milk River ACEC	97
Selection of the Draft Preferred Alternative	97
Comparison of Alternatives	99

Chapter 3 - Affected Environment

Introduction	101
Topography	101
Climate	101
General Geology	101
Paleontology	103
Energy Mineral Resources	103
Oil and Gas	103
Geothermal	104
Oil Shale	104
Coal	105
Nonenergy Mineral Resources	105
Hardrock	105
Judith Mountains	105
Geology	105
Mining History	106
Recent Activity	106
North and South Moccasin Mountains	106
Geology	106
Mining History	107
Recent Activity	107
Little Belt Mountains	107
Geology	107
Mining History	107
Recent Activity	107
Little Rocky Mountains	108

Geology	108
Mining History	108
Recent Activity	108
Diatremes	109
Bentonite	109
Gypsum	110
Limestone and Lime	110
Mineral Materials	110
Hazardous Materials	111
Air Quality	111
Groundwater	111
Surface Water	112
Surface Water Quality	112
Water Rights	114
Erosion and Sedimentation	114
Soils	114
Glacial Till Upland Province	114
Sedimentary Uplands Province	115
Alluvial Soils Province	115
Mountains and Foothills Province	115
Vegetation	115
Upland Prairie and Breaks Vegetation Types	116
Grass	116
Big Sagebrush/Grass	116
Saltbush	116
Ponderosa Pine/Juniper	117
Douglas-Fir/Ponderosa Pine	117
Mountain Forest Types	117
Riparian-Wetland Vegetation Types	117
Western Wheatgrass\Rushes\Sedges	119
Rose\Snowberry	119
Cottonwood\Willow	119
Silver Sagebrush	120
Greasewood	120
Threatened and Endangered Plans Species	120
Noxious Plants	120
Ecological Status and Trend	120
Ecological Status of Riparian Areas	121
Grazing Management	121
Allotment Categorization	122
Grazing EIS Implementation	122
Riparian Management	123
Rangeland Improvements	123
Wildlife and Fisheries	123
Threatened and Endangered Wildlife Species	123
Big Game	124
Elk	124
Deer	125
Antelope	125
Rocky Mountain Bighorn Sheep	125
Rocky Mountain Goats	126
Upland Game Birds	126
Sage Grouse	126
Sharp-tailed Grouse	126
Other Upland and Migratory Game Birds	127
Waterfowl	127
Fisheries	128
Nongame Birds and Mammals	128

Forestry	128
Cultural Resources	131
Recreation	132
Visual Resource Management	133
Off-Road Vehicles	133
Wilderness	133
Lands	134
Transportation and Access	135
Areas of Critical Environmental Concern	135
Judith Mountains Scenic Area	135
Acid Shale-Pine Forest	135
Square Butte	136
Collar Gulch	136
Azure Cave	137
Big Bend of the Milk River	137
Prairie Dog Complex	138
Economic Conditions	139
Agriculture	139
Hardrock Minerals	140
Oil and Gas	141
Tourism and Recreation	143
Forest Products	144
Government	144
Fiscal Conditions	145
Demographics	146
Social Conditions	148
Social Well-Being	148
Social Trends	149
Regional Attitudes	149
Planning Area Analysis	150
Lewistown and the Judith Resource Area	151
Glasgow and the Valley Resource Area	151
Malta and the Phillips Resource Area	152
Planning Area Attitudes About BLM Land Management Issues	152
Land Acquisition and Disposal	153
Access to BLM Land	153
Off-Road Vehicle Designations	154
Oil and Gas Leasing and Development	154
Hardrock Mining	154
Riparian and Wetland Management of Watersheds	154
Elk and Bighorn Sheep Habitat Management	154
Prairie Dog and Black-Footed Ferret Management	155
Areas With Special Management Concerns	155
Summary	155

Chapter 4 - Environmental Consequences

Introduction	157
Analysis Assumptions and Guidelines	157
Impacts From Management Common To All Alternatives	159
Impacts to Hardrock Minerals and Oil and Gas	159
Impacts to Air and Water Quality	160
Impacts to Soil and Vegetation	160
Impacts to Livestock Grazing	161
Impacts to Wildlife	161
Impacts to Forestry	162
Impacts to Cultural Resources	162
Impacts to Recreation	163

Impacts to Visual Resources	163
Impacts to Economic Conditions	164
Impacts to Social Conditions	164
Impacts By Alternative	165
Impacts To Oil And Gas	165
From Land Acquisition and Disposal	165
From Access to BLM Land	165
From Off-Road Vehicle Designations	165
From Oil and Gas Leasing and Development	165
From Hardrock Mining	166
From Riparian and Wetland Management of Watersheds	166
From Elk and Bighorn Sheep Habitat Management	166
From Prairie Dog and Black-Footed Ferret Management	166
From the Judith Mountains Scenic Area ACEC	167
From the Acid Shale-Pine Forest ACEC	167
From the Square Butte ONA ACEC	167
From the Collar Gulch ACEC	167
From the Azure Cave ACEC	167
From the Big Bend of the Milk River ACEC	167
Impacts To Hardrock Minerals	168
From Land Acquisition and Disposal	168
From Access to BLM Land	168
From Off-Road Vehicle Designations	168
From Oil and Gas Leasing and Development	168
From Hardrock Mining	168
From Riparian and Wetland Management of Watersheds	171
From Elk and Bighorn Sheep Habitat Management	171
From Prairie Dog and Black-Footed Ferret Management	171
From the Judith Mountains Scenic Area ACEC	171
From the Acid Shale-Pine Forest ACEC	172
From the Square Butte ONA ACEC	172
From the Collar Gulch ACEC	172
From the Azure Cave ACEC	172
From the Big Bend of the Milk River	173
Impacts to Air and Water Quality	173
From Land Acquisition and Disposal	173
From Access to BLM Land	173
From Off-Road Vehicle Designations	173
From Oil and Gas Leasing and Development	173
From Hardrock Mining	173
From Riparian and Wetland Management of Watersheds	175
From Elk and Bighorn Sheep Habitat Management	175
From Prairie Dog and Black-Footed Ferret Management	175
From the Judith Mountains Scenic Area ACEC	175
From the Acid Shale-Pine Forest ACEC	175
From the Square Butte ONA ACEC	175
From the Collar Gulch ACEC	175
From the Azure Cave ACEC	175
From the Big Bend of the Milk River	175
Impacts to Soils and Vegetation	175
From Land Acquisition and Disposal	175
From Access to BLM Land	175
From Off-Road Vehicle Designations	176
From Oil and Gas Leasing and Development	176
From Hardrock Mining	177
From Riparian and Wetland Management of Watersheds	177
From Elk and Bighorn Sheep Habitat Management	179
From Prairie Dog and Black-Footed Ferret Management	179

From the Judith Mountains Scenic Area ACEC	180
From the Acid Shale-Pine Forest ACEC	180
From the Square Butte ONA ACEC	180
From the Collar Gulch ACEC	180
From the Azure Cave ACEC	180
From the Big Bend of the Milk River	181
Impacts to Livestock Grazing Management	181
From Land Acquisition and Disposal	181
From Access to BLM Land	181
From Off-Road Vehicle Designations	181
From Oil and Gas Leasing and Development	182
From Hardrock Mining	182
From Riparian and Wetland Management of Watersheds	182
From Elk and Bighorn Sheep Habitat Management	183
From Prairie Dog and Black-Footed Ferret Management	183
From the Judith Mountains Scenic Area ACEC	183
From the Acid Shale-Pine Forest ACEC	184
From the Square Butte ONA ACEC	184
From the Collar Gulch ACEC	184
From the Azure Cave ACEC	184
From the Big Bend of the Milk River	184
Impacts to Wildlife	184
From Land Acquisition and Disposal	184
From Access to BLM Land	184
From Off-Road Vehicle Designations	184
From Oil and Gas Leasing and Development	185
From Hardrock Mining	186
From Riparian and Wetland Management of Watersheds	190
From Elk and Bighorn Sheep Habitat Management	193
From Prairie Dog and Black-Footed Ferret Management	193
From the Judith Mountains Scenic Area ACEC	195
From the Acid Shale-Pine Forest ACEC	195
From the Square Butte ONA ACEC	195
From the Collar Gulch ACEC	195
From the Azure Cave ACEC	196
From the Big Bend of the Milk River	196
Impacts to Forestry	196
From Land Acquisition and Disposal	196
From Access to BLM Land	197
From Off-Road Vehicle Designations	197
From Oil and Gas Leasing and Development	197
From Hardrock Mining	197
From Riparian and Wetland Management of Watersheds	197
From Elk and Bighorn Sheep Habitat Management	197
From Prairie Dog and Black-Footed Ferret Management	197
From the Judith Mountains Scenic Area ACEC	197
From the Acid Shale-Pine Forest ACEC	197
From the Square Butte ONA ACEC	197
From the Collar Gulch ACEC	197
From the Azure Cave ACEC	197
From the Big Bend of the Milk River	197
Impacts to Cultural Resources	197
From Land Acquisition and Disposal	197
From Access to BLM Land	198
From Off-Road Vehicle Designations	198
From Oil and Gas Leasing and Development	198
From Hardrock Mining	198
From Riparian and Wetland Management of Watersheds	198

From Elk and Bighorn Sheep Habitat Management	199
From Prairie Dog and Black-Footed Ferret Management	199
From the Judith Mountains Scenic Area ACEC	199
From the Acid Shale-Pine Forest ACEC	199
From the Square Butte ONA ACEC	199
From the Collar Gulch ACEC	199
From the Azure Cave ACEC	200
From the Big Bend of the Milk River	200
Impacts To Recreation	200
From Land Acquisition and Disposal	200
From Access to BLM Land	200
From Off-Road Vehicle Designations	201
From Oil and Gas Leasing and Development	201
From Hardrock Mining	202
From Riparian and Wetland Management of Watersheds	202
From Elk and Bighorn Sheep Habitat Management	203
From Prairie Dog and Black-Footed Ferret Management	203
From the Judith Mountains Scenic Area ACEC	204
From the Acid Shale-Pine Forest ACEC	204
From the Square Butte ONA ACEC	204
From the Collar Gulch ACEC	204
From the Azure Cave ACEC	204
From the Big Bend of the Milk River	205
Impacts To Visual Resources	205
From Land Acquisition and Disposal	205
From Access to BLM Land	205
From Off-Road Vehicle Designations	205
From Oil and Gas Leasing and Development	206
From Hardrock Mining	206
From Riparian and Wetland Management of Watersheds	206
From Elk and Bighorn Sheep Habitat Management	207
From Prairie Dog and Black-Footed Ferret Management	207
From the Judith Mountains Scenic Area ACEC	207
From the Acid Shale-Pine Forest ACEC	207
From the Square Butte ONA ACEC	207
From the Collar Gulch ACEC	207
From the Azure Cave ACEC	207
From the Big Bend of the Milk River	208
Impacts To Economic Conditions	208
From Land Acquisition and Disposal	208
From Access to BLM Land	209
From Off-Road Vehicle Designations	210
From Oil and Gas Leasing and Development	210
From Hardrock Mining	210
From Riparian and Wetland Management of Watersheds	213
From Elk and Bighorn Sheep Habitat Management	215
From Prairie Dog and Black-Footed Ferret Management	216
From the Judith Mountains Scenic Area ACEC	218
From the Acid Shale-Pine Forest ACEC	220
From the Square Butte ONA ACEC	220
From the Collar Gulch ACEC	220
From the Azure Cave ACEC	221
From the Big Bend of the Milk River	221
Impacts To Social Conditions	221
From Land Acquisition and Disposal	221
From Access to BLM Land	222
From Off-Road Vehicle Designations	222
From Oil and Gas Leasing and Development	223

From Hardrock Mining	223
From Riparian and Wetland Management of Watersheds	224
From Elk and Bighorn Sheep Habitat Management	224
From Prairie Dog and Black-Footed Ferret Management	225
From the Judith Mountains Scenic Area ACEC	225
From the Acid Shale-Pine Forest ACEC	226
From the Square Butte ONA ACEC	226
From the Collar Gulch ACEC	226
From the Azure Cave ACEC	226
From the Big Bend of the Milk River	226
Summary of the Cumulative Effects	226
Unavoidable Adverse Impacts	239
Short-Term Use/Long-Term Productivity	240
Irreversible or Irrecoverable Resource Commitments	242

Chapter 5 - Consultation and Coordination

Public Involvement	243
Coordinated Resource Management Planning	244
Public Access CRMP Group	244
Prairie Dog and Black-footed Ferret CRMP Group	245
Off-Road Vehicle CRMP Group	246
Plan Consistency	246
Distribution List	247
List of Preparers	250
Glossary	253
References	259
Index	265

Appendices

A Land Acquisition and Disposal	267
B Oil and Gas Leasing and Development	275
C Hardrock Mining	317
D Physiographic Provinces	337
E Best Management Practices	341
F Biological Assessment	347
G Bureau of Reclamation Withdrawal Review	357
H Areas of Critical Environmental Concern	365
I Wild and Scenic River Evaluation	377
J Riparian and Wetland Management of Watersheds	389
K Prairie Dog Towns in the Planning Area	401
L Access to BLM Land	411
M Grazing Allotments	415

Public Comments & Responses

Public Comments & Responses	437
Summary of Public Meetings	446
Letters and Comment Forms	461
Transcripts	653
BLM's Responses	701

Figures

1.1	Location of Planning Area	2
2.1	Physiographic Provinces	14
2.2	ORV (A)	38
2.3	Elk and Bighorn Sheep Habitat (A)	43
2.4	Prairie Dog and Black-Footed Ferrets (A)	46
2.5	ORV (B)	49
2.6	Elk and Bighorn Sheep Habitat (B)	54
2.7	Prairie Dog and Black-Footed Ferrets (B)	57
2.8	ORV (C)	59
2.9	Prairie Dog and Black-Footed Ferrets (C)	67
2.10	ORV (D)	72
2.11	Elk and Bighorn Sheep Habitat (D)	79
2.12	Prairie Dog and Black-Footed Ferret (D)	82
2.13	Elk and Bighorn Sheep Habitat (E)	92
3.1	General Geology	102
3.2	Prairie Dog Towns	129
3.3	Farm Ownership (Percentage)	139
3.4	Farm Ownership (Acres)	139
3.5	Total Farm Employment 1981-1988	139
3.6	Regional Livestock Receipts - 1986	140
3.7	Total Mining Employment 1981-1988	141
3.8	Metal Mine Production	141
3.9	Oil Production 1985-1989	142
3.10	Natural Gas Production 1985-1989	142
3.11	Value of Oil and Gas Production	142
3.12	Total Employment in Trade and Services 1981-1988	143
3.13	Federal State and Local Government Employment 1981-1988	144
3.14	Population	147
3.15	Population by Age	147
3.16	Perceptions of Lifestyle Need	149
3.17	Perception of Land Use Changes 1979-1989	151
3.18	Important Uses/Resources on BLM Land	153
3.19	Threatened Uses Resources on BLM Land	153
4.1	Total Economic Benefit Change	208
4.2	PILT and Entitlement Acreage	209
4.3	Total Annual Economic Benefit (A)	233
4.4	Total Annual Employment Impacts (A)	233
4.5	Total Annual Fiscal Impacts (A)	233
4.6	Total Annual Economic Benefit (B)	234
4.7	Total Annual Employment Impacts (B)	234
4.8	Total Annual Fiscal Impacts (B)	234
4.9	Total Annual Economic Benefit (C)	235
4.10	Total Annual Employment Impacts (C)	235
4.11	Total Annual Fiscal Impacts (C)	235
4.12	Total Annual Economic Benefit (D)	236
4.13	Total Annual Employment Impacts (D)	236
4.14	Total Annual Economic Benefit (E)	237
4.15	Total Annual Employment Impacts (E)	237

Tables

S.1	Summary of Alternatives	vii
S.2	Summary of the Environmental Consequences	xii
1.1	Surface Ownership	1
1.2	Subsurface Ownership	1
2.1	Montana Species of Special Interest or Concern	20

2.2	Reservoirs Identified for Fisheries	21
2.3	Suitable and Unsuitable Acres for Wilderness Study Areas	25
2.4	Land Identified for Revocation	32
2.5	Bureau of Reclamation Land Identified for Continuation or Revocation	34
2.6	BLM Land Available for Exchange	36
2.7	BLM Land Designated Open, Limited or Closed to ORVs (A)	37
2.8	Acres Subject to Oil and Gas Restrictions (A)	40
2.9	Acres Segregated from Mineral Entry (A)	41
2.10	Allotments Managed for Riparian and Wetland Values (A)	41
2.11	Acres of Elk and Bighorn Sheep Habitat (A)	42
2.12	Prairie Dog and Black-Footed Ferret Management (A)	45
2.13	BLM Land Designated Open, Limited or Closed to ORVs (B)	51
2.14	Acres Subject to Oil and Gas Restrictions (B)	51
2.15	Allotments Managed for Riparian and Wetland Values (B)	52
2.16	Acres of Elk and Bighorn Sheep Habitat (B)	53
2.17	Prairie Dog and Black-Footed Ferret Management (B)	53
2.18	BLM Land Needing New Legal Public Access (C)	58
2.19	BLM Land Designated Open, Limited or Closed to ORV's (C)	61
2.20	Acres Subject to Oil and Gas Restrictions (C)	62
2.21	Acres Segregated from Mineral Entry (C)	62
2.22	Allotments Managed for Riparian and Wetland Values (C)	64
2.23	Acres of Elk and Bighorn Sheep Habitat (C)	65
2.24	Prairie Dog and Black-Footed Ferret Management (C)	66
2.25	BLM Land Needing New and Additional Legal Public Access (D)	71
2.26	BLM Roads That Would Be Extended or Upgraded (D)	71
2.27	BLM Land Designated Open, Limited or Closed to ORVs (D)	71
2.28	Acres Subject to Oil and Gas Restrictions (D)	75
2.29	Acres Segregated from Mineral Entry (D)	76
2.30	Allotments Managed for Riparian and Wetland Values (D)	77
2.31	Acres of Elk and Bighorn Sheep Habitat (D)	78
2.32	Prairie Dog and Black-Footed Ferret Management (D)	81
2.33	BLM Land Available for Exchange (E)	85
2.34	BLM Land Needing New and Additional Legal Public Access (E)	85
2.35	BLM Land Designated Open, Limited or Closed to ORVs (E)	86
2.36	Acres Subject to Oil and Gas Restrictions (E)	88
2.37	Acres Segregated From Mineral Entry (E)	88
2.38	Allotments Managed for Riparian and Wetland Values (E)	90
2.39	Acres of Elk and Bighorn Sheep Habitat (E)	91
2.40	Prairie Dog and Black-Footed Ferret Management (E)	94
3.1	Oil and Gas Fields in the Planning Area	104
3.2	Unpatented Mining Claim Inventory	105
3.3	Major Groundwater Aquifers	111
3.4	Perennial and Intermittent Streams	113
3.5	Water Developments/Rangeland Improvements	114
3.6	Type and Extent of Riparian-Wetland Areas	118
3.7	Riparian Dominance Types	118
3.8	Noxious Plant Control	120
3.9	Acres Infestation Estimated	120
3.10	Ecological Condition	121
3.11	Ecological Trend	121
3.12	Permittees, Allotments, Preference AUMs and Acres Allocated	121
3.13	BLM Land Unallocated from Livestock Grazing	122
3.14	Allotment Categorization	122
3.15	Livestock Allotment Management Plans	122
3.16	Proposed AMPs to be Completed	122
3.17	Riparian Enclosures	123
3.18	Acres of Crucial Habitat on BLM Land	125
3.19	BLM Water Impoundments	127

3.20	Black-Tailed Prairie Dog Towns	128
3.21	Forest Products Sold (1978-1987)	131
3.22	Recreation Use on BLM Land	132
3.23	Agency and Size of Withdrawals	134
3.24	Federal Rights-of-Way	134
3.25	Federal Leases and Permits	134
3.26	Acquisition/Disposal	135
3.27	Livestock Receipts, Economic Activity, Employment and Earnings Associated with livestock grazing on BLM Land	140
3.28	Expenditures, Business Activity, Employment and Earnings Associated with Recreation on BLM Land	143
3.29	Total Economic Benefit of Recreation on BLM Land	144
3.30	Economic Activity, Employment and Earnings Associated with BLM Expenditures	145
3.31	Payment In Lieu of Taxes, State Equalization Payments and Taxable Valuation	145
3.32	Population 1940-1988 Counties and Communities	146
3.33	Objective Indicators of Social Well-Being	148
4.1	Acreage of Mineral Development Potential (A)	169
4.2	Acreage of Mineral Development Potential (B)	169
4.3	Acreage of Mineral Development Potential (C)	170
4.4	Acreage of Mineral Development Potential (D)	170
4.5	Acreage of Mineral Development Potential (E)	171
4.6	Water Quality Criteria	174
4.7	Projected Exploration and Mining Disturbance	177
4.8	Wildlife Protection Stipulations/Restrictions	187
4.9	Riparian and Wetland Management (A)	190
4.10	Riparian and Wetland Management (B)	191
4.11	Riparian and Wetland Management (C)	191
4.12	Riparian and Wetland Management (D)	191
4.13	Riparian and Wetland Management (E)	192
4.14	Acres of Disturbance from Hardrock Mining	206
4.15	Land Disposal Summary	208
4.16	PILT and Property Tax Revenue (A-D)	209
4.17	PILT and Property Tax Revenue (E)	209
4.18	Validity Examinations	213
4.19	Prairie Dog and Black-footed Ferret Management Costs	217
4.20	Possible Economic Activity Foregone (C)	219
4.21	Possible Economic Activity Foregone (D)	219
4.22	Possible Economic Activity Foregone (E)	220
4.23	Acres of Mineral Development Potential (A)	227
4.24	Acreage Subject to Oil and Gas Restrictions (A)	227
4.25	Acres of Mineral Development Potential (B)	227
4.26	Acreage Subject to Oil and Gas Restrictions (B)	227
4.27	Acres of Mineral Development Potential (C)	227
4.28	Acreage Subject to Oil and Gas Restrictions (C)	228
4.29	Acres of Mineral Development Potential (D)	228
4.30	Acreage Subject to Oil and Gas Restrictions (D)	228
4.31	Acres of Mineral Development Potential (E)	228
4.32	Acreage Subject to Oil and Gas Restrictions (E)	228
4.33	Changes From Current Conditions (A)	233
4.34	Changes From Current Conditions (B)	234
4.35	Changes From Current Conditions (C)	235
4.36	Changes From Current Conditions (D)	236
4.37	Changes From Current Conditions (E)	237
5.1	Public Involvement	243

Maps

Maps at the Conclusion of Chapter 2

- A Square Butte ONA ACEC
- B Judith Mountains Scenic Area ACEC
- C Acid Shale-Pine Forest ACEC
- D Collar Gulch ACEC
- E Azure Cave ACEC
- F Big Bend of the Milk River ACEC
- G Judith and Moccasin Mountains ORV Travel Plan
- H Yellow Water ORV Travel Plan
- I Bitter Creek WSA and Rock Creek Canyon ORV Travel Plan

Maps Following the Appendices

- J Little Rocky Mountain Hardrock Mineral Development Potential
- K Judith and Moccasin Mountains Hardrock Mineral Development Potential
- L Little Belt Mountains and Yogo Gulch Area Hardrock Mineral Development Potential

Maps Found in the Back Pocket

- 1 Visual Resource Management Classes
 - Side A, Judith RA
 - Side B, Valley and Phillips RAs
- 2 Disposal
 - Side A, Judith RA
 - Side B, Valley and Phillips RAs
- 3 Access
 - Side A, Judith RA
 - Side B, Valley and Phillips RAs
- 4 Off-Road Vehicle Travel Plan
 - Side A, West Side of Judith RA
 - Side B, Phillips RA
- 5 Off-Road Vehicle Travel Plan
 - Side A, East Side of Judith RA
 - Side B, Valley RA
- 6 Oil and Gas Leasing and Development
 - Side A, Judith RA
 - Side B, Valley and Phillips RAs
- 7 Prairie Dog and Black-Footed Ferrets