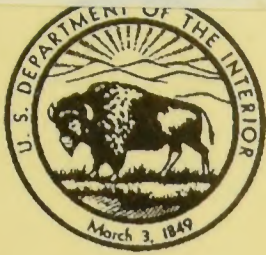




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U.S. Department of the Interior
Bureau of Land Management

Roseburg District Office
777 N.W. Garden Valley Blvd.
Roseburg, Oregon 97470

February 1991



Summary of the Analysis of the Management Situation

Roseburg District Office Resource Management Plan

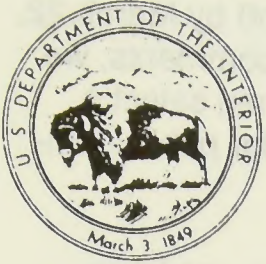


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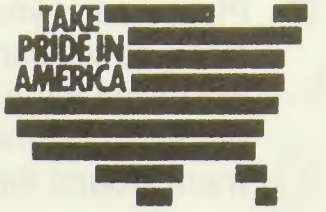
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February 1991

Dear Concerned Citizen:

As a continuing part of BLM's Resource Management Planning (RMP) process we are enclosing the following material for your information and review. More specifically, this booklet contains a summary of the analysis of the management situation (AMS) for the resource management plan/environmental impact statement (RMP/EIS) we are preparing. The AMS pulls together important information about existing resource conditions, uses and demands, management activities, natural relationships and management opportunities. It provides the baseline for subsequent steps in the planning process, such as design of alternatives and analysis of environmental consequences. The AMS also provides most of the data that will be summarized in the "affected environment" chapter of the (RMP/EIS). This AMS Summary highlights AMS information. The maps included in it are not detailed due to limitations of scale. More detailed maps and the entire AMS are available for review in the Roseburg District office.

Your comments on the information in this AMS Summary or the complete AMS will help us verify its accuracy. If you think we have overlooked or incorrectly described any important information about BLM resources relevant to development of the plan, please let us know.

The Timber Resources section in this document is incomplete. The omitted information will be sent out in a supplemental mailer in early 1991 *only to those who request it*. The supplement will include calculations for the highest potential sustained yearly timber sale volume, economic efficiency analyses for several silvicultural practices, acreage summaries for each silvicultural practice used to determine annual sustained yield volume, and a summary of sensitivity analyses that will depict the effect that various management practices and/or constraints would have on sustained yield harvest levels.

In addition to comments on the AMS, we are also interested in your suggestions on criteria for formulation of the preferred alternative. At the back of this booklet, in Appendix 3, State Director guidance sets forth goals, objectives and criteria for five "common" alternatives we and the other western Oregon districts propose to analyze in each of our RMP/EIS's. We will also analyze a no action (no change) alternative and a yet to be selected preferred alternative which may combine elements from several of these alternatives. If one of the alternatives outlined already fits your objective for a preferred alternative, please let us know. Or you may wish instead to suggest a new preferred alternative blending elements of the common alternatives, continuation of specific parts of current management direction, or implementation of specific management opportunities identified in the AMS Summary or AMS itself. Feel free to specify other management opportunities you believe are relevant and are not identified in the AMS Summary or AMS.

The BLM must choose a preferred alternative which complies with legal requirements applicable to management of the lands it administers. Therefore, in presenting your suggestions for preferred alternative criteria, it would be helpful if you would relate how your suggested criteria would achieve legally required BLM objectives. For most BLM-administered lands in western Oregon, general management objectives are contained primarily in the O&C Act and the Federal Land Policy and Management Act (FLPMA).

A worksheet for your use in commenting on the AMS and/or providing suggestions about the preferred alternative is inserted in the middle of this booklet. It is intended to organize comments in a consistent format and improve efficiency in their use by BLM.

Please send your comments to the Roseburg District Office (whether you use the insert or not) by March 22, 1991, so we can consider them as we move ahead with our planning effort. After reviewing comments, we will revise the AMS as appropriate, finish formulating alternatives, analyze their effects and then select a preferred alternative. The Draft RMP/EIS reflecting these revisions and steps will be issued for public comment around the end of 1991.

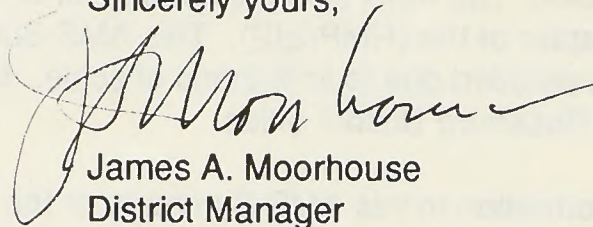
For those who wish to discuss the information in this booklet or the proposed plan alternatives, we have scheduled the following informal open house:

Tuesday, March 5, 1991
Roseburg District Office
1-4 and 7-9 pm

BLM staff will be available at the open house to answer questions and assist you in the preparation of comments.

Thanks for your help with this part of the planning effort. We look forward to your continuing interest and participation.

Sincerely yours,



James A. Moorhouse
District Manager

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Introduction

This summary of the Analysis of the Management Situation (AMS) summarizes important information about existing resource conditions, uses, and demands, as well as management activities identified in the AMS. It provides the baseline for subsequent steps in the planning process, such as the design of alternatives and analysis of environmental consequences. It also summarizes AMS sections on substantial opportunities for maintaining or enhancing resources BLM manages and quantifies data where available information permits.

Preparation of the AMS involved the use of automated resource data contained in the western Oregon digital data base (WODDB) and supporting Geographic Information System (GIS) technology.

Note: Throughout the document there are minor discrepancies in acreage between some of the tables. This is a result of rounding and the GIS system used to compile information. The differences are generally inconsequential, involving less than 1 percent (%) change.

The Planning Area

The Roseburg resource management plan/environmental impact statement (RMP/EIS) will analyze impacts associated with management of 423,928 acres of public land and 1,717 acres of subsurface mineral estate where the Bureau of Land Management (BLM) is the administering agency. This land is located in Douglas, Lane, and Jackson counties in western Oregon as shown in Table 1.

The general location of the planning area is noted by Map 1. Map 2 shows general land status within the planning area, and delineates the resource area and master unit boundaries.

Portions of the Umpqua National Forest comprise the other major federal lands within the planning area.

Review Of Existing Decisions

Existing decisions and information in related environmental documents have been reviewed to determine which remain valid and may be used for continued implementation through the 1990s. This review followed the requirements of BLM Manual 1618.2.

Not included in the review were existing right-of-way agreements, leases, permits, etc., which constitute valid existing rights through the 1990s.

Table 2 summarizes decisions which we have determined may be carried forward for continued implementation through the 1990s without further environmental analysis. These decisions will be common to all alternatives, and will be restated or summarized to incorporate them into the RMP.

Table 3 summarizes decisions which, although determined to be valid for continued implementation through the 1990s, have not been addressed in an EIS or fully supported in terms of analysis. These valid decisions will also be common to all alternatives, but they will be analyzed in the environmental consequences section of the EIS. Any existing decisions not included in Tables 2 and 3 will be replaced by new decisions in the RMP.

Air Resources

Congress passed the Clean Air Act in 1967 and amendments to the Act in 1972, 1977, and 1990. This law gives the State responsibility for administration and enforcement of air quality standards along with visibility standards in Class I areas through the State Implementation Plan (SIP). (Class I areas are special areas protected for their air quality related values during the period of high recreational use; specifically, Crater Lake National Park and certain wilderness areas.) The SIP also specifies a 22% reduction in emissions (compared with 1982-1984 emissions) by the end of the year 2001, with a review in 1990 to determine whether or not "reasonable progress" has been made. The State Visibility Protection Plan, adopted in 1986, substantially constrains slash burning from July 4 through Labor Day, to reduce the frequency of visibility impairment in Class I areas.

The Oregon Smoke Management Plan, which is companion to the SIP, classified certain areas as "designated areas" and "smoke sensitive areas". The current management plan requires that prescribed burning (which is primarily slash burning) be done only when atmospheric conditions prevent smoke from deteriorating air quality of these areas.

Map 3 shows "designated areas". These are Class I areas (wilderness areas over 10,000 acres), and Class II areas with potential of becoming Class I areas that also have the potential of being affected by the District's prescribed burning activities. Non-attainment areas (areas not in compliance with air

Table 1. BLM-Administered Acreage in the Roseburg District by County

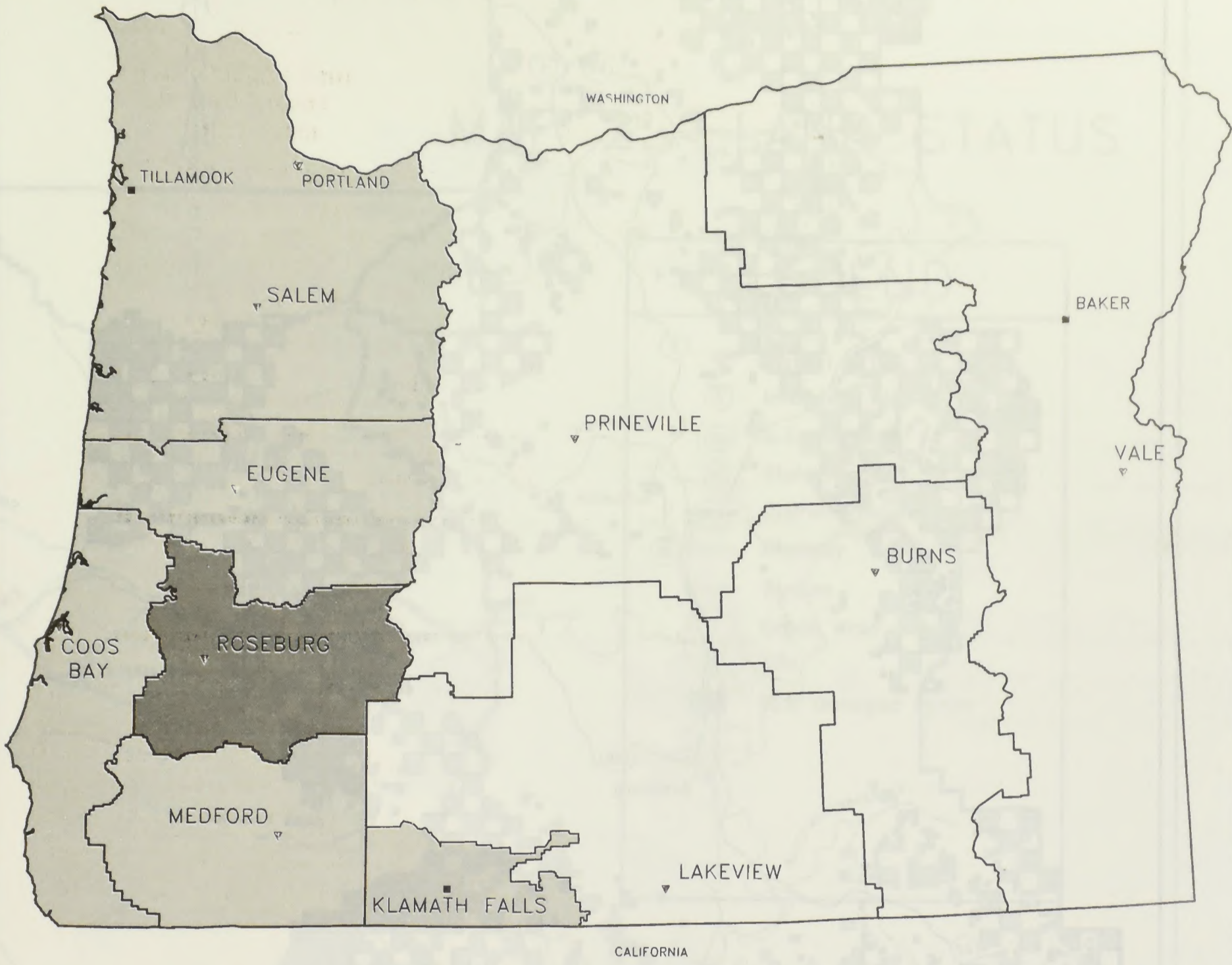
County	Public Land Administered by BLM (acres)			Total	Non-Federal Surface/ Federal Mineral Estate (acres)
	O&C ¹	CBWR ²	Public Domain		
Lane	280	0	0	280	0
Jackson	320	0	0	320	0
Douglas	390,978	13,924	18,427	423,328	1,717
Total	391,578	13,924	18,427	423,928	1,717

¹Public lands granted to the Oregon and California Railroad Company and subsequently reverted to the United States.

²Coos Bay Wagon Road Lands - Public lands granted to the Southern Oregon Company and subsequently reconveyed to the United States.

Table 2. Existing Decisions to be Carried Forward for Continued Implementation without Further Analysis.

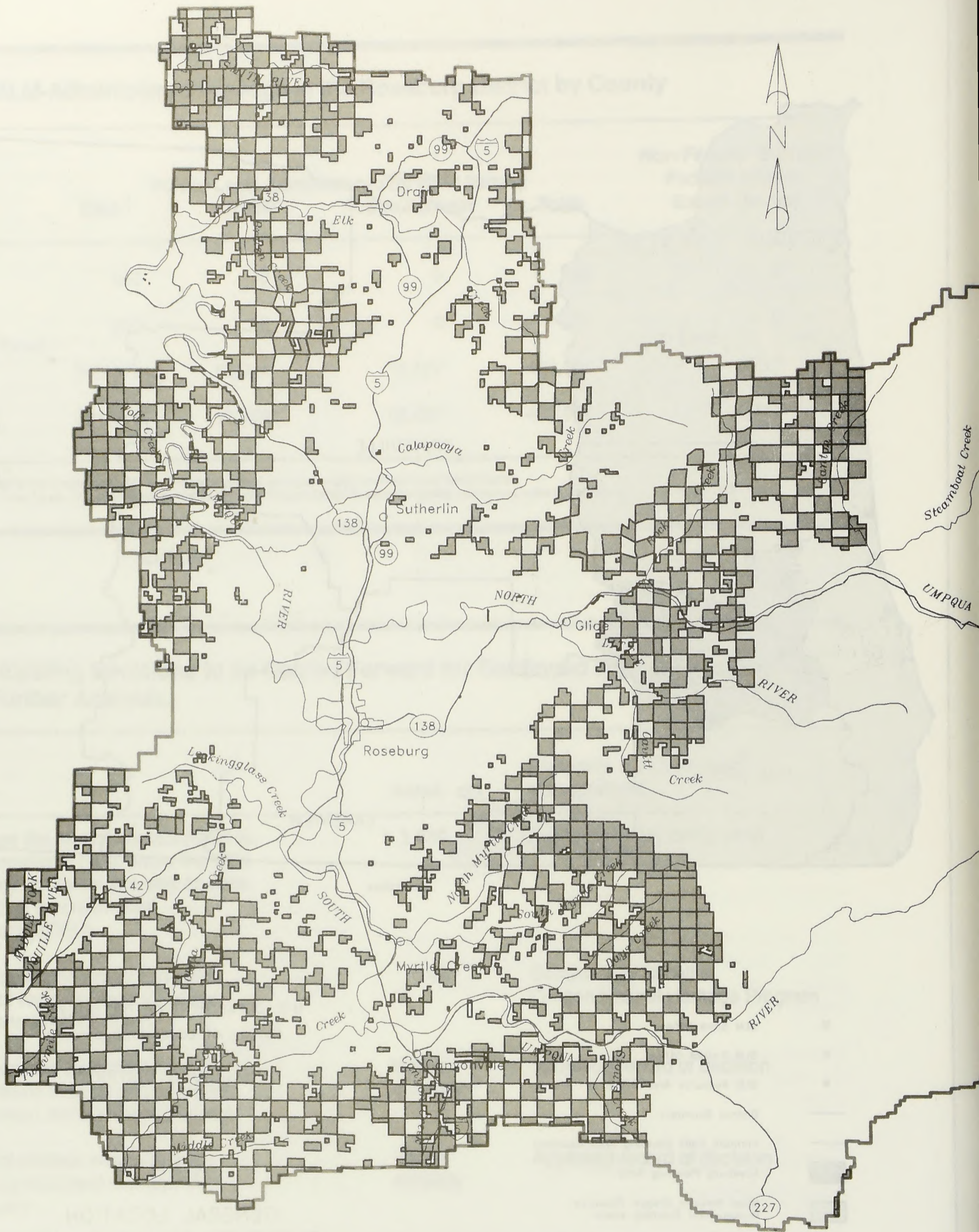
Decision	Acres	Rationale for Continued Management
1. Manage the North Umpqua River as a Recreational River under the Wild and Scenic Rivers Act, and an Area of Critical Environmental Concern (ACEC)	1,620	Congressionally designated
2. Manage Myrtle Island Research Natural Area, an Area of Critical Environmental Concern	28	Continues to fill cell in Oregon Natural Heritage Program
3. Prepare and maintain forest plantations through an integrated vegetation management program	Varies annually	Approved record of decision
4. Control noxious weeds through an integrated pest management approach	Varies annually	Approved record of decision



- ⊙ BLM State Office
- ▼ BLM District Office
- BLM Resource Area Office
- District Boundary
- Klamath Falls Planning Area Boundary
- Roseburg Planning Area
- Other Western Oregon Resource Management Planning Areas

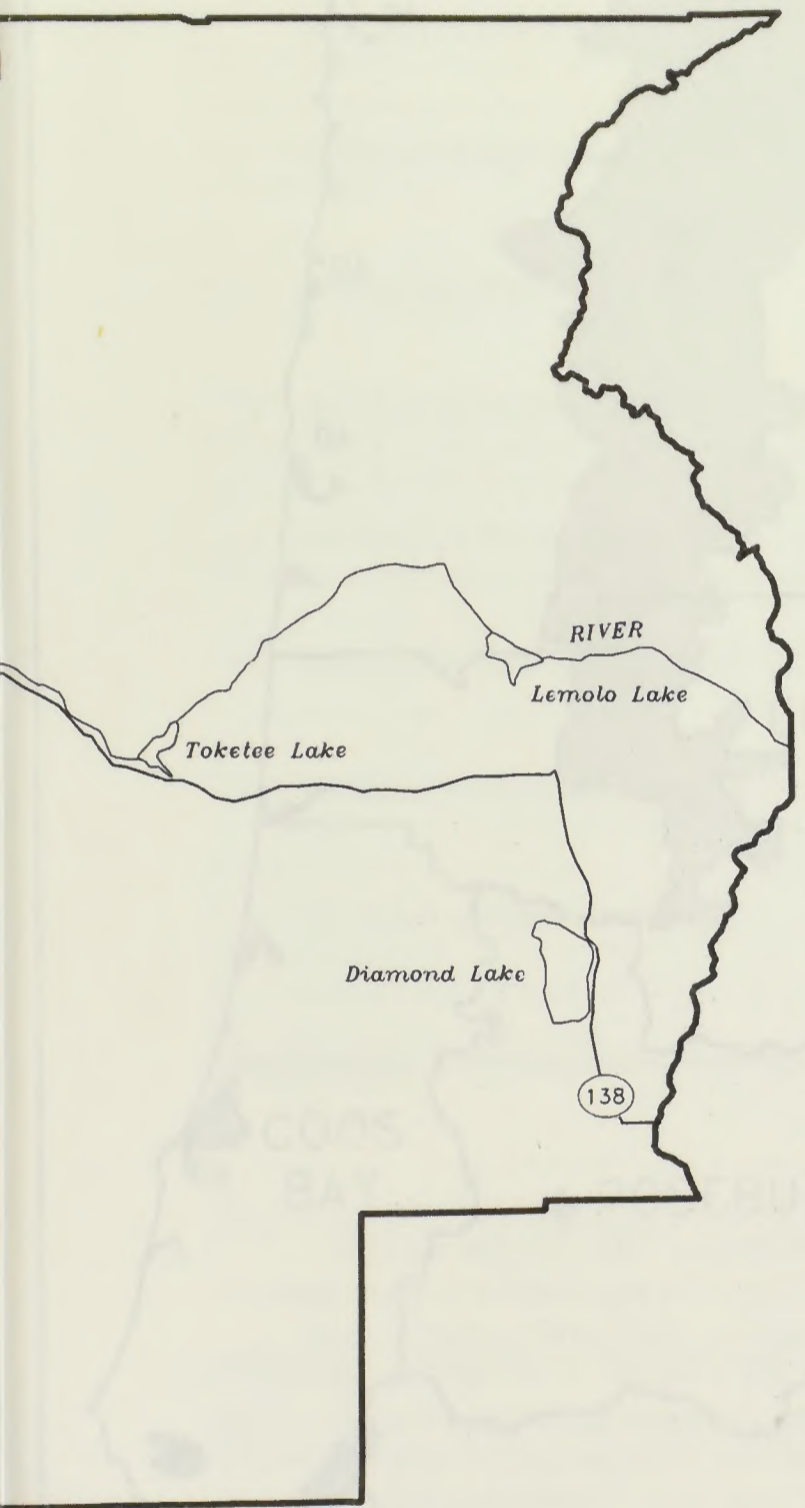
U.S. DEPARTMENT OF THE INTERIOR
 Bureau of Land Management
 ROSEBURG DISTRICT
 MAP 1
 GENERAL LOCATION
 ROSEBURG PLANNING AREA





ROSEBURG DISTRICT
1990 AMS SUMMARY

MAP 2: LAND STATUS



LEGEND

- District Office
- Interstate Highway
- U.S. Highway
- State Highway
- District Boundary
- Highway
- Stream
- Urban Area
- City
- BLM Managed Lands

ROSEBURG DISTRICT
1890 AMS SURVEY

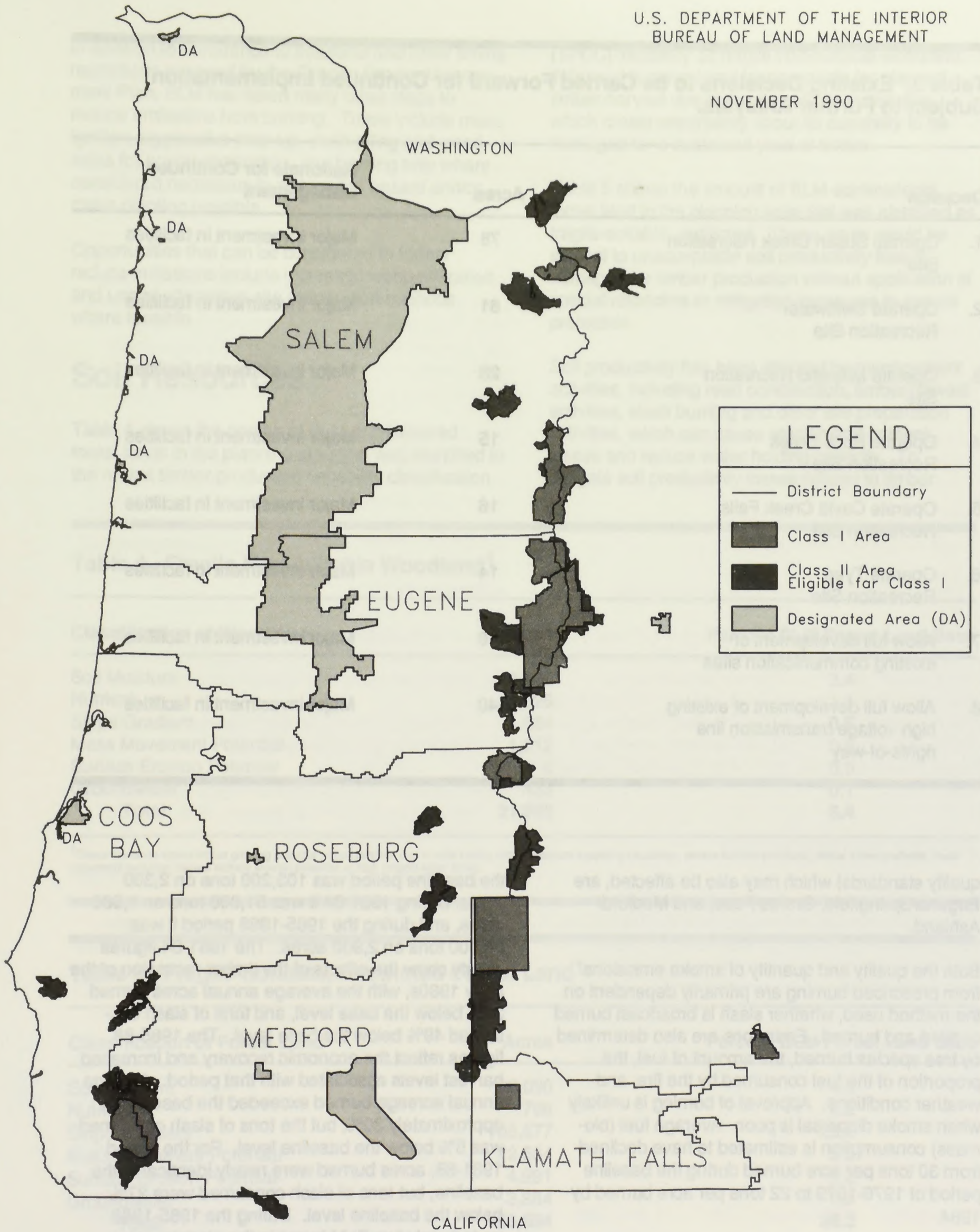
MAP 2: LAND STATUS

LEGEND

Water	Blue
Interagency	Green
U.S. Forest	Yellow
State	Pink
Dept. of Agriculture	Light Blue
Highway	Black
Stream	Blue
Range Area	Light Green
City	Black
Wild Monkeys	Dark Green



NOVEMBER 1990



MAP 3: SENSITIVE AIR QUALITY AREAS

Table 3. Existing Decisions to be Carried Forward for Continued Implementation Subject to Further Analysis.

Decision	Acres	Rationale for Continued Management
1. Operate Susan Creek Recreation Site	78	Major investment in facilities
2. Operate Swiftwater Recreation Site	61	Major investment in facilities
3. Operate Millpond Recreation Site	28	Major investment in facilities
4. Operate Rock Creek Recreation Site	15	Major investment in facilities
5. Operate Cavitt Creek Falls Recreation Site	16	Major investment in facilities
6. Operate Tyee Recreation Site	14	Major investment in facilities
7. Allow full development of existing communication sites	6	Major investment in facilities
8. Allow full development of existing high voltage transmission line rights-of-way	540	Major investment in facilities

quality standards) which may also be affected, are Eugene/Springfield, Grants Pass, and Medford/Ashland.

Both the quality and quantity of smoke emissions from prescribed burning are primarily dependent on the method used, whether slash is broadcast burned or piled and burned. Emissions are also determined by tree species burned, the amount of fuel, the proportion of the fuel consumed by the fire, and weather conditions. Approval of burning is unlikely when smoke dispersal is poor. Average fuel (biomass) consumption is estimated to have declined from 30 tons per acre burned during the baseline period of 1976-1979 to 22 tons per acre burned by 1984.

Due to burning restrictions, the acreage of slash burned has generally declined in recent years. Average annual District slash consumption during

the baseline period was 103,200 tons on 2,300 acres. During 1981-84 it was 51,000 tons on 1,500 acres, and during the 1985-1988 period it was 98,000 tons on 2,900 acres. The 1981-84 figures clearly show the effects of the timber recession of the early 1980s, with the average annual acres burned 32% below the base level, and tons of slash consumed 49% below the base level. The 1985-88 figures reflect the economic recovery and increased harvest levels associated with that period. Average annual acreage burned exceeded the baseline by approximately 30%, but the tons of slash consumed was 5% below the baseline level. For the period 1981-88, acres burned were nearly identical to the baseline, but tons of slash consumed were 27% below the baseline level. During the 1985-1988 period, only two BLM burns in the planning area caused smoke intrusions into designated areas.

In addition to adherence to seasonal and other timing restrictions imposed by the Oregon Smoke Management Plan, BLM has taken many other steps to reduce emissions from burning. These include mass ignition, aggressive mop-up, slash piling and wood sales for power generation, and burning only where considered necessary to reduce fire hazard and/or make planting possible.

Opportunities that can be considered to further reduce emissions include increased wood utilization and use of alternative site preparation methods where feasible.

Soil Resources

Table 4 shows the portion of BLM-administered forest lands in the planning area that was identified in the recent timber production capability classification

(TPCC) inventory as fragile non-suitable woodland. This land is considered inappropriate for planned timber harvest due to fragile soil characteristics which create uncertainty about its capability to be managed for a sustained yield of timber.

Table 5 shows the amount of BLM-administered forest land in the planning area that was identified as fragile-suitable, restricted. These areas would be subject to unacceptable soil productivity loss if managed for timber production without application of special restrictive or mitigation measures to assure protection.

Soil productivity has been affected by management activities, including road construction, timber harvest activities, slash burning and other site preparation activities, which can cause erosion and nutrient losses and reduce water holding capacity. To mitigate soil productivity losses related to timber

Table 4. Fragile Non-suitable Woodland¹

Classification of Woodland	Acres	Percent BLM Forest Land Base
Soil Moisture	13,965	3.4
Nutrient	4,525	1.1
Slope Gradient	1,834	0.5
Mass Movement Potential	1,212	0.3
Surface Erosion Potential	0	0.0
Groundwater	433	0.1
Total	21,969	5.4

¹These are lands where timber growing potential will be reduced due to soils having critical moisture supplying capacities, severe nutrient problems, critical slope gradients, mass movement potential, severe surface erosion potential, or high ground water levels.

Table 5. Fragile-Suitable, Restricted Forest Land¹

Classification of Forest Land	Acres	Percent BLM Forest Land Base
Soil Moisture	20,090	4.9
Nutrient	768	0.2
Slope Gradient	105,577	25.6
Mass Movement Potential	22,584	5.5
Surface Erosion Potential	4,991	1.2
Groundwater	3,884	0.9
Total	156,894	38.3

¹These are lands where the timber growing potential may be reduced due to the soils having critical moisture supplying capacities, severe nutrient problems, critical slope gradients, mass movement potential, severe surface erosion potential, or high ground water levels.

harvest and site preparation, the District has applied standards to limit the area of soil compaction to 10% of a harvested unit, and has employed one or more of the following practices, where appropriate:

- designation of skid trails.
- ripping of skid trails after logging.
- limiting tractor yarding to the dry season.
- requiring one-end or full log suspension when cable yarding.
- prescribed burning when the duff is moist, to achieve cool burns.
- using alternatives to broadcast burning.
- putting unsurfaced roads “to bed”.
- seeding, mulching and fertilizing road cutbanks, fill slopes and landings.
- leaving large down woody debris on site.

Current management practices have not, however, entirely eliminated soil productivity losses caused by management activities. Opportunities to further reduce or mitigate those losses include: expansion of practices already employed, extending rotation ages on the poorer site classes, and artificial drainage of areas other than wetlands having imperfectly drained soils.

Water Resources

In order to describe existing conditions, and to analyze the impacts of management, the District has been divided into analytical watersheds. These areas were selected according to topography and basin size, with logical boundaries used to break up large basins into analytical units.

Table 6 identifies the analytical watersheds in the Roseburg District, summarizing the acres, percent of BLM managed land, and miles of stream by order. Analytical watersheds are also shown on Map 4.

Community water systems drawing water from watersheds including BLM-administered lands in the planning area, are shown in Table 7 and on Map 4.

The Oregon Department of Environmental Quality (DEQ) has identified the South Umpqua River, which flows through BLM land, as water quality limited and

unable to meet all beneficial uses. The total watershed is 1,800 square miles, of which 17% is BLM-administered land.

Where monitored, the Umpqua River drainage fails to meet State water quality standards for temperature. This makes activities which remove shade from streams, including timber harvesting, particularly sensitive.

Groundwater is used throughout the planning area for irrigation, domestic, and municipal use. Groundwater supplies in the Umpqua basin are highly variable and limited, but water quality is generally good, except for a few local problems with mineralization, arsenic, and pollution of shallow aquifers.

Water quality is affected by a number of management activities on BLM-administered land, including road construction, timber harvest, and slash disposal, all of which may affect stream temperature, dissolved oxygen concentrations, and chemical quality of surface water. Herbicide spraying and fertilization may also affect chemical quality of surface water.

In order to maintain and protect water quality, as required by law, the District has adopted the following requirements for management activities:

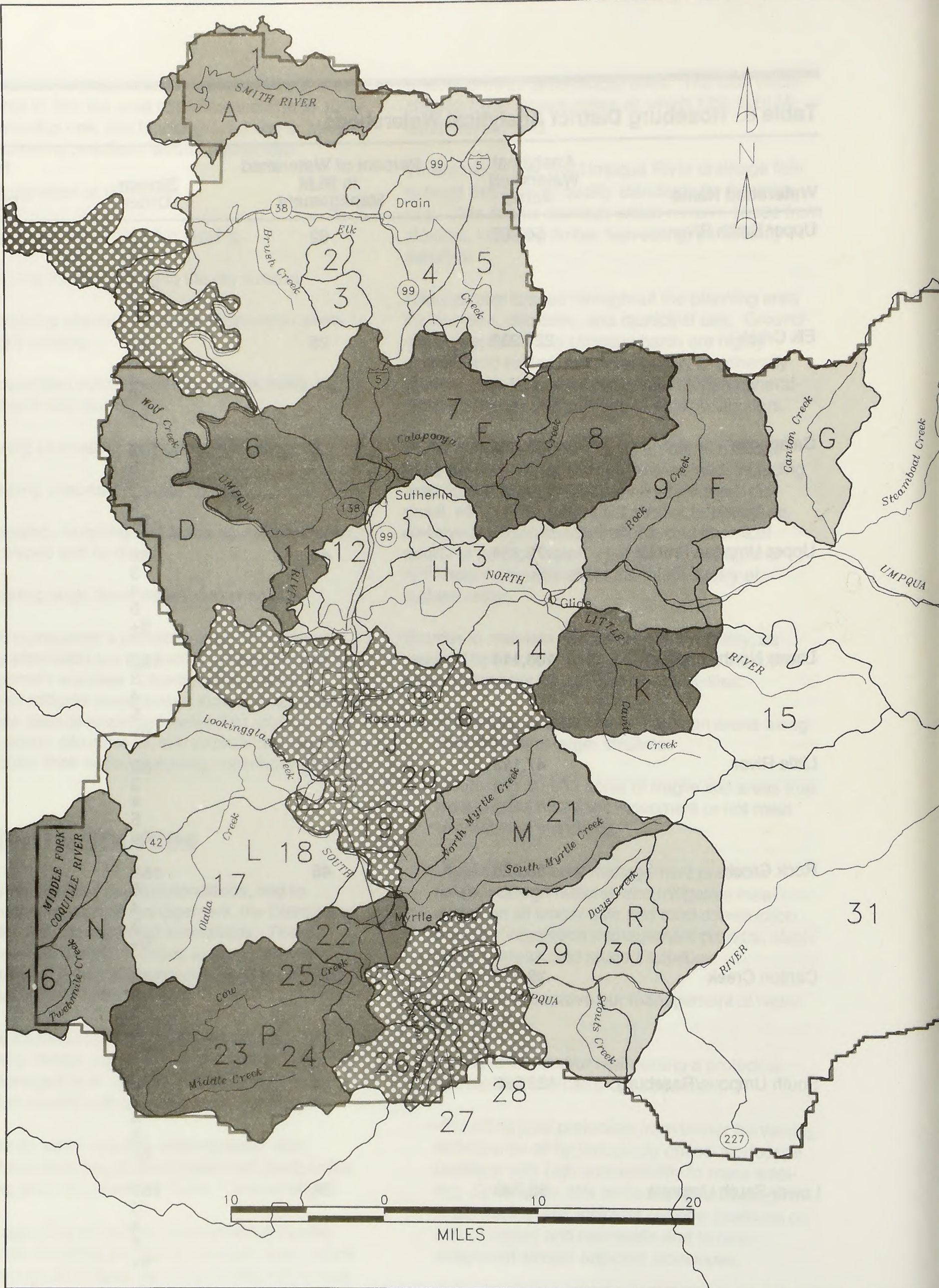
- Protecting 18,300 acres of riparian areas along third order and larger streams.
- Protecting 10,900 acres of fragile soil areas that would cause mass soil movement or not meet reforestation standards.
- Application of best management practices (project design features and mitigative measures) on all timber sale and road construction projects, vegetation management projects, slash burning areas, and related activities.

Opportunities to improve our management of water quality include:

- Establishing and/or maintaining a protective riparian buffer on all order streams.
- Providing total protection from timber harvesting activities for all hydrologically critical landscape positions with high susceptibility to mass wasting. Specifically, this protection should be given to all channel and incipient channel positions on critical slopes and headwalls and to over-steepened stream adjacent sideslopes.

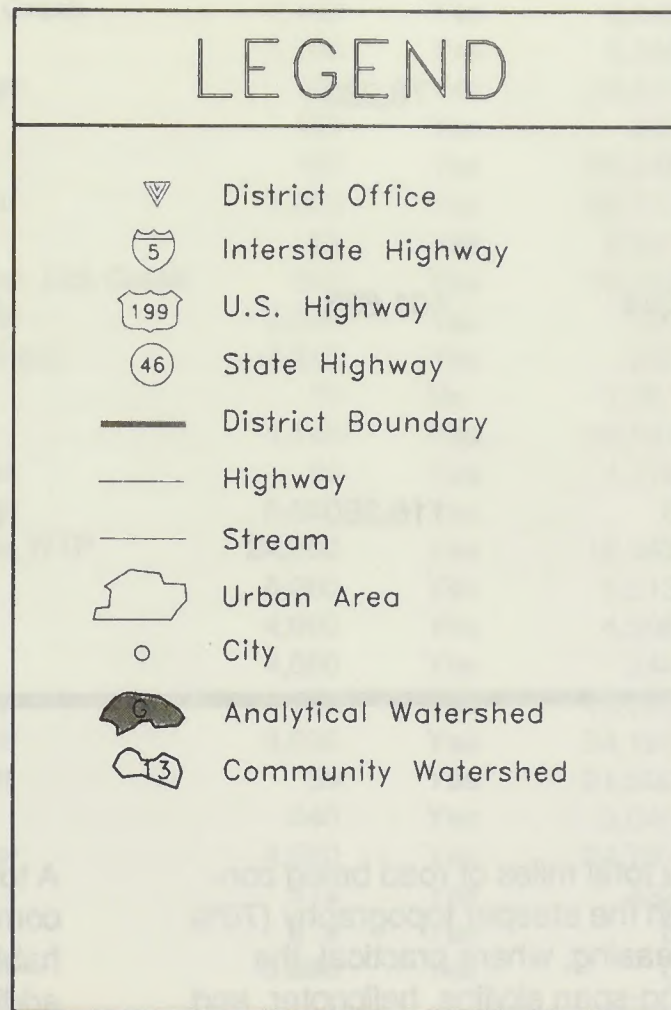
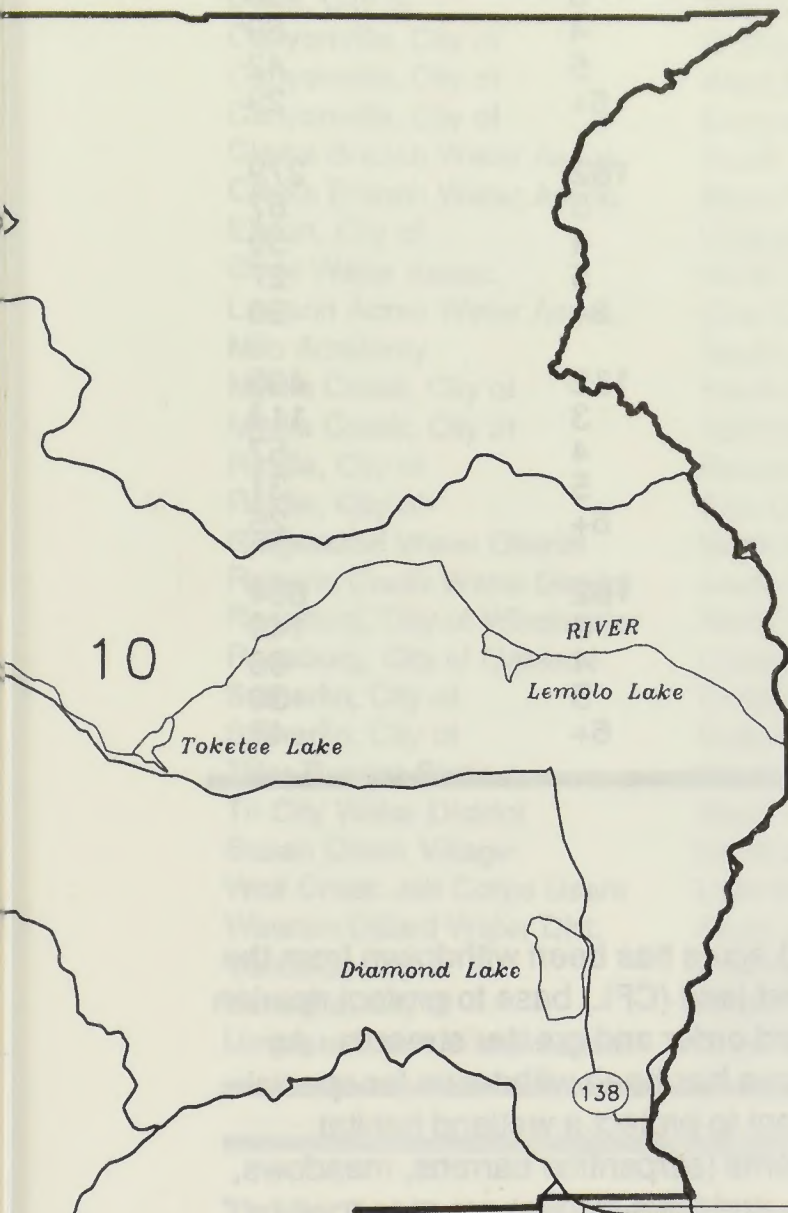
Table 6. Roseburg District Analytical Watersheds

Watershed Name	Analytical Watershed Acres	Percent of Watershed In BLM Management	Stream Order	Miles of Stream
Upper Smith River	50,907	62	1&2	309
			3	65
			4	31
			5	27
			6+	23
Elk Creek	224,236	25	1&2	1,240
			3	246
			4	126
			5	71
			6+	74
Calapooya	183,661	8	1&2	414
			3	153
			4	76
			5	38
			6+	26
Upper Umpqua Frontal	79,384	46	1&2	176
			3	85
			4	40
			5	22
			6+	26
Lower North Umpqua	108,114	4	1&2	96
			3	40
			4	15
			5	8
			6+	1
Little River	47,113	37	1&2	144
			3	42
			4	16
			5	11
			6+	19
Rock Creek	88,925	46	1&2	239
			3	97
			4	36
			5	12
			6+	24
Canton Creek	39,477	45	1&2	235
			3	35
			4	16
			5	8
			6+	11
South Umpqua/Roseburg	122,868	4	1&2	95
			3	42
			4	21
			5	5
			6+	12
Lower South Umpqua	65,740	38	1&2	321
			3	76
			4	30
			5	26
			6+	27



ROSEBURG DISTRICT 1990 AMS SUMMARY

MAP 4: ANALYTICAL AND COMMUNITY WATERSHEDS



Analytical and Community Watersheds Key

- | | |
|--------------------------------|------------------------------------|
| A = Upper Smith River | J = South Umpqua-Roseburg |
| B = Middle Umpqua Frontal | K = Little River |
| C = Elk Creek-Roseburg | L = Olalla-Lookingglass |
| D = Upper Umpqua | M = Myrtle Creek |
| E = Calapaoyo | N = Middle Fork Coquille |
| F = Rack Creek | P = Caw Creek |
| G = Conton Creek | Q = Lower South Umpqua |
| H = Lower North Umpqua | R = Upper South Umpqua |
| 1 = Upper Smith River | 17 = Winston-Dillard-South Umpqua |
| 2 = Droin-Bear Creek | 18 = Roberts Creek-South Umpqua |
| 3 = Drain-Billy Creek | 19 = Myrtle Creek Springs |
| 4 = Yoncallo-Wilson Creek | 20 = Clarks Branch-Bilger |
| 5 = Adams Creek | 21 = Clarks Branch-South Umpqua |
| 6 = Elkton-Umpqua | 22 = Myrtle Creek-South Umpqua |
| 7 = Roseburg-Oakland Cal | 23 = Riddle-Caw Creek |
| 8 = Sutherlin-Colapooyo | 24 = Riddle-Russell Creek |
| 9 = Glide-North Umpqua | 25 = Lawson Acres-Caw Creek |
| 10 = North Umpqua-Susan Creek | 26 = Conyanville-W.F. Canyon Creek |
| 11 = Umpqua Bosin-North Umpqua | 27 = Canyonville-Canyon Creek |
| 12 = Ridgewood-North Umpqua | 28 = Conyanville-O'Sheo Creek |
| 13 = Sutherlin-Cooper Creek | 29 = Tri City-South Umpqua |
| 14 = Roseburg/Winchester | 30 = Milo Academy-South Umpqua |
| 15 = Wolfcreek-Jobcorps L | 31 = Tiller Ranger Station |
| 16 = Coquille River | 32 = Medford-Rogue River |

Table 6. Roseburg District Analytical Watersheds

Watershed Name	Analytical Watershed Acres	Percent of Watershed in BLM Management	Stream Order	Miles of Stream
Olalla/Lookinglass	134,934	24	1&2	433
			3	130
			4	69
			5	42
			6+	29
Myrtle Creek	76,230	41	1&2	279
			3	87
			4	50
			5	27
			6+	26
Upper South Umpqua	101,693	43	1&2	465
			3	114
			4	57
			5	31
			6+	25
Cow Creek	116,250	36	1&2	694
			3	140
			4	66
			5	36
			6+	43

—Minimizing the total miles of road being constructed through the steeper topography (70% slopes) by increasing, where practical, the utilization of long-span skyline, helicopter, and balloon logging systems, which require substantially less area in roads than conventional systems.

—Using cumulative watershed effects analysis (CWEA) to predict the impacts of various management practices and defer harvest of timber where CWEA shows a high likelihood of damage to stream channels.

A total of 18,300 acres has been withdrawn from the commercial forest land (CFL) base to protect riparian habitat along third order and greater streams. An additional 85 acres has been withdrawn for special area management to protect a wetland habitat. Unique ecosystems (serpentine barrens, meadows, bogs, rock cliffs, and talus slopes) are managed as priority plant and animal habitat and as special areas and are discussed within the context of these topics in this summary.

Noxious weeds that are known to occur on BLM administered lands in the planning area include rush skeletonweed, tansy ragwort, gorse, Canada thistle, scotch broom, and St. John's wort.

Vegetation

Current management objectives and priorities address vegetation in terms of upland vegetation, aquatic vegetation occurring in wetland and riparian habitats, unique ecosystems, priority plants, and noxious weeds. Upland vegetation within the planning area has been divided into five plant groups. Table 8 shows the acres of these five plant groups by seral stage.

Priority plant species known or suspected to occur on BLM administered lands in the planning area are presented in Table 9. Over 60,000 acres of the District have been surveyed for priority plants since 1980. Eight species have been documented at 25 locations on 216 acres (indicated by asterisk in Table 9).

Table 7. Municipal/Community Water Systems

Community System Name	Source Watershed	Population Served (Number)	Status of Filter	Watershed Area (Ac)		
				BLM	Other	Total
Drain, City of	Bear Creek, Allen Creek	1,200	Yes	1,423	2,973	4,396
Drain, City of	Billy Creek	1,200	Yes	2,695	4,613	7,308
Canyonville, City of	O'Shea Creek	1,100	Yes	2,289	2,866	5,155
Canyonville, City of	West Fork Canyon Creek	1,100	Yes	5,645	7,508	13,154
Canyonville, City of	Canyon Creek	1,100	Yes	6,569	2,722	9,291
Clarks Branch Water Assoc.	South Umpqua River	145	Yes	29,935	50,600	80,019
Clarks Branch Water Assoc.	Bilger Creek	145	Yes	285	553	838
Elkton, City of	Umpqua River	180	Yes	96,848	340,456	437,304
Glide Water Assoc.	North Umpqua River	1,000	Yes	38,777	54,303	93,080
Lawson Acres Water Assoc.	Cow Creek	55	Yes	2,241	4,550	6,791
Milo Academy	South Umpqua River, Lick Creek	310	Yes	10,396	12,490	22,886
Myrtle Creek, City of	South Umpqua River	3,245	Yes	250	3,480	3,700
Myrtle Creek, City of	Springbrook (5 Springs)	3,245	Yes	235	1,101	1,336
Riddle, City of	Russell Creek	75	No	1,791	1,592	3,383
Riddle, City of	Cow Creek	1,145	Yes	36,591	57,038	93,629
Ridgewood Water District	North Umpqua River	80	Yes	1,278	25,951	27,235
Roberts Creek Water District	South Umpqua River	5,500	Yes	0	4,691	4,691
Roseburg, City of Winchester	North Umpqua River WTP	24,000	Yes	18,363	108,860	127,223
Roseburg, City of Oakland	Calapooya Creek	6,000	Yes	5,213	61,244	66,457
Sutherlin, City of	Calapooya Creek	4,000	Yes	4,995	47,170	52,165
Sutherlin, City of	Cooper Creek	4,000	Yes	244	2,661	2,905
Tiller Ranger Station	South Umpqua River	100	Yes	10,590	62,742	73,332
Tri City Water District	South Umpqua River	3,000	Yes	34,160	67,074	101,234
Susan Creek Village	North Umpqua River	50	Yes	21,502	15,930	37,433
Wolf Creek Job Corps Users	Little River	340	Yes	3,046	12,161	15,207
Winston Dillard Water Dist.	South Umpqua River	4,500	Yes	24,707	108,610	132,717
Yoncalla, City of	Adams Creek	815	Yes	432	665	1,097
Yoncalla, City of	Wilson Creek	815	Yes	0	683	683
Umpqua Basin Water Assoc.	North Umpqua River	5,000	Yes	0	2,801	2,801

Table 8. Acres of Major Plant Groups by Seral Stage

Plant Group ¹	Seral Stage (Years)				
	Early (0-10)	Mid (20-40)	Late (50-90)	Mature (100-190)	Old Growth (200+)
MC-IV-GR	39,955	32,363	14,630	38,206	34,628
MC-MB-SA	12,231	5,572	4,420	6,591	17,138
D-CE-SA	10,389	6,458	3,756	10,432	21,768
D-B-SA	21,417	22,475	9,282	18,790	27,217
D-RA-VM	11,301	16,367	7,127	12,777	14,505
Total	95,293	83,235	39,215	86,796	115,256

¹Plant Group: MC-IV-GR = Mixed Conifer/Interior Valley/Grass
MC-MB-SA = Mixed Conifer/Madrone-Deciduous Brush/Salal
D-CE-SA = Douglas fir/Rhododendron-Ceanothus/Salal
D-B-SA = Douglas fir/Mixed Bush/Salal
D-RA-VM = Douglas fir/Red Alder/Vine Maple

Table 9. Priority Plant Species

Botanical Name	Common Name	Status ¹
* <i>Allium bolanderi</i>	Bolander's onion	AS
<i>Arabis koehleri</i> var. <i>koehleri</i>	shrubby rock cress	FC
<i>Asplenium septentrionale</i>	grass fern	AS
<i>Aster vialis</i>	wayside aster	FC
* <i>Astragalus umbraticus</i>	woodland milkvetch	AS
* <i>Bensoniella oregana</i>	bensoniella	FC
* <i>Calochortus coxii</i>	Cox's mariposa lily	FC
* <i>Calochortus umpquaensis</i>	Umpqua mariposa lily	FC/SE
<i>Cypripedium fasciculatum</i>	clustered lady's slipper	AS
<i>Epilobium oreganum</i>	Oregon fireweed	BS
<i>Eschscholzia caespitosa</i>	gold poppy	AS
<i>Frasera umpquaensis</i>	Umpqua swertia	FC
<i>Fritillaria glauca</i>	Siskiyou fritillaria	AS
<i>Iliamna latibracteata</i>	California globe mallow	AS
<i>Lupinus sulphureus</i> var. <i>kincaidii</i>	Kincaid's lupine	FC
<i>Microcala quadrangularis</i>	timwort	AS
* <i>Mimulus douglasii</i>	Douglas' monkey flower	AS
* <i>Mimulus kelloggii</i>	Kellogg's monkey flower	AS
<i>Mimulus tricolor</i>	three colored monkey flower	AS
<i>Pellaea andromedaefolia</i>	coffee fern	AS
<i>Perideridia erythrorhiza</i>	red-root yampah	FC
<i>Perideridia howellii</i>	Howell's false caraway	AS
<i>Plagiobothrys hirtus</i> ssp. <i>hirtus</i>	rough allocarya	FC/SE
* <i>Polystichum californicum</i>	California sword fern	AS
<i>Sedum spathulifolium</i> ssp. <i>purdyi</i>	Purdy's stonecrop	AS

¹ FC = Federal Candidate
SE = State Endangered
BS = Bureau Sensitive
AS = Assessment Species

Current management of upland vegetation is primarily for timber production and wildlife and is discussed in the timber and wildlife sections of this summary.

Federally listed and federally proposed priority plant species are managed in compliance with the Endangered Species Act and approved recovery plans. Other priority plants are managed to make their official listing unnecessary.

Proposed actions such as timber sales are surveyed to determine priority plant locations and mitigate impacts. Monitoring is conducted to determine the effectiveness of mitigation.

Current management of special areas protects them from incompatible uses.

Protection of native vegetation and associated natural values within wetlands outside withdrawn riparian and special areas are managed on a case by case basis.

Management of noxious weeds is accomplished through a multi-agency program coordinated by the Oregon Department of Agriculture. Current management is directed towards the eradication of rush skeletonweed throughout the planning area and tansy ragwort in Jackson County. The management objective for other species of noxious weeds known to occur in the planning area is to stabilize existing populations and prevent further spread. Control methods make use of all available techniques including the use of herbicides.

Management opportunities include:

- adopting ecosystem management techniques in timber sale planning such as retention of woody debris, retention of live conifer and hardwood trees, longer rotations, and wide spacing of young stands to preserve the community structure, species composition, and ecological processes of upland vegetation.
- creating a proportion and distribution of seral stages that promote biodiversity.
- restoring community structure, species composition, and ecological processes on harvested upland vegetation sites.
- using native plant species to revegetate disturbed areas and stabilize soils.
- establishing buffers of 300 to 600 feet around priority plant habitats, wetlands, and unique ecosystems to protect the plant community structure, species composition, and ecological processes within these habitats and contribute to the maintenance of biodiversity.
- maintaining water courses into and out of wetland habitats to protect the structure, composition, and ecological processes of wetland plant communities.
- restoring damaged priority plant habitats, wetlands, and unique ecosystems.
- supporting research and studies to obtain information on the abundance, distribution, taxonomy, and biological and ecological requirements of priority plant species.
- monitoring individual priority plant populations to obtain information on habitat conditions and population trends.
- developing priority plant management guides which consider abundance, distribution, biological and ecological requirements, habitat conditions, and population trends of individual species to assist in recovery or to minimize the need for future listing.
- cooperating in the development of recovery plans for state and federal listed species.
- collecting priority plant seed to be stored in nationally recognized seed banks to guard

against unforeseeable losses in nature and to assist in recovery efforts.

- acquiring and/or exchanging land parcels determined necessary for the protection of priority plant species.
- maintaining existing special areas and designating new special areas to protect priority plants, wetlands, and unique ecosystems.

Timber Resources

There are 1,668 million cubic feet (10,267 million board feet (units of solid wood, one foot square and one inch thick), Scribner short log scale) of standing volume on BLM-administered lands in the planning area which could be managed for a continuous supply of wood, according to an inventory completed in 1988. That compares to 1,609 million cubic feet (10,062 million board feet, Scribner short log scale) in the inventory completed in 1978. The age class distribution for both 1978 and 1988 inventories is shown in Table 10.

Reforestation status is shown in Table 11.

Of the newly planted areas, 62,525 acres (94%) have sufficient trees on site to meet current stocking standards. About 6% of the sites are understocked due to a variety of factors most important of which is excessive competing vegetation.

Table 12 shows timber management and forest development goals and accomplishments through September 30, 1988.

Table 13 tabulates District acres treated by practice or combination of practices according to age class.

These intensive management practices increase yield. Precommercial thinnings have been the mainstay of accomplishment due to the greater returns per investment dollar.

The volume of wood harvested from all ownerships in Douglas County totaled 5,406 million board feet (Scribner short log scale) from 1984 through 1987. Of that volume, 1,550 million came from national forest lands and 1,279 million from lands administered by BLM.

Current harvesting practices are as follows:

- Clearcutting. Stands with a minimum age of 80 years are eligible for harvest as a means of

Table 10. Comparison of Roseburg District Inventory Data 1978 and 1988

Age Class	GLO ¹	GIS ²	Cubic Volume (Mcf)		Board Foot Volume (MMbf)	
	Acres	Acres	1978	1988	1978	1988
0	7,403	22,065	0	33	0	0
1-5	25,510	19,393	0	606	0	3
10	40,853	40,315	0	1,376	0	7
20	35,945	29,316	0	11,755	0	59
30	13,852	32,525	22,805	50,132	118	258
40	5,973	13,362	12,950	41,236	68	217
50	7,558	8,201	19,463	34,184	104	183
60	11,319	4,271	33,483	18,152	183	99
70	8,959	5,389	30,162	31,059	168	173
80	10,931	6,211	40,831	34,731	231	197
90	11,741	10,312	47,854	88,411	275	509
100	13,282	9,865	58,885	85,807	343	502
110	16,879	8,276	80,544	57,938	475	344
120	15,852	14,215	80,151	79,847	480	480
130	3,595	15,744	19,293	107,540	116	658
140	3,595	5,677	20,222	35,537	123	218
150	10,545	4,969	62,067	37,537	377	234
160	5,615	2,760	34,170	21,103	215	131
170	6,197	5,788	38,565	44,472	237	281
180	21,947	3,532	144,301	23,804	937	151
190	8,305	5,101	52,991	27,430	327	168
200+	105,214	103,763	810,335	836,071	5,285	5,396
Total	391,070	371,048	1,609,072	1,668,744	10,062	10,267

¹URA 4 Land Base, GLO acreage estimates with deductions for congressional designations, TPCC withdrawals, and a reduction for roads.

²Forest Operations Inventory (FOI) GIS acreage estimates with deductions for non-forest, roads, suitable woodlands and non-suitable woodlands.

maintaining a high sustained yield harvest level.

— Salvage logging of dead and dying trees.

— Commercial thinning.

The 1988 timber production capability classification (TPCC) inventory is summarized in Table 14. Suitable woodlands and suitable commercial forest lands are two categories of land jointly defined as those lands capable of sustaining a long-term yield of forest products without loss of site productivity. Suitable commercial forest lands are capable of yielding at least 20 cubic feet per acre per year of commercial timber and are capable of prompt reforestation, while suitable woodlands include other non-fragile land which produce either commercial or

non-commercial species (such as hardwoods). The suitable woodland and suitable commercial forest land categories provide opportunities for sustained harvest of forest products, with the exception of lands included in Congressionally-designated areas or developed recreation sites.

Table 15 summarizes, for comparison, the 1977 TPCC.

There are basic differences between the two inventories that make direct comparisons difficult. The 1977 and 1988 TPCC partitioned the land base differently. The 1988 TPCC does not contain categories incorporated in the 1977 version including: limited management, adverse location, or statutory withdrawal classifications. These lands were reclassified

Table 11. Stocking Classifications for Units with Birthdates between January 1, 1971 and October 1, 1988¹

Stocking Classification	Forestable Acres	Total Acres
Understocked		4,326
Unestablished	4,150	
Established	176	
Stocked		62,525
Unestablished Minimum	2,429	
Unestablished Target	34,773	
Established Minimum	1,129	
Established Target	24,194	
Nonstocked		18,425 ²
Sold but not Cut	7,468	
Cut, needs Site Prep	6,604	
Site Prepped, needs Planting	4,132	
Other	221	
Totals	85,276	85,276 ²

¹Based on survey data as of October 1, 1988

²Of the 85,276 acres considered here, 18,425 acres (22%) are classified non-stocked. The time units are placed in non-stocked status averages less than three years. During this time, units are sold, roads built, logging takes place, and site preparation is accomplished prior to planting.

in 1988, with the majority being included in the non-suitable woodland, suitable woodland, or Category II CFL classifications. There were also differences in the guidelines set out for stocking criteria and the definitions of standard silvicultural operations for making the TPCC classifications.

Based on the 1988 TPCC, assumptions about yield enhancement from forest management practices, and stream protection necessary to meet water quality standards, the highest potential sustained yearly timber sale volume will be calculated. This will be done using TRIM-PLUS for the suitable commercial forest lands and area regulation for the suitable woodlands. After the calculations are completed, a supplement to the AMS will be prepared which will display the highest potential sustained sale volume and other data dependent on TRIM-PLUS. An economic efficiency analysis will also be done for intensive management practices, once calculations for sustained yield levels are completed. In addition a number of sensitivity analyses will be completed depicting the effects of various management and economic constraints on sustained yield harvest levels.

Table 12. Timber Management and Forest Development Goals and Accomplishments October 1, 1983 through September 30, 1988

Practice	1983 MFP Annual Plan Goals	Funded Annual Average	Annual Average Accomplishments
Allowable Sale Quantity (ASQ) ¹			
Million Cubic Ft.	39.5	37	36.8
Million Board Ft.	247	231	230
Harvest Acres			
Clearcut	5,709	5,232	5,272
Partial Cut	471	511	511
Site Preparation Acres			
Burning	4,450	2,761	2,761
Herbicides	5,200	0	0
Manual	170	231	231
Mechanical	400	154	154
Planting Acres (initial)			
Regular	5,230	3,896	3,869
Improved	—	112	112
Animal Damage Control Acres	3,080	1,507	1,507
Release & Maint. Acres (herbicides)	4,000	0	0
Release & Maint. Acres (manual)	0	263	263
Pre-commercial Thinning Acres	4,040	1,656	1,656
Fertilization Acres	5,560	2,702	2,702

Note: The base level ASQ excluding intensive management practices is 209 MMBF.

Table 13. Acres of Stand Treatment Accomplishments by Age Class As of October 1, 1988

Age Class	Genetically Improved Stock	PCT	PCT & Fert.	Fert. & CT	PCT & CT	CT Only	Total Treatment Acres
5	434	0	0	0	0	0	434
10	156	609	564	0	0	0	1,329
20	0	6,610	5,507	0	0	0	12,117
30	0	7,272	9,750	0	0	165	17,187
40	0	543	2,246	12	32	20	2,853
50	0	283	937	0	0	90	1,310
60	0	0	17	0	0	248	265
70	0	0	0	0	0	116	116
80+	0	0	0	0	0	643	643
Total	590	15,317	19,021	12	32	1,282	36,254

PCT = Precommercial thinning Fert = Fertilization CT = Commercial thinning

Table 14. TPCC Summary as of October 1, 1988

Land Classification	O&C	PD ²	Acres ¹ CBWR	Total
Non-Forest				
Rockland	3,301	682	681	4,664
Brush	78	0	0	78
Grass	315	73	0	388
Water	996	68	1	1,065
Highway	14,884	422	566	15,872
Utility	598	11	25	634
Agriculture	0	0	0	0
Non-Forest Unclassified	321	119	0	440
Subtotal	20,493	1,375	1,273	23,141
Non-Suitable Woodland				
Fragile Non-Suitable	19,625	1,742	626	21,993
Suitable Woodland				
Low Site	37	0	0	37
Non Commercial Species	148	58	12	218
Non-Suitable CFL	2,695	101	0	2,796
Subtotal	2,880	159	12	3,051
Suitable Commercial Forest Land				
Non-Problem	482	14	1,964	2,460
Fragile Suitable	1,610	160	991	2,761
Cat. I - Reforestation Problem	197,441	7,588	6,329	211,358
Cat. II - Reforestation Problem	0	0	0	0
Combination Reforestation and Fragile Problem	144,702	7,132	2,794	154,628
Subtotal	344,235	14,894	12,078	371,207
Total	387,233	18,170	13,989	419,392

¹Acres estimates derived from GIS acres in the TPCC database.

²Acquired Lands are included with the PD totals.

**Table 15. District TPCC
Summary of 1977**

Commercial Forest Land	Acres
High Intensity Management	
No Problem	238,980
Fragile Restricted	40,703
Fragile/Reforestation Restricted	6,272
Reforestation Restricted	85,450
Subtotal	371,405
Limited Management (Final Harvest Only)	
Fragile Restricted	750
Fragile/Reforestation Restricted	1,746
Reforestation Restricted	16,280
Subtotal	18,776
Withdrawn	
Fragile Withdrawn	1,888
Fragile/Reforestation Withdrawn	718
Reforestation Withdrawn	8,537
Adverse Location	187
Subtotal	11,330
Non-Forest	
Roads, R/W corridors, Rec. Sites, rock outcrops, grass, agriculture	20,135
Non-commercial Forest	
Non-commercial tree species	2,285
Roseburg District Total¹	423,931

¹Not corrected to GLO acres

This sustained yield level will be based on the following assumptions:

- Funding will be available for all practices.
- Emphasis on the timber management system and regeneration system that will maximize timber production.

- Efficiency of field operations and assurance of prompt reforestation will be considered in selecting the size of timber harvest units.
- Use of all available tools (including herbicides) for site preparation, seedling protection, plantation maintenance and release, with emphasis on those tools that have proven to be most effective in assuring seedling survival and growth.
- Reforestation of harvested lands immediately after harvest with adaptable commercial species. Utilization of genetically improved stock in accordance with the Western Oregon Tree Improvement Plan.
- Management of tree seed orchards to produce adequate supplies of improved seed.
- Reforestation of root disease centers with indigenous resistant tree species.
- Initial spacing control of seedlings/saplings through planting or thinning in conjunction with the control of competing vegetation in order to maximize wood production by concentrating site resources in individual tree growth.
- Commercial thinning of present and future stands on those lands judged operable and where research indicates increased gains in timber production are likely.
- Application of fertilizer on all present and future stands where research indicates increased wood yields will result.
- Conversion to conifers of all commercial coniferous forest sites presently dominated by grass, hardwoods and brush.

A table will be provided in the AMS supplement that will show the acreage of each silvicultural practice that is implied in the calculation of the sustained yield level.

Demand for BLM timber is based primarily on a combination of three factors: the characteristics of mills in the market area and their current short-term stocks of logs and purchased, unharvested timber; western U.S. housing (including remodeling) activity; and the level of exports of non-federal logs. Timber supply studies address the possibility of a timber "supply gap" in the primary timber market area for the District. A supply gap period is generally defined

as a decade when expected harvest levels from all lands fall below recent historic levels. In this market area recent studies anticipate a gap during the _____ to _____ period¹.

Fuelwood sold by BLM in the planning area has averaged 1,507 cords annually between 1986 to 1988. Opportunities for increasing the availability of fuelwood for local use include managing designated areas for fuelwood harvest.

Animals

The fish and wildlife resources on the Roseburg District are the product of an array of habitat conditions stemming from different plant communities, seral stages within the communities and numerous inherent structural features including snags, down logs, and multi-layered canopies. Additional landscape features such as riparian, streams, wooded bogs and swamps, cliffs, and talus slopes are other specific habitats of high value in the planning area. Table 6 in the Water Resources section indicates stream miles. Table 8 in the Vegetation section lists acres of the various seral stages within the District. Other unique habitat areas such as bogs, cliffs and talus slopes are minor acreages of the District land base and not specifically tabulated.

The combination of these habitats provides niches for an assemblage of mammals, birds, reptiles, amphibians and fish totaling over 300 species. For purposes of the RMP, the various species have been prioritized and grouped since it was not possible to treat each of the over 300 species on an individual basis.

Priority species or species groups were selected based on whether they were of high public interest (e.g., coho salmon, osprey, wild turkey, Roosevelt elk and mountain lion), Federal or State listed threatened or endangered species or candidates for such a listing (e.g., bald eagle, spotted owl, Columbian white-tailed deer and Townsend's big-eared bat) or listed in the Oregon Natural Heritage data base (e.g., sharptail snake, northern goshawk, ringtail cat and red tree vole).

Based on available information, a write-up was assembled on each of the habitats and several of the priority species to portray existing conditions and current management direction.

For the habitats mentioned above, information was provided on description, effects of other activities, and the current management direction for the habitat. For the animal species, information was displayed on the species status, inventory data, habitat requirements, effects of other activities on the habitat and population, any recognizable trends in habitat or population, and the current management direction. Species such as the bald eagle, spotted owl, black bear, coho salmon and steelhead trout are examples where specific information is provided.

In the case of the bald eagle, there are six known nest sites within the planning area occurring along the North Umpqua and Umpqua Rivers. In addition to maintaining habitat conditions around these nest sites, there are other lands managed under the direction set forth in the Umpqua Corridor Habitat Management Plan that provide potential nest sites now and in the future. These are intended to increase the nesting population leading to the recovery of the species and removal from the Federal threatened species list.

The northern spotted owl is also highlighted. In 1990 it was listed as a Federal threatened species. Intensive inventory and study of the species in the planning area has detected 207 locations of owls on BLM lands and an additional 18 locations on the intermingled private lands. During the past 5 years, owl pairs were verified at least once on 177 of the 207 locations on BLM lands. Additional data is provided on home range and habitat use for the owl, gathered using radio telemetry techniques. Management direction is explained through a summary of the BLM/ODFW spotted owl habitat management agreement. BLM has expanded interim management for spotted owls for fiscal years 1991-1992 by not planning any regular green timber sales in any of the Habitat Conservation Areas (HCAs) recommended by the Interagency Scientific Committee.

Varying levels of information are provided on the selected species and species groups to provide insight into the current management situation. This information provides the baseline upon which to identify additional management opportunities for the future. The prescribed actions in the current management direction along with the new management opportunities identified, will provide the elements from which the various alternatives will be formulated.

¹Data to be available for the RMP/EIS.

Current management direction includes the following actions:

- Management for mature and old growth seral stages through land withdrawal and longer rotations.
- Installation of instream habitat structures to enhance spawning and rearing habitat for anadromous fish species.
- Maintenance of buffer strips along streams to provide habitat for fish and associated terrestrial species.
- Provide snag and down tree habitat to meet the future habitat needs of cavity dwelling species.
- Manage lands identified in the Umpqua Corridor Habitat Management Plan to provide existing and future habitat for bald eagle and other species related to the area.

Among the new management opportunities that will be considered in developing the array of alternatives are the following types of actions:

- Purchase or exchange of lands with willing private interests to enhance land ownership to maintain or improve habitat conditions for selected species.
- Manage vehicle access through maintenance of open road density of 1.5 miles per square mile in priority elk habitat areas.
- Enhance forage quality and quantity in priority elk area by seeding 50% of the total clearcut acres harvested annually with legume seed mixtures.
- Cooperate with ODFW to supplement existing wild turkey flocks and/or hasten range expansion into suitable habitat.
- Distribute blocks of cavity dweller habitat no less than 2 acres in size across the landscape to ensure populations on 60% of potential on BLM lands.
- Allocate approximately 1,000 acres of forest land in the District to be used for protection of known and future raptor nest sites for species such as golden eagles, goshawks and red-tailed hawks.

Cultural And Paleontological Resources

Any identifiable location of past human activity is a cultural resource, including archeological or historical sites, structures or traditional use places. The last category includes places of traditional cultural or religious importance to Native American groups.

Federal agencies are responsible for cultural resources on lands under their jurisdiction and for effects of their actions on cultural resources on non-agency lands. Through a group of laws beginning with the Antiquities Act (1906), BLM has been mandated to protect and manage such resources on lands it administers.

The planning area was first occupied by nomadic native peoples at least 11,000 years ago. The first historic occupancy, by transient fur trappers, began in the 1810s, with settlement following in the 1840s.

A Class I (existing data) cultural resource survey was completed for the District in 1980. Field surveys have been mainly linked to locations of surface-disturbing activities, particularly timber sales. Intensive surveys have been conducted on about 15,000 acres of BLM-administered lands, and lower standard surveys on about 8,000 acres.

The District has identified 106 prehistoric sites on BLM-administered lands. One of these sites has been listed on the National Register of Historic Places, and eight others have been determined to be eligible for listing.

Ten historic sites have been identified on BLM-administered lands. All are documented in historical records and have been verified in the field. One site is eligible for inclusion on the National Register, and is in the process of being nominated.

One known vertebrate fossil site has been identified on BLM-administered land in the planning area.

No sites on BLM-administered lands in the planning area have been identified by Native American groups as locales of traditional or religious uses.

BLM conducts surveys for cultural resources prior to authorizing surface disturbing activities and prior to approval of land disposal. Identified cultural resources are evaluated and protected as appropriate to the importance of the resource. Consultation with the State Historic Preservation Officer occurs when cultural resources are identified.

Special Areas

Special areas currently designated on the Roseburg District include areas of critical environmental concern (ACECs), research natural areas (RNAs), environmental education areas (EEA), and outstanding natural areas (ONAs). ACECs have been designated under the authority of the Federal Land Policy and Management Act of 1976 to protect natural resources, systems, or processes that have been determined to have more than local significance and in need of special management attention, and to protect human life and provide safety from natural hazards. RNAs have been designated to protect natural features for the purpose of research and education, EEAs to protect natural features for the purpose of education, and ONAs to protect natural features for the purpose of recreation. Each designated special area received an interdisciplinary review to consider potential modifications and to determine if the areas met ACEC criteria. A list of presently designated areas is presented in Table 16.

Two additional areas have been nominated by BLM staff for ACEC designation. Each nomination was evaluated by an interdisciplinary team of BLM managers and staff to determine whether their values met ACEC criteria of "relevance" and "importance". Final decisions on eligibility were made by the District Manager. Description and eligibility of special area nominations is presented in Table 17.

All existing and potential special areas are shown on Map 5.

Recreation

There are an estimated 250,000 annual recreation visits to BLM-administered lands in the planning area. Hunting, fishing, hiking, horseback riding, general sightseeing and driving recreation vehicles account for the majority of visits. Concentrated visitation occurs at seven developed recreation sites on BLM-administered lands (see Map 6). There are 12 miles of developed hiking/horseback trails and 2,200 miles of BLM-controlled access road open to motorized travel. Most vehicle use is limited to existing roads, as unroaded terrain and vegetation inhibit driving off-road. Approximately 414,000 acres are designated as open to off-road vehicle use, and 9,700 acres are closed.

Recreation use is concentrated in the following eight locations:

- North Umpqua Wild and Scenic River
- Umpqua River
- Rock Creek
- Canton Creek
- Cow Creek
- Little River
- South Umpqua River
- Cavitt Creek

All BLM-administered lands fall into two recreation management classes - special recreation management areas (SRMAs) and extensive recreation management areas (ERMAs). A small proportion of the lands in the planning area are managed as SRMAs (areas where a commitment has been made to provide specific recreation opportunities), which may include sites with major investments in recreation facilities to meet management objectives. Such objectives include providing recreation opportunities that would not otherwise be available to the public; reducing conflict among users; minimizing damage to resources; and reducing visitor health and safety problems. Existing SRMAs are described in Table 18.

BLM's pro-rata share of recreation demand increase anticipated for the planning area by the year 2000 (derived from the State Comprehensive Outdoor Recreation Plan) is compared in Table 19 to current estimated recreation activity on BLM-administered lands.

The following major opportunities have been identified for BLM to enhance recreation opportunities during the 1990s to help meet these demands:

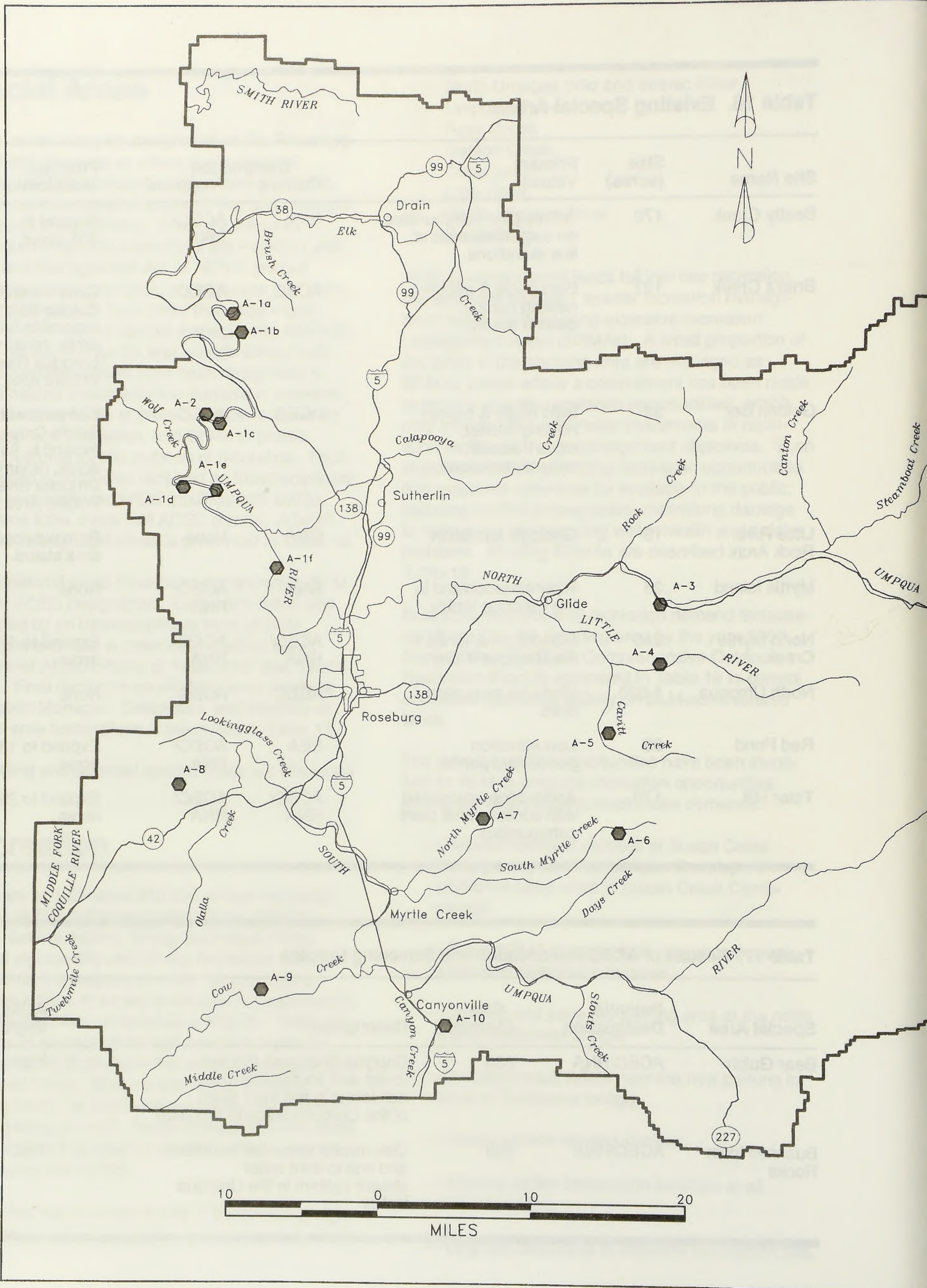
- Rebuild restroom facilities at Susan Creek Campground and Picnic sites. Develop 16 additional camp units at Susan Creek Campground.
- Expand BLM management presence through uniformed seasonal personnel.
- Develop and pave the parking area at the north end of Swiftwater bridge.
- Construct vault toilets near the new parking lot south of Swiftwater bridge.
- Create wildlife viewing stations.
- Improve visitor information services at all recreation sites.
- Upgrade restrooms at Millpond Recreation Site.

Table 16. Existing Special Areas.

Site Name	Size (acres)	Primary Values	Designation		Potential Modification
			Current	Proposed	
Beatty Creek	170	Jeffrey pine communities on serpentine soils at low elevations.	RNA	ACEC/ RNA	Expand to 331 acres.
Brad's Creek	127	Bald eagle & osprey nesting habitat, class II scenic.	ACEC	ACEC	Combine with Golden Bar, expand to 947 acres, rename Umpqua River Wildlife Area.
Golden Bar	93	Bald eagle & osprey nesting habitat, class II scenic, cultural resources.	ACEC	ACEC	Combine with Brad's Creek, expand to 947 acres, rename Umpqua River Wildlife Area.
Little River Rock Arch	15	Geologic formation	ONA	None	Remove special area status.
Myrtle Island	28	Riparian woodland in the Umpqua Valley.	RNA	ACEC/ RNA	None
North Myrtle Creek	240	Mixed conifer forest in the Umpqua Valley.	ACEC/ RNA	ACEC/ RNA	Expand to 472 acres.
North Umpqua	1,620	High use recreation area.	ACEC	ACEC	None
Red Pond	85	Low elevation permanent ponds.	EEA	ACEC/ RNA	Expand to 134 acres.
Tater Hill	170	Active slide associated with successional plant communities.	ACEC/ RNA	ACEC/ RNA	Expand to 280 acres.

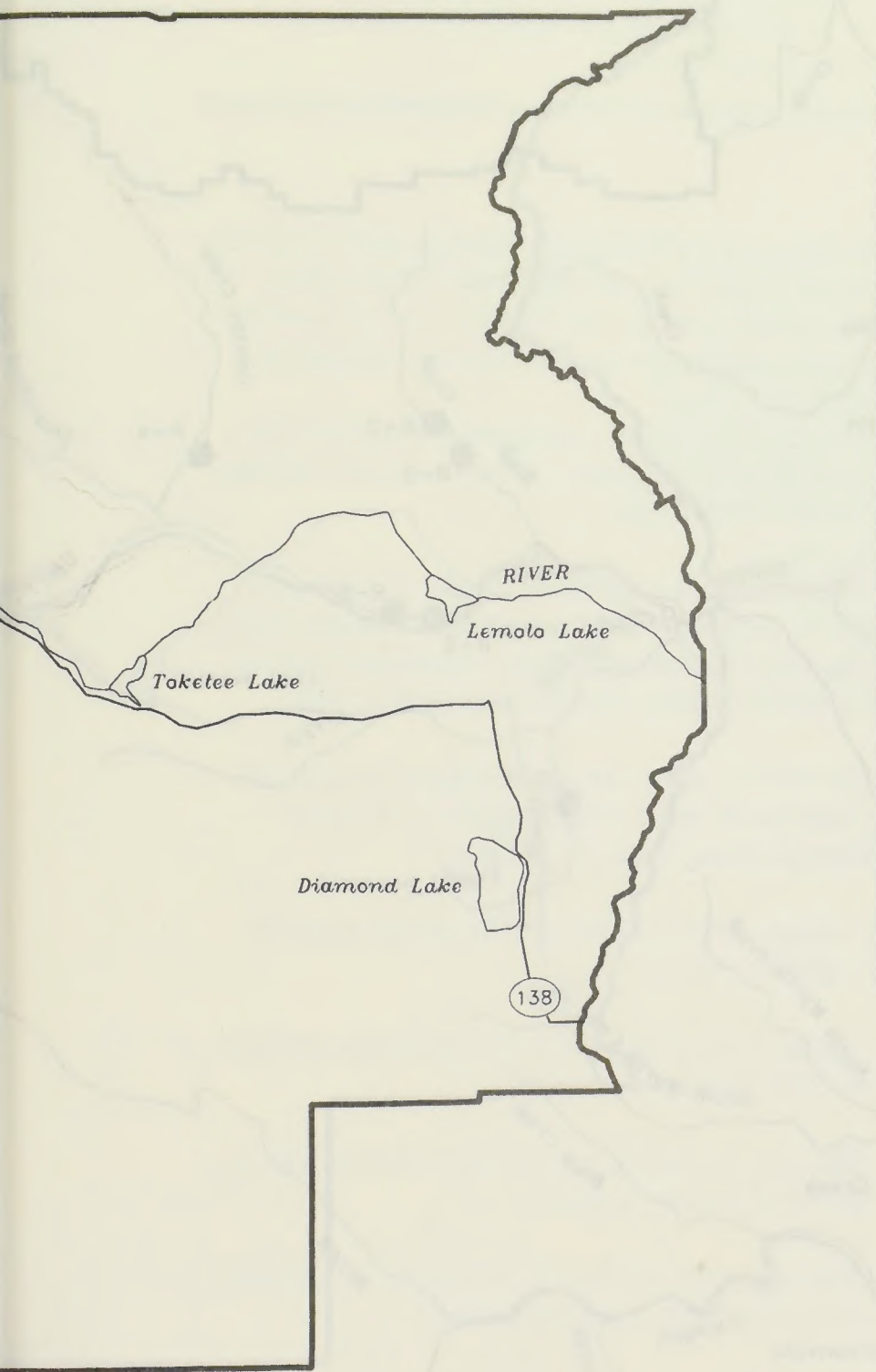
Table 17. Results of ACEC Identification and Screening Process

Special Area	Potential Designation	Size (Acres)	Description	ACEC Eligibility
Bear Gulch	ACEC/RNA	330	Douglas fir-canyon live oak forest and southwestern live oak forest in the west slope of the Oregon Cascade Province	Yes
Bushnell Irwin Rocks	ACEC/RNA	958	Oak-madrone-conifer woodland and first to third order stream system in the Umpqua Valley	Yes



ROSEBURG DISTRICT 1990 AMS SUMMARY

MAP 5: SPECIAL AREAS

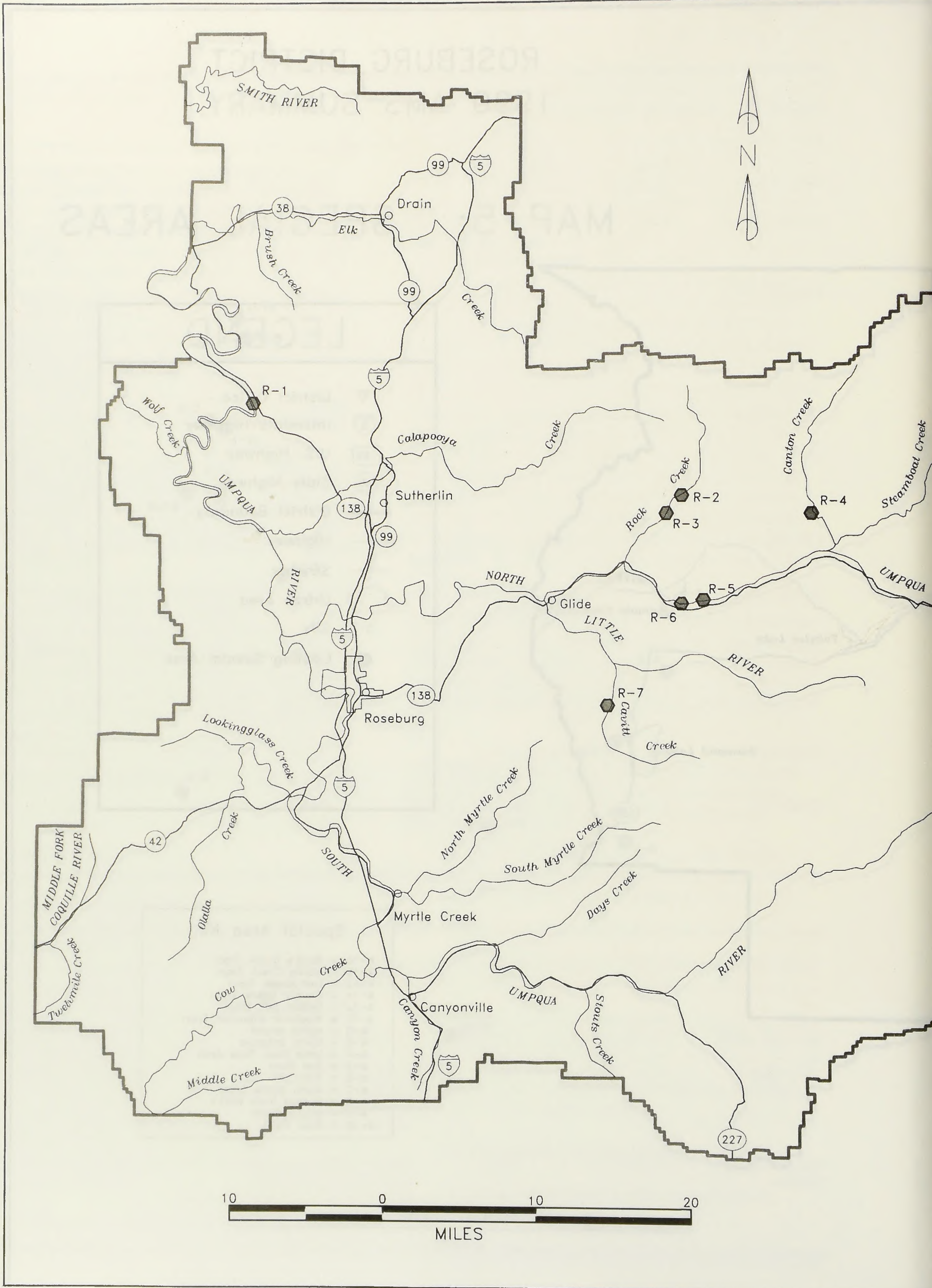


LEGEND

-  District Office
-  Interstate Highway
-  U.S. Highway
-  State Highway
-  District Boundary
-  Highway
-  Stream
-  Urban Area
-  City
-  Existing Special Area

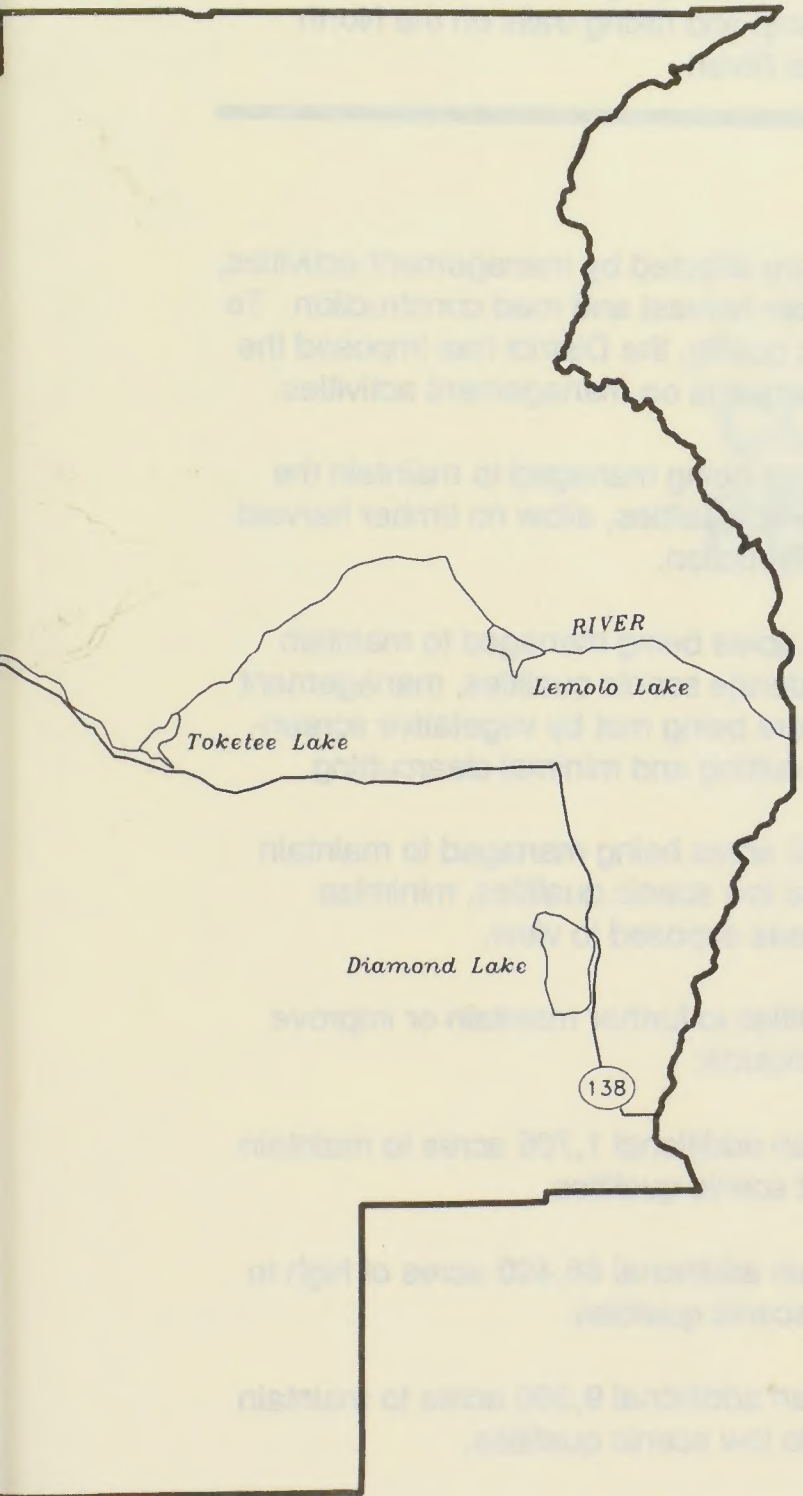
Special Area Key

- A-1a = Brad's Creek Tract
- A-1b = Martin Creek Tract
- A-1c = Last Creek Tract
- A-1d = Cougar Creek Tract
- A-1e = Golden Bar Tract
- A-1f = Wadruuff Mountain Tract
- A-2 = Myrtle Island
- A-3 = North Umpqua
- A-4 = Little River Rock Arch
- A-5 = Red Pond
- A-6 = Tater Hill
- A-7 = North Myrtle Creek
- A-8 = Bushell Irwin Rocks
- A-9 = Beatty Creek
- A-10 = Bear Gulch



ROSEBURG DISTRICT 1990 AMS SUMMARY

MAP 6: RECREATION SITES



LEGEND

- District Office
- Interstate Highway
- U.S. Highway
- State Highway
- District Boundary
- Highway
- Stream
- Urban Area
- City
- Existing Recreation Site

Recreation Site Key

- R-1 = Tyee
- R-2 = Rock Creek Campground
- R-3 = Millpond
- R-4 = Scaredman
- R-5 = Susan Creek
- R-6 = North Umpqua Wild & Scenic River
- R-7 = Cavitt Creek

Table 18. Special Recreation Management Areas

SRMA Name	Size (Acres)	1988 Visits	Other Relevant Data
N. Umpqua River	1620	57,000	Developed family and group camping areas, family and picnicking areas, boat ramp and hiking trails on the North Umpqua Wild and Scenic River.

- Monitor dispersed and ORV recreation use.
- Develop a new 40 unit campground on the south bank of the North Umpqua River at Swiftwater bridge.
- Develop equestrian trails.
- Develop back country by-ways along Cow Creek, Wolf Creek, and Smith River roads.

Scenic values are affected by management activities, particularly timber harvest and road construction. To maintain scenic quality, the District has imposed the following requirements on management activities:

- On 30 acres being managed to maintain the highest scenic qualities, allow no timber harvest or road construction.
- On 9,300 acres being managed to maintain high to moderate scenic qualities, management objectives are being met by vegetative screening, partial cutting and minimal clearcutting.
- On 13,600 acres being managed to maintain moderate to low scenic qualities, minimize clearcut areas exposed to view.

Visual Resources

There are approximately 76,000 acres of BLM-administered lands in the planning area having high to moderate scenic qualities and high visual sensitivity levels (see Map 7).

Major opportunities to further maintain or improve scenic quality include:

- Manage an additional 1,705 acres to maintain the highest scenic qualities.
- Manage an additional 66,400 acres of high to moderate scenic qualities.
- Manage an additional 9,300 acres to maintain moderate to low scenic qualities.

Table 19. Projected Increase in Demand for Recreation

Activity	Estimated Current Visits	Projected Visits Year 2000
Off-road use	5,825	6,090
Motorized travel	31,000	32,519
Non-motorized travel	12,400	13,367
Camping	16,621	17,500
Hunting	91,000	93,275
Other land-based	22,000	24,112
Fishing	43,500	45,240
Boating	7,535	7,896
Other water-based	7,450	8,000
Winter sports	2,000	2,080
Total	239,331	250,079

Wild And Scenic Rivers

Table 20 shows river stretches affecting BLM-administered lands in the planning area, which have been designated by Congress under the Wild and Scenic Rivers Act.

The Nationwide Rivers Inventory identifies three river segments which cross or are within a quarter mile of BLM-administered lands in the planning area

**COMMENT
RESPONSE
FORM**

PLACE
STAMP
HERE

U.S. Department of the Interior
Bureau of Land Management
Roseburg District Office
777 N.W. Garden Valley Blvd.
Roseburg, Oregon 97470

Table 20. Designated Wild, Scenic and Recreational Rivers

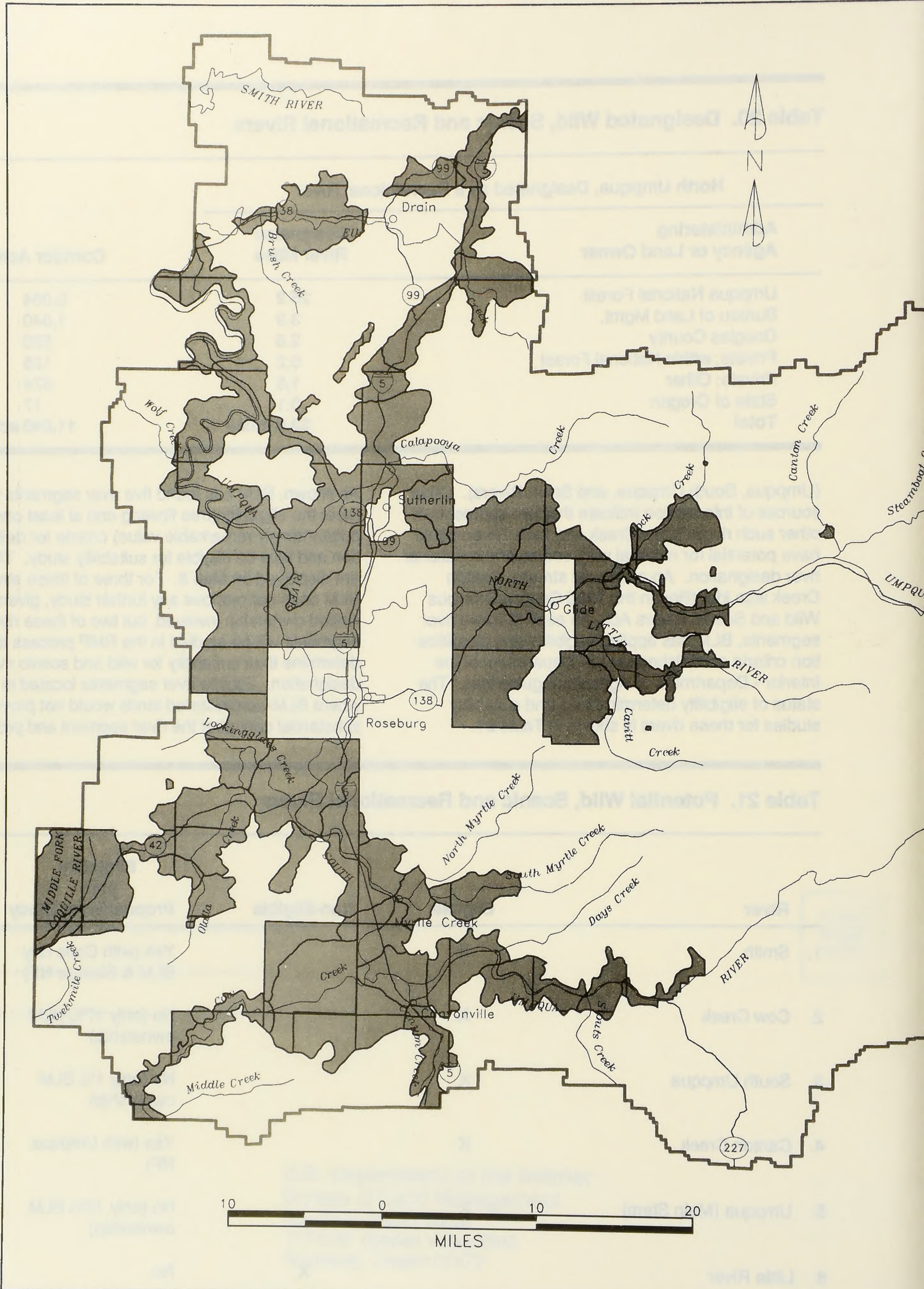
North Umpqua, Designated as a Recreational River		
Administering Agency or Land Owner	Designated River Miles	Corridor Acres
Umpqua National Forest	25.2	8,064
Bureau of Land Mgmt.	3.9	1,640
Douglas County	2.6	520
Private; within National Forest	0.2	125
Private; Other	1.8	674
State of Oregon	0.1	17
Total	33.8 miles	11,040 acres

(Umpqua, South Umpqua, and Smith Rivers). Other sources of information indicate that two segments of other such rivers (Cow Creek and Little River) could have potential for national wild, scenic or recreational river designation. An additional stream, Canton Creek was identified in the 1988 Oregon Omnibus Wild and Scenic Rivers Act. To each of these river segments, BLM has applied eligibility and classification criteria established in U.S. Department of the Interior - Department of Agriculture guidelines. The status of eligibility determinations and suitability studies for these rivers is shown in Table 21.

As shown, BLM has found five river segments to meet the eligibility (free flowing and at least one outstandingly remarkable value) criteria for designation and thus be eligible for suitability study. They are displayed on Map 8. For three of these streams BLM does not propose any further study, given the limited ownership involved, but two of these river segments will be studied in the RMP process to determine their suitability for wild and scenic river designation. Eligible river segments located in areas where BLM-administered lands would not provide for substantial control of the river segment and protec-

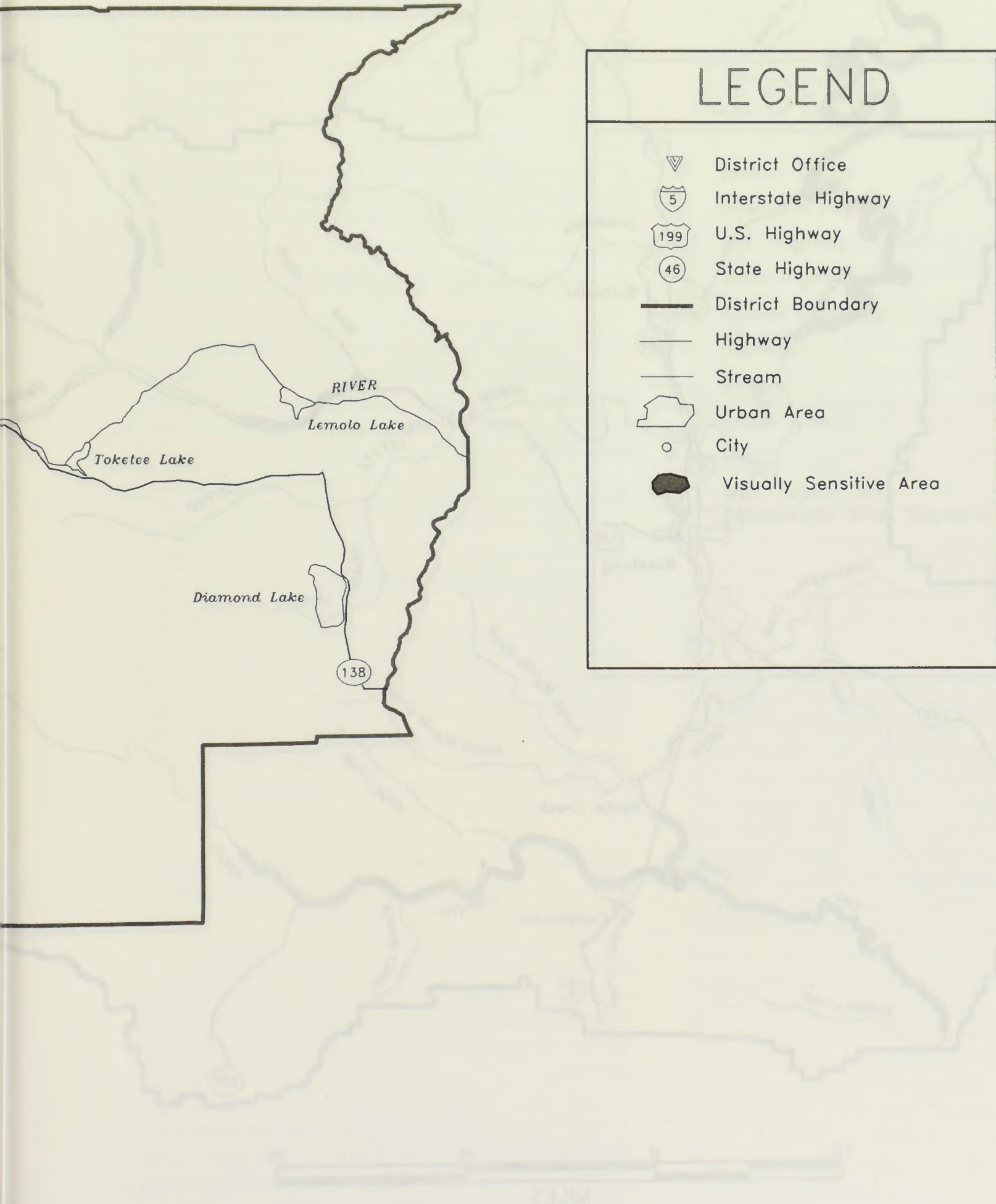
Table 21. Potential Wild, Scenic and Recreational Rivers

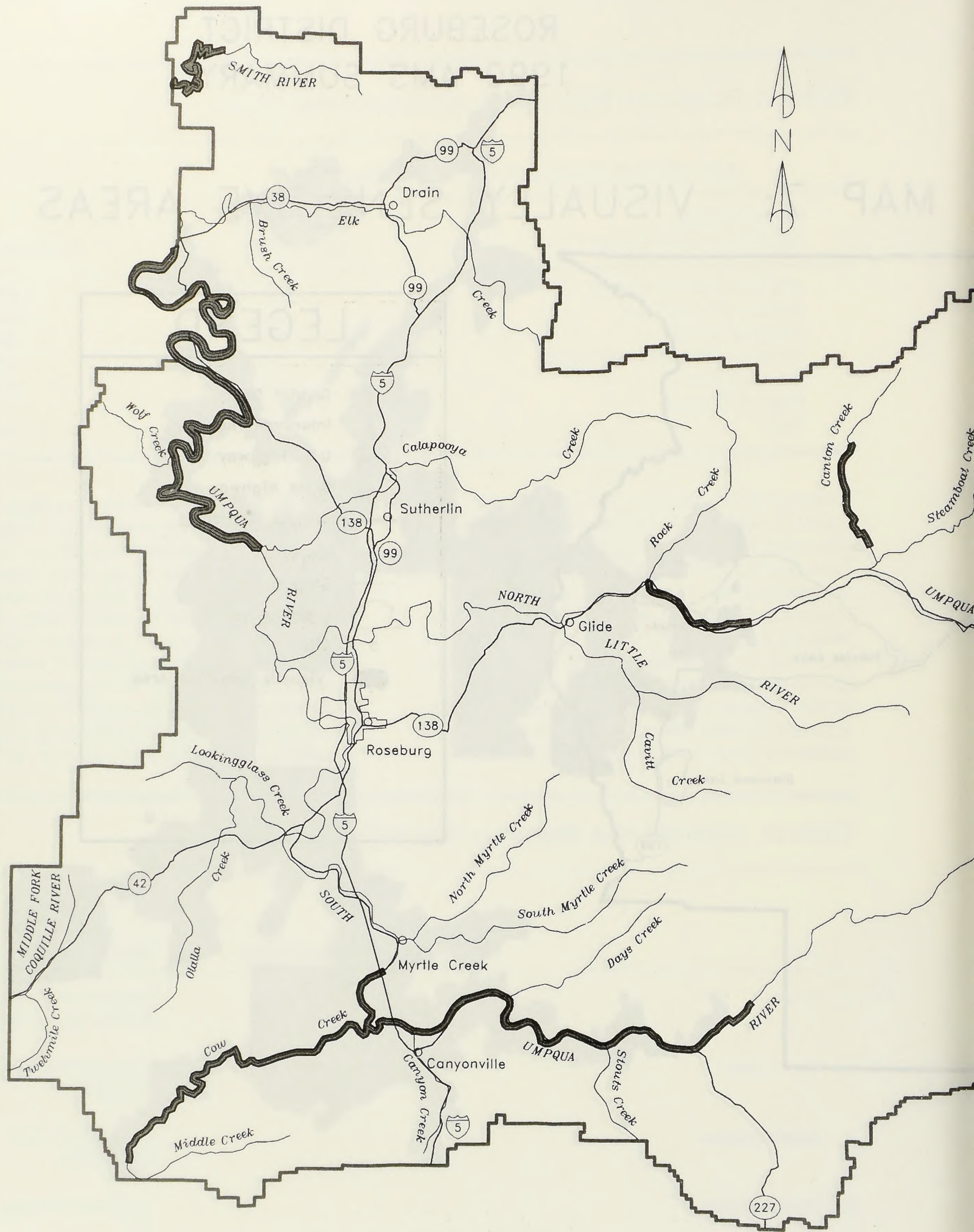
River	Eligible	Non-Eligible	Eligibility and Proposals for Study
1. Smith	X		Yes (with Coos Bay BLM & Siuslaw NF)
2. Cow Creek	X		No (only 17% BLM ownership)
3. South Umpqua	X		No (only 1% BLM ownership)
4. Canton Creek	X		Yes (with Umpqua NF)
5. Umpqua (Main Stem)	X		No (only 10% BLM ownership)
6. Little River		X	No.



ROSEBURG DISTRICT
1990 AMS SUMMARY

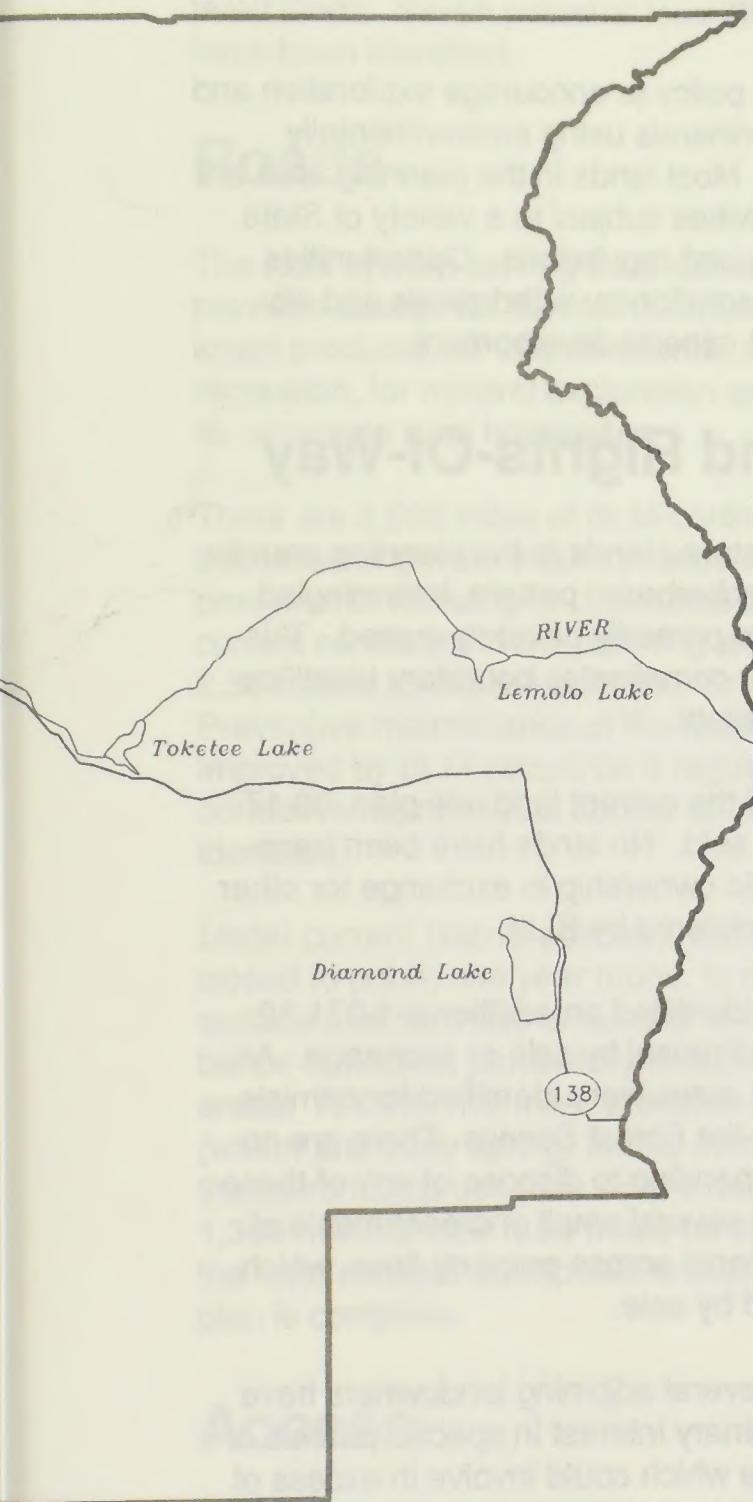
MAP 7: VISUALLY SENSITIVE AREAS















ROSEBURG DISTRICT 1990 AMS SUMMARY

MAP 8: WILD, SCENIC, AND RECREATIONAL RIVERS



LEGEND

-  District Office
-  Interstate Highway
-  U.S. Highway
-  State Highway
-  District Boundary
-  Highway
-  Stream
-  Urban Area
-  City
-  Wild, Scenic, and Recreational River Segment

tion of the identified outstandingly remarkable values are not considered appropriate for BLM-initiated study as part of the RMP process. The values on BLM-administered lands which help to make these excluded rivers eligible for study will be protected until a suitability study is completed by an appropriate agency.

Those river segments found suitable in the final resource management plan will be further addressed in a subsequent legislative environmental impact statement. Based on that statement, the Department will recommend to Congress which segments should be designated through legislation.

Minerals

Current mineral activity on BLM-administered lands in the planning area consists primarily of gold exploration and aggregate production. Most of the gold mining activity has been small-scale placer mining with some exploration in old underground mines. Almost all of the aggregate production has been used to build and maintain logging roads. During the early 1980s, there was some oil and gas exploration activity, but at present there is none.

Table 22. Mineral Potential

Locatable Minerals	Acres
Low potential	307,640
Moderate	87,978
High	24,420
Leasable Minerals	
Oil and Gas	
Low Potential	186,690
Moderate	78,102
High	155,820
Geothermal	
Low Potential	420,612
Moderate	0
High	0
Salable Minerals	
Low Potential	0
Moderate	418,722
High	1,890

As of January 1989, there were 1,142 mining claims and 36 active exploration or mining operations on record. There are 12 oil and gas leases that cover 17,880 acres and no coal or geothermal leases. The average production of rock in the 1984-1988 period was approximately 440,000 cubic yards per year. There are 189 active rock pits. Table 22 lists acres of mineral occurrence potential. The Bureau administers the mineral estate on 1,717 acres of private surface ownership.

It is the Bureau's policy to encourage exploration and development of minerals using environmentally sound practices. Most lands in the planning area are open to such activities subject to a variety of State and Federal laws and regulations. Opportunities exist to revoke discretionary withdrawals and closures that restrict mineral development.

Lands And Rights-Of-Way

The BLM-administered lands in the planning area lie generally in a checkerboard pattern, intermingled with lands that are primarily privately owned. This ownership pattern complicates boundary identification and management.

Since approval of the current land use plan, 66.17 acres have been sold. No lands have been transferred out of public ownership in exchange for other lands to be administered by BLM.

The current plan identified an additional 1,071.30 acres of land for disposal by sale or exchange. An additional 363.83 acres were identified for administrative transfer to the Forest Service. There are no active proposals pending to dispose of any of these lands. There are several small encroachments of private improvements across property lines, which could be resolved by sale.

In discussions, several adjoining landowners have expressed preliminary interest in specific parcels of land for exchange which could involve in excess of 4,000 acres of BLM-administered lands, and a similar acreage of private lands. BLM expects continuing interest in these kinds of programs. The potential exchanges present opportunities to improve BLM's management efficiency and ownership pattern.

There are several existing utility corridors crossing BLM-administered lands in the planning area. One proposal for an additional corridor is identified, but upgrading of existing facilities is likely.

There are seven developed hilltop or ridgetop communication sites on BLM-administered lands. Most sites have public access and utility service. Anticipated demand for additional microwave and emergency radio communications sites is likely to result in proposals to expand use of two sites. During the 1990s, some new sites for microwave facilities are expected to be needed on BLM-administered lands. Seven potential locations for new sites have been identified.

Roads

The road system serving BLM-administered lands provides access for harvest of timber and other forest products, for intensive forest management, for recreation, for mineral exploration and removal, and for access to rural home sites.

There are 2,598 miles of BLM-controlled roads and 263 miles of private-industry roads with BLM improvements (existing or committed to construction in current contracts) in the planning area. Of these, 2,394 miles (84%) are surfaced for all-weather use. Preventive maintenance of the roads controlled or improved by BLM occurs on a regular cycle, while corrective maintenance occurs as problems are identified.

Under current District policies, 26 miles of road are closed to public use year round, to protect the road surface and minimize erosion or to minimize disturbance to wildlife, particularly in important elk habitat areas. Another five miles are closed seasonally (winter and early spring) for the same purposes. If the current land use plan were extended, about 1,300 miles of new road would be constructed before the road network anticipated to support the current plan is complete.

Access

In general, legal access is available to most BLM-administered lands in the planning area for BLM management activities (including timber removal), but only 60% of the lands are legally accessible to the general public. Under current management direction, acquisition of an additional 169 road easements would be needed to support the future timber management program. Opportunities may exist to negotiate public access rights in conjunction with existing reciprocal right-of-way agreements that now permit only access for BLM administration and timber harvest.

Fire

There were 140 wildfires which burned 15,025 acres on BLM-administered lands in the planning area from 1980 through 1988. Of the total acres burned, 71% resulted from lightning caused fire and 29% from human use of the forest. Current management direction is to control wildfires on or threatening BLM-administered lands at the least total combined cost of fire suppression, land rehabilitation and resource loss. Protection is provided through a contract with the Oregon Department of Forestry, which also provides fire protection on the intermingled (predominately private) forest lands.

Prescribed (intentional) fires are used, primarily on sites recently logged, to reduce the hazard of wildfire and to prepare the sites for tree planting.

The acres burned by prescribed fire in recent years are shown in Table 23.

Socioeconomic Conditions

Although a small portion of Jackson and Lane Counties are located within the boundary of the Roseburg District, Douglas County is the only county to be economically affected by activities on BLM-administered lands in the planning area. The population of Douglas County is currently (1988) estimated to be 93,000, a slight decline since 1980 (93,800).

Total wage and salary employment in the counties averaged 30,800 from 1984 through 1988, of which employment in manufacturing of wood products (including paper and allied products) was 8,200. Unemployment in the county averaged 9.7% during that period. State unemployment during the same period averaged 7.7%. Total personal income in Douglas County from 1984 through 1988 averaged \$1,099,538,000. BLM's input-output model (BLMPACT) shows that BLM resource use contributed an average of 2,377 direct and indirect jobs and \$48.9 million in annual personal income during those years. Of that personal income, about \$48.6 million were attributable to timber management and harvest, and \$0.3 million to recreation activities on BLM-administered lands that specifically draws non-resident activity and thus influences local employment. Another activity that is partially dependent on BLM-administered lands and can influence local employment is commercial fishing, but we have no solid basis for measuring that relationship at this time.

Table 23. Acres Burned by Prescribed Fire

Year	Primary Purpose			Total
	Site Preparation	Hazard Reduction	Habitat Improvement	
1980	2,409	0	0	2,409
1981	1,389	0	0	1,389
1982	1,249	0	0	1,249
1983	1,870	0	0	1,870
1984	1,656	0	0	1,656
1985	2,960	0	0	2,960
1986	3,950	0	0	3,095
1987	2,900	0	0	2,900
1988	2,788	0	0	2,788
Total	20,316			20,316

The eighteen O&C counties receive half of BLM receipts from O&C lands in western Oregon. These are primarily receipts from timber sales. Revenue from management of other BLM-administered lands is also shared with local political subdivisions. Table 24 shows the average 1984-1988 revenue distribution to each of the counties from timber sales from O&C lands in the planning area, along with average total property tax revenues during that period.

Payments made to local taxing districts in lieu of taxes on reconveyed Coos Bay Wagon Road lands administered by the District averaged \$86,500 during 1984-1988. Distribution of average in lieu of tax payments on Roseburg District Coos Bay Wagon Road lands is shown on Table 25.

The Regional Economic Development Strategy for the counties in the planning area promotes tourism. BLM has so far identified no management activities that could influence this strategy.

Rural Interface Areas

County governments in the District have zoned some nearby forest and other adjacent lands for rural residential and other uses which, in some situations, are incompatible with BLM intensive forest management activities. For purposes of this discussion, certain private lands zoned for purposes allowing residential use and the adjoining BLM-administered

land are referred to as rural interface areas. They are found throughout the lower elevations of the District. The amount of BLM-administered land within these identified areas is summarized in Table 26.

In recent years, other land owners or managers in these interface areas have begun to express concerns about some BLM management activities. Often, conflicts can be resolved during project planning. When conflicts cannot be resolved, opposing parties may protest and appeal BLM actions. These conflicts often result in more costly management for BLM.

Under the current management framework plan for the District, two project planning guidelines apply to rural interface areas: (1) protect domestic water diversions if necessary; and (2) minimize management impacts in visually sensitive areas where possible. A detailed resource inventory for these values is used to design projects.

Major opportunities to minimize conflicts in rural interface areas are:

- within sensitive rural interface areas, avoid using practices, such as herbicide spraying, slash burning and large clearcuts, which are objectionable to land owners.

Table 24. Average Annual County Property Tax Revenues, 1984-88

County	Avg. O&C Payment	Taxable Property	Tax Rate (%) ¹	Avg. Tax Receipts
Benton	\$2,144,459	\$1,797,507,000	3.01	\$5,421,921
Clackamas	\$4,150,740	\$8,204,304,000	1.92	\$15,785,069
Columbia	\$1,546,393	\$1,400,610,000	1.11	\$1,555,590
Coos	\$4,439,612	\$1,445,958,000	1.97	\$2,849,249
Curry	\$2,742,513	\$628,189,000	1.29	\$802,185
Douglas	\$18,849,539	\$2,511,645,000	0.90	\$2,254,693
Jackson	\$11,759,182	\$3,761,527,000	0.43	\$1,594,846
Josephine	\$9,044,273	\$1,732,341,000	0.26	\$454,241
Klamath	\$1,750,939	\$1,729,604,000	1.81	\$3,125,595
Lane	\$11,490,336	\$6,745,055,000	0.96	\$6,509,952
Lincoln	\$270,329	\$1,719,055,000	2.66	\$4,583,813
Linn	\$1,986,538	\$2,296,261,000	1.39	\$3,180,264
Marion	\$1,096,616	\$4,876,601,000	2.39	\$11,665,985
Multnomah	\$816,182	\$17,975,804,000	3.24	\$58,309,468
Polk	\$1,622,533	\$1,062,476,000	1.33	\$1,409,609
Tillamook	\$421,387	\$868,889,000	1.86	\$1,617,535
Washington	\$474,060	\$8,836,339,000	2.15	\$19,155,542
Yamhill	\$541,783	\$1,643,336,000	2.27	\$3,375,600

¹Tax rate multiplied by taxable property does not equal average tax receipts due to rounding.

Table 25. In Lieu Tax Payments on CBWR Lands Administered by the Bureau of Land Management in Douglas County¹

Taxing District	Average Annual Severance Tax ² Received (1984-88)	Average Annual Property Tax ³ Received (1984-88)	Average Budget Levy Submitted (1984-88)	Avg. CBWR Payments As a Percent Of Average Levy ⁴ (1984-88)
Douglas County	\$4,128	\$1,069	\$2,823,462	0.184%
Oakland School Dist. 1	\$372	\$122	\$1,760,969	0.028%
Camas Valley School Dist. 21	\$15,683	\$4,391	\$477,575	4.203%
Winston-Dillard School Dist. 116	\$32,920	\$10,559	\$3,923,893	1.108%
Douglas Educational Service Dist.	\$3,381	\$1,036	\$2,715,619	0.163%
Umpqua Community College	\$3,451	\$1,135	\$2,697,679	0.170%
Roseburg School Dist. 4	\$0	\$9	\$12,014,112	<0.001%

¹Payments in lieu of taxes are made to the county treasurer and distributed to tax Districts.

²Severance tax is 6.5% of the value of the timber harvested.

³Assessed value of forest land is a function of the price of second-growth Douglas-fir stumpage over the most recent three-year period.

⁴The CBWR lands in the Roseburg School District are not forested with commercial species.

Table 26. BLM Acres in Rural Interface Areas

Zoning Categories ¹ in Interface Areas	BLM Acres ³ Within 1/4-Mile	BLM Acres ³ Within 1/2-Mile
0-5 Acre Lots	8,552	24,052
6-20 Acre Lots ²	0	0
21+ Acre Lots	134,424	195,282

¹Lot sizes allowed to be created.

²Douglas County zoning does not define parcels between 6-20 acres.

³These 1/4 and 1/2 mile areas will be used for analytical purposes in the RMP/EIS.

— within rural interface areas of highly fragmented BLM-administered land, dispose of BLM-administered land.

Interrelationships With Other Agencies

Interagency coordination with other federal, state and local government agencies is required by BLM regulations (43 CFR Part 1610.3). Many formal coordination relationships between the BLM and these other government agencies or units have been established through memoranda of understanding (with Interior Department agencies) and interagency agreements (all discussed hereafter as agreements). A number of these have been approved by the director of the Bureau and are sufficiently detailed to preclude the need for state office or district office level agreements. Some national level agreements have local supplemental agreements between lower level units of agencies. In addition, the state director has approved independent state level agreements, while the district manager has approved agreements with county governments. In general, these agreements deal with mechanisms for coordination, consultation and documenting consistency and therefore do not constrain resource allocations or management direction unless they are non-discretionary—that is, mandated by federal law, executive order or treaties. Some local agreements are very specific and involve techniques for managing public lands to meet detailed objectives for plant and animal habitat, research projects, big game transplants or multi-purpose communication sites. Any agreement

element which is discretionary can be modified as a consequence of the RMP decision making process. Such agreements normally contain standard “escape clauses” that come into operation in the event of inadequate funding, discovery of contradiction with federal law, or the need to amend or revise the agreement due to newly approved plans, changes in resource condition, etc.

Relevant coordination occurs with the following agencies regarding the activities noted:

U.S. Forest Service - regarding plans, activities, and projects on adjacent lands.

U.S. Fish and Wildlife Service - regarding plans and activities that may affect a federal threatened, endangered, or proposed threatened or endangered species or its critical habitat, or a federal candidate species.

Bonneville Power Administration - regarding improvement of riparian zones and anadromous fish habitat as part of the Columbia Basin Fish and Wildlife Program of the Northwest Power Planning Council as authorized by the National Power Planning Act. Also regarding identification and evaluation of regional utility corridor options.

U.S. Army Corps of Engineers - regarding the Corps’ authority, under the Clean Water Act, to regulate the discharge of dredged or fill materials into any estuary or wetland or stream with a flow in excess of five cubic feet per second.

National Marine Fisheries Service - regarding planning and activities which may affect marine, estuarine or anadromous fish resources.

Soil Conservation Service - regarding the National Cooperative Soil Survey.

National Park Service - regarding planning and activities that could affect an identified inventory or study river's ability to meet Wild and Scenic Rivers Act eligibility or classification criteria.

Oregon Dept. of Fish and Wildlife - regarding planning and activities affecting wildlife (including fish) habitat.

Oregon Dept. of Forestry (OSDF) - regarding BLM compliance with the Oregon Forest Practices Act in the conduct of timber harvest, reforestation, road construction and maintenance, chemical applications, and slash disposal. Also regarding BLM compliance with the statewide Smoke Management Plan and Visibility Protection Plan under the umbrella of the Federal Clean Air Act. And regarding fire protection, for which OSDF is BLM's primary contractor in the planning area.

Oregon Dept. of Environmental Quality - regarding BLM compliance with the Statewide Water Quality Management Plan, under the umbrella of Section 208 of the Federal Clean Water Act. Also regarding treatment and control of water pollution sources where such may be associated with BLM facilities.

Oregon Energy Facility Siting Council - regarding any proposed power plant larger than 25 megawatts, proposed electric transmission line over 230 Kilovolts in capacity or proposed natural gas line at least 16 inches in diameter.

Oregon Dept. of Agriculture - regarding noxious weed control programs and the state endangered

plant species program. BLM coordinates site-specific noxious weed control activities with local weed control districts.

Division of State Lands - regarding BLM compliance with Oregon's Removal-Fill law, which regulates removing and filling of materials from and in the waters of the state.

Highway Division, Oregon Dept. of Transportation - regarding road planning in the vicinity of federal and state highways. Similar cooperation takes place with county road departments regarding county road systems.

Oregon Dept. of Parks and Recreation - regarding management of BLM-administered land adjacent to state parks and state scenic waterways.

Oregon Dept. of Geology and Mineral Industries - regarding mined-land reclamation on BLM-administered lands.

State Historic Preservation Office - regarding sites protected by National Historic Preservation Act regulations.

Land Conservation and Development Commission, through the Department of Land Conservation and Development - regarding consistency of BLM plans and activities with the Oregon Coastal Management Program, under the umbrella of the Federal Coastal Zone Management Act.

Counties - regarding consistency of BLM plans with acknowledged county comprehensive plans, as well as regarding a variety of BLM plans and activities that may affect county road systems, county parks and county natural resource management activities. BLM also participates in review of county planning actions in order to alert counties to potential conflicts and inconsistencies with BLM forest management plans or other plans.

1. Identification of Issues
2. Development of Planning Objectives
3. Inventory Data and Information Collection
4. Analysis of Management Options
5. Formulation of Alternatives
6. Evaluation of Effects
7. Selection of a Preferred Alternative
 - a. Open Space
 - b. Final RMP/ES
8. Development of the Resource Management Plan
9. Monitoring and Evaluation

<p>particular program. BLM coordinates the implementation and funding of the program. BLM coordinates the implementation and funding of the program.</p>	<p>National Marine Fisheries Service - regarding planning and activities which may affect marine resources or ecosystems.</p>
<p>State of Oregon - regarding the implementation of the program. BLM coordinates the implementation and funding of the program.</p>	<p>Ball Corporation - regarding the implementation of the program. BLM coordinates the implementation and funding of the program.</p>
<p>Highway Division, Oregon Dept. of Transportation - regarding road planning in the vicinity of the project. BLM coordinates the implementation and funding of the program.</p>	<p>National Park Service - regarding planning and activities that could affect an existing facility or study area. BLM coordinates the implementation and funding of the program.</p>
<p>Oregon Dept. of Parks and Recreation - regarding planning and activities which may affect park resources. BLM coordinates the implementation and funding of the program.</p>	<p>Oregon Dept. of Fish and Wildlife - regarding planning and activities which may affect wildlife resources. BLM coordinates the implementation and funding of the program.</p>
<p>Oregon Dept. of Forestry - regarding BLM activities and state forest watersheds. BLM coordinates the implementation and funding of the program.</p>	<p>Oregon Dept. of Forestry (ODOF) - regarding BLM compliance with the Oregon Forest Practice Act in the conduct of timber harvest, reforestation, and site preparation. BLM coordinates the implementation and funding of the program.</p>
<p>Oregon Dept. of Geology and Mineral Industries - regarding mineral resources. BLM coordinates the implementation and funding of the program.</p>	<p>Oregon Dept. of Environmental Quality - regarding BLM compliance with the Statewide Water Quality Implementation Plan. BLM coordinates the implementation and funding of the program.</p>
<p>State Parks and Recreation Office - regarding state parks. BLM coordinates the implementation and funding of the program.</p>	<p>Oregon Energy Facility Siting Council - regarding any proposed energy facilities. BLM coordinates the implementation and funding of the program.</p>
<p>Land Conservation and Development Commission - regarding land use planning. BLM coordinates the implementation and funding of the program.</p>	<p>Oregon Dept. of Agriculture - regarding agricultural activities. BLM coordinates the implementation and funding of the program.</p>
<p>County - regarding local government activities. BLM coordinates the implementation and funding of the program.</p>	<p>Oregon Dept. of Agriculture - regarding agricultural activities. BLM coordinates the implementation and funding of the program.</p>
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Appendix 1

The Resource Management Planning Process

The Resource Management Plan (RMP) is a Land Use Plan as prescribed by the Federal Land Policy and Management Act of 1976. The RMP establishes in a written document:

- Land areas for limited, restrictive, or exclusive resource uses or for transfer from BLM administration;
- Allowable resource uses and related levels of production or use to be maintained;
- Resource condition goals and objectives to be reached;
- Program constraints and general management practices;
- Identification of specific activity plans required;
- Support actions required to achieve the above;
- General implementation schedule; and
- Intervals and standards for monitoring the plan to determine its effectiveness.

The underlying goal of the RMP is to provide efficient on-the-ground management of public lands and associated resources.

The procedure for preparing an RMP involves nine interrelated actions as shown in Table 1-1. Some actions may occur simultaneously and it may be necessary to repeat an action if additional information becomes available. The plan that results from this process is a general decision document designed primarily to help district and area managers make decisions, and to guide the efforts of staff on a day to day basis. Where more detailed management direction is required, specific activity plans will be prepared after the RMP is completed.

Preparation of the RMP was initiated in the fall of 1986, with public involvement in the identification of preliminary planning issues and concerns. The first four steps of the RMP process have been completed, except for any modifications that may occur as a result of public review of this summary or the full AMS, located in the District Office.

Table 1-1. Resource Management Planning Process

Step	Completion Target
1. Identification of Issues	Completed
2. Development of Planning Criteria	Completed
3. Inventory Data and Information Collection	Completed
4. Analysis of Management Situation	Completed
5. Formulation of Alternatives	Early 1991
6. Estimation of Effects	Summer 1991
7. Selection of a Preferred Alternative	
a. Draft RMP/EIS	Summer 1991
b. Final RMP/EIS	1992
8. Selection of the Resource Management Plan	Late 1992
9. Monitoring and Evaluation	Start 1993

After the plan is implemented, it will be monitored and evaluated on a continuing basis to assure that land management issues are being addressed as expected and that it is accomplishing its intended results.

Public involvement and consultation with affected state and local governments is required at several points in the RMP process. This consultation is essential so the final resource management plan will be as consistent as possible with state and local natural-resource-related plans, programs and policies.

The underlying goal of the RMP is to provide efficient on-the-ground management of public lands and associated resources.

The procedure for preparing an RMP involves two interested actions as shown in Table 1-1. Some actions may occur simultaneously and a way to necessary to report on action if additional information becomes available. The plan that results from this process is a general decision document designed primarily to help district and area managers make decisions and to guide the efforts of staff on a day to day basis. Where more detailed management direction is required, specific activity plans will be prepared when the RMP is completed.

Preparation of the RMP was initiated in the fall of 1986 with public involvement in the identification of preliminary planning issues and concerns. The first four steps of the RMP process have been completed. Except for any modifications that may occur as a result of public review of this summary or the full RMP, located in the District Office.

The Resource Management Plan (RMP) is a land use plan as prescribed by the Federal Land Policy and Management Act of 1976. The RMP establishes in a written document:

- Land uses for limited, restrictive, or exclusive resource uses or for transfer from BLM administration;
- Allowable resource uses and related levels of production or use to be maintained;
- Resource condition goals and objectives to be achieved;
- Program conditions and general management practices;
- Identification of specific activity plans required;
- Support actions required to achieve the above;
- General implementation schedule; and
- Criteria and standards for monitoring the plan to determine its effectiveness.

Table 1-1. Resource Management Planning Process

Step	Completion Target
1. Identification of issues	Completed
2. Development of Planning Criteria	Completed
3. Inventory Data and Information Collection	Completed
4. Analysis of Management Situation	Completed
5. Formulation of Alternatives	July 1991
6. Estimation of Effects	Summer 1991
7. Selection of a Preferred Alternative	Summer 1991
8. Final RMP/ES	1992
9. Monitoring and Evaluation	1992

Appendix 2

Public Involvement in the Process So Far

Public involvement has been an integral part of BLM's resource management planning (RMP) process from the outset. To date public involvement activities have included a series of information mailers or brochures, public meetings, open houses, field trips, distribution of planning documents, document review and comment periods, informal contacts, group meetings, written letters and responses to comments. Our efforts began in May 1986 with a mailer that asked for comments on the type of public involvement activities that should be conducted in the planning process.

In September 1986, a district mailer outlined the overall planning schedule and requested comments on the first major planning step: Issue Identification. BLM invited the public to identify issues or concerns they believed should be addressed in the RMP process. A news release announcing this step was distributed to the news media. During this planning step, each western Oregon district hosted an open house to help acquaint local citizens with the planning process and schedule and to discuss issues related to the planning process. On September 30, 1986 thirty-six people attended an open house in the Roseburg District Office.

Building on public comments received during the issue identification step, BLM prepared and distributed another district mailer in March 1987, summarizing publicly identified issues and concerns. The mailer also addressed the second and third planning steps: Development of Planning Criteria, including State Director Guidance, and Collection of Inventory Data. The mailer included a schedule of public meetings and/or field trips hosted by each district to review and discuss the technical elements of inventory collection, particularly forest inventory techniques. The mailer also disclosed a proposed element of planning criteria by identifying a proposed timber harvest computer model, and an opportunity for public comment on the model. The Roseburg District hosted two field trips to discuss forest inventory techniques and BLM forest land classification procedures. The first trip on May 14, 1987 to the northern portion of the district was attended by 24 people representing a variety of

interests and organizations. The next day a similar trip to the southern portion of the district was attended by six people. Both trips included a look at a variety of forest land classifications which generated considerable discussion and interaction among participants over the procedures used in the classification process. The field trips provided a forum by which complicated technical procedures could be discussed and demonstrated, and land and resource features could be examined first hand in actual field situations, rather than discussed in an abstract sense in an office environment.

In August 1987, BLM distributed another mailer dealing with Planning Criteria and proposed State Director Guidance. This mailer requested comments on relevant topics for State Director Guidance and included a schedule for public demonstration of the proposed timber harvest computer model. Demonstrations were conducted in Roseburg and Portland in September 1987. Fourteen people attended the Roseburg demonstration of the proposed TRIM-PLUS Allowable Harvest Model. The session included a comparative look and discussion of other harvest models with TRIM-PLUS and a demonstration of how the model works.

In January 1988 a mailer was distributed to inform the public of the upcoming availability of the State Director Guidance Document. Interested publics were asked to return a request to receive a copy of the document.

A draft State Director Guidance Document was mailed to all those who requested copies in May 1988. Additional copies were made available through all district offices, and open houses were held in each district and the state office. The Roseburg District held an open house attended by 22 people on June 9, 1988 to discuss the State Director Guidance Document. A comment period followed, with approximately 70 written responses sent to the state director by the end of August 1988. Proposed revisions to some elements of that guidance and responses to public comments were shared with the original respondents for further comment in several letters during 1989 and 1990.

Appendix 2

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In September 1988, a district mailer outlined the overall planning schedule and requested comments on the first major planning step: forest identification. GDM invited the public to identify issues or concerns they believed should be addressed in the RMP process. A news release announcing the step was distributed in the news media. During the planning step, each western Oregon district hosted an open house to help regional local citizens with the planning process and schedule and to discuss issues related to the planning process. On September 30, 1988, fifty-six people attended an open house in the Roseburg District Office.

Building on public comments received during the issue identification step, GDM prepared and distributed another district mailer in March 1987, summarizing publicly identified issues and concerns. The mailer also addressed the second and third planning steps: Development of Planning Calendar, including State Director Guidance, and Collection of Inventory Data. The mailer included a schedule of public meetings and field trips hosted by each district to review and discuss the technical elements of inventory collection, particularly forest inventory techniques. The mailer also disclosed a proposed schedule of planning efforts by identifying a proposed forest inventory computer model, and an opportunity for public comment on the model. The Roseburg District hosted two field trips to discuss forest inventory techniques and BLM forest land classification procedures. The first trip on May 14, 1987, to the southern portion of the district was attended by 24 people representing a variety of

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In August 1987, BLM distributed another mailer dealing with Planning Calendar and proposed State Director Guidance. This mailer requested comments on relevant topics for State Director Guidance and included a schedule for public demonstration of the proposed TRM-FUS Analysis Process Model. The session included a comparative look and discussion of other harvest models with TRM-FUS and a demonstration of how the model works. Demonstrations were conducted in Roseburg and Portland in September 1987. Four mailer demonstrations were conducted in the form of the proposed timber harvest computer model and included a schedule for public demonstration on relevant topics for State Director Guidance. In August 1987, BLM distributed another mailer dealing with Planning Calendar and proposed State Director Guidance. This mailer requested comments on relevant topics for State Director Guidance and included a schedule for public demonstration of the proposed TRM-FUS Analysis Process Model. The session included a comparative look and discussion of other harvest models with TRM-FUS and a demonstration of how the model works.

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Public involvement has been an integral part of the RMP process from the outset. To date public involvement activities have included a series of information meetings or brochures, public meetings, open houses, field trips, distribution of planning documents, document review and comment periods, informal contacts, group meetings, written letters and responses to comments. Our efforts began in May 1987 with a mailer that asked for comments on the type of public involvement activities that should be conducted in the planning process.

In September 1988, a district mailer outlined the overall planning schedule and requested comments on the first major planning step: forest identification. GDM invited the public to identify issues or concerns they believed should be addressed in the RMP process. A news release announcing the step was distributed in the news media. During the planning step, each western Oregon district hosted an open house to help regional local citizens with the planning process and schedule and to discuss issues related to the planning process. On September 30, 1988, fifty-six people attended an open house in the Roseburg District Office.

Building on public comments received during the issue identification step, GDM prepared and distributed another district mailer in March 1987, summarizing publicly identified issues and concerns. The mailer also addressed the second and third planning steps: Development of Planning Calendar, including State Director Guidance, and Collection of Inventory Data. The mailer included a schedule of public meetings and field trips hosted by each district to review and discuss the technical elements of inventory collection, particularly forest inventory techniques. The mailer also disclosed a proposed schedule of planning efforts by identifying a proposed forest inventory computer model, and an opportunity for public comment on the model. The Roseburg District hosted two field trips to discuss forest inventory techniques and BLM forest land classification procedures. The first trip on May 14, 1987, to the southern portion of the district was attended by 24 people representing a variety of

interests and organizations. The next day a similar trip to the northern portion of the district was attended by six people. Both trips included a look at a variety of forest land classifications which generated considerable discussion and information among participants over the procedures used in the classification process. The field trips provided a forum by which completed technical procedures could be discussed and demonstrated, and land and resource features could be examined first hand in actual field situations, rather than discussed in an abstract sense in an office environment.

In August 1987, BLM distributed another mailer dealing with Planning Calendar and proposed State Director Guidance. This mailer requested comments on relevant topics for State Director Guidance and included a schedule for public demonstration of the proposed TRM-FUS Analysis Process Model. The session included a comparative look and discussion of other harvest models with TRM-FUS and a demonstration of how the model works. Demonstrations were conducted in Roseburg and Portland in September 1987. Four mailer demonstrations were conducted in the form of the proposed timber harvest computer model and included a schedule for public demonstration on relevant topics for State Director Guidance. In August 1987, BLM distributed another mailer dealing with Planning Calendar and proposed State Director Guidance. This mailer requested comments on relevant topics for State Director Guidance and included a schedule for public demonstration of the proposed TRM-FUS Analysis Process Model. The session included a comparative look and discussion of other harvest models with TRM-FUS and a demonstration of how the model works.

In January 1988 a mailer was distributed to inform the public of the upcoming availability of the State Director Guidance Document. Interested public were asked to return a request to receive a copy of the document.

A draft State Director Guidance Document was mailed to all those who requested copies in May 1988. Additional copies were made available through all district offices, and open houses were held in each district and the state office. The Roseburg District held an open house attended by 22 people on June 9, 1988 to discuss the State Director Guidance Document. A comment period followed, with approximately 70 written responses sent to the state director by the end of August 1988. Proposed revisions to some elements of the guidance and responses to public comments were placed with the original respondents for further comment in several letters during 1988 and 1989.

Appendix 3

Guidance for Formulation of Alternatives

Introduction

The purpose of alternatives is to identify a range of reasonable combinations of resource uses and management practices that respond to planning issues and provide management direction for all resources. Five common alternatives will be addressed in each RMP, to provide a consistent set of distinct choices among potential management strategies.

A no change from the existing land use plan alternative will also be addressed. This is the "no action" alternative. In the other alternatives all existing land use decisions not found valid for continued implementation after 1990 (through an analysis summarized in the Analysis of the Management Situation), will be reconsidered.

Common alternatives that identify specific management actions along District boundaries will be consistent. Examples include elk management areas, spotted owl corridors or visual corridors.

This Guidance for Formulation of Alternatives may be modified later based on information identified in the districts' analyses of the management situation, or refinements that flow from the districts' site-specific development of common alternatives.

Goals and Objectives of the Common Alternatives

The purpose of the goal and objective statements for the five common alternatives (A through E) is to guide development of specific criteria. Each alternative, if implemented, is intended to achieve or meet its goal. Goal and objective statements focus on general direction of alternatives rather than technical points in issue-related criteria for the alternatives. In each alternative all resource management values would be accommodated to the extent consistent with the primary goals and objectives for that alternative.

Specific Guidance on Common Alternatives

The common alternatives would differ primarily in the way they allocate primary uses of lands (for example, lands allocated to intensive forest management, and lands allocated to protection of riparian zones).

The discussion on pages 50 through 60 describes criteria for addressing each of the eleven planning issues in the formulation of the common alternatives. It also describes how land use allocations and management actions would vary in response to each issue. Within the specific constraints provided by the guidance for addressing each issue, the districts have flexibility to formulate the common alternatives as they consider appropriate to meet the goals and objectives of each alternative.

Alternative A**Alternative B**

GOALS:

Emphasize high production of timber and other economically important values on all lands to contribute to community stability.

Emphasize timber production to contribute to community stability consistent with the variety of other land uses such as fish and wildlife habitat, recreation, and scenic resources on O&C and CBWR lands. Give equal consideration to all resource values on public domain lands.

OBJECTIVES:

- Produce the highest sustained yield of timber on all suitable forest lands legally available for harvest.
 - Contribute to ecological functions important to timber productivity and to habitat diversity to the extent possible consistent with the allocation for timber production.
 - Manage threatened and endangered species habitat as legally required.
 - Provide Research Natural Areas and eligible Areas of Critical Environmental Concern to the extent consistent with the allocation for timber production.
 - Manage appropriate Congressionally designated areas to maintain and enhance their scenic values.
 - Meet legal requirements for protection of wetlands and water quality, to protect anadromous fish habitat and other relevant values.
 - Emphasize substantial developed and dispersed motorized recreation uses.
 - Find no additional rivers suitable for designation under the Wild and Scenic Rivers Act.
 - Make land tenure adjustments which enhance BLM long-term sustained yield timber harvest opportunities.
 - Provide no special management in rural (residential) interface areas.
- Produce a high sustained yield of timber on O&C and CBWR lands, and on public domain lands where nontimber uses and values are of lesser importance than timber production.
 - Contribute to ecological functions important to timber productivity and to habitat diversity using a system that maintains old growth and mature forest in large and small blocks.
 - Protect habitat of all threatened and endangered species and species with high potential for listing. Protect habitat of other species of substantial concern to the extent consistent with high timber production.
 - Retain existing Research Natural Areas (RNAs) and Areas of Critical Environmental Concern (ACECs). Provide new ones from eligible areas to the extent consistent with the emphasis on timber production.
 - Manage scenic resources in selected areas of high recreation use.
 - Meet legal requirements for protection of wetlands and water quality and provide moderate additional protection for anadromous fish habitat, other substantial streams, and other water.
 - Provide for a wide range of developed and dispersed motorized recreation uses and opportunities, to minimize conflicts among recreation user groups.
 - Find eligible river segments suitable for designation as recreational, if they are important and manageable, and designation would not cause adverse economic impact.
 - Make land tenure adjustments which enhance BLM long-term sustained yield timber harvest opportunities on O&C and CBWR lands, and which benefit a variety of uses and values on public domain lands.
 - Adopt appropriate special forest management practices on BLM-administered lands intermingled with or adjacent to rural interface areas zoned for most dense residential occupancy.

Alternative C

Alternative D

Alternative E

Provide timber production to contribute to community stability consistent with maintenance of biological diversity and the variety of other uses such as fish and wildlife habitat, recreation, and scenic resources on all lands.

- Produce a moderate sustained yield of timber.
- Provide biological diversity using a system that maintains some old growth and mature forest, focusing on protection of areas where special status plant and animal species cluster.
- Protect habitat of all threatened and endangered species and species with high potential for listing. Protect habitat of other species of substantial concern through emphasis on biological diversity and to the extent consistent with moderate timber production.
- Retain existing RNAs and ACECs. Provide new ones from eligible areas except where lands managed by others are considered to provide more appropriate opportunities.
- Manage scenic resources in selected high use areas, particularly emphasizing protection in corridors of existing and proposed wild and scenic rivers and major trails.
- Provide substantial protection for anadromous fish habitat, other substantial streams and other water environments.
- Provide for a wide range of recreation opportunities emphasizing dispersed use, while reducing conflicts among recreational user groups.
- Find eligible river segments suitable for designation as scenic or recreational, if they are important and manageable, and designation would not cause adverse economic impact.
- Make land tenure adjustments to benefit a variety of uses and values.
- Adopt appropriate special forest management practices in rural interface areas zoned for moderate or high density residential occupancy.

Emphasize protection and reestablishment of spotted owl habitat, along with management and enhancement of other values such as dispersed nonmotorized recreation opportunities and scenic resources, while sustaining some timber production.

- Produce a sustained yield of timber consistent with allocations for other uses and values.
- Protect habitat of the spotted owl in accordance with the Owl Conservation Strategy.
- Protect habitat of all threatened and endangered species, species with high potential for listing, and species of related concern.
- Retain all existing RNAs and ACECs. Provide new ones from eligible areas except where lands managed by others are considered to provide more appropriate opportunities.
- Manage all identified scenic resources.
- Provide substantial protection for wetlands and riparian areas along most streams and other water.
- Emphasize dispersed nonmotorized recreation opportunities.
- Find eligible river segments suitable for designation as wild, scenic or recreational, if they are important and manageable.
- Make land tenure adjustments which would emphasize enhancement of nontimber uses and values.
- Adopt special timber harvest and forest management practices in rural interface areas zoned for moderate or high density residential occupancy.

Emphasize protection of older forests and management and enhancement of values such as dispersed nonmotorized recreation opportunities and scenic resources.

- Produce a sustained yield of timber consistent with allocations for other uses and values.
- Protect all old growth and older mature forests.
- Protect habitat of all threatened and endangered species, species with high potential for listing and species of related concern.
- Retain all existing RNAs and ACECs and designate all eligible areas.
- Manage all identified scenic resources and provide some visual resource protection for all lands.
- Manage all riparian areas and wetlands to maintain and improve water quality and fisheries habitat, and contribute to wildlife habitat diversity.
- Emphasize dispersed nonmotorized outdoor recreation opportunities.
- Find all eligible river segments suitable for designation as wild, scenic or recreational rivers.
- Make land tenure adjustments which would emphasize enhancement of nontimber uses and values.
- Adopt special timber harvest and forest management practices extensively buffering rural interface areas zoned for moderate or high density residential occupancy and other rural interface areas as appropriate.

Issue No. 1: Timber Production Practices: Which forest lands should be available for timber management, and what practices should be used on those lands?

Guidance for All Common Alternatives: Lands allocated to intensive forest management under any of these alternatives would normally provide the highest nondeclining harvest level (even flow) of timber when the following conditions prevail:

- Effective silvicultural techniques (such as clear cutting, shelterwood or partial cutting) appropriate to the land allocations are used.
- All feasible site preparation and intensive management practices are applied.
- Anticipated merchantability is the only constraint on minimum average stand diameter slated for future harvest. (In some areas this may result in harvest of timber stands as young as 40 years for several decades during the early to middle part of the next century under some alternatives.)
- Adequate budgets are available to support the resultant timber sale program and allied intensive management practices, as well as scheduled monitoring linked to those activities.

The common alternatives assume these practices and conditions on the lands allocated to intensive timber management, but incorporate less intensive management practices on other available forest lands to the extent needed to be consistent with the allocation of those lands.

Where consistent with the goals and objectives of each alternative, the following silvicultural and harvest practices would be implemented on lands allocated primarily to timber management, to meet multiple land use objectives:

Minimize regeneration delay by reforesting harvested sites as soon as practical. Calculate an empirical regeneration period based on representative stocking survey results, expected timber sale contract lengths and management objectives.

Reforest harvested lands with indigenous commercial tree species. Emphasis would be placed on utilization of genetically improved stock in accordance with the Western Oregon Tree Improvement plan.

Manage tree seed orchards to produce adequate supplies of genetically improved seed.

Use available site preparation and seedling protection practices, including herbicides, using an integrated vegetation management approach. Emphasize those techniques that have proved most effective in assuring seedling survival and growth. (Actual practices will be based on site-specific analysis following completion of the RMP.)

Convert to conifers those lands classified as commercial forest lands presently occupied by grass, hardwoods and brush.

Allocate all forest lands for timber production consistent with the management direction for other resources (Issue Nos. 2 and 3, etc.) in this alternative, except the following:

Nonsuitable Woodland (See Figure 3-1 for Chart showing TPCC categories.)

Alternative B	Alternative C	Alternative D	Alternative E
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Allocate all forest lands for timber production consistent with the management direction for other resources in this alternative, except the following:

- Nonsuitable Woodland
- Suitable Woodland - Low Site

Allocate all forest lands for timber production consistent with the management direction for other resources, except the following:

- Nonsuitable Woodland
- Suitable Woodland - Low Site
- Suitable Woodland - Nonsuitable
- Commercial Forest Land

Allocate all forest lands for timber production consistent with the management direction for other resources, except the following:

- Nonsuitable Woodland
- Suitable Woodland - All Categories

Allocate all forest lands for timber production consistent with the management direction for other resources, except the following:

- Nonsuitable Woodland
- Suitable Woodland - All Categories
- The Fragile Gradient-Restricted component of the Fragile
- Suitable TPCC category
- Site Class V

Issue No. 1 (Continued)

Plan hardwood sites for management of a sustained yield of hardwoods, where consistent with allocations for other uses or values.

Implement commercial thinning of present and future stands where practicable and where research indicates increased gains in timber production are likely.

Practice initial spacing control of seedlings/saplings through planting or thinning in conjunction with the control of competing vegetation, to maximize wood production by concentrating site resources in individual tree growth.

Plan nitrogen fertilization applications for all present and future stands where research indicates increased wood yields would result.

Plant specific root disease centers with resistant tree species.

Consider uneven-age management in stands where this method would be economically feasible and would maintain environmental values.

Consider efficiency of field operations and assurance of prompt reforestation in selecting the size of timber harvest units.

Apply proper soil management measures to maintain soil productivity.

Issue Nos. 2 and 3: Old-Growth Forests and Habitat Diversity

To what extent and where should old-growth and/or mature forest habitats be retained, maintained or reestablished to meet various resource objectives? To what extent and where should BLM manage habitat to support populations of native wildlife species?

Any wildlife habitat management practice (such as nest boxes, road closures and forage seeding) not listed in the following could be implemented under any of the alternatives, as long as it is compatible with other management objectives. All special habitat features would be managed to protect their values. Mature and old-growth forests would be retained where Congressional designation of areas requires it. Snags and/or wildlife trees (to be converted to snags) would be retained where they occur on lands not allocated to timber harvest, except where public safety is a concern, and if left standing as nonmerchantable material on available forest lands. Where it would contribute to meeting wildlife tree objectives, create snags in areas not allocated primarily to timber production. A habitat goal of timber sale contracts would be to leave all snags and nonmerchantable trees that can be left consistent with safety considerations.

Mature and old-growth forests would be retained on most lands excluded from planned timber harvest by inclusion in the following allocations and TPCC categories:

Nonsuitable Woodland
Riparian Management Areas
Existing high-use recreation sites
T&E species recovery areas where timber harvest is prohibited
Wilderness Areas

Alternative B

Alternative C

Alternative D

Alternative E

Contribute to habitat diversity using a system that protects mature and old-growth forest in large and small blocks. Mature and old-growth components of the forest would be distributed in a corridor system by seed zone and elevation. In the corridor system large blocks of approximately 640 acres would be connected by a series of small, stepping stone blocks of approximately 80 acres, spaced at about one-mile intervals. Blocks would be limited to defined corridor areas.

Public Domain lands and the following allocations and TPCC categories on O&C and CBWR would receive priority for placement into the system, to the extent that they fit; for instance, if they provide needed habitat and are suitably located to contribute to the system.

- Nonsuitable Woodland
- Suitable Woodland - Low Site
- Riparian Management Areas
- Recreation Sites
- T&E species recovery areas where timber harvest is prohibited
- Special Areas (Natural Areas, ACECs)
- Wilderness Areas

This alternative would provide for intensive management of wildlife habitat and maintenance of biological diversity. It would strive to attain a balance of forest seral stages and associated plant and animal communities. Varying sized blocks of mature and old-growth forests would be spatially distributed over BLM-administered land, focusing on protection of identified areas where special status plants and animal species cluster. Where clustering is not apparent, alternative design would focus on seral stage balance and spatial distribution. The old-growth stands and other stands intended to attain old-growth status would be excluded from timber harvest except where other management is appropriate to benefit the special status species.

Public Domain lands and the following allocations and TPCC categories on O&C and CBWR would receive priority for placement into the system, to the extent that they are suitably located:

- Nonsuitable Woodland
- Suitable Woodland - Low Site
- Suitable Woodland - Nonsuitable Commercial Forest Land

This alternative would manage habitats on BLM-administered lands to provide for a number and distribution of spotted owls that ensures continued existence of a well distributed population on those lands, so they may interact with spotted owls throughout the geographic range of the species, as recommended by the Conservation Strategy for the Northern Spotted Owl.

Suitable wildlife trees would be retained to contribute to the maintenance of cavity-dweller populations on BLM-administered lands at 60 percent of the optimum population level. Wildlife tree and down log management practices would be used on the available forest lands, including but not limited to retention of green culls, snags and down logs. All special habitat features would be appropriately buffered.

This alternative would preserve the following:

- all existing forest stands over 150 years old.
- additional lands proximate to the above stands, to assist in maintaining natural ecological elements, protect the older stands from edge effect and natural disaster, and interconnect them into a sustainable network.
- within two miles of each spotted owl nest or habitat core occupied by a pair of owls in the last three years, at least the acreage (where available) of suitable habitat considered to provide a high probability of continued occupancy by a pair of owls.

In addition to retention of wildlife trees on lands not allocated to timber management, suitable wildlife trees would be retained to contribute to the maintenance of cavity-nester populations at 60 percent of the maximum potential population level on lands allocated

Issue Nos. 2 and 3 (Continued)

Issue No. 4: Threatened and Endangered (and Other Special Status) Species Habitat

What should BLM do to manage Federally listed threatened or endangered plants and animals and to prevent future Federal listing of plants and animals as threatened or endangered species?

Protect, monitor and manage habitats of Federal listed and proposed species in accordance with the Endangered Species Act and recovery plans, as legally required for self-sustaining survival.

Timber production constraints would be assumed in the formulation of the alternative only if critical habitat has been designated or there is a recovery or conservation plan within a month after completion of the Analysis of the Management Situation. Manage for the conservation of, and mitigate actions to protect habitats of, Federal Candidate, State Listed and Bureau Sensitive species where such actions would not diminish commercial use such as timber production.

Issue No. 5: Special Areas

What areas on BLM-administered lands need special management to prevent irreparable damage to important historic, cultural or scenic values; to protect botanical or fish and wildlife resources or other natural systems or processes; and to protect life and safety from natural hazards? Which of these areas should be formally designated as Areas of Critical Environmental Concern (ACEC)?

Any areas considered appropriate for Research Natural Area (RNA) designation would also be considered appropriate for ACEC designation.

Designate potential ACECs that meet criteria only if the relevant values are not protected by other authorities (e.g., Wild River designation, the Endangered Species Act). Existing ACECs and potential ACECs that meet the preceding standard, including RNAs and proposed RNAs, would be retained or designated on nonforest lands or nonsuitable woodlands of no substantial mineral potential. Other existing ACECs and RNAs would be revoked.

Alternative B**Alternative C****Alternative D****Alternative E**

Suitable wildlife trees and/or snags would be retained to contribute to the maintenance of cavity-dweller populations on BLM administered lands at 40 percent of the optimum population level. Wildlife tree management practices would be used on the available forest lands, including retention of green culls and snags.

Riparian Management Areas
Recreation Sites
T&E species recovery areas where timber harvest is prohibited
Special Areas (Natural Areas, ACECs)
Wilderness Areas

Also incorporated would be a system of experimental habitat management areas (HMAs) established at strategic locations on BLM-administered lands, selected from proposed Category 1 and 2 HCAs in the scientific committee's Spotted Owl Conservation Strategy and other key spotted owl habitats. A habitat management plan prepared for each HMA would specify strategies for intensively managing the habitat for the long term existence of the spotted owl, including transplanting owls from one area to another, silvicultural practices to enhance habitat for owls and other appropriate measures.

Suitable wildlife trees would be retained to contribute to the maintenance of cavity-dweller populations on BLM administered lands at 60 percent of the optimum population level. Wildlife tree and down log management practices would be used on the available forest lands, including but not limited to retention of green culls, snags and down logs. All special habitat features would be appropriately buffered.

Same as Alternative A, except protect habitats of Federal Candidate, State Listed and Bureau Sensitive Species to the full extent on public domain land, and protect habitats of Federal Candidate (i.e., Category 1 and 2) species known only to occur on BLM-administered lands to the extent considered necessary to prevent their federal listing.

Same as Alternative B except for additional protection of special status species provided by criteria for Issues 2 and 3.

Manage all BLM-administered lands to support the conservation and protection of all Federal Candidate, State Listed, and Bureau Sensitive species and their habitats.

Same as Alternative D.

Retain all existing ACECs and RNAs. Designate potential ACECs that meet criteria only if the relevant values are not protected by other authorities. Do not allocate new RNAs on available O&C or CBWR land if a similar feature can be protected on a National Forest. Designate all potential ACECs (including RNAs) on Public Domain lands, nonforest lands, nonsuitable woodlands, and other lands allocated to nontimber uses.

Retain all existing ACECs and RNAs. Designate potential ACECs that meet criteria only if the relevant values are not protected by other authorities.

Retain all existing and designate all potential ACECs.

Same as Alternative D.

to timber management. Wildlife tree and down log management practices would be used on the available forest lands, including but not limited to retention of green culls, snags and down logs. All special habitats would be appropriately buffered.

Issue No. 6: Visual Resources

Which, if any, areas of BLM lands should be managed to reduce visual impacts or enhance visual (scenic) quality?

Note: Guidance for Issue 11 (Rural Interface Area Management) also addresses and defines visual resource management for Alternatives B, C, D and E in rural interface areas, except where this Issue 6 guidance sets a higher standard of visual resource management. Guidance for Issue 9A (Wild and Scenic Rivers) establishes criteria that will substantially dictate visual resource management by alternative in proposed wild and scenic river corridors. See Issue 9A and Issue 11 guidance for details.

Provide VRM Class I management within existing boundaries designated by Congress for exclusive management. Manage all other available (for timber harvest) forest land under VRM Class IV management objectives. Manage other lands as inventoried.

Issue Nos. 7 and 8: Stream/Riparian/Water Quality

Where and how should riparian zones be managed to protect and improve water quality, fisheries and wildlife habitat? What actions should be undertaken to comply with state water quality standards? What should BLM do to manage for special needs such as municipal and domestic use?

Guidance for All Common Alternatives: Establish Riparian Management Areas (RMAs) on perennial streams (generally, 3rd order and larger streams), lakes, ponds and other waters, to meet Oregon Forest Practices Act requirements and Oregon water quality standards. Typical average widths of RMAs by alternative are displayed in Table 1. Within those RMAs no lands would be considered "available" (to offer timber for sale as part of the allowable sale quantity). Some timber harvest may occur, however, to achieve resource management objectives. These activities may include road construction and yarding corridors across streams and riparian zones to facilitate timber harvest outside the RMA.

Logging, road building and site preparation methods would be designed to minimize the number and/or size of mass soil movements and to maintain the integrity of the RMAs. Other activities such as mining, recreation and ORV use would be regulated to protect water quality. Stream and riparian habitat improvement measures may be taken on any streams to improve water quality, fish habitat and/or wildlife habitat. Activities would be designed to meet Oregon Forest Practices Act (OFPA) requirements and Oregon water quality standards.

Comply with written agreements with public water systems serving municipalities.

Issue No. 9: Recreation Resources

What areas or sites should be designed and/or managed to protect or enhance a variety of recreational opportunities?

Manage for dispersed recreation activities consistent with managed forest settings, including hunting, fishing, sightseeing, riding/hiking, and rafting. Maintain and manage existing recreation facilities which make available significant dispersed recreation opportunities, including recreation sites, boat ramps, trails, interpretive signs and related improvements. Manage existing Special Recreation Management Areas (SRMAs) and delineate Extensive Recreation Management Areas (ERMAs).

Manage existing high-use recreation sites and trails and expand them where needed. Close low use recreation sites and trails. Designate lands open to off-road vehicles (ORV) and leave roads open to motorized use, except where such designation would conflict with other allocations.

Alternative B	Alternative C	Alternative D	Alternative E
Provide VRM Class I management within existing boundaries designated by Congress for exclusive management. Manage as inventoried all available forest land adjacent to (within a quarter mile) developed recreation sites, state and federal highways, state scenic waterways, and rivers designated under the federal Wild and Scenic Rivers Act. Manage all other available forest land under VRM Class IV management objectives. Manage other lands as inventoried.	Same as Alternative B, except on available forest land where federal land ownership makes up more than half of a watershed, manage lands as inventoried.	Manage all lands as inventoried.	Same as Alternative D, except manage as VRM Class III all BLM-administered lands inventoried as Class IV; and manage as VRM Class I BLM-administered lands adjacent to (within a quarter mile) developed recreation sites, state and federal highways, state scenic waterways and rivers designated under the federal Wild and Scenic Rivers act.

Table 3-1. Riparian Management Areas

Stream Order	Average RMA Width* (each side of the stream in feet)				
	ALT. A	ALT. B	ALT. C	ALT. D	ALT. E
1					50
2				60	60
3	75	75	105	140	140
4	75	100	150	200	200
5	75	140	210	280	280
6	75	160	240	320	320
Lakes, Ponds & Other Waters	75	100	150	200	200

* Actual RMA widths would be determined by on-the-ground riparian vegetation, terrain and stream characteristics, but would be a minimum of 50 feet on all 3rd order and larger streams. First and second order streams would have RMAs designated if perennial or if the beneficial uses warrant.

Same as Alternative A, except support the State's Regional Economic Development Plan for the geographic area, retain options for new SRMAs and high value potential recreation sites and trails on Public Domain lands, maintain and/or improve all existing developed recreation sites, and consider reopening sites closed in recent years.	Allocate and manage new SRMAs. Continue management of all existing recreation sites and trails, and consider reopening sites closed in recent years. Emphasize wildlife viewing, interpretation and related old-growth forest recreation opportunities, both to attract nonlocal visitors and to serve local users. Retain options for future development of high value potential sites, trails and sightseeing opportunities. Impose additional ORV limitations or road closures to protect wildlife habitat or old-growth forest recreation opportunities, minimize conflicts with hikers and horseback riders, or meet other resource objectives.	Same as Alternative C, except manage for an optimum range of nonmotorized recreation. Retain options for future development of recreation sites and facilities for dispersed recreation opportunities. Retain existing pockets of old-growth forest that are both adjacent to and accessible from existing or potential recreation areas. Prohibit ORV and road use as appropriate to improve wildlife habitat or protect the ecosystem.	Same as Alternative D.
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Issue No. 9A: Wild and Scenic Rivers

What, if any, rivers should be found suitable for designation?

Provide interim protection for all river segments determined to be suitable, until Congressional action on BLM plan recommendations. Interim protection should be appropriate to the highest category for which the river is determined to be suitable. Manage Congressionally designated rivers consistent with their designation.

No rivers found suitable for designation under any classification.

Issue No. 10: Land Tenure

In what areas would BLM-administered lands be sold, exchanged or transferred out of federal ownership under other authorities to improve management efficiency and benefit resource program objectives? In what areas would BLM attempt to acquire lands to improve management efficiency and benefit resource program objectives?

A major lands program effort would use exchanges to consolidate land ownership patterns to benefit one or more of the resources managed, such as timber, watershed, wildlife habitat, recreation, cultural, botanical, and minerals.

Land tenure adjustment would be guided by a three-zone concept utilizing the following standards:

Zone 1 includes areas currently identified as having high public resource values, and other efficiently managed lands. The natural resource values may require protection by federal law, Executive Order or policy. These lands may have other values or natural systems which merit long term public ownership. They do not meet the criteria for sale under FLPMA Section 203(a) and would generally be retained in public ownership. The Zone 1 boundaries should be relatively close to or on BLM property lines except where the intent is to show preferred acquisition areas.

Zone 2 includes lands that are suitable for exchange because they form discontinuous ownership patterns, are less efficient to manage than Zone 1 lands, and may not be accessible to the general public. Where appropriate opportunities are identified, these BLM-administered lands may be exchanged for other lands in Zones 1 or 2, transferred to other public agencies, or given some form of cooperative management. These lands would not be expected to meet the criteria for sale under Section 203(a), and would not be identified as suitable for such sale.

Zone 3 includes lands that are scattered and isolated with no known unique natural resource values. Zone 3 lands are available for use in exchanges for private inholdings in Zone 1 (high priority) or Zone 2 (moderate priority). They are also potentially suitable for disposal through sale

Exchanges would be made to acquire lands which would enhance the nondeclining harvest level of the commercial forest land managed by BLM, by improving age class distribution or other harvest level determination factors. Factors to consider include site quality, access to public forest land, logical logging units, and management of public forest land to facilitate timber harvest. No exchanges would be made to acquire lands more valuable for nontimber uses. No commercial timberland would be sold or leased. Leases or conveyance of land in Zones 2 and 3 other than commercial timberland would be made under the Recreation and Public Purposes Act to provide appropriate facilities or services.

Alternative B

Alternative C

Alternative D

Alternative E

No rivers found suitable for designation as wild or scenic. River segments eligible for wild, scenic or recreational classification found suitable for designation as recreational, if all of the following circumstances exist:

- no net adverse economic impacts on the local economy.
- river segment possesses at least one outstandingly remarkable value for which it is considered by BLM to be the top river in the State Comprehensive Outdoor Recreation Plan (SCORP) region.
- BLM can effectively manage the outstanding values of the river segment.

River segments eligible for scenic or recreational river status found suitable for designation consistent with their highest potential classification, and river segments eligible for wild classification found suitable for designation as scenic, if all of the following circumstances exist. If only the economic impact test is not met, find suitable for designation as recreational.

- no net adverse impacts on the local economy.
- river segment possesses at least one outstandingly remarkable value for which it is considered by BLM to be among the top two rivers in the SCORP region.
- BLM can effectively manage the outstanding values of the river segment.

Eligible river segments found suitable for designation consistent with their highest potential classification if the following circumstances exist.

- river segment possesses at least one outstandingly remarkable value for which it is considered by BLM to be among the top four rivers in the SCORP region.
- BLM can effectively manage the outstanding values of the river segment.

All eligible river segments found suitable for designation consistent with their highest potential classification.

Exchanges of O&C and CBWR lands would be made primarily to acquire lands which would enhance timber management opportunities. Exchanges of public domain lands would be made to benefit one or more of the resources managed, including nontimber values. Sale of O&C and CBWR lands other than available commercial forest lands, and of public domain lands, would be made to dispose of lands that meet any of the criteria of FLPMA Section 203(a). Leases on such lands would be made to accommodate other uses. Leases or conveyances under the Recreation and Public Purposes Act would be made in Zones 2 and 3 to provide appropriate facilities or services.

Same as Alternative B, except emphasis would also be given to exchanges of O&C and CBWR lands that would contribute to conservation of biological diversity.

Land exchanges would be made to benefit one or more of the resources managed. Exchanges involving disposal of timber to acquire lands containing greater nontimber values would be emphasized. Sales of lands other than available commercial forest lands would be made to dispose of lands that meet criteria (1) or (2) of FLPMA Section 203(a), but sales of land that meet only criterion (3) would not be made. No lands would be leased, except leases and conveyances under the Recreation and Public Purposes Act would be made in Zones 2 and 3 to provide facilities or services for the benefit of the public.

Same as Alternative D.

Issue No 10. (Continued).

under FLPMA Section 203(a) if important recreation, wildlife, watershed, threatened or endangered species habitat, and/or cultural values are not identified during disposal clearance reviews and no viable exchange proposals for them can be identified. The discussion of Zone 3 lands must state which of the disposal criteria in FLPMA, Section 203(a), apply. Zone 3 lands would also be available for transfer to another agency or to local governments, as needed to accommodate community expansion and other public purposes.

Issue No. 11: Rural Interface Area Management

Which BLM-administered lands should be allocated to receive special management practices due to the concerns of residents who live in close proximity? (Rural interface areas are areas where BLM-administered lands are adjacent to or intermingled with privately owned lands where county zoning has created or allows for creation of lots as small as 1 to 20 acres. In most rural interface areas concerns of the residents are related to forest management practices, visual quality and potential affects on domestic water sources and water supplies.)

No special management actions except those that address other issues.

Sensitivity Analyses

Sensitivity analysis is a process of examining specific trade-offs which would result from making changes in single sensitive elements of an alternative. Such analyses will be particularly helpful in developing the preferred alternative, to make it most effective in reconciling potential conflicts and optimizing overall benefits. The sensitivity analyses will have the further benefit of informing the public about certain trade-offs, which should facilitate their offering information preferences in their comments on the Draft RMP/EIS.

Sensitivity Analyses of Land Use Allocations

Some specific land-use allocations and other decision

elements will be subjected to sensitivity analysis at the same time as preliminary analysis of impacts of the initial array of plan alternatives and prior to selection of a preferred alternative. This analysis will identify approximate opportunity costs associated with differing approaches to the most sensitive land use allocations and decision elements.

Because of the number of land use allocation issues and alternatives, sensitivity analysis must be tightly focused to be manageable. The analysis, therefore, will focus on mid-range alternatives. At a minimum, the following will be analyzed for Alternatives B, C and D and the preferred alternative:

- Effects on timber harvest (ASQ) and related jobs and county revenues, and on cavity dwellers, of substituting the next higher and next lower alternative levels of snag

Alternative B

Alternative C

Alternative D

Alternative E

On BLM-administered lands within one quarter mile of private lands in identified rural interface areas zoned for 1 to 5-acre lots, customary forest management practices would be altered, where realistically feasible, to mitigate the adjacent neighbors' concerns (i.e., management would look for alternative methods of practicing intensive forest management). Examples of management options include harvest regimes other than clearcutting, hand application rather than aerial application of herbicides and pesticides, inclusion of additional buffers for domestic water sources, and hand piling slash for burning as opposed to broadcast burning. All BLM-administered lands within a quarter mile of designated rural interface areas (1 to 5-acre lots) would be managed for VRM class III objectives.

Same as Alternative B except that lands zoned for 1 to 20-acre lots would also be included as the rural interface area.

On BLM-administered lands within one quarter mile of private lands in rural interface areas zoned for 1 to 20-acre lots, there would be no herbicide spraying, no clear cutting, and no prescribed burning. BLM-administered lands within this area would be managed for VRM class II objectives.

Same as Alternative D except BLM-administered lands within one half mile of private lands in rural interface areas would be managed as discussed in Alternative D. Areas zoned for lots larger than 20 acres, but with tax lots of 20 acres or less and/or existing legal multiple residences, may also be addressed in this alternative.

and wildlife tree protection, and of providing for no specific protection of cavity nesters on suitable forest or woodland.

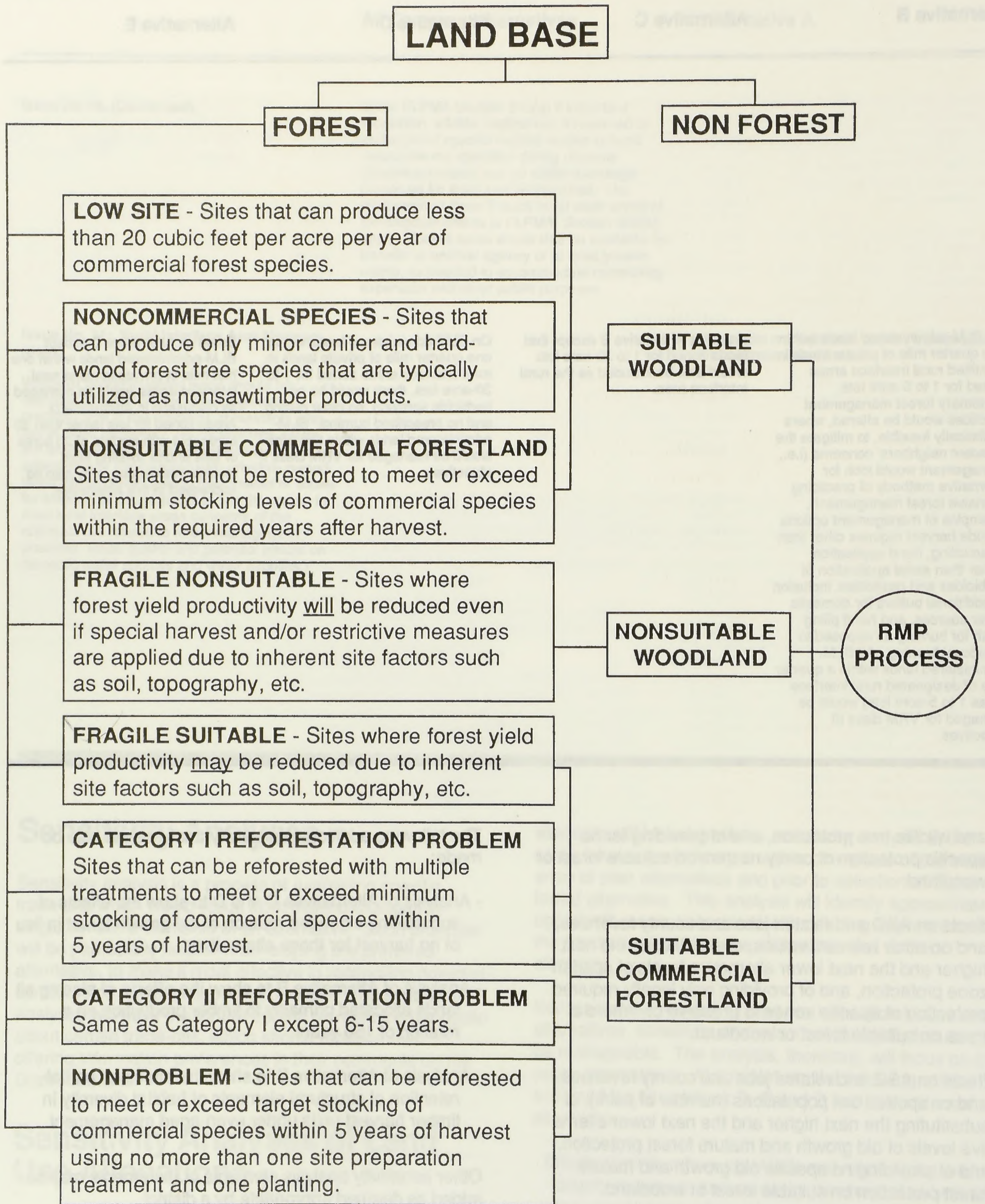
- Effects on ASQ and related jobs and county revenues, and on other relevant values, of substituting the next higher and the next lower alternative levels of riparian zone protection, and of providing only legally required protection of riparian zones to preserve commercial trees on suitable forest or woodland.
- Effects on ASQ and related jobs and county revenues, and on spotted owl populations (number of pairs), of substituting the next higher and the next lower alternative levels of old growth and mature forest protection, and of providing no specific old growth and mature forest protection on suitable forest or woodland.

The following additional sensitivity analyses will also be made:

- Analysis of Alternatives C and D to show the effects of substituting extended rotation of old growth forest in lieu of no harvest for those alternatives.
- Analysis of Alternative B to show the effects of placing all lands allocated primarily to timber production on a rotation of 150 years.
- Analysis of Alternative B to show the effects of partial retention of structural elements of habitat diversity in timber harvest units under even-aged management.

Other sensitivity analysis elements or increments may be added as deemed appropriate by a district.

Figure 3-1



Sensitivity Analysis of Timber Management Prescriptions

For the preferred alternative, the following potential nondeclining timber harvest levels (even flow) or potential allowable sale quantities will be calculated and displayed. Attendant local employment and county revenues will be identified, along with the related long term sustained yield of timber, and any other relevant, identifiable effects.

1. The nondeclining harvest level under the conditions de-

Estimated effects on ASQ, together with resulting local employment and county revenues for each analysis, will be quantified and arrayed as in Table 3-2. Effects on other resource attributes will be quantified only where available analytical techniques are readily applicable. Otherwise, effects will be compared to relevant environmental consequence conclusions for the basic plan alternatives.

Table 3-2 Sensitivity Analysis of Land Use Allocations (partial example using common alternatives)

Allocation or Decision Element	Base Alternative	Allocation or Element From Alternative	ASQ Change	Local Employment Change	County Revenue Change	Other Effect Changes
Snag and Wildlife Tree Protection	B,C	D No Protection				
	D	C E No Protection				
Riparian Zone Protection	B	A				
	C	C A B				
	D	D A C E				
Old Growth and Mature Forest Protection	B	C No Protection Partial Retention of Structure				
	C	B D				
		No Protection Partial Retention of Structure Extended Rotation				
	D	C E No Protection Extended Rotation				
Timber Harvest Rotation Length	B	150 Year Minimum				

scribed in the first two paragraphs of Guidance for All Common Alternatives for Issue 1.

2. The nondeclining harvest level if no stands younger than culmination of mean annual increment (CMAI) were planned for final harvest, and if all appropriate intensive management practices are applied. The number of years needed to reach CHAI would be determined separately for each selected site class, using appropriate growth and yield data simulation, such as the Stand Projection System Model or Organon. The site indexes to be used would be the same as those calculated from the extensive forest inventory and used in simulating growth and yield.

3. The nondeclining harvest levels if minimum average tree diameter of a stand to be harvested were constrained at 12 inches, at 16 inches, at 20 inches, and at 24 inches. The number of years needed to reach each size would be determined as in 2 above, based on growth and yield data.

4. The nondeclining harvest level if each of the following intensive management practices were not used (A separate calculation for each prospectively foregone practice):

- planting of genetically improved stock
- fertilization
- precommercial thinning
- commercial thinning
- brush and hardwood conversion

5. The nondeclining harvest level if only the base program (site preparation, planting including genetically improved stock, protecting seedlings, and plantation release) were funded; and fertilization, precommercial thinning, commercial thinning and stand conversion were foregone.

6. The nondeclining harvest level if prescribed burning were prohibited or abandoned for other reasons.

7. The nondeclining harvest level if all use of herbicides to aid timber production were prohibited, or abandoned for other reasons.

8. The nondeclining harvest level that would result if 5, 6 and 7 all occurred.

9. The nondeclining harvest level that would result if currently forested commercial forest lands that are expected to be economically infeasible to harvest were removed from the available forest land base. (To be displayed only in plans where the potential harvest level for a sustained yield unit would change by more than 1 MMBF.)

10. The nondeclining harvest level if intensive management practices considered economically marginal were not used.

11. The harvest level that would result if a departure of as much as 10 percent above the nondeclining harvest level shown in sensitivity analysis 2 were selected, provided that any increase does not exceed the long term sustained yield capacity. The harvest level in subsequent decades must not fall more than one percent below the nondeclining harvest level for sensitivity analysis 2. The potential departure would not exceed that needed to match recent timber supply levels in the market area, as defined by the Local Market Model being developed at the PNW Research Station, USFS. The period for which departure would be calculated would be the period of anticipated regional timber supply deficiency identified for the market area in recent studies.

These sensitivity analyses will assist BLM in identifying a proposed set of prescriptions for the preferred alternative. They will also identify the impacts of possible future adjustments in timber management prescriptions that may occur as a result of actions outside BLM's control.

Table 3-3. Sensitivity Analysis of Timber Management Prescriptions, Preferred Alternative

Sensitivity Analysis	ASQ	Local Employment	County Revenue	Other Effects
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

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