

# Table of Contents

PURPOSE AND NEED FOR THE PLAN .....	1
Introduction .....	3
Relationship of the DEIS to BLM Policies, Programs, and other Plans .....	4
Planning Process .....	5
Scoping Process .....	5
Issues .....	6
Other Issues .....	8
Development of Management Strategies and Alternatives .....	8
Summary of Planning Criteria and Considerations .....	8
Federal Land Policy and Management and National Environmental Policy Acts .....	9
Significant Decisions Proposed In the Plan .....	11
What's next in the Planning Process .....	11
 CHAPTER 2 – AFFECTED ENVIRONMENT .....	13
Monument Setting .....	15
Land Ownership .....	16
Ecological Processes and Landscape Health .....	16
Landscape Criteria .....	17
Cultural Resources .....	19
Historical Use .....	19
Archaeological Sites .....	22
Geology .....	23
Soils .....	24
Coarse Woody Debris and Soil Health .....	26
Climate .....	26
Hydrology .....	30
Water Quality .....	34
Water Temperature .....	36
Dissolved Oxygen .....	37
Water Bacteria/Pathogens .....	37
Water Turbidity and Sedimentation .....	37
Aquatic Species and Habitats .....	41
Jenny Creek Watershed .....	41
Aquatic Fauna .....	41
Physical Habitat .....	44
Bear Creek Watershed .....	45
Aquatic Fauna .....	45
Physical Habitat .....	46
Klamath River-Iron Gate Watershed .....	47
Aquatic Fauna .....	47
Physical Habitat .....	48
Cottonwood Creek Watershed .....	49
Aquatic Fauna .....	49
Physical Habitat .....	49
Aquatic Mollusks .....	50
Terrestrial Wildlife .....	51
Special Status Species .....	52
Birds .....	52
Reptiles and Amphibians .....	60
Mammals .....	61
Terrestrial Mollusks .....	62
Special Emphasis Species .....	62

Butterflies .....	62
Deer and Elk .....	63
Vegetation .....	64
Plant Community Groupings .....	65
Diversity Emphasis Area .....	65
Grass, Shrub, Woodland and Meadow Plant Communities .....	66
Ecological Interactions within Diversity Emphasis Area .....	73
Conifer Plant Communities .....	75
Old-Growth Emphasis Area .....	75
Past Timber Management Practices .....	75
Plant Community Description .....	76
Connectivity .....	77
Current Stand Conditions .....	78
Current Stand Condition by Size Classes .....	78
Current Stand Conditions by Ecoregion and LSOG Habitat Types .....	79
Disturbance Agents and Processes .....	79
Forest Insects and Disease .....	79
Insects .....	81
Dwarf Mistletoe .....	81
Other Diseases .....	81
Winds .....	82
Animal Influences .....	82
Disturbance Processes .....	83
Dead Wood .....	85
Snags .....	85
Coarse Woody Debris .....	85
Special Status Plant Species .....	89
Noxious Weeds and Introduced Plants .....	97
Fire and Fuels .....	100
Wildfire History .....	100
Fire Regimes .....	100
Fire Risk .....	102
Fire Hazard .....	102
Fire Suppression .....	103
Fuels Management .....	104
Air Quality .....	104
Transportation System .....	106
Livestock Grazing .....	108
Wild Horses .....	111
Recreation .....	111
Minerals .....	112
Authorized Uses .....	113
Background .....	113
Existing Authorizations .....	113
Visual Resources .....	114
Public Outreach/Education .....	114
Social and Economics .....	115
Introduction: Defining the Affected Area .....	115
The Greensprings/Pinehurst Community .....	117
A Social and Economic Profile of Jackson County .....	123
A Summary of Key Economic Sectors Potentially Affected by CSNM .....	124
A Summary of Social and Economic Trends .....	128

CHAPTER 3 – ALTERNATIVES .....	131
Designated Areas and Zones .....	133
Wilderness Study Area .....	133
Research Natural Areas .....	134
Diversity Emphasis Area .....	134
Old-Growth Emphasis Area .....	135
Proposed Alternatives .....	136
Rationale for the Preferred Alternative .....	136
ALTERNATIVE A – No Action Alternative .....	137
Vegetation Management .....	137
Special Forest Products .....	137
Management of the Transportation System .....	137
Mechanized Recreation .....	138
Non-Mechanized Recreation .....	138
Recreational Animal Stock Use .....	138
Visitor Facilities .....	139
Management of Linear Rights-of-Way and Communication Sites .....	139
ALTERNATIVE B .....	140
Vegetation Management within the Diversity Emphasis Area .....	140
Vegetation Management Strategy .....	140
Vegetation Management of Old-Growth Emphasis Area .....	141
Special Forest Products .....	142
Transportation System .....	142
Mechanized Recreation .....	143
Non-Mechanized Recreation .....	143
Recreational Animal Stock Use .....	144
Visitor Facilities .....	144
Management of Linear Rights-of-Way and Communication Sites .....	145
ALTERNATIVE C .....	145
Vegetation Management in the Diversity Emphasis Area .....	145
Vegetation Management Strategy .....	146
Vegetation Management in the Old-Growth Emphasis Area .....	150
Special Forest Products .....	152
Transportation System .....	152
Mechanized Recreation .....	153
Non-Mechanized Recreation .....	153
Recreational Animal Stock Use .....	154
Visitor Facilities .....	154
Linear Rights-of-Way and Communication Sites .....	155
ALTERNATIVE D .....	156
Vegetation Management in the Diversity Emphasis Area .....	156
Vegetation Management Strategy .....	156
Vegetation Management in the Old-Growth Emphasis Area .....	156
Special Forest Products .....	157
Transportation System .....	158
Mechanized Recreation .....	158
Non-Mechanized Recreation .....	159
Recreational Animal Stock Use .....	159
Visitor Facilities .....	160
Management of Linear Rights-of-Way and Communication Sites .....	160
Management Common To All Alternatives .....	160
Monument Aquatic Conservation Strategy .....	160
Land Tenure Adjustments .....	162
Issues and Actions Considered But Eliminated From Analysis .....	170
Monitoring .....	171
Limits of Acceptable Change .....	171

<b>CHAPTER 4 - ENVIRONMENTAL CONSEQUENCES .....</b>	173
INTroduction .....	175
Environmental Consequences .....	175
Ecological Processes and Landscape Health .....	176
Cultural Resources.....	179
Soils .....	181
Hydrology .....	184
Water Qualtiy .....	187
Aquatic and Riparian Habitat .....	190
Vegetation .....	203
Grasslands.....	203
Shrublands .....	204
Woodlands .....	204
Wetlands, Riparian Vegetation, Floodplains, Springs and Seeps .....	204
Landscape Values and Processes .....	205
Visitor Impact .....	205
Counteract Noxious (and other) Weed Invasion.....	205
Maintain/Improve Plant Community Richness .....	205
Maintain/Improve Plant Community Balance of Conditions .....	205
Reintroduce Fire as an Ecosystem Process .....	206
Protect/Maintain Biological Elements for Which the Monument Was Proclaimed .....	206
Forest Health (Old-Growth Emphasis Area) .....	208
Relative Trends for Disturbance Agents .....	211
Potential Timber Volume Yields as a result of Commercial Thinning .....	212
Special Forest Products .....	213
Bureau Special Status Plants (Rare Plants).....	213
Affects of the Alternatives on Special Status Plants .....	217
Analysis of Features Common to All Alternatives that Affect Rare Plants .....	225
Fuels Management .....	229
Wildfire Suppression .....	230
Air Quality .....	232
Transportation System .....	233
Recreational Use .....	234
Mechanized Recreation .....	234
Non-Mechanized Recreation .....	234
Recreational Animal Stock Use .....	236
Impacts to Wilderness Opportunities .....	236
Land Use Authorizations.....	237
Minerals .....	239
Social and Economics .....	239
Community Effects .....	239
Environmental Justice .....	247
Monument Designation Effects .....	247
<b>CHAPTER 5 - CONSULTATION AND COORDINATION .....</b>	257
Summary of Scoping .....	259
Key Issues and Concerns .....	260
Planning Consistency .....	260
Federal Agencies .....	260
State Government .....	261
<u>DEIS Distribution List and Availability on the Internet .....</u>	<u>270</u>

*Summary*

LIST OF PREPARERS .....	275
Glossary of Terms .....	277
References .....	291

