## **Contents**

Onaptor	Page
Overview	. ix
1. Introduction	3
Chapter 1 References	7
	44
2. Findings and Policy Options	11
3. The Federal Coal Management Program	33
The Coal Leasing Program	33
Land Use Planning	34
Activity Planning and Lease Sales	44
Post-Leasing	45
Preference Right Lease Applications	46
Environmental Protection	
Chapter 3 References ,	51
4. Planning and Environmental Assessment in the Federal Coal Leasing Program	55
Expectations From the Leasing Program	55
Program Stability and Predictability	55
Program Administration	56
Program Implementation	58
Public Participation	59
Regional Leasing Rates	59
Regional Leasing Levels	60
Lease Sale Schedules	64
The Environmental Implications of Leasing Rates	67
·	68
Data and Analysis ,	68
A Tiered Process	69
Sources of Data	74
Adequacy of Data and Analysis	78
Policy Implications	
Unsuitability Criteria	81
Application of Unsuitability Criteria	81
Analysis	88
Possibilities for Expansion of the Unsuitability Criteria	
Mitigation Requirements	
The Role of Mitigation Requirements	
Origins of Mitigation Requirements	93
Reasons for and Types of Mitigation Requirements	
Summary,	
Deferral of Decisionmaking	
Regional Coal Teams	
Actions by Rats	
RCT Task Groups	112
Role of BLM Within the RCT	
The RCT as a Forum for Public Participation	
Public Participation	114
Public Understanding of the Leasing Process	115
Environmental Issues of Indian Tribes	117
General Environmental Issues and Impacts	
Tribe-Specific Environmental Issues/Impacts	
Leasing on Split Estate and Checkerboard Lands	
Coal Exchanges	130
Types of Exchanges	131
Major Issues	
	126

Appendix A: Environmental Laws	139
Appendix B: Formulas for Determining Regional Leasing Levels	146
Appendix C: Acronyms and Glossary	
Index	153
Tables	
Table No.	Page
I. Lease Sale Schedules	
<ol> <li>Environmental Resources of Coal-Producing Regions</li></ol>	40
4. Summary of Policy Goals and Options	
5.1979 Lease Sale Target Dates	
6. Lease Sale Schedules	
7. BLM Coal Leasing Workload Projections	
8. The Unsuitability Criteria	81
9. Areas Screened Out During Land Use Planning for Round I in Western	
Powder River Basin Due to Unsuitability Criteria or Multiple-Use Tradeoffs	
10. Fort Union Region Known Cultural Sites by Type	86
11. RCT Rankings for Lay Tract Rounds I and II	
13. Number of Tracts for Which Decisions on Unsuitability Criteria Were Deferred	92
Past Land Use Planning	107
14. Summary of Tract Rankings by Regional Coal Tema, Green River-Hams Fork,	
Round I	111
15. Ownership of Surface and Coal Resources in Five Western	
Coal Management Regions	128
16. Summary of Recent Exchange Proposals :	132
Figures	
Figure No.	Page
1. Five Western Coal Regions	
2. Tiered Structure Concept of Data and Analysis	
3. Approximate Overlap Between Coal Leasing Regions and National Forests and	
Other Special Federal Management Areas	14
4. Coal Tracts in Yampa River Basin, Showing Potential for Cumulative	
Hydrological Impacts from Multiple Mine Development	21
5. Example of Split Estate With Minority Federal Ownership	
7. Current Cost Leasing Process	
8. Relation Between Wilderness Study Areas and Coal Tracts in the	07
Northern Portion of the San Juan River Region	48
9. Dunn Center S.E. Tract	65
10. 1979 Land Use Planning Process	
11. Current Land Use Planning Process	
12. Coal Tracts in the Manti-LaSal National Forest	
13. Burns Creek Tract	80
14. Example of Application of Unsuitability Criteria #2 and #3 in Western Powder River Basin Area	
	02
	83
15. Relation Between Coal Tracts in San Juan Region and National Continental	
15. Relation Between Coal Tracts in San Juan Region and National Continental Divide Scenic Trail and Study Corridor	85
<ul> <li>15. Relation Between Coal Tracts in San Juan Region and National Continental Divide Scenic Trail and Study Corridor</li></ul>	85 87
<ul> <li>15. Relation Between Coal Tracts in San Juan Region and National Continental Divide Scenic Trail and Study Corridor</li> <li>16. Stylized Diagram of an Alluvial Valley Floor</li> <li>17. Potential Buffer Zones Resulting from Application of the Wildlife Unsuitability Criteria, Western Powder River Basin</li> </ul>	85 87
<ol> <li>15. Relation Between Coal Tracts in San Juan Region and National Continental Divide Scenic Trail and Study Corridor</li></ol>	85 87 95
<ol> <li>15. Relation Between Coal Tracts in San Juan Region and National Continental Divide Scenic Trail and Study Corridor</li></ol>	85 87 95 118
<ol> <li>15. Relation Between Coal Tracts in San Juan Region and National Continental Divide Scenic Trail and Study Corridor</li></ol>	85 87 95 118 125