

Contents

Summary	III
Chapter 1 Description of Alternatives Including the Proposed Action	1
Purpose of and Need for Action	2
Alternatives Including the Proposed Action	6
Weed Management Treatments and Design Features	7
Comparison of Impacts	11
Implementation	14
Final Decisions	14
Monitoring and Studies	14
Requirements for Further Environmental Analysis	14
Interrelationships	14
Chapter 2 Affected Environment	19
Climate and Air Quality	20
Geology and Topography	20
Soils	20
Water Resources	20
Vegetation	21
Animals	26
Cultural Resources	28
Visual Resources and Recreation	28
Wilderness and Special Areas	30
Economic Conditions	30
Social Environment	31

Chapter 3 Environmental Consequences	35
Impacts on Air Quality	36
Impacts on Soils	36
Impacts on Water Resources	38
Impacts on Vegetation	40
Impacts on Animals	43
Impacts on Cultural Resources	47
Impacts on Visual Resources and Recreation	47
Impacts on Wilderness and Special Areas	48
Impacts on Economic Conditions	48
Impacts on the Social Environment	49
Impacts on Human Health	50
Chapter 4 Consultation and Coordination on the Draft Environmental Impact Statement	57
Introduction	58
Response to Comments	58
Common Issues	58
Specific Written Comments	61
Agencies, Organizations, and Persons to Whom Copies of EIS Are Sent	135
List of Preparers	137
Appendices	139
A Federal Noxious Weed Control Laws	141
B Results of Scoping and Court Briefs	149
C Noxious Weeds and Poisonous Plants of the EIS Area	151
D Distribution and Spread of Selected Noxious Weeds	155
E Susceptibility of Common Weeds to Control by 2,4-D, Dicamba, Picloram, and Glyphosate	161
F Status of Biocontrol Agents in the EIS Area	173
G Terrestrial Plant Susceptability to Tordon, Banvel, and 2,4-D	175
H Annual Acres of Noxious Weed Treatment	177
I Project Design Features	183
J Analysis of Program Costs	187
K Chemical Hazard Assessment	189
L Toxicity of Dioxins in Herbicides Proposed for Use	205
M Toxicity Research Costs	207
N Worst-Case Analysis	
Human Health Effects of Using 2,4-D, Picloram, and Glyphosate	209
O Herbicide Labels	235
Glossary	279
References	287
Index	293
Abbreviations	inside back cover

Tables

1-1	Areas Affected by Noxious Weeds in EIS Area	2
1-2	Estimated Annual Acreage of Weed Treatments by Alternative	6
1-3	Estimated Annual Acreage of Chemical Treatment by Method and Herbicide ..	9
1-4	Summary of Impacts by Alternative	12
1-5	Relationship of Alternatives to State Resource Protection Goals and Concerns	15
2-1	Threatened and Endangered Animals in the EIS Area.....	29
2-2	Annual Recreation Visits on BLM-Administered Land	30
2-3	Population, 1970-1980	31
2-4	Employment and Personal Income	31
3-1	Behavior of Herbicides in Soil	37
3-2	Impacts of Toxic Weeds on Foraging Livestock	44
3-3	Acres Treated, Forage Increases, and Acres Remaining Untreated	49
3-4	Relative Toxicity of Herbicides	52

Maps

	Noxious Weed Control Program General Location Map.....	inside front cover
1-1	Noxious Weed Distribution	
a	Idaho	3
b	Montana	4
c	Oregon	4
d	Washington	5
e	Wyoming	5
2-1	Land Resource Regions for EIS Area	23