



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

Prineville District Office 3050 N.E. 3rd Street, Prineville, Oregon 97754

November 1999

Draft John Day River Management Plan and Environmental Impact Statement

Volume 2 - Appendices

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interest of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

BLM/OR/WA/ES-00/003+1792

DRAFT JOHN DAY RIVER MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

November 15, 1999

Dear Friend of the John Day River,

This document is the Draft John Day River Management Plan and Environmental Impact Statement (EIS). Release of this document initiates a 90 day public comment period on its contents. The partners who developed this plan and EIS hope you consider the issues, alternatives and impacts described and let us know what you think.

Please send your comments to:

John Day River Plan Bureau of Land Management PO Box 550 Prineville, Oregon 97754

Deadline for comments is **March 3, 2000.** Comments received after that date can not be guaranteed to be considered in development of the final decisions.

Open house public meetings will be held from 7 pm to 9 pm in the following locations;

January 11th

Travel Lodge 521 6th Street Redmond, Oregon

January 19th

Wheeler County Courthouse Fossil, Oregon

January 12th

BLM Office 1717 Fabry Road SE Salem Oregon

January 20th

Senior Citizens Center 142 NE Dayton John Day, Oregon January 13th

Best Western Sunnyside Inn 12855 SE 97th Clackamas, Oregon

These meetings are designed to answer your questions and receive your comments in small groups. You may come at anytime during the open house.

Sincerely,

larrv R. Cosoriffe

Field Manager Central Oregon Resource Area

DRAFT JOHN DAY RIVER MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

The following partners participated in development of this Draft Management Plan and Environmental Impact Statement and will collaborate in development of thge final document.

James L. Hancock District Manager USDI Bureau of Land Management

Robert L. Meinen Director Oregon Parks and Recreation Department

Robert A. Brunoe General Manager Department of Natural Resources Confederated Tribes of the Warm Springs Reservation of Oregon

Dennis Reynolds John Day River Coalition of Counties

Paul Donheffner (/// Director Oregon State Marine Board

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Gordon E. Cannon Superintendent Warm Spring Agency USDI Bureau of Indian Affairs

Acting

DRAFT JOHN DAY RIVER MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

1. Responsible Agency: United States Department of the Interior, Bureau of Land Management

2. Draft (X) Final ()

3. Administrative Action (X) Legislative Action ()

4. Abstract: The Draft John Day River Management Plan and Environmental Impact Statement have identified at least five alternatives for managing various resources and programs along almost 200 river bank miles of the John Day River System. The John Day River is one of the longest free flowing river systems in the continental United States. The John Day watershed is located in northeastern Oregon and encompasses all or portions of eleven counties, six of which would be directly affected by the proposed plan. This draft document has divided the John Day River system into 11 different segments for management purposes. Congress designated portions of several of these segments (147.5 miles) as Wild and Scenic in 1988. This legislation also mandated a management plan be written in cooperation with the State of Oregon and affected Native American Tribes. Consequently, this plan was written as a cooperative effort between the BLM, State of Oregon, Confederated Tribes of Warm Springs Reservation of Oregon, USDI Bureau of Indian Affairs and John Day River Coalition of Counties, which consists of Gilliam, Grant, Jefferson, Sherman, Wasco and Wheeler Counties.

Public comments during the scoping period helped the partners in this plan identify numerous issues to be resolved by this plan. The major issues addressed by this plan include livestock grazing, boating use levels, commercial services, motorized boating, and public agricultural lands and related water use. Many other issues are also addressed by this plan. Alternative A describes the existing management situation for each resource or use (no action). The other alternatives are all designed to protect and enhance the outstanding remarkable values which Congress identified for the designated Wild and Scenic segments and to protect and enhance similar river values for certain non-designated segments. Chapter IV of this document proposes rulemaking by the State of Oregon for the State Scenic Waterway segments of the John Day River, most of which overlaps with designated Wild and Scenic segments.

This draft proposes certain restrictions on each livestock grazing allotment along the segments designated Wild and Scenic and certain segments not so designated where they are situated in a way that directly affects the designated segments. Boating use levels and motorized boating restrictions, which vary by river segment, are proposed. Limitations on the number of commercial outfitter and guide permits are proposed for the river. Several small tracts of BLM administered irrigated agricultural lands are proposed either to continue to be used for commercial crops, propagating riparian vegetation, returned to native vegetation, and/or used to provide wildlife habitats. These proposals differ for each specific tract. Any decisions which reallocate land uses or change major resource allocations would also amend or revise the Bureau's Two Rivers and John Day Resource Management Plans under 43 *Code of Federal Regulations* 1610.5-5 or 5.6.

5. Date comments must be received: March 2, 2000

6. Date Draft John Day River Management Plan and Environmental Impact Statement made available to Environmental Protection Agency and public: December 3, 1999

7. For further information contact:

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Telephone: (541) 416-6700

Executive Summary

Introduction

This Draft John Day River Plan and Environmental Impact Statement has been developed by five partners who have authorities or responsibilities for management of the John Day River System. These partners are the Bureau of Land Management, State of Oregon, Confederated Tribes of the Warm Springs Reservation of Oregon, Bureau of Indian Affairs and the John Day River Coalition of Counties. This draft plan and EIS is offered for your review and comment for 90 days.

This plan includes proposed management for federally designated Wild and Scenic River Segments and State of Oregon designated State Scenic Waterways. Proposed decisions are also offered for segments that are not so designated, especially where they affect adjacent Designated segments. Some proposed decisions also are Land Use Plan Amendments for the Two Rivers RMP and the John Day RMP.

Issues/Alternatives/Impacts

The partners in this plan have identified several issues to be resolved by this planning effort, along

with alternative ways of resolving these issues, preferred alternatives, and an analysis. In this Draft we have not proposed the same alternative to resolve all issues. The preferred alternative was selected for each issue by a core team made up of representatives from the partners. The BLM has also received advice from the John Day/Snake Resource Advisory Council throughout the planning process, including selection of preferred alternatives. The preferred alternative selection was based on information from the planning analysis using information derived from resource inventories, monitoring studies and interdisciplinary evaluations conducted over the past several years. The following Table 1 summarizes this information which is further explained in the document.

Major Issue?Consequences

There are numerous issues of interest and importance addressed by this plan. Those of most public interest thus far include grazing, water use, agricultural leases, boating use limits and motorized boating. The effects that grazing has on river values has created the most interest. The following Table 2 summarizes the consequences of grazing on other key issues and values.

Key Findings

The effects that management actions have on riparian vegetation is a foundation to protect and enhance river values.

Monitoring shows that where riparian oriented grazing management has been implemented the riparian vegetation is increasing in density, diversity and function.

Water quantity and quality are influenced far more by natural events and human caused conditions throughout the watershed than by actions in the designated corridors. There is a broad range of recreational opportunities within the watershed, some which can conflict with each other, and some that can conflict with other river values.

BLM administers 8% of the land within the watershed. BLM land within the designated corridors is 1% of the watershed. Land pattern has intermingled public and private within the designated corridor. There are many private land owners, various agencies, tribes and other entities who have some type of management authority within the watershed. Cooperation and coordination with all of these people is and will be necessary for successfully protecting and enhancing the river values.

Table 1 - Summary of	Table 1 - Summary of Alternatives and Direct Impacts	Ipacts (Preferred Alternatives in Bold)	tives in Bold)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Scenery VRM Classification	No classification under existing RMPs	Manage Scenery Consistent with BLM policy. ment Inventory to establish appropriate VRM resources would be managed as VRM Class I between Butte Creek and Cottonwood Bridge	Manage Scenery Consistent with BLM policy. Conduct Visual Resource Manage- ment Inventory to establish appropriate VRM classes. During the interim visual resources would be managed as VRM Class II except VRM Class I in Segment 2 between Butte Creek and Cottonwood Bridge.	isual Resource Manage- iring the interim visual M Class I in Segment 2
-Vegetation				
Special Status plants	Continue existing management	hent		
Weeds	Continue existing management	nent		
Fire	Continue existing management	nent		
Grazing	Continue existing manage- ment by applying varying management practices that emphasize riparian oriented management that protects and enhances river values. Some allotments do not meet this goal. (See Table 2 for actions)	Same as A, plus apply to all allotments, adjust as needed and exclude grazing from some recre- ation sites to reduce conflicts. Faster time frame for implementation than A. (See Table 2 for actions)	Restrict grazing to outside of riparian areas. (See Table 2 for actions)	Restrict grazing to outside of Wild and Scenic River Boundary (See Table 2 for actions)
Agricultural Lands	Continue Existing Manage- ment	Modify existing manage- ment as necessary to protect and enhance river values.	Manage land with emphasis on protecting and enhancing terrestrial wildlife values and restoring native vegetation.	Manage land with emphasis on protecting and enhancing instream values and to restoring native vegetation.
Acres Irrigated for Commodity Use	221-385±	195 ±	Target = 0 in 15 years	Target = 0 in 20 years
Acres Potentially Irrigated for Non-Commodity Use	0-164± *Not all acres will be irrigated every year	164±*Not all acres will be irrigated every year	359±.*Not all acres will be irrigated every year	Target = 0 in 20 years

Table 1 - Summary of A	Table 1 - Summary of Alternatives and Direct Impacts (Preferred Alternatives in Bold)	pacts (Preferred Alternat	tives in Bold)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Acres Potentially Restored to Native Vegetation	0-164	0-164	0-359	359± *All acres would be restored to native vegetation under this Alternative
Acres Potentially Irrigated in Public Ownership	385± *Not all acres will be irrigated every year	359± *Not all acres will be irrigated every year	359± *Not all acres will be irrigated every year	Target = 0 in 20 years
Acres disposed	0	26± (assumed to be used for irrigated Agriculture)	26± (assumed to be used for irrigated Agriculture)	26± (assumed to be used for irrigated Agriculture)
Recreation				
Boating Use Levels for Segments 2-3	for Segments 2-3			
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Monitoring	Continue existing LAC monit	C monitoring to inform future decision making	on making	
Interim	No restrictions on number of launches, encourage launches during off-peak	Maintain existing recre- ational experience Tarret Launches at 1998	Provide recreational experience with less competition for campsites	Reduces contact with other groups over other alterna- tives.
		levels.	Launches equal 70% of campsites within 15 miles of launch points.	Launches equal historical average of peak period daily launches.
Interim Number of Launches per day	No Restrictions	19 from Service Creek/Twickenham 16 from Clarno/Butte Creek	13 from Service Creek/Twickenham 11 from Clarno/Butte Creek	8 from Service Creek/ Twickenham 6 from Clarno/Butte Creek
Potential # of People (assumes max. party size of 16)	No Limit	maximum of 560 people launching per day	maximum of 384 people launching per day	maximum 224 people launching per day
Long Term	No Restrictions planned	Future decisions based on L	Future decisions based on LAC study, mandatory launch limits may be imposed.	limits may be imposed.

Table 1 - Summary of A	- Summary of Alternatives and Direct Im	ct Impacts (Preferred Alternatives in Bold)	tives in Bold)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Allocation System				
Type of System	Allocation not needed	Historical Proportions	Annual common pool lottery system	Common Pool, first-come first served.
Experience of User	No Change	Advanced planning required for weekend use.	Some weekend launches may not be available	Weekend launches would be difficult to obtain
Motorized Boating				
Dates closed to motorized	Segments 1 and 2 closed to	Segments 10 and 11 (South	Segments 10 and 11 (South Fork Wild and Scenic River Closed to Motorized Boating	losed to Motorized Boating
Doamig	October 1.	Protect Wildlife	Protect Wildlife, provide use consistent with WSA status.	Eliminate potential for conflict with other resources and uses.
		Segment 1: Closed March 1 to December 1 Segment 2: Closed March 1 to December 1. Recom- mend to Congress that motorized boats be ex- cluded in WSAs if desig- nated Wilderness. Segment 3: Except for small' electric motors, closed April 1 to October 1. 'Small = 40lb. Thrust or less.	Segment 1: Closed April 1 to December 1 Segment 2: Closed year round below Clarno Rapids Closed April 1 to Oct 1 between Clarno and Clarno Rapids (electric motors ≤ 40 lb. thrust permitted) Segment 3: Except for small' electric motors, closed April 1 to October 1. 'Small = 40lb. Thrust or less.	Motorized boating not permitted on any segment of the river
# of days river open to motorized use	Segments 1 and 2 = 211 Segment 3 = 365 Segments 10 and 11 = 0	Segment 1 = 89 Segment 2 = 150 Segment 3 = 181 Segments 10 and 11=0	Segments 1 = 120 Segment 2 = 0/181 Segment 3=181 Segments 10 and 11=0	O

Table 1 - Summary of	Table 1 - Summary of Alternatives and Direct Impacts	npacts (Preferred Alternatives in	tives in Bold)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Dispersed Camping	Continue existing manage- ment, decisions made on case by case basis	Future Management decisio	Future Management decisions would be based on LAC study	iudy
Actions by Segment		Encourage dispersed use in areas that can sustain impacts of camping. Segments 1 and 3: No actions. Segment 2: Designate dispersed camping area on west bank near Clarno. Segments 10-11: Identify preferred dispersed camping areas and install signs and parking barriers to protect riparian vegeta- tion.	Same as Alternative B	Protect Sensitive Riparian Areas from dispersed camping. Segments 1-3: No Action proposed Segments 10 and 11: Close critical riparian areas to camping.
Changes in Dispersed Camping Opportunities	No Change	Segments 1: No Change Segment 2: No Change Segments 1: No Change Segments 10-11: Reduced Opportunities	Same as Alternative B	Segments 1-3: Same as A Segments 10 and 11: Reduced Opportunities
Developed Facilities				
	Continue existing manage- ment	Improve or upgrade existing	Improve or upgrade existing facilities when needed to protect resources	otect resources
		Improve or upgrade existing facilities to better meet the needs of the recreational user.	Same as Alternative B plus develop new sites where needed to improve resource protection and to better meet needs of recreational user.	Reduce facilities or close sites to discourage use.

Table 1 - Summary of Alternatives and Dir		ect Impacts (Preferred Alternatives in Bold)	tives in Bold)	
Issue	Alternative A	Alternative B	Alternative C	Alternative D
Actions by Segment	Segment 1: Maintain Cottonwod and Rock Creek facilities. No scheduled maintenance for Oregon trail Monument.	Segment 1: Same as A except add boat ramp and registration station at Rock Creek, provide picnic tables at Cotton- wood. Provide parking andmaintenance for Oregon Trail Monument.	Segment 1: Same as Alternative B	Segment 1: Same as Alternative A except close existing facilities at Rock Creek.
	Segment 2: Maintain Clarno, provide limited Maintenance at Butte Creek.	Segment 2: Same as A except add launch lane and pay phone at Clarno and grade the primitive launch ramp at Butte Creek	Segment 2: Same as Alternative B plus make improvements to "Clarno East," improve Juniper Island camping area.	Segment 2: Same as Alternative A except close existing facilities at Butte Creek.
	Segment 3: Maintain Service Creek and Priest Hole facilities.	Segment 3: Same as A except install toilet at Priest Hole.	Segment 3: Same as Alternative B plus develop Lower Burnt Ranch into camping area with signs, maps, parking barriers, and toilet.	Segment 3: Same as Alternative A
	Segments 10- 11: No developed sites	ed sites	Segments 10-11: Create campground at Ellingson Mill with toilet, tables, information board, signs, and parking	Segments 10-11: No actions proposed

Table 1 - Summary of Alternatives and Dire	Alternatives and Direct Im	ct Impacts (Preferred Alternatives in Bold)	ttives in Bold)	
Issue	Alternative A	Alternative B	Alternative C	Alternative D
Changes in condition/ # of sites				
Segment 1:	No Change	3 sites improved	Same as B	2 sites improved 1 site closed
Segment 2:	No Change	2 sites improved	4 sites improved	1 site closed
Segment 3:	No Change	1 site improved	1 site improved 1 site added	ded Same as A
Segments 10-11:	No sites	Same as A	1 site ac	1 site added Same as A
Total	6 sites improved	8 sites improved	2 sites added	2 sites added 2 sites closed
Public Access				
	Provide public access to riv South Fork Road. Clarify st	Provide public access to river near Twickenham, improve road to Priest Hole, improve ditches and culverts on the South Fork Road. Clarify status of access to Oregon Trail Monument.	e road to Priest Hole, improv il Monument.	e ditches and culverts on the
	Other than actions listed above access would be maintained at existing levels	Eliminate motorized access access)	Eliminate motorized access to existing Burnt Ranch site (maintain trail for foot access)	(maintain trail for foot
		Improve existing access by providing new access and upgrading current access	Provide maximum reason- able public access to the river via roads and trails.	Reduce public access to protect and enhance resources that constitute

river values

upgrading current access routes across public land.

Grade, surface, or widen gravel roads as needed.

Table 1 - Summary of Alternatives and Direct Impacts	Alternatives	and Direc		(Preferred Alternatives in Bold)	natives in Bold	(6		
Issue	Alternative A	Т	Alternative	B	Alternative C	U	Alternative D	
Actions by Segment	See common actions.	actions.	Segment 1: S Alternative A	Segment 1: Same as Alternative A	Segment 1: Same as Alternative B plus seek t acquire public access to Tumwater Falls and the confluence of Hay Creek and the John Dav River.	Segment 1: Same as Alternative B plus seek to acquire public access to Tumwater Falls and the confluence of Hay Creek and the John Dav River.	Segment 1: Eliminate Rock Creek road Access.	Eliminate Roo ccess.
			Segment 2: Same as Alternative A, except BLM road on west ba the river from Clarno	Segment 2: Same as Alternative A, except imprve BLM road on west bank of the river from Clarno to		Segment 2: Same as Alternative B plus seek public access easement to the river via Butte Creek	Segment 2: Close BLM road on the west bank to vehicle traffic past the Clarno Homestead.	Close BLM est bank to past the stead.
			Clarno Homestead	nestead.	Road. Seek to acquir public access on East from Clarno to Clarno Rapid.	Road. Seek to acquire public access on East bank from Clarno to Clarno Rapid.		
			Segment 3: Provide a to Lower Burnt Ranch dispersed use area	Segment 3: Provide access to Lower Burnt Ranch dispersed use area		Same as B	Segment 3: Same as B except do not provide motor vehicle access to I ower Burnt Ranch	me as B excel motor vehicle er Burnt Ranch
			Segments as Alternati prove surfa Road.	Segments 10 and 11: Same as Alternative A plus im- prove surface of South Fork Road.		Segments 10 and 11: Same as B	Segments 10-11: Same as Alternative A.	-11: Same ac
Changes in ACcess	Improve	Add Close	e Improve	Add Close	Improve	Add Close	Improved	Add Close
Segment 1	No	No Change		No Change		2		~
Segment 2	No	No Change	~		~			~
Segment 3	~	-	~	2	4	2	~	۲-
Segment 10 and 11	~		~		-		~	
Total	2	1 0	ę	2	ო	6 1	7	1 3

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Executive Summary

Table 1 - Summary of Alternatives and Dire	Alternatives and Direct In	ct Impacts (Preferred Alternatives in Bold)	tives in Bold)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Commercial Use	Continue existing Manage- ment. Case by case review. No limit on number of permits and permits are transferrable.	Decisions concerning comm consistency with manageme service, opportunity to make on new permits and transfer years	Decisions concerning commercial services would fully consider type of service, consistency with management goals and objectives, the ability applicants to provide service, opportunity to make a profit, public safety, and BLM workload. Moratorium on new permits and transfers until launch numbers are finalized in approximately 3 years	onsider type of service, ability applicants to provide 3LM workload. Moratorium nalized in approximately 3
		 Increase permit requirements: training in river ments: training in river rescue, Leave No Trace, and Interpretation. Increase minimum use requirements to 20 paying customer user days every two years. Permittees subject to random audits of IRS records associated with their permitted business by BLM. Increase permit fees to cover the cost of permit administration including required monitoring. 	Permit numbers adjusted on basis of needs assessment. Permits transferrable only to applicants who meet same criteria identified in the needs assessment	Limit number of permits to 34. Permits not transfer- rable. Available permits granted based on needs assessment and competitive prospectus. Concession permits based on needs assessment may be issued and would be in addition to 34 permits
# of outfitter guide permits	No limit	No limit	No limit, BLM determined need	34
Permit Transferability	Yes	Yes	Yes if applicant meets criteria	No

Table 1 - Summary of	- Summary of Alternatives and Direct Impacts	pacts (Preferred Alternatives in Bold)	atives in Bold)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Minerals	Continue Existing Manage- ment	Provide additional protection of river values. Same A except: 1. No surface occupancy restriction for Leasable Minerals in Grant County within Planning area. 2. Where permitted mining would be subject to stil tions to protect river values. 3. On BLM lands new sites for the production of sa able minerals would not be permitted within State Scenic Waterways or Wild and Scenic Rivers. 4. Facilities such as established campgrounds and launches would be closed to leasing and saleable minerals and withdrawn from entry under the Minir Law of 1872 for locatable minerals.	Provide additional protection of river values. Same as A except: 1. No surface occupancy restriction for Leasable Minerals in Grant County within Planning area. 2. Where permitted mining would be subject to stipula- tions to protect river values. 3. On BLM lands new sites for the production of sale- able minerals would not be permitted within State Scenic Waterways or Wild and Scenic Rivers. 4. Facilities such as established campgrounds and launches would be closed to leasing and saleable minerals and withdrawn from entry under the Mining Law of 1872 for locatable minerals.	Eliminate possibility that mining within Wild and Scenic River boundary could adversely impact river values. Close BLM managed lands in Wild and Scenic River Segments and State Scenic Waterway segments to leasing and saleable mineral activity and with- draw locatable minerals from entry under the Mining Law of 1872.
Production Potential				None
Land Ownership, Classifi	Land Ownership, Classifications, and Use Authorizations			
	Continue Existing Manage- ment	Same as A and identify parcels for acquisition to pro enhance river values and to facilitate administration.	Same as A and identify parcels for acquisition to protect and enhance river values and to facilitate administration.	Same as B and C plus seek to acquire additional lands in order to facilitate Alterna- tive D for grazing.
Potential Acquisition Acreage	Not identified	4,036 acres		4,036 acres plus an un- known acreage acquired to Implement Alternative D for Grazing.

Executive Summary

Table 2 -	Summary of Consequences of Grazing	azing Alternatives (Preferred	(Preferred Alternative is B)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Fish	Actions within the project area would continue trends in vegetation and water quality described in Chapter 2 but improved instream conditions would not be measureable due to rela- tively small proportion of basin affected by changes in management.	Actions within the project area would continue and accelerate trends in vegetation and water quality described below but would not result in measurable changes in fish habitat.	Same as B.	Same as B.
Wildlife	Actions within the project area would continue trends in wildlife habitat described in Chapter 2 and would support diverse wildlife populations.	Changes in vegetation described below would provide increased riparian wildlife habitat compared to existing management. Grazing systems em- ployed would provide abundant forage and cover for wildlife depen- dent upon upland habitat. Increases in amount of fences would create more barriers to wildlife pas- sage and increase the potential for wildlife mortality due to entangle- ments in fencing Com- pared to Alternative A.	Same changes in riparian and upland wildlife habitat as Alternative B. Increases in amount of fences would create more barriers to wildlife passage and in- crease the potential for wildlife mortality due to entanglements in fencing more than any other alterna- tive.	Same changes in riparian and upland wildlife habitat as Alternative B. Increases in amount of fences would create more barriers to wildlife passage and in- crease the potential for wildlife mortality due to entanglements in fencing more than Alternatives A and B but fewer than Alternative C.
Water Quantity and Quality	No measurable change in instream conditions due to small proportion of basin affected by changes in management	Same as A	Same as A	Same as A

Table 2	- Summary o	Table 2 - Summary of Consequences of Grazing	zing Alternatives (Preferred Alternative is B)	Alternative is B)	
lssue		Alternative A	Alternative B	Alternative C	Alternative D
Scenery		Less riparian vegetation would be visible on allot- ments without riparian oriented management than on the same allotments under Alternatives B, C, and D. 2.2 additional miles of fence would be visible from the river. Cattle would be present adjacent to more miles of the river and for a greater duration of time than under the other alternatives.	Under proposed manage- ment more riparian veg- etation would visible with little evidence of grazing in allotments that cur- rently are without riparian oriented management. Changes in upland veg- etation would usually not be visible from most viewpoints. As many as 8 additional miles of fencing would be visible from the river or areas adjacent to the river compared to Alternative A. The duration of time that cattle on public lands (both riparian and upland) would be visible in fore- ground views from the river (about 6 weeks during April and May) would be reduced com- pared to Alternatives A and C, but would be greater than under Alter- native D (0 days).	Changes in riparian vegeta- tion would be the same as Alternative B except cattle trails within riparian areas not used by recreational users would gradually become revegetated. Changes in upland vegeta- tion would usually not be visible from most view- points. As many as 223 additional miles of fencing would be visible from the river or areas adjacent to the river in Wild and Scenic Segments compared to the existing condition. Cattle on public up lands would be visible to river users more often than other alternatives because upland grazing strategies (outside of the fenced riparian exclusion areas) would allow for longer period of grazing than the other alternatives. There would be no cattle visible in riparian areas on public lands because of the riparian	Changes in riparian vegeta- tion would be the same as Alternative C. Increases in upland vegetation would usually not be visible from most viewpoints The number of locations where fences between public and private lands would extend into the river would increase over all other alternatives. No cattle would be visible on public lands within the boundaries of the Wild and Scenic River Segments or on public lands within 1/4 mile of the river in Segments not designated Wild and Scenic.

Table 2 - Summary of	Table 2 - Summary of Consequences of Grazing Alternatives		(Preferred Alternative is B)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Vegetation				
Special Status plants	Known populations would be maintained at existing levels	Same as A	Same as A	Same as A Same as A
Riparian	Riparian vegetation would continue to increase in density and diversity at or near natural rates. In- creases in riparian vegeta- tion on those 9.9 riverbank miles without riparian management would be less than natural rate with possibility for further degra- dation.	Same as A except that 8 more miles of public riverbank would be in- creasing in vegetation density and diversity.	Same as A except that all public riverbank miles would be increasing in vegetation density and diversity.	Same as A except that 9.2 more miles of public riverbank would be increas- ing in vegetation density and diversity.
Upland	Vegetation would be main- tained or increased by the grazing occurring before "critical growing season', which favors desirable cool and warm season species. The increase in vegetation would also allow for in- creases in litter accumula- tion and soil amelioration. Where no riparian oriented management is in place	Except for small area tied to private land manage- ment vegetation would be maintained or increased, with increases in litter accumulation and soil amelioration.	Same as A except that grazing may occur during a variety of seasons	Same as A except that on some sites litter accumula- tion and soil amelioration may occur more quickly than under other alterna- tives.

lssue	Alternative A		Alternative B		Alternative C		Alternative D	
Grazing	1986	Present						
Management in WSR	public private p	public private	ate public	private	public	private	public	private
Segments (1,2,3,10,11) Grazing Excluded	6.1 1.5	64 55.2	.2 66	54	196	162	196	128
(miles of riverbank) Riparian Oriented Mgmt.	9.2 10.5	122 71.9	.9 129	86	0	1.5	0	1.9
(miles of riverbank) No Riparian Oriented Mgmt.	181.1 97.3	9.9 33	3 2.2	8.9	0		0.7	9.6
(miles of fiverbank) Private Land Management not tied to BI M Allotments	0 57	0 60.1	0	60	0	57	0	81
(miles of riverbank) Miles of New Fence # New Water Developments Acres Closed to Grazing AUMs cancelled	n.a. n.a. n.a. n.a.	3.5 0 0 0 387 331	12 12 333 0	0 321	881 9	100 822 822	99 99 65,845 2725	52 52 15,118
Monocomont in Non Docient	0007							
Management III Non-Designated Segments (4,5,6,7,9) Grazing Excluded	1986 public private not available	Present public priv	nt private public 30 15	private 30	public 43	private 79	public 43	private 79
(miles of riverbank) Riparian Oriented Mgmt.	not available	24	31 27	49	0	0	0	0
(miles of riverbank) No Riparian Oriented Mgmt.	not available	6.9	28 1.2	10	0	15	0	0
Private Land Management	not available	0	392 0	392	0	388	0	402
(IIIIIes of Iverbalik) Miles of New Fence # Now Wotor Dovolormonte	not available	0	0	0	29 20	47	48 48	56 56
# new watch Developments Acres Closed to Grazing AUMs cancelled	not applicable not available not applicable	71 0	179 89 0	179	883 19	1060	4372 390	
Agricultural Land	Grazing would have no impact on agricultural lands	d have no icultural lan	Same as A ds		Same as A		Same as A	

Executive Summary

Table 2 - Summary of (2 - Summary of Consequences of Grazing Alternatives		(Preferred Alternative is B)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Recreation				
Recreation Opportunities	Grazing would not affect recreational opportunities	Same as A	Same as A	Same as A
Recreational Experience	Recreationists would experience the sight, smells, and signs of cattle more than the other alternatives due to cattle grazing within the foreground views or within dispersed campsites.	Recreationists would experience the sight, smells, and signs of cattle less than Alternatives A due to fewer cattle grazing within the foreground views, cattle being ex- cluded from selected dispersed campsites, and reduced duration and different timing of grazing in selected allotments. Slightly increased amount of fencing would affect recreational experience of some recreationists.	Recreationists would not experience the sight, smells, and signs of cattle within campsites due to the exclusion of cattle from riparian areas and virtually all public dispersed camp- sites. As described under Scenic Quality cattle would remain visible and fencing to exclude cattle from riparian areas would also be visible on most public land near the river.	Recreationists would not experience the sight, smells, and signs of cattle on public lands due to the exclusion of cattle from public lands within the river corridor. More fencing would extend- ing into the river would be visible compared to other alternatives.
Allocation System	Grazing would have no impact on the allocation system	Same as A	Same as A	Same as A
Motorized Boating	Grazing would have no impact on motorized boating	Same as A	Same as A	Same as A
Dispersed Camping	See discussions of Recre- ational Opportunities and Experience for Alternative A.	See discussions of Recre- ational Opportunities and Experience for Alternative B.	See discussions of Recre- ational Opportunities and Experience for Alternative C.	See discussions of Recre- ational Opportunities and Experience for Alternative C.
Developed Facilities	No effect	Same as A	Same as A	Same as A

xxii

Table 2 - Summary of C	onsequences of Grazing	Table 2 - Summary of Consequences of Grazing Alternatives (Preferred Alternative is B)	Alternative is B)	
lssue	Alternative A	Alternative B	Alternative C	Alternative D
Public Access	No effect	Same as A	Same as A	Same as A
Commercial Use	Same as Recreational Experience	Same as Recreational Experience	Same as Recreational Experience	Same as Recreational Experience
Minerals	No Effect	Same as A	Same as A	Same as A
Land Ownership, Classifications, and Use Authorizations	No Effect	About 380 acres of public land in isolated 40 and 80 acre parcels surrounded by private land that is difficult and expensive for the BLM to manage would be dis- posed in exchange for	No effect	Some private lands would be acquired from willing sellers in order to imple- ment the grazing exclusion on all public lands within the river corridor

Executive Summary

Table of Contents

- Appendix A Plan Participants 1 Appendix B - River Authorities 3 Appendix C - Related Plans and Programs 7 Appendix D - Related Planning Documents 9 Appendix E - Special Status Wildlife Species 11 Appendix F - Wild and Scenic River Resource Assessment 13 Appendix G - Glossary 105 Appendix H - List of Acronyms and Abbreviations 117 Appendix I - References 121 Appendix J - Standards for Rangeland Health and Guidelines for Livestock Grazing Management 135 Appendix K - Limits of Acceptable Change 155 Appendix L - Allotment Summaries 157 Appendix M - Riparian Photographs 281 Appendix N - The Wilderness Review Process 303
- Appendix O Visual Resource Management Classifications 307

Appendix A Plan Participants

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BLM Confederated Tribes of Warm Springs Oregon Parks and Recreation Department Oregon Marine Board Oregon Department of Fish and Wildlife

(Chairperson)

Appendix B River Authorities

There are many federal, state and local agencies and organizations with management responsibilities which affect the John Day River System. The following section describes the responsibilities of federal, state, local and private agencies whose actions influence the John Day River system.

Tribal Governments

The Confederated Tribes of the Warm Springs Reservation and the Confederated Tribes of the Umatilla Reservation have special interests in management of the John Day River System. Members of both of these organizations use the river and surrounding lands in traditional ways for hunting, gathering and religious purposes. Previous treaties between the United States Government and these tribes give special rights to their members regarding use and access of lands in the John Day Basin.

Federal Agencies

Bureau of Land Management

The BLM, U.S. Department of Interior, has lead responsibility for development of this plan. The BLM is responsible for managing multiple uses on extensive amounts of federal land in the John Day River System.

National Park Service

The NPS, U.S. Department of Interior, also plays an important role in management of the John Day River System. The NPS administers the John Day fossil Beds National Monument. The three of the National Monument are located in the John Day Basin between Dayville and Clarno. The NPS manages several miles of river frontage. More importantly the NPS plays a role by attracting visitors and informing them about the fossil resources in the John Day River System.

Natural Resource Conservation Service

The NRCS, U.S. Department of Agriculture, promotes and coordinates soil conservation, agricultural, and natural resource projects on private land in the John Day River basin. Soil conservation in the basin plays a critical role in protecting water quality and quantity.

Bureau of Indian Affairs

The BIA, U.S. Department of Interior, manages the trust responsibility between the US government and Sovereign Indian Tribes, including the Confederated Tribes of the Warm Springs Reservation and the Confederated Tribes of the Umatilla Reservation. The BIA is mandated to encourage and support Tribal efforts to govern themselves; and to provide needed programs and services on the reservations.

U. S. Fish and Wildlife Service

The USFWS, U.S. Department of Interior, administers the federal Endangered Species Act of 1973 (as amended). The BLM consults with USFWS to obtain a biological opinion on appropriate courses of action when a determination has been made that a threatened or endangered species, or critical habitat may be affected by a proposed management action. An opinion may require a proposed action to be modified or abandoned.

Bonneville Power Administration

The BPA markets electric power and energy from federal hydroelectric projects in the Pacific Northwest. In addition, BPA is responsible for energy conservation, renewable resource development and fish and wildlife enhancement under the provisions of the Pacific Northwest Electric Power Planning and Conservation Act of 1980.

Environmental Protection Agency

The EPA is responsible for protecting and enhancing our environment under the laws enacted by Congress. EPA's mandate is to mount an integrated, coordinated attack on environmental pollution in cooperation with state and local governments.

Bureau of Reclamation

The original purpose of the BOR was to secure a year-round water supply for irrigation in the 17 western states. That mission was expanded to include domestic and industrial water, generation of hydroelectric power, provision of outdoor recreation opportunities, regulation of rivers flood control and the enhancement and protection of fish and wildlife habitats.

Army Corps of Engineers

The Department of Defense, through the Army Corp of Engineers issues and administers permits for fill and removal within the federally designated river corridor.

U.S. Geological Survey

The USGS is responsible for identifying the nation's land, water, energy and mineral resources; classifying federal lands for mineral and energy resources and water power potential; investigating natural hazards; and conducting the national mapping program. The USGS has been gaging stream flows since 1894.

Federal Energy Regulatory Commission

The FERC, a five-member commission within the Department of Energy, sets rates for the transportation and sale of natural gas and oil and for the transmission and sale of electricity. The FERC regulates the licensing of hydroelectric power projects.

National Marine Fisheries Service

The NMFS is part of the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce. Under the Fishery Conservation and Management Act of 1976, NMFS conducts an integrated program of management, research, and services related to the protection and rational use of living marine resources and their habitats. The BLM will consult with NMFS on concerns for anadromous fish in the John Day River System.

Northwest Power Planning Council

The NPPC was authorized by the Northwest Power Act of 1980. Four states (Idaho, Montana, Oregon, and Washington) make up the NPPC. The council consists of two persons from each state whose job is to: 1) develop a reliable and economical 20 year electrical power plan 2) protect and re-build fish and wildlife populations, and 3) involve the public in the decision making process. The council works with a variety of local, state, and federal agencies, as well as with concerned environmental groups and individuals, to strike a balance between the needs for electrical power and the survival of fish and wildlife.

State Agencies

Oregon State Parks and Recreation Department

The OPRD administers the State Scenic Waterways Program which includes segments of the John Day River. The OPRD determines the best information available regarding instream water flow deeds for recreational use in scenic waterways.

Oregon Department of Fish and Wildlife

The Oregon Department of Fish and Wildlife (ODFW) manages fish and wildlife populations and develops fishing and hunting regulations. The BLM and the ODFW have worked closely on site-specific activities to protect and enhance resources of interest to both agencies. The ODFW also works with the BLM in vegetation monitoring and evaluation, the installation of range and wildlife improvements and the reintroduction of native wildlife species.

Oregon State Marine Board

The OMB regulates recreational boating in Oregon.

Oregon Department of Environmental Quality

The DEQ regulates and guards against the deterioration of air and water quality in the state of Oregon. DEQ implements the Statewide Water Quality Management Plan.

Oregon Department of Forestry

The ODF manages state owned forests and administers the Forest Practices Act for timber harvest on private lands within the corridor. The BLM has entered into an memorandum of understanding with the ODF to ensure minimum standards are met for timber harvest, reforestation of economically suitable lands, road construction, chemical application, slash disposal and maintenance of streamside buffers.

Division of State Lands

The DSL administers the state's Removal-Fill Law which protects Oregon's waterways from uncontrolled alteration. The law requires a permit for fill or removal of more than 50 cubic yards of material within state waterways. The permit review process involves coordination with the natural resource and land use agencies at the local, state and federal levels.

Oregon Department of Transportation

The ODOT is responsible for planning, designing, re-constructing, and maintenance of the state highways for public; placing signs; and the management of motor vehicle use.

A memorandum of understanding, approved by the State Highway Engineer and Regional Forester for the Pacific Northwest Region, USFS, provides the basis for coordinating issues related to state highways through national forest lands. ODOT lacks special requirements for highways within State Scenic Waterways. However. ODOT must prepare a section 4(f) evaluation under the Federal Aid Highway Act of 1968 for any federally funded highway project which requires the use of any publicly owned land used as a recreation area beyond the existing highway improvement.

Oregon State Police

OSP enforces all Oregon statutes, including Marine Board regulations, without limitation by county or other political subdivision.

Oregon Water Resources Department

The OWRD is responsible for the management and distribution of the state's water resources.

Department of Land Conservation and Development

The DLCD, along with the guidance and authority of the Oregon Land Conservation and Development Commission (LCDC) works with cities, counties, and state agencies to develop and maintain Oregon's comprehensive land use plans and regulations. As part of these responsibilities, DLCD ensures that cities, counties, and state agencies have included scenic waterways in their Goal 5 planning pertaining to natural resources. Goal 5 planning requires comprehensive plans that will 1) ensure open space, 2) protect scenic and historical areas and natural resources, and 3) promote healthy and visually attractive environments.

State Historic Preservation Office

The SHPO was created by the National Historic Preservation Act of 1966. Among SHPO's many roles is the evaluation of cultural property, in consultation with federal agencies of public nominations, to determine if the property qualifies for listing on the National Register of Historic Places.

Local Government

County and City Governments

The John Day River System is located in eleven Oregon counties. County and city governments adopt plans and ordinances which affect the John Day River System. Waste disposal, county zoning, and local law enforcement are examples of important areas where the John Day River is affected. Collectively, these governments have a profound influence of the river due to the large amounts of private land affected by these governments.

County Sheriff Departments

All county sheriff departments are empowered to enforce Oregon State Statutes and river management laws and rules adopted and implemented by the OMB and OPRD. Enforcement generally occurs within each department's respective counties, however they do have authority to cross county lines. County sheriff activities, including search and rescue operations, are coordinated with state and federal law enforcement agencies and assisted by the general public.

Private Land Owners

Private land owners comprise a large percentage of lands along the banks of the John Day River System. Cooperation with private land owners is essential to ensure protection and enhancement of river values. BLM will continue to consult and coordinate with affected private landowners on development, implementation and monitoring of this plan.

Federal, State, and Local Government Authorities Adjacent to the John Day River

Federal Agencies	State Agencies	Counties	Cities
BLM	ODFW	Crook	Canyon City
USFS	OPRD	Harney	Dayville
NPS	OMB	Gilliam	John Day
BIA	DEQ	Grant	Kimberly
USFWS	ODF	Jefferson	Monument
NMFS	ODSL	Morrow	Mt. Vernon
BPA	ODOT	Sherman	Prairie City
EPA	OSP	Umatilla	Spray
BOR	OWRD	Union	
CE	DLCD	Wasco	
USGS	ODF	Wheeler	
NPPC		SWCDs	
FERC			

Appendix C Related Plans and Programs

Several existing management plans and special areas affect the John Day River. The following describes the plans, special areas, and the agencies responsible for administration.

BLM

Land Use Plans

The BLM has completed two Resource Management Plans (RMP's) that include the John Day River System; the Two Rivers RMP (1986) and the John Day RMP (1985). The Two Rivers RMP covers BLM lands on the lower John Day River downstream from Kimberly. The John Day RMP covers BLM lands in the upper John Day River System upstream from Kimberly. These plans include land use goals and objectives for BLM administered lands. These two RMP's and associated supporting records provide the foundation for this plan. These plans, along with associated supporting records, are available for review at the Prineville BLM District Office.

Backcountry Byway

The BLM dedicated fifty miles of public road paralleling the South Fork of the John Day River as a National Backcountry byway In 1989. The road extends from Dayville to the Malheur National Forest boundary. The BLM Byways program helps meet the national demand for pleasure driving opportunities, enhances recreation experiences and informs visitors about the values of public lands.

Wilderness Study Area Management

There are five BLM managed Wilderness Study Areas adjacent to the South Fork and Mainstem of the John Day River that will be considered for possible Wilderness designation by Congress. Suitability for wilderness is addressed in the BLM statewide Wilderness EIS and associated Wilderness Study Report. Wilderness Study Areas are roadless federal lands that have met the minimum criteria of naturalness, solitude and other primitive attributes which causes them to be studied for possible Wilderness designation by the U.S. Congress. During the "study", the BLM considered other possible land uses for the area, the consequences of Wilderness designation and, with public involvement, made a recommendation to Congress as to whether or not they should be designated Wilderness.

Cooperative Management Area

The BLM and ODFW jointly manage the Murderer's Creek Cooperative Management Area on the South Fork of the John Day River

U.S. Forest Service

Each of the four national forests containing portions of the John Day River System (Umatilla, Malheur, Ochoco, and Wallowa-Whitman) have comprehensive land use plans guiding management of these forests. These Forest Plans are similar to the BLM's Resource Management Plans in structure and intent.

Wild and Scenic River Plan

The Umatilla National Forest developed and administers Wild and Scenic River Management Plan for the North Fork of the John Day River.

Wilderness Area

The Umatilla National Forest administers the North Fork of the John Day River Wilderness Area. The Ochoco National Forest administers the Black Canyon Wilderness Area.

National Park Service

The NPS has developed a comprehensive land use plan for the three units of the John Day Fossil Beds National Monument. This plan identifies how park visitor facilities and services will be provided and how visitors will be managed.

Oregon Department of Fish and Wildlife

ODFW manages the John Day Wildlife Refuge located between the Columbia River and Thirtymile Creek. ODFW, with the BLM, cooperatively manages the Murderer's Creek Cooperative Management Area.

Conservation Reserve Program

The Farm Service Agency (FSA) administers the U.S. Department of Agriculture (USDA) Conservation Reserve Program. This voluntary program pays farmers or ranchers who agree to take highly erodible soils out of cultivation for ten years. the program is limited to no more than 25 percent of the highly erodible soils in each county throughout the nation. Enrolled lands are planted with grasses and not used for grazing or other commercial purposes. It is believed that the "reserve" lands make a substantial contribution to reduced erosion, thereby improving downstream water quality.

It is uncertain whether the program will continue to be funded of whether current participants residing in the John Day River basin will extend their enrollments. Even if the involved lands are returned to active cultivation, the improved soil condition likely would provide residual beneficial effects to the ecosystem for another two of more years. The NRCS also cooperates with appropriate weed control districts to deal with infestations of noxious weeds.

Cooperative Programs

The BLM, USFS, ODFW, NRCS, SWCDs, Watershed Councils, and other agencies are working to improve aquatic habitat in the John Day River watershed. Cooperative work continues between the BLM, USFS, ODFW, the Columbia River Intertribal Fish Commission, NMFS, NPPC, NRCS, and private land owners, to implement riparian improvement projects (Table 4). The NRCS has participated in the development of coordinated resource management plans and the collection of resource data related to riparian habitat management. Through the Pacific Northwest Electric Power Planning and Conservation Act (P.L. 96-501), the BLM and the Bonneville Power Administration (BPA) coordinate resource management programs with a memorandum of understanding. The memorandum allows regional and district coordination where similar interests exist regarding water resources and major utility corridors. The BLM, BPA and NPPC work together to stabilize and improve riparian zones and anadromous fish habitat through grants provided by the BPA. The BPA also assists the BLM in identifying and evaluating regional utility corridor options.

County Comprehensive Plans

The comprehensive plans for the eleven counties containing the John Day River System have been recognized by the Oregon Land Conservation and Development commission as conforming with statewide planning goals and objectives. Virtually all private lands and all of the BLM and state managed lands within the planning area are in county designated "exclusive farm use", "forest" or other resource protection zones. Approved land uses compatible with county farm, forest and other resource zones include livestock grazing, growing crops and timber management, with an emphasis on protection and enhancement of natural values and cultural, visual and recreation resources. More specific land use planning information is provided for the river in **Chapters IV** and **V**.

Appendix D Related Planning Documents

Resource Assessments

Draft Resource Assessments evaluating the significance of river values in the John Day River segments designated as Wild and Scenic were completed by an interdisciplinary team in June 1990. They were distributed to interested and knowledgeable members of the public. A "final" version, incorporating public comment, was completed in July of 1990. It was revised and updated in 1993 following additional data collection and public comment.

1993 Draft John Day River Management Plan and Environmental Impact Statement

A draft John Day River Management Plan and EIS was released for public review and comment in 1993. Work on the final plan was suspended until more data on grazing evaluations was completed. The draft plan and EIS you are now reading is the second draft and includes grazing and other data unavailable in 1993.

Publication of Proposed Action in Federal Register

An initial proposed action was developed in response to the issues identified in the planning process. a description of that proposed action was published in the Federal Register January 8, 1992. The proposed action detailed in the Federal Register was refined during the analysis process and became Alternative 3 in this document (see Chapter 2).

Second Draft Environmental Impact Statement and Management Plan (DEIS)

The document you are currently reading is the DEIS. It provides comparison of different management alternatives for the John Day Wild and Scenic River and State Scenic Waterway as well as non-designated reaches of the river that are outside of surrounding national forests. This document will also identify a preferred alternative. After publication of the DEIS interested parties will have 60 days to comment. Public workshops will be held to provide opportunities for public comment. Times and places will be published in the Federal Register, The Oregonian (Portland), the Redmond Spokesman, and The Bulletin (Bend), or you may call 503 383-4769 for information.

Final Environmental Impact Statement and Management Plan (FEIS)

A Final Environmental Impact Statement (FEIS) will be completed after considering the public comments on this draft plan and EIS. The FEIS will reflect comments submitted in response to the DEIS. It will include a Record of Decision (ROD), the District Manager's decisions and recommendations for managing the John Day River. The alternative selected in the ROD will become the final John Day Wild and Scenic River Management Plan. This document will include an implementation and monitoring plan and will be an amendment to the Forest Plan.

Planning Records

The complete planning record for this Draft Environmental Impact Statement (DEIS) is available at the BLM Prineville District Office,, Prineville, Oregon 97754. Included in the planning record are such things as baseline data, maps, and studies used in preparing this document. All documents incorporated by reference are also part of the planning record. This planning record is available for public inspection and review.

Draft John Day River Plan and EIS

Appendix E Special Status Wildlife Species

Endangered and Threatened Wildl Species	life Species and Wildlife Species of Federally Listed USFS Ore	Vildlife Specie USFS	s of Concern by Maj Oregon Natural	or Land Type U.S.	es for the Jo	il a	iver Plan. Maior Land Type	and Tv	be
		Concern Concern	Dregon redutat Heritage Program (1) Critical (2) Imperiled (3) Rare (4) Not rare	Forest Service Sensitive	Sensitive	CUT W CSO Tritical (SV) Vunerable (SU) Status Undetermined (LT) Listed Threatened	Forest	Range	Riparian
RPTILES Northern Sagebrush Lizard Northern Leopard Frog Columbia Spotted Frog Northwest Painted Turtle Western Toad	O	×	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	×	××××	୪ଅଅ୪			
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Northern Goshawk Great Gray Owl Pileated Woodpecker Lewis's Woodpecker White-Headed Woodpecker Three-toed Woodpecker Black-backed Woodpecker Flammulated Owl		×	დ44 <i>დ</i> 04444	× ×	* *****	800000000000000000000000000000000000000	******		
2	winiaria Supaucker Western Burrowing Owl Western Burrowing Owl Columbian Sharp-tailed Grouse Western Sage Grouse Perruginous Hawk Upland Sandpiper Loggerhead Shrike	× ××	040×0004	۰××	× ×××	ooo×ooos ooo×ooo>	<×	× ××××	×
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witter-teamed back ryabout Long-legged Myotis Spotted Bat Small-footed Myotis Long-eared Myotis Fringed Myotis Yuma Myotis Pale Western Big-eared bat Pacific Western Big-eared b	at	*****	ით დიდითი	×	××× ×	ଅନ୍ଦ୍ରରୁ ଅନ୍ଦ୍ରରୁ	× × ××		××

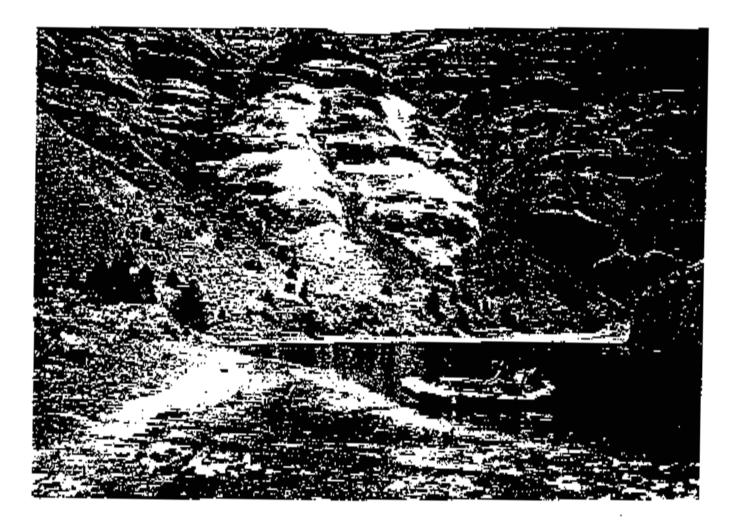
Appendices

Draft John Day River Plan and EIS

Appendix F

Lower John Day

Wild and Scenic River Resource Assessment





June 1991

Bureau of Land Mangement Princyille District Draft John Day River Plan and EIS

		PAGE				
Í.	Introduction	2				
II.	The Resource Assessment Process Overview					
111.	River Description	6				
IV.	Description and Evaluation of Resource Values	7				
	Scenic	7				
	Apprestion	8				
	Fish .	10				
	Wildlife	11				
	Geologic/Paleontologic	13				
	Botanical/Ecological	14				
	Pre-historic/Traditional Use	55				
	Historic/Cultural	19				
	Other Similar Values	20				
	Appendix A - information Sources and References Cited					
	Appendix B - Public Involvement Plan For Resource Asses	5411917				

- Appendix C John Day River Map
- Appendix D Resource Assessment Process (In Cepth)
- Appendix E Value Comparison Chart
- Appendix F Comments to the Draft Resource Assessment

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Draft John Day River Plan and EIS

I. INTRODUCTION

In 1968. Congress enacted the National Wild and Scenic Rivers Act and, for the first time, established a system for preserving outstanding free-flowing rivers. A 147 mile segment of the John Day River from Service Creek to Tumwater Falls was added to this system in 1988 when it was designated as a Federal Wild and Scenic River by the Omnibus Oregon Wild and Scenic Rivers Act of 1988. As defined by the Act, a National Wild and Scenic River must be free-flowing and have at least one outstandingly remarkable value. The "Outstandingly Remarkable Values" of the John Day identified by Congress in the Congressional Record include: scenery, recreational opportunities, and fisheries. Archeological, paisontological, geological, historical and hunting values were other significant attributes identified in the legislation though not classified as "Outstandingly Remarkable Values". (See Appendix E for a comparison of Congressionally recorded values and the values found in this report).

The river section from Parrish Creek to Tumwater Falls was included in the Oregon Scenic Waterways Act established by the water initiative in 1971. The Oregon State Scenic Waterways System includes free-flowing waterways considered to possess one or more "outstanding scenic, fish wildlift, geological, botanic, historic, archaeologic, and outdoor recreation values of present and future benefit to the public" (CRS 290.805). For each scenic waterway, Oregon State Parks and Recreation Department determines which resources within the corridor will be considered "special attributes" and, therefore, subject to rules and recommendations for protection or enhancement of these attributes. To date, special attributes of the John Day River have not been identified.

The same section was studied by the National Park Service in 1979 to determine whether t_{i} river qualified and should be designated as a component of the National Wild and Scenic Rivers system. The study concluded that the river qualified for designation and was sent to the Governor of Oregon for consideration but was never acted on.

Under the Wild and Scenic Rivers Act, the 8LM is required to prepare a comprehensive river plan to provide for the protection of the river values. This plan, of which the resource assessment is the start, will use the Limits of Acceptable Change (LAC) planning process while At the same time comply with the National Environmental Policy Act (NEPA) planning regulations. The planning steps include identification of issues, concerns and opportunities associated with activities along the John Day River which will then be translated to management objectives and measurement criteria for meeting the objectives. From this, a range of management alternatives are developed, evaluated, and the preferred alternative chosen. The preferred alternative becomes the more detailed river management plan and includes provisions to monitor the effectiveness of management in meeting the objectives of the plan. Through each phase of the planning process, public involvement will be invited, and will be essential for the success of a sound management plan. (See appendix B for the public involvement plan).

I. THE RESOURCE ASSESSMENT PROCESS OVERVIEW

To become a component of the National Wild and Scenic Rivers System, a river must be "free-flowing" in that it can not have any major impoundments or diversions along its course. The river must also possess one or more "outstandingly remarkable scenic, recreational, geologic, fish and wildlife, historic, cultural or other similar value". The purpose of this document is to determine and define what those "outstandingly remarkable" values are and how they relate to the river.

In designating the John Day River as Wild and Scenic, Congress mandated the preparation of a management plan for the river. The importance of a thorough resource assessment (RA) cannot be overstated. The RA serves as the foundation of the river management planning process. It determines which river-related features or attributes are truly outstandingly remarkable and which values contribute substantially to the river setting and the functioning of its eccaystem. This assessment will guide interim management, provide the basis for developing a joint federal and state river management plan and assist in the determination of Federal Wild and Scenic River boundaries.

The RA process is used to determine the degree of significance of river-related values. The decisions are based on available data and informed professional judgement. The RA process was developed by government agencies with input from knowledgeable organizations and individuals. The process provides a degree of standardization and consistency on Wild and Scenic River planning throughout the northwest. It is an objective process accomplished through the use of an interdisciplinary team knowledgeable of the National Wild and Scenic Rivers program, the particular resource values to be considered and the iver or area to be studied. Information from other experts is obtained though consultation, document review and/or direct involvement as needed. An analysis is conducted to compare resource values with other rivers within a particular physiographic or demographic region. As a basis for comparison, geographic regions defined in Oregon's Statewide Comprehensive Outdoor Recreation Plan (SCORP) are partially used (see Map on page 5).

The John Day Wild and Scenic River is located in SCORP Region #10, incorporating Hood River, Sherman, Wasco, Jefferson, Wheeler, Crook and Deschutes Counties. The region is flanked by the Cascade Range to the west with the Columbia River forming its northern boundary. This region also contains designated portions of the Deschutes, Crooked, North Fork of the Crooked, and White Wild and Scenic Rivers. (For additional discussion of the resource assessment process, see Appendix D). Essentially, the resource assessment process should answer the questions "What is special about the John Cay Wild and Scenic River and what additional information is needed to develop a management plan for the river and properly manage and protect those values?"

The following steps or verification techniques were used to evaluate the contribution of various resource values to the John Day River:

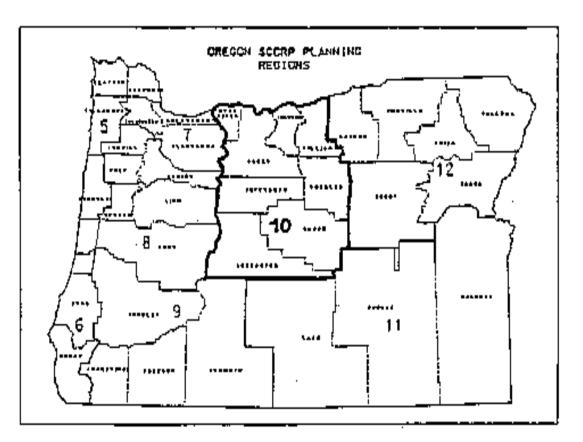
- The use of an interdisciplinary team approach.
- Consideration of uniqueness and rarity at a regional and mational level.

Appendices

- Consideration of values identified in previous studies and reports (see appendix A)
- Values must be river related in that they owe their existence or contribute to the functioning of the river system and its immediate environs.
- The use of standardized criteria against which river values were measured to determine outstanding remarkable value
- Verification by other experts in the subject area.
- Public verification of preliminary findings of outstandingly remarkable value.

This resource assessment will evaluate the following John Day River resources:

- + Scenic
 - + Recreational
 - Fish and Wildlife
 - Historic/Cultural
 - + Botanic/Ecological
 - + Geologic/Paleontologic
 - + Pre-historic/Traditional Use
 - + And other similar values



1989 State Comprohensive Outdoor Recruition Plan Region Map

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III. RIVER DESCRIPTION

The John Day River Canyon is situated primarily in a semi-arid area in northeastern Oregon. The 147 mile segment of the John Day River mainstem designated in the National Wild and Scenic Rivers System is located 110 miles east of Portland, 20 miles west of Fossil and Condon, and includes the river between Service Creek and Tumwater Falls. This segment flows west from central Wheeler County, turning north at the Jefferson County line, and then empties into the Columbia River approximately 4 miles east of Rufus. The north flowing segment forms the boundaries of Wheeler, Wasco, Sherman, and Gilliam Counties.

The Act designated the 147 miles between Service Creek and Tumwater Falls as a recreational river. Boundaries and acreage identified in this report are subject to revision based on further analysis of existing and new information in the preparation of specific river management plans.

Land Ownership Within the John Day Wild and Scenic River Preliminary Boundaries:

	Milea Land Ownership	Acreage
BLM	151	27,466
Private	137	19,005
State	7	126
Total	147.5 × 2 = 295	46,597

The entire Wild and Scanic portion of the John Day River is administered by the Bureau of Land Management through interagency cooperation with other federal, state and local government agencies. The segment between Service Creek and Tumwater Falls was designated a scenic waterway by the State of Oregon in 1971 with an additional 13 miles above Service Creek being added in 1988. (This 13 mile segment is not within the National Wild and Scenic River boundary). State Scenic Waterway boundaries are located one quarter mile from the mean high water line on both sides of the river. The State of Oregon also established the John Day River Wildlife Refuge from Thirtymile Creek to the Columbia River in 1933 to protect mesting waterfowl. No waterfowl hunting is allowed in this area. In addition, the Oregon State Marine Board closed to motorized boat use the section of river from Clarmo to Tumwater Falls between May 1 and October 1.

Portions of the Lower John Day, Thirtymile, and North Pole Ridge Wilderness Study Areas (WSAs) are included in the proposed Wild and Scenic River boundaries for a total of approximately 46 river miles. Portions of the Spring Basin WSA are also included in these preliminary boundaries for a total of approximately i river mile. Spring Basin WSA additionally borders approximately 2.5 miles of the preliminary Wild and Scenic boundary.

Stream discharge in the designated section is marked by extreme variability in both timing and quantity. In certain sections, the river has essentially stopped flowing some years during August and Sectember but has also reached a peak discharge in December, 1964, of over 42,000 cubic feet per second. These extrems flows affect recreational boating and fishing use levels on the river. There is little or no recreational development on this portion of the river and few vehicle access points exist.

DESCRIPTION AND EVALUATION OF RESOURCE VALUES

SCENIC VALUES

Criteria for Cutstandingly Remarkeble Rating

The landscape elements of landform, vegetation, water, color, and related factors result in notable or exemplary visual features and/or attractions within the geographic region. When analyzing scenic values, additional factors such as seasonal variations in vegetation, scale of cultural modifications, and the length of time negative intrusions are viewed may be considered. Scenery and visual attractions may be highly diverse over the majority of the river or river segment length and not common to other rivers in the geographic region.

DISCUSSION OF SCENIC VALUES

The majority of the land adjacent to the designated portion of the river is primitive and undeveloped. It is an area of high plateaus bisected by the river and it's tributaries. The river winds alternately through gentle farm valleys, majestic basalt cliffs that reach heights of over 1,000 feet, and steeply sloped hills covered with grass and sagebrush. <u>Oregon River Tours</u>, a guidebook for Oregon rivers, states that the lower John Day River rates high on the list as a "scenic desert wilderness river tour" (Garren, 1979).

Early morning and late afternoon shadows highlight the towering, desert buttresses of the "iver canyon. In contrast to the rugged, golden hills, riparian vegetation laces the ver's edge and rocky side canyons with a lush green bue. Juniper trees scattered inroughout the canyon create additional areas of green. Spring and summer wildflowers produce a sprinkling of color and fragrance while, in places, exposed volcanic ash deposits add unusual shades of blues, greens, whites and reds to the landscape. Erosion and oxidation of some of the basalt columns and pillars have created interesting formations and colors that have become scanic landmarks for river visitors.

The primitive setting and largely natural scenic viewshed from Butte Creek to Cottonwood Canyon provides river visitors with a sense of wildness and remoteness. This is evidenced by the fact that there are three Wilderness Study Areas located in this section. A more pastoral setting, created mostly by alfalfa fields, intermingles with the primitive view in the Service Creek to Butte Creek and the Cottonwood Canyon to Tunwater Falls sections. The location of the Spring Basin Wilderness Study Area confirms that there are still wild areas within this more rural portion. In a 1983/84 survey conducted by Oregon State Parks Division, most river users indicated that solitude, scenery and wildlife were very important aspects of their visit to the John Day River. Cultural modifications to the landscape are mostly a product of ranching and farming and include such things as fences, spring developments, livestock, irrigation pumps, and a few private airstrips and primitive dirt roads and ways. Bridges, with their associated highways, cross the river at four locations and a powerline can be seen for approximately 4 miles from Devil's Canyon to Cottonwood. This powerline crosses the river again approximately 1.5 miles above Rock Creek. Some evidence of a pipeline and a fiber optics line cross the river at Thirtymile Canyon. Military jets and small, privately owned planes occasionally fly over and into the river canyon. Most of the modifications to the landscape occur in segments D (Tumwater Falls to Cottorwood Bridge) and segment B (Butte Creek to Service Creek). The ranching and farming modifications create a more pastoral setting, providing approximately 90 miles of a different type of scenic experience in contrast to the wildland of segment C (Cottonwood Bridge to Butte Creek) which covers approximately 57 miles of the river corridor.

PRELIMINARY FINDING

As found by Congress, the scanic resource of the John Day River is determined to be an outstandingly remarkable value. The rural and wild settings and unique features along the river attract visitors on a regional and occasionally national and international basis. Outural modifications to the landscape are either temporary or not significant enough to seriously affect the classification of scenic values as outstandingly remarkable. The opportunity exists to enhance the scenic values along some segments of the river by adopting range management techniques designed to improve the riparian zone, help naturalize the river banks, and by planting native woody riparian species.

RECREATIONAL VALUES

Criteria for Cutstandingly Remarkable Rating

Recreational opportunities are, or have the potential to be, unique enough to attract visitors from outside of the geographic region. Visitors would be willing to travel long distances to use the river resources for recreational purposes. River-related opportunities could include, but not be limited to, sightseeing, wildlife observation, photography, hiking, fishing, bunting, and boating.

Interpretive opportunities may be exceptional and attract or have the potential to attract visitors from outside the geographic region.

The river may provide or have the potential to provide settings for mattonal or regional usage or competitive events.

DISCUSSION OF RECREATIONAL VALUES

Considerable recreation opportunities can be found along the John Day River. Hunting, fishing and whitewater boating constitute the most significant (recreational) uses. Camping, pichicking, sightseeing, rockhounding, photography, swimming, and wildlife watching are also enjoyed by river visitors as are the viewing of historic and archeological sites. At this time, there is little or no recreational related development along the Wild and Scenic portion of the river except for two pit toilets at Clarno and Cottonwood highway bridges.

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Draft John Day River Plan and EIS

The geological formations of the basin offer opportunities for scenic viewing and fossil hunting. The John Day Fossil Beas National Monument, and other areas in the vicinity, contain outstanding fossils of international significance. These fossils are protected under the Antiquities Act and therefore collection is not permitted.

Hunting seasons run from September through mid-January for waterfowl/upland birds and from October through November for the various deer seasons, accounting for an approximate total of 18,000 visitor use days. Superior bass and steelhead fishing attract anglers to total approximately 10,000 visitor use days annually.*

Whitewater boating use by raft, drift boat, cance, or kayak totals approximately 6,500 visitor use days from Service Creek to Cottonwood Creek. No data has been collected concerning boat use between Cottonwood Creek and Tunwater Falls but it is suspected that comparatively little boating occurs in that river stretch. Most boat use is concentrated during the peak water flows of late spring and early summer; low summer/fall water flows and cold winter weather discoursging use in other seasons.

Boating on the John Day River is characterized by a variety of fast to slow moving water, intermixed with a few moderately challenging rapids. Floating opportunities range from one day trips to week-long excursions and from reasonably accessible areas to the extremely remote. Motorized boating activity is closed from May 1 to October 1 in the area from Clarmo to Tumwater Falls.

The unconfined primitive recreation opportunities along the river attract many visitors. Purrent total use estimates are not presently available for the Wild and Scenic portion of the river. Surveys taken by the BLM during the heavy river use months (April to June) from 1985 to 1983 found that 78% of the visitors came from Oregon, 35% of that figure being from the Central and Eastern portions of the state while 63% hailed from west of the Cascades. The other 2% were from Southwestern Oregon. Commercial guides permitted by the BLM to use the John Day River numbered 49 in 1989 and 29 in 1991. Despite the apparent decline, commercial use on the John Day is expected to increase in the coming years.

Of those who ware not from Oregon, most were found to be from neighboring states, Washington being mentioned most frequently. An ODF&W survey of anglers during November through March of 1987/88 revealed a much higher percentage of visitors from the John Day River Basin and nearby region with only 35 of the anglers being from out of state. International visitors probably make up at least part of both out of state figures.

PRELIMINARY FINDING

Unlike the neighboring Deschutes River, the John Day offers more primitive and unconfined recreational opportunities as well as less technical rapids for the novice boater. The diversity and quality of opportunities such as hunting, fishing, rafting, camping, day use, and scenic viewing constitute recreation as an outstandingly remarkable value. This finding agrees with the Congressional record.

Both the John Day Fossil Beds National Monument and the Oregon Museum of Science and Industry's Hancock Field Station provide a variety of interpretive services in the region but there are many other rich interpretive opportunities yet to be tapped that have potential to attract visitors from outside the geographic region.

One visitor use day equals one person visiting the river for a 12-hour period.

FISHERY VALUES

Criteria for Outstandingly Remarkable Rating

Fish values may be judged on the relative murits of either fish populations or habitat, or a combination of these river-related conditions.

Populations The river is nationally or regionally an important producer of resident and/or anadromous fish species. Of particular significance is the presence of wild stocks and/or threatened and endangered species.

Hebitat The river provides exceptionally high quality habitat for fish species indigenous to the region. Of particular significance is habitat for wild stocks and/or federally listed or candidate threatened and endangered species.

DISCUSSION OF FISHERY VALUES

The entire John Day River Basin contains one of the few remaining wild fish runs in the Pacific Northwest with approximately 43,000 steelhead and 5,000 Chinook salmon returning each year for spawning (1988 figures). The summer steelhead and spring Chinook returning to the John Day each year for spawning make up the largest entirely wild run in the mid and upper Columbia River Basin, making the river of regional significance. A remnant fall Chinook population spawns in the lower mainstem but is estimated to be made up of less than 100 individuals.

The fact that this river is the longest free flowing river in the Columbia River Basin significantly influences the success of these runs of wild fish. In a recent Nation-wide Rivers Inventory report, the John Day was found to be one of only 42 high quality rivers left that is greater than 200 kilometers in length without any Major dams. Oue to the scarcity of riparian habitats in the general area, the John Day River and associated riparian habitat are important to both fish and wildlife.

In addition to the anadromous fisheries, the designated segment contains prime habitat for smallmouth bass and a healthy population presently exists. Rainbow trout also inhabit the John Cay River as do whitefish, northern equawfish, brown bullhead, sucker, channel catfish, red-sided shiners, chisel-mouth chub, coddit, carp. and lamprey.

This fishery has recently received attention in national publications and is becoming increasingly popular with anglers. Most of the commercial boating guide activity on the John Day River is associated with fishing and recreational angling accounts for 10,000 visitor use days annually.

This segment of the John Day River serves primarily as a migration corridor for all adult and juvenile chinook and steelhead. Currently, this habitat supports production of approximately two percent of the basin's total summer steelhead population. As many as 600 adult steelhead spawn in the subbasin each year.

Other species found in this segment include: redband rainbow trout, smallmouth bass, Pacific lamprey, bridgelip sucker, and speckled and long nose dace.

e majority of habitat in the subbasin is only marginally productive for anadromous fish compared to habitat in the upper watershed. The mainstream river channel is largely undefined, wide, and shallow. Low flows, sedimentation, lack of riparian cover, and high summer stream temperatures limit productivity and survival.

ODFW current/plants hatchery raised rainbow trout in the areas with high angling pressure in order to reduce the catch of wild fish. They also use fall spawning fish which reduces hybridization with the spring spawning red band rainbow trout and steelhead (CDFW 1992). Creel studies by CDFW indicate that over 90 percent of the catch was planted hatchery rainbow.

Based on the available archaeological and ethno-historic information, a variety of fishery resources were exploited within the John Day River Sasin most recently by groups belonging to the Confederated Tribes of the Warm Springs and Umatilla. Treaties signed by both groups in the 1950's with the U.S. government provide for fishing rights "in the streams running through and bordering said reservation(s)... and at all other usual and accustomed stations in common with citizens of the United States..." Data on the current use of the river by these Native American groups is non-existent, but formal queries may reveal that fishing activities are occurring.

PRELIMINARY FINDING

The quality, quantity, aesthetic, and economic importance of the fish habitat and its resulting resident and anadromous fish populations qualify this resource as an nutstandingly remarkable value. This finding confirms the Congressional record relating to sheries values of the John Day River.

Historic accounts of steelhead and salmon runs were considerably larger than counts today. Approximately 80% of the fish habitat in the basin is currently degraded due to human activities and is in early seral condition. Such habitat conditions substantially reduce production of steelhead and salmon. With habitat improvement, however, steelhead and salmon numbers could significantly increase.

WILDLIFE VALUES

Criteria for Outstandingly Remarkable Sating

Wildlife values may be judged on the relative merits of either wildlife populations or habitat - or a combination of these conditions.

Populations The river or area within the river corridor contains nationally or regionally important populations of indigenous wildlife species. Of particular significance are species considered to be unique or populations of federally listed or candidate threatened and endangered species. Diversity of species is an important consideration and could, in itself, lead to a determination of outstandingly remarkable.

Habitat The river or area within the river corridor provides exceptionally high quality habitat for wildlife of national or regional significance, or may provide unique habitat or a critical link in habitat conditions for federally listed or candidate threatened and endangered species. Contiguous habitat conditions are such that the biological needs of the species are met. Diversity of habitat is an important consideration and could, in itself, lead to a determination of cutstandingly remarkable.

DISCUSSION OF WILDLIFE VALUES

The variety of fish and wildlife species in the collective John Day River Sasin may be more diverse than in any other river system in the entire state of Oregon. This is mostly due to the diversity of habitats found there. Mixed sagebrush/grass sidehills, rock outcrops of the canyon walls, and riparian habitats make up the designated lower reaches. Most of the upland vegetation is in late seral * status making it good habitat for wildlife.

Though in early seral status, riparian areas are the most critical habitat for wildlife. The majority of wildlife in the Basin are either directly dependent on these areas or use them more than other habitats. Streamsides create a well-defined zone between the water's edge and drier surrounding areas. The moist soil conditions support a more diversified vegetative community than found elsewhere, in turn affecting wildlife diversity. Streamside areas provide, in close proximity to water, many varieties of food, shelter from extreme climatic conditions, cover for nesting and hiding, and corridors for travel over long and short distances.

One threatened species, the bald eagle, is documented to occur along the entire river during the winter months, utilizing large snags for roosting and perching. Bald eagle use of the John Day appears to be increasing as the regional population increases. Though no recent sightings are confirmed, the endangered peregrine falcon may also utilize the area, most likely on a migratory basis. Prairie falcons, golden eagles, and red-tailed hawks nest in the river canyon. Osprey are also found along the John Day.

Waterfowl, shorebirds, heron, and upland game and perching birds can be found in the riv corridor. Nesting by Canada geese has been increasing yearly with the river now providing habitat for several hundred birds yearlong. A variety of ducks live within the corridor. The Oregon Department of Fish and Wildlife has designated a special wildlife protection area from Thirtymile Canyon to the Columbia River primarily to protect migrating waterfowl and to reduce the pressure from hunting.

Common animals in the area include mink, coyote, river otter, bobcat, beaver, Western fence lizard, Pacific treefrog, and rattlesnake. Mule deer use the river yearlong with the most concentrated summer use in the riparian zone. Rocky Mountain elk sightings are increasing in the area. Historically, California bighorn sheep, a Category 2 Federal candidate species, occupied the Basin. In January of 1989, the Oregon Department of Fish and Wildlife and the Bureau of Land Management reintroduced fourteen bighorn sheep near Thirtymile Canyon, and in January 1990 thirteen bighorn were released near Horseshoe Bend. A winter count in January 1992 found 65 total bighorn.

Several species of warblers, vireos, and swallows migrate into the John Day Basin to nest. Many of these species utilize riparian areas for nesting and foraging while others utilize upland areas within the canyon. More information is needed to determine present and potential population levels for these species.

* In reference to "ecological succession", which is defined by <u>Ecology and Field Biology</u> (Smith 1966) as "an orderly and progressive replacement of one plant community by another until a relatively stable community occupies the area." We to the human use of the resource, present early seral conditions limit wildlife habitat especially within the riperian zone. This significantly notices habitat availability thereby reducing wildlife populations and diversity as well. Many of the side-drainages flowing into the John Day River are evaluated to be in poor to fair condition. To promote the integrity of the main channel, it is important to manage for an improved ecological status. An increase in ecological condition simultaneously involves an increase in plant diversity, which in turn supports an increase in wildlife diversity. It also improves the habitat in which these species live.

Two species of bat listed on the Oregon Natural Heritage Program list (1991) occur within the Wild and Scenic River corridor: The Townsend's big-eared bat and the spotted bat. More information is needed to determine which bat species occur in the corridor in addition to present population levels and key use areas.

Hunting constitutes one of the most popular forms of recreation in the Basin, accounting for approximately 18,000 visitor use days ennually. Game species include mule deer, upland game birds such as California valley quail and chukar, and waterfowl. The John Cay River also provides outstanding opportunities for wildlife viewing and there is great potential for interpretation of the Basin's wildlife as well. These non-utilitarian recreational pursuits are becoming more and more popular along the John Day River.

Available archaeological and ethno-historic information reveals that a wide variety of wildlife resources were exploited within the John Day River Basin, most recently by groups belonging to the Confederated Tribes of the Warm Springs and Umatilla. Treaties aigned by both groups in the 1850's with the U.S. government provide for "... the privilege of unting... on unclaimed lands in common with citizens, is also secured to them". Hunting rights on ceded lands continue today and are regulated by the respective tribes similarly to those imposed on the Euro-American population. Whether or not hunting activities are occurring within the river corrider is not known.

PRELIMINARY FINDINGS

The quality and diversity of habitat in the John Day river corridor qualifies this resource as outstandingly remarkable. The presence of threatened and endangered species such as the bald eagle, peregrine falcon and osprey, and regionally important populations of indigenous wildlife species assures this classification. The excellent opportunity to view wildlife in this area is also taken into consideration.

GEOLOGIC/PALEONTOLOGICAL VALUES

Criteria for Outstandingly Remarkable Rating

The river or the area within the river corridor contains an example(s) of a geologic feature, process, or phenomena that is rare, unusual, one-of-a-kind, or unique to the geographic region. The feature(s) may be in an unusually active stage of development, represent a "textbook" example and/or represent a unique or rare combination of geologic features (erosional, volcanic, glacial, and other geologic structures).

DISCUSSION OF GEOLOGIC/PALEONTOLOGICAL VALUES

The John Day Basin has a complicated geologic history which has resulted in a complex and liverse assemblage of nocks exposed at the earth's surface. These rocks include masses of oceanic crust, marine sediments, intrusive bodies, a wide variety of volcanic materials, ancient river and lake deposits, and recent river and landslide deposits. High potential exists for paleontological resources in the Clarno, John Day, and Mascall formations within the designated area. These beds are famous for plant and vertebrate fossils of igternational significance.

There are portions of the river where the traveller is exposed to extraordinary outcrops of Clarno basalts, lahars, and assorted volcaniclastics, many of them right at the river level. These offer excellent material for study of volcanic processes and related decositional environments.

The oldest excosed rocks in the designated area comprise the Clarmo Formation of Eccene age. The Clarmo Formation consists of sediment deposits of shales, sandstones, and conglomerates, interbedded with volcanic tuffs and lavas. The sequence may be as much as 2,000 feet thick locally.

Overlying the Clarmo Formation is the Oligocene John Day Formation, known for its vertebrate fossils. These variegated tuffs and shales outcrop thickly in several areas along the John Day River.

The Columbia River Basalts, here considered to be part of one of the world's largest continental basalt flow formations, overlie the John Day Formation. These are distinctive flood basalts deposited during the Miocene, and are still essentially horizontal in the designated area. The John Day River cut a dramatic cross section through this plateau as it formed the John Day Canyon. In some places, basalt cliffs rise over 1,000 feet above the river or have erocad into unusual and interesting shapes, adding to the scenic Qualities of the canyon.

During the Pliocene age, tufaceous sedimentary rocks and tuffs were deposited in the northernmost area of the John Day River.

Landslide and debris flow deposited during the Pleistocene age occur as unstratified layers comprised of mixtures of basaltic, andesitic, tufaceous, and sedimentary bedrock. Recent rock and gravel deposits form bars and beds along the canyon.

River segment B, which extends from the mouth of Butte Creek (RM 95) to Service Creek (RM 155), passes very near the Clarno Unit of the John Day Fossil Beds National Monument just east of Clarmo at FM 110. Fossil bearing exposures occur within the river corridor throughout this segment. No formal inventories have yet been conducted within the corridor but several locations are known or are considered highly likely to contain significant vertebrate and botanical specimens. Paleontological inventories will need to be conducted prior to any ground disturbing activities.

PRELIMINARY FINDING

The Congressional record found geologic/paleontologic values to be significant on the John Day River. Further investigation through this report reveals that the geologic/ paleontologic features and opportunities for scientific research, interpretation, and aesthetics available on the river are an outstandingly remarkable value.

Given the proximity to the John Day Fossil Beds National Monument and the likelihood of discovering additionally significant localities, paleontological resources within segment S should be considered to be especially outstandingly remarkable. Of major importance to this finding is the international significance of the paleontological resources located in this area.

BOTANICAL VALUES

Criteria for Outstandingly Remarkable Rating

The river or area near the river must contain nationally or regionally important populations of indigenous plant species. Of particular importance are species considered to be unique or populations of federally listed or Candidate Threatened and Endangered Species. When analyzing vegetation, additional factors such as diversity of species, number of plant communities and cultural importance of plants may be considered. 29

Appendices

ISCUSSION OF BOTANICAL/SCOLOGICAL VALUES

Containing pristing plant communities as well as interesting plant species, the corridor along the John Day Wild and Scenic River offers the visitor unparalleled opportunity to experience the natural landscape of north-central Oregon.

Immediately adjacent to the river, the riparian zone offers lush, green vegetation important to wildlife and natural hydrologic processes. Although past use has not been kind to this important vegetation, improved grazing management promises a slow, but steady recovery. In contrast to the cool, inviting riparian areas, the adjacent canyon slopes offer little hope of relief to the traveler. These dry, steep, rocky hillsides, protected from unregulated grazing and agriculture by their topography and inaccessibility, contain the remnants of a once-great grassland. Dominated by vast acreage of bluebunch wheatgrass (<u>Agropyron spicatum</u>), these slopes appear much as they did hundreds of years ago.

Volcanic clays of varying hues and textures been testimony to the fiery birth of much of the landscape along the river. Here, in these clay soils, are several species of plants endemic (of limited range, only found here) to this part of Oregon. Early spring moisture often causes these otherwise barren clay slopes to be ablaze in a carpet of yellow wildflowers. An assortment of unique plants on the rocky ridges tempt one to hike to the top. All in all, 16 plants of some degree of importance as "special status species" are known or suspected in the river corridor, including three candidates for listing as endangered or threatened.

The designated area contains vegetation representative of a potential natural community PNC) bluebunch wheatgrass ecosystem. (PNC is the relatively stable, final stage in the succussion of vegetation types, generally equated with pristine). There are opportunities to study native range sites which could be useful for vegetative comparison and could be maintained as pristine plant reserves. This could be beneficial for future genetic experiments.

The available archaeological and ethno-historic information reveals that a wide variety of plants were exploited within the John Day River Sasin most recently by groups belonging to the Confederated Tribes of the Warm Springs and Umatilla. Treaties signed by both groups in the 1850's with the U.S. government provide for "the privilege of ... gathering roots and berries... on unclaimed lands in common with citizens, is also secured to them". Recent information suggests that traditional gathering practices are still being pursued by tribal members, but no specific data exists on the use of plant resources within the river corridor.

PRELIMINARY FINDING

The John Day Wild and Scenic River corridor contains a relatively pristine bluebunch wheatgrass plant community coupled with the potential presence of 16 special status plant species. In addition, the unique contrast between riparian and high-desert upland vegetation provides important wildlife habitat and aesthetic values to the area. There is opportunity to improve the qualities of the John Day River's vegetative community in the riparian zones and on the alluvial flats through range management. Scientific study and interpretive opportunities also exist in the area. Should future inventories establish the presence of additional special status plant species, this finding could be upgraded to sutstandingly remarkable. However, since all of the known or suspected special status plants occur elsewhere in the greater John Day River watershed (i.e.the river corridor contains only a fraction of their known habitat) and since the PNC bluebunch wheatgrass communities also occur elsewhere on similar steep slopes, these botanical/ecological values can only be found to be significant rather than outstandingly remarkable.

PRE HISTORIC, TRADITIONAL USE

Criteria for Outstandingly Remarkable Rating

The river or area within the river corridor contains a site(s) where there is evidence of occupation or use by Native Americans. Sites must be rare, one-of-a-kind, have unusual characteristics or exceptional human interest value(s). Sites may have national or regional importance for interpreting prehistory; may be rare and represent an area where a culture or cultural period was first identified and described; may have been used concurrently by two or more cultural groups; or may have been used by cultural groups for rare or sacred purposes. Of paricular value will be pristine sites that have not been disturbed.

Discussion of Pre-historic, Treditional Use

Some of the John Day River contridor has been surveyed for cultural resources. Nearly 100 prehistoric sites have been recorded, which represent the full range of human activities including pithouse villages, rockshelters, pictograph sites, rock feature sites, tool manufacturing sites, and a few buried sites whose character can not be determined without scientific excevation. These sites indicate intensive occupation by indians over the last several thousand years and many are very significant. Three sets of archaeological sites are potentially eligible for inclusion in the National Register of Mistoric Places. The Bureau of Land Management, recognizing the value of archaeologic sites on public land, plane to nominate several of these sites to the National Register.

Many sites have high potential to provide information about past cultures and their use riverain resources. There are excellent interpretive opportunities. About half of the known sites are in fair to poor condition with the greatest threat to these fragile resources being the continued illegal digging and surface collection of prehistoric artifacts.

Available data is limited concerning use of the river corridor for traditional use or religious practices. According to the involved Native American groups, any area where native plants and animals occur are considered traditional use locations. This would indicate that a majority of the BLM lands within the corridor could be used for traditional use practices, including grazing, as provided in the treaties for each tribe. A concerted effort to conduct ethnological and ethnobotanical research should be pursued in order to illuminate our current understanding of the past use of the river canyon. Recent religious practices within the river corridor are unknown and will most likely remain so for obvious reasons. Again, ethnological work would probably be useful for providing a general knowledge about certain caremonies and practices without revealing particular significant locations, other than in general terms.

River segment D

Segment D. covering the area from Tumwater Falls (the Narrows) south to the Cottonwood Bridge, has been selectively inventoried for cultural resources by Polk (1975). This small sampling revealed the occurrence of only a few prehistoric sites. Based on this and other archaeological studies conducted at the mouth of the John Day River, it appears that human occupation in the lower part of the canyon extends back some 8,000 years (Schaik 1987). It has been suggested that the interior portion of the canyon was most heavily used after about 5000 years ago, although no formal testing/evaluation has been conducted to substantiate this.

Ethnographically, the area has traditionally been utilized by the Tenino group of Sahaptian speakers, primarily for fishing. Several villages are known to have occurred in the lower reaches of the river, although their exact location has not been discovered.

River segment C

River segment C, extending from the Cottonwood Bridge to the mouth of Butte Creek (approx. FM 35) has been extensively inventoried by Polk (1976). Within this particular stretch of the river Polk recorded 59 prehistoric sites. An additional 5 prehistoric sites have been located since that time. Others surely exist that have yet to be discovered. Site types recorded include pit house villages, isolated pit houses, mockshelters, lithic scatters, pictographs and petroglyphs, and mock features. The nature of several of the prehistoric sites is undetermined because they are buried by river sediments. Many of the sites are in good condition, but those nearest to access points, and a few which are not, have been badly damaged by vandals. No formally reported cultural resource excavations have been conducted within this segment.

Ethnographically, the area was utilized by the Tenino group of the Sahaptian speaking language family. Little is known about the area. Few of the ethnographic studies mentions the use of the canyon specifically. It is assumed that the fisheries played an important role in the canyons occupation. However, observable evidence at the altes suggest that hunting and gathering were as important, if not more so. No known ethnographic villages have been identified in this segment.

River segment B

River segment B, which extends from the mouth of Butte Creek (RM 95) to Service Creek (RM 155), was partially inventoried for cultural resources by Polk (1976). A small number of tites were located during the examination of this segment. These consisted of ockshelters (one with pictographs), one pit house village site, and several open lithic scatters. Creasman (1937, 1950) recorded several pictograph sites and tested a rockshelter near RM 12D. The results of the testing were inconclusive and provided little data. Work conducted in the Pine Creek (Gannon 1968, 1970, 1972; pers. comm. Endzweig 1991) and Muddy Creek (U.S.D.I., BLM CR Report 86-05-03) areas near Clarno has revealed that occupation in the vicinity of the segment extends back as far at 7,000 years ago, with most occurring later than 2500 B.P.

Ethnographically, this segment falls on or near the boundary between the Tenino group of Sahaptian language speakers and the Northern Paiute who are part of the Numic language group (Stewart 1939). It currently is within the ceded lands of the Confederated Tribes of the Warm Springs. Farmer <u>et al.</u> (1973) indicate that an aboriginal trail existed along the northern side of the river along this segment, joining with another on the west side of the river near Clarno. No known Native American religious sites or traditional use areas exist within the corridor of this particular segment.

PRELIMINARY FINDING

River segment D

Although specific data about prehistoric sites along the lower course of the river is limited, segment D contains the only site to be formally studied within the whole of the river system. The potential for locating additional prehistoric sites which may contribute significantly to our understanding of the prehistory of the John Day River canyon is high. Our general lack of knowledge regarding the prehistory of the Deschutes-Umatilla Plateau, especially the John Day River canyon, creates a circumstance where all prehistoric sites can be considered significant. The fact that sites located along the lower segment of the river may have had connections with the ethnographic past only imparts additional importance to there potential human interest values. Therefore, all cultural resources along this segment are outstandingly remarkable.

River segment C

Segment C of the river contains a great variety and concentration of prehistoric sites. It has been recommended that several of the prehistoric site concentrations be designated as archaeological districts. The nature of the sites provide excellent opportunities to significantly increase our current data base of knowledge concerning prehistoric occupation. Therefore, all cultural resources within this segment are outstandingly remarkable.

General lack of knowledge regarding the prehistory of the Deschutes-Umatilla Plateau, especially the John Day River canyon, creates a circumstance where all prehistoric sites can be considered significant. This is particularly true because of the variety of prehistoric sites occurring along this segment of the river have high potential for scientific research. Therefore, all cultural resources within this segment are outstandingly remarkable.

River segment B

Although cultural resource inventories have been somewhat limited along segment B, the findings have been significant. The available evidence suggests that a variety of prehistoric sites exist which could provide important information about our understanding of past lifeways. This especially important when we consider the prehistoric situation and its boundary setting. Additional inventory and evaluation will need to be performed prior to any proposed ground disturbing activities.

Given the unknown nature of the prehistory of the Deschutes-Umatilla Plateau, especially the John Day River canyon, all sites must be considered potentially significant at this time. The additional fact that this segment is situated along a known cultural boundary provides added importance to these resources. Therefore, all prehistoric sites along this segment are cutstandingly remarkable.

All Segments

On the river overall, evidence of human occupation for the last several thousand years and the presence of three sites with National Register potential indicate that the designated corridor of the John Day River possesses archeological values that are outstandingly remarkable. This upgrades the Congressional record finding of "significant" relating to the archeological values of the John Day River. In addition, these sites were used concurrently by several cultural groups and have regional importance for interpreting prehistory. The river corridor is also an important traditional use area to Indian tribes and is associated with treaty rights on ceded lands.

STORIC, CULTURAL VALUES

Criteria for Outstandingly Remarkable Rating

The river or area within the river corridor contains a site(s) or feature(s) associated with a significant event, an important person, or a cultural activity of the past that was rare, unusual, or one-of-a-kind in the region. A historic site(s) and /or feature(s) in most cases is 50 years or older. Of particular significance are sites or features listed in, or are eligible for inclusion in, the National Register of Historic Places.

DISCUSSION OF HISTORIC/CULTURAL VALUES

Historic sites in the designated corridor offer special qualities for cultural resource studies, aesthetics, and interpretation. Twenty—six historic sites have been documented which represent primarily dispersed settlement associated with livestock grazing and transportation-related features in the late 19th and early 20th centuries. Some sites are so significant that they are potentially eligible for designation on the National Register of Historic Places.

The historic sites include cabins that are associated with homesteading or stockraising, machinery left from a ferry crossing, three wagons left from a 1920s movie set, and a rockshelter used for a still. The Oregon Trail, a significant western immigrant route, crossed the John Day River at McDonald Ford and is a potential National Register of Mistoric Places property as well.

River segment D

The primary historic use of this segment occurred at McDonald Ford. This was the primary crossing point of the river for thousands of Dregon Trail emigrants between the 1840's and 1860's. In 1858, a ferry was built at the crossing. Later transportation routes used this same crossing. Other but less important uses of this segment include some homesteading, farming and ranching.

River segment C

River segment C, extending from the Cottonwood Bridge to the mouth of Butta Creek (approx. RM 95) has been extensively inventoried by Polk (1976). Within this particular stretch of the river Polk recorded 9 historic sites. Site types recorded include homesteads, a ferry site, irrigation cenals, ranching line shacks, a still site from prohibition days and three buckboard wagons used in a 1930's movie about the Oregon Trail.

River segment B

River segment B, which extends from the mouth of Butte Creek (RM 95) to Service Creek (RM 155), was partially inventoried for cultural resources by Polk (1976). A small number of sites were located during the examination of this segment. Historically, these consisted of one 1930's era cabin.

This segment contains some interesting sites related to transportation and settlement. In the 1980's the route of The Galles Military Road passed along the west side of this regment between Cherry and Bridge Creeks. Clarno was apparently established in the 1980's

y Andrew Clarno who was a cattle rancher. A post office was erected at Clarno in 1994, although there is some evidence to suggest that an earlier one existed in the 1880's. The floogplain zone of this segment has been subjected to farming and ranching activities since this early era. PRELIMINARY FINDING

River segment D

The occurrence of the Oregon Trail croasing along segment D has local, regional and national significance. Cultural resource inventories will need to be conducted prior to any proposed ground disturbing activities.

The Oregon Trail is considered to be a National Historic Trail and of National Register eligibility. Therefore, all historical resources along this segment are outstandingly remarkable.

River segment C

Segment C of the river contains a great variety and concentration of historic sites. Additionally, the historic sites along this segment represent a unique view of early twentieth century occupation of the canyon and can contribute to our understanding of the settlement of the region. These sites also offer excellent interpretive opportunities. Historic resources within this segment can contribute to our understanding of the part economy and scenic values of the canyon played in the local and regional histories.

River segment 9

Although cultural resource inventories have been somewhat limited along segment B, the findings have been significant. The available evidence suggests that a variety of historic sites exist which could provide important information about our understanding c past lifeways. Additional inventory and evaluation will need to be performed prior to any proposed ground disturbing activities.

The historic sites can also contribute to our better understanding of the initial settlement and occupation of the region. Although they are significant, they are not outstandingly remarkable.

All Segments

Overall, the John Day River and its corridor played an important role during the pioneer migration and settlement of the west, some sites being significant enough to make them eligible for National Register designation. The colorful history of the area is ripe for interpretation and is found to have outstandingly remarkable values. This is an upgrade from the finding of "significant" noted in the Congressional Record.

OTHER SIMILAR VALUES

Assessments of additional river-related values may be completed upon receiving the results of subject expert solicitations for information and significance.

APPENDIX A

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APPENDIX B

FUBLIC INVOLVEMENT PLAN FOR RESOURCE ASSESSMENT

 Complete internal draft of the John Day River Resource Assessment. Orgoing review and editing using interdisciplinary approach.

> Internal Interdisciplinary Review Team: Ocn Smith, Assistant District Manager Dick Cosgriffe, Area Manager Brian Cunninghame, Public Affairs/Project Manager Wayne Elmore, Natural Resource Specialist SuZan Meiners, Recreation (review team leader) Dan Wood, Outdoor Recreation Planner Roy Pearl, Wilderness (NRS) Brad Keller, Wildlife Biologist Sarah Nichols, Student Trainee (Wildlife Biologist) David Young, Fishery Biologist James Elsner, Student Trainee (Fisheries) Dennis Davis, Geologist Ron Halvorson, Botanist (NRS) John Zancanella, Archeologist

External Professional Review: Suzanne Crowley Thomas, USFS, archeology/history Errol Claire, ODFW, wildlife/fish Ted Fremd, NPS, paleontology Frank LeMay, ODFW, wildlife/fish

- Complete revised internal draft and have Management Team Review.
- Mail Resource Assessment draft to interested public and professionals for comment.
- Revise draft based on public comment and send to State Office.

Appendices

APPENDIX C

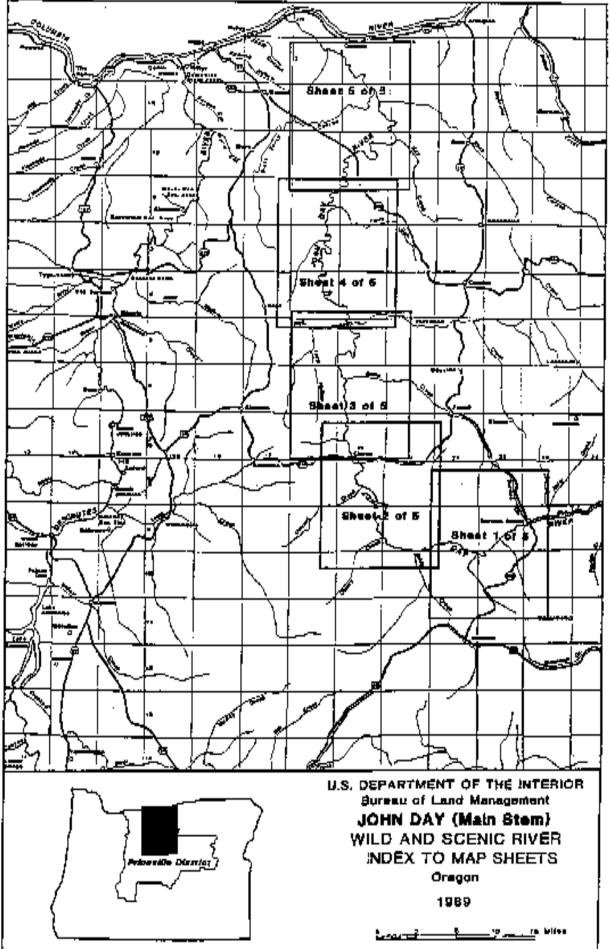
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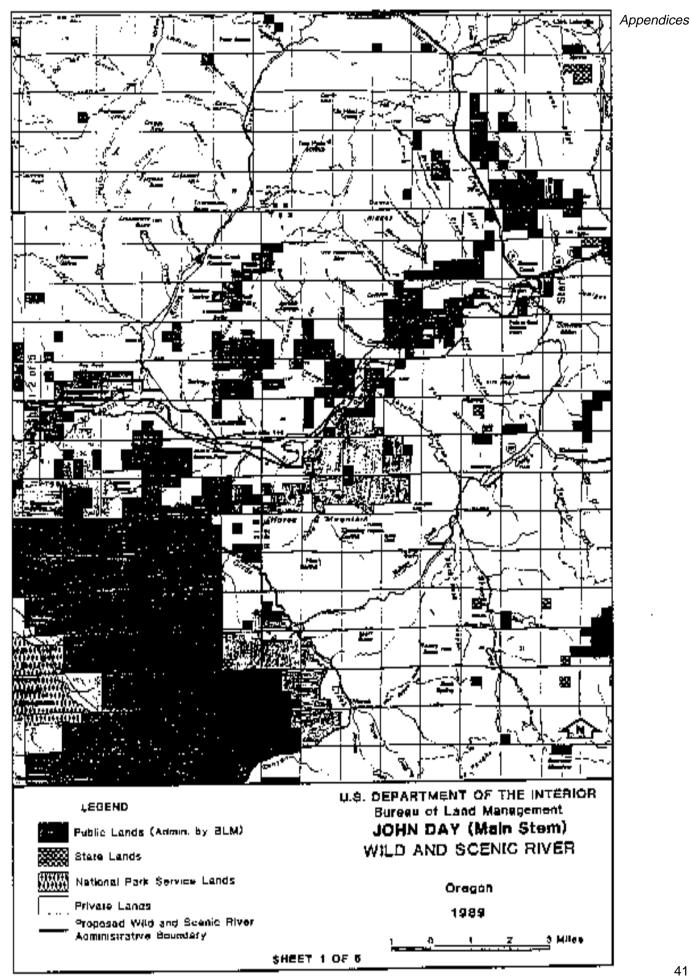
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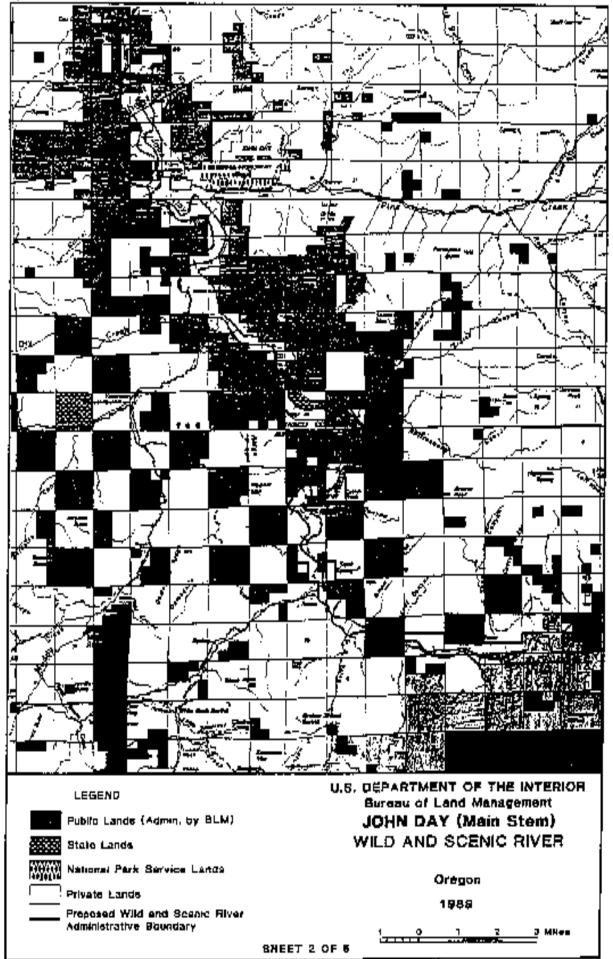
RIVER MAPS

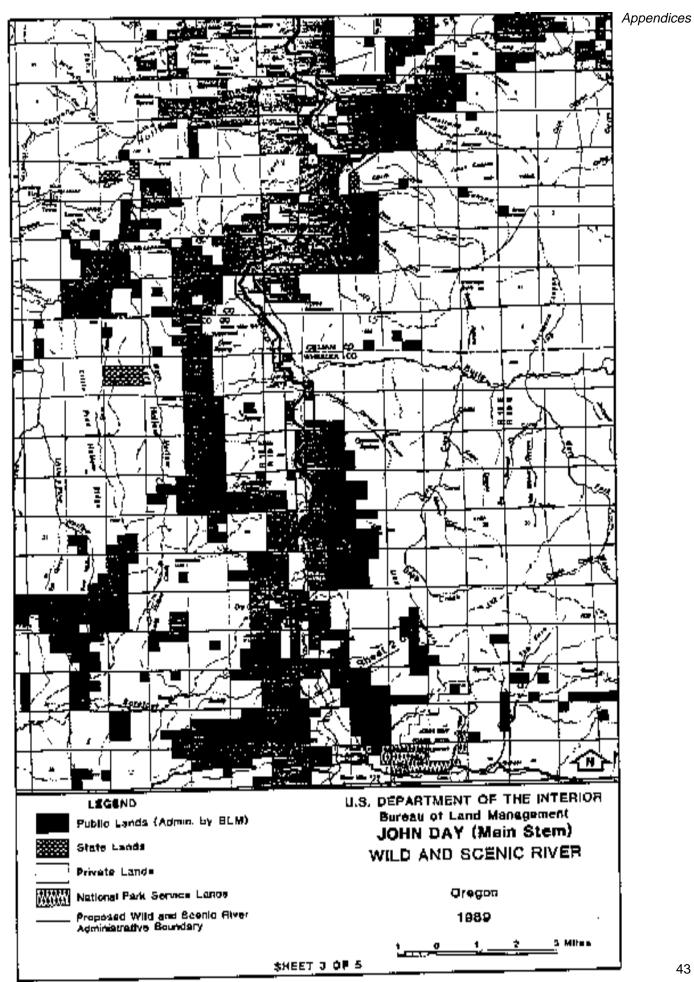
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Draft John Day River Plan and EIS

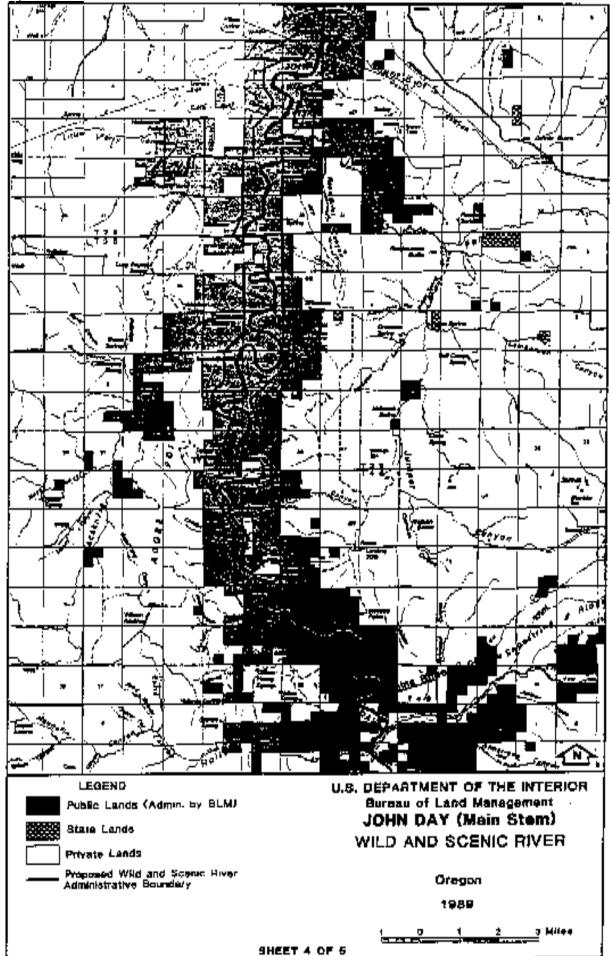


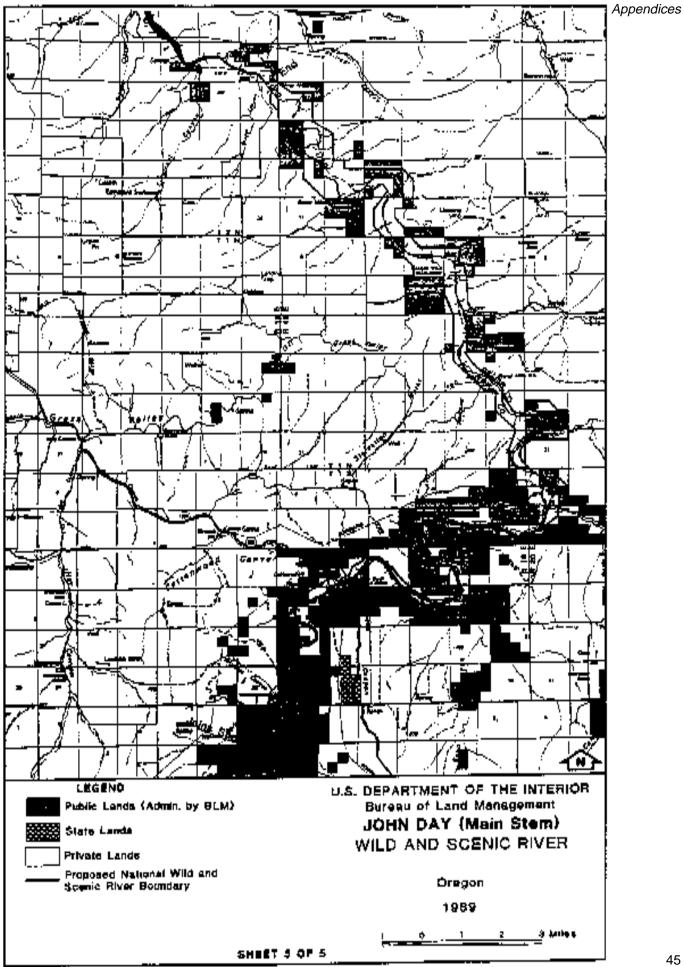






Draft John Day River Plan and EIS





APPENDIX D

RESOURCE ASSESSMENT PROCESS (IN DEPTH)

I. PURPOSE AND NEED

The importance of a thorough resource assessment cannot be overstated. The resource assessment serves as the foundation of the river management planning process. It determines which river-related features are truly outstandingly remarkable or contribute substantially to the river setting and the functioning of its ecosystem. It is not intended to serve as an eligibility evaluation.

Usually the initial step in the river management planning process, the resource assessment must take into consideration all features which are directly river-related. This early identification and evaluation will help ensure that significant features are not overlooked and that a holistic approach to investigating the inter-relationship among various features is achieved.

The identification and documentation of outstandingly remarkable and other significant values is a first step in developing management prescriptions that protect and enhance river values. A thorough resource assessment provides the basis upon which management decisions affecting resources within the planning area can be made during the interim period pending plan completion and approval. Additionally, the findings and conclusions reached at the end of the assessment effort will be used in management plan scoping, neluding specific issue identification and establishment of final administrative .oundaries.

There are three components of the resource assessment process. Fist is the identification of any outstandingly remarkable values not specifically identified by Congress, but found present nevertheless, within planning area boundaries. Second is the identification and determination of significance levels for river-related values which are not determined to be outstandingly remarkable, yet contribute substantially to a river's overall character. Third is the confirmation of the outstandingly remarkable values set forth for specific rivers in the Omnibus Oregon Wild and Scenic River Act (see the Congressional Record -Senate, vol. 134, dated October 7, 1986).

It is important to remember that the term "outstandingly remarkable" as used in the Wild and Scenic Rivers Act has never been precisely defined. Consequently, any determination of outstandingly remarkable values is a matter of informed professional judgment and interpretation. The only firm expectation is that the basis for the judgment be adequately documented in the resource assessment.

II. VALUE ASSESSMENT

All values assessed should be directly river-related, or owe their existence to the river ecosystem. The rationale for a direct river relationship is that the program involves the Wild and Scenic Rivers System rather than a generalized land and resource conservation program. It is therefore appropriate to focus attention on the river and resources directly related to it.

he resources to be assested are specifically identified in the Wild and Scenic Rivers Act (PL 90-642) and include scenic, recreation, geologic, fish and wildlife, historic, cultural, and other similar values. Other similar values include, but are not limited to, hydrologic, botanic and ecological resources.

III. SIGNIFICANCE THRESHOLDS

In order to be assessed as "outstandingly remarkable", a river-related value must be a unique, rare or exemplary feature that is significant at a regional or national level. Those river-related values that are not assessed as outstandingly remarkable but contribute substantially to the functioning of the river system and river setting should be described and their level of significance indicated.

The geographic regions (8) described in the 1980 Statewide Comprehensive Outdoor Recreation Plan (SCORP) for Oregon may be used for comparing certain river-related values among the rivers in a "region". Because of the location of rivers in specific SCORP regions to contiguous state borders (Washington, Idaho, Nevada, and California), geographic regions can be modified as necessary to provide the basis for meaningful comparative analysis for non-recreation values such as fisheries or cultural resources.

Guidelines for assessing values are meant to set minimum thresholds to establish outstandingly remarkable values and are illustrative, not all-inclusive. In some cases, a value may meet some or all of the criteria, yet may not, for a well-cocumented reason, be determined to be an outstandingly remarkable value. In another situation, a value may be called outstandingly remarkable for a reason not listed in these guides. The important and critical step is to document the rational for the determination.

APPENDIX E

Value Companison Chart

Value	<u>Congressional</u>	<u>This Assessment</u>
Sceni¢	0	o
Recreational	0	0
Fishery	¢	0
Wildlife	-	Q
Geologic/Paleontologic	s	0
Botanic/Ecological	-	5
rehistory/Traditional Use	· S	0
Historic/Cultural	S	o

O = Outstandingly Remarkable

S = Significant

.

APPENDIX F

Comments to the Draft Resource Assessment

The BLM received many comments from the public after the draft Resource Assessments were published. Some comments specifically addressed the Resource Assessment while others pertained to river planning. Only those comments specifically addressing this Resource Assessment will be included here. Comments on river planning will be addressed in the John Day River Management Plan and Environmental Impact Statement. WILD AND SCENIC IVE LIVE

COMMENT FORM

nk you for statif interest in these rivers. Below is a check list should you want to receive more information or provide comments. We will welcome your comments at any time throughout the planning process, however, comments for this phase of the process must be received at the BLM office by August 31, 1991 in order to be fully utilized. Several mailing lists have been combined to send you this information. If you received duplicates please share them.

 \underline{X} Please send me more information about the following rivers:

	All 6 rivers	FROM :
_	Lower John Day River (mainstem)	MARK EGGER, CONSERVATION
	South Fork of the John Day River Middle Deschutes/Lower Crooked Rivers	WASH, MATTYE PLANT SOCIETY
	North Fork of the Crooked River	9521 - 49th AVENUE N. 5
	Greeked River (Chimney Rock Serment)	
	Crocked River (Chimney Rock Segment) White River	STATLE WA 9815

- I am not interested in any further information. Please remove my name from the mailing list.
- \succeq I would like to share my ideas and suggestions on this form.

ease feel free to send us additional comments.

Comments:

×.

<u>Draft John Day</u> River Plan and EIS

AUG 1991

Mainsten John Day R. also contain outstaully reverkable botantial values, nously the unacrous species of endewice and/of designated builities species of matives plants form in this drainage. One example is <u>Castilleja</u> <u>ranthotrick</u> which is endemic to the middle John Day R. area, especiel around Clarno, state of OR rate plant plata face show be consulted for other rare species along this strates of the river. - Mark Egger

Please fold and either staple or tape this form and drop it in the mail. No postage is necessary.

October 3, 1991

To: Suzan Meiners

ų,

From: Ron Halverson, Dist. Botanical Spac.

Subject: John Day River (mainstem) and botanical values

In answer to Mark Egger's wild and scenic river comment, the mainstem of the John Day River does posess numerous endemic plants, many of which were, at one time or another. of some important status. Among these plants are <u>Castilleia</u> <u>xanthotricha</u> (yellowhairy Indian paintbrush), <u>Astracalaus diaphanus</u> var. <u>diaphanus</u> (transparent milkvetch), <u>Chaenactis</u> <u>nevii</u> (Nevius' chaenactis), <u>Pediocactus simpsonii var. robustior</u> (barrel cactus), <u>Hymenopappus</u> filifolius var. filifolius (Columbia cutleaf) and Asclepias cryptoceras (pallid milkweed). The yellow-hairy Indian paintbrush was once a federal candidate for listing as T/E but now does not appear on any list I know of and is not considered a special status plant. Not only is it found near Clarno, but also in much of the Muddy Greek, Currant Greek, Cherry Greek and Bridge Creek drainages, extending from at least the North Pole Ridge area to Mitchell and south and east. Nevius' chaenactis and the transparent milkvetch were both federal candidates but now are at the "Watch" level, the lowest level a plant can have and still be recorded in the field when observations are made. The pallid milkweed and the barrel cactus are also at the "Watch" level and never were federal candidates. The Columbia cutleaf has been on the "Watch" list but has no statum at this time.

I know of no plants within the corridor of the John Day Wild and Scenic River which would cause the botanical values to be "outstandingly remarkable". There are significant values, however, by the presence of the above endemic species but these endemic species occur elsewhere in similar soils, such as in the Bridge Creek/Sutton Mtn. and Spring Basin areas.

There are areas of "pristing" bunchgrass communities on the steep side hills of the W&S River corridor, but these also occur elsewhere, and so while "significant". I would have a hard time applying the term "outstandingly remarkable" to them.

The source of this information is from both records in-house and the Oregon Natural Heritage Data Base. Mark Egger's comments would perhaps have been appropriate five years ago. but the status and importance of plants is continually changing based on new information.

Ron Holosom

10[2/4] Dese Kile 102 NW 7th St iahn Day O'R JUZUNI Thanks for the Copy of the Diff Essaire assissment A. He Lower J.D. Kiver, Jour a Hacked Thota asked be my prom #. It is 575-0899 TEROW it is ald have, but I had to Cangratulate those is your again-AHN Suzan Meine ation for Cosammating the Sutton Min Land Exchange, and taking aggressive measures to Statilita the Stream banks and Somes in that area. If available I Would appreciate Ray maps on additional information about the Restoration and Devention EnChancement Work. If there is a Charge for this information Alease Confact me - Thanks Sinciogle Rece





THE WILDERNESS SOCIET

NORTHWEST REGION

November 23, 1991

James Kenne Deschutes Area Manager Bureau of Land Management P.O Box 550 Prineville, Oregon 97754

Dear Mr. Kenna:

Thank you for the opportunity to review the draft Lower John Day Wild and Scenic River Resource Assessment. We support the "outstandingly remarkable" designation of the scenic, recreation, fishery, and wildlife resources. However, we would like to comment on several areas of concern to the Wilderness Society.

In light of the current urgancy of the salmon-issue, one of our greatest concerns is the section outlining the fishery resources. The John Day River Basin is one of the last wild anadromous fish runs in the Pacific Northwest. We must do everything possible to protect and enhance this disappearing resource. Although the author has done a fine job outlining the regional importance of the river and its associated riparian habitats for both fish and wildlife, the rest of this section is plaqued with deficiencies. The draft should include: current fishery populations figures, the extent of their habitats' degradation, and the impact that specific "cultural" activities have had on the fisheries. For example, how have grazing, agriculture, road-building, and fishing activities affected water quality, fish populations, and riparian habitats? To what extent can certain conditions be attributed to management activities outside the proposed scenic wildlife area? Management alternatives drafted without this information could seriously impair the future health of these regionally significant fisheries.

Considering the importance of this particular fishery, we are surprised that the recreational values section does not assess how fishing activities have affected the fish population. For example, what percentage of the population is caught each year? is the population stressed? In addition, this section should

610 SW ALDER, SUITE 915, PORTLAND, OR 97205

(503) 248-0452

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Appendia

REACTION

assess the impact hunting and camping have had on the riparian zones. In the future it might be necessary to develop permanent campaites that would concentrate visitors away from these ecologically vital zones. These sites would present interpretive and visitor management opportunities.

Regarding the scenic resources, we fear that the vague language and description of "cultural modifications" may confuse the extent to which these "modifications" have undermined the area's scenic potential. In particular, the last sentence on page six ("These sights are either temporary...") does not agree with the spirit of the last sentence of the previous paragraph ("In a 1983/84 survey..."). The river users from this survey would probably find their visits much more enjoyable without these "temporary or not significant enough" sights. In addition, it would be helpful to make a clearer distinction between "rural" and "wild" areas on the river. How many miles of river scenery are blemished by "cultural modifications?" What sections (using A-D, as done in the assessment of cultural values), if any, are actually pristine?

The assessment of wildlife values is one the draft's strongest sections. We applaud the emphasis on the degraded condition of the riparian zones. Healthy riparian habitats are essential to the continued health of the area's wildlife. The management plan must call for an improvement of these conditions. Therefore, a complete inventory of the degraded zones is essential so past management mistakes can be corrected. In addition, the draft would be improved by including the current status of the reintroduced bighorn and by defining the impacts of "nonutilitarian recreational pursuits." We also agree with the preliminary finding that the bat population data is inadequate.

The botanical section is not nearly as complete as it should be. Although the draft indicates that the area contains sixteen "special status species," including three potentially endangered or threatened plants, only one species is named. Considering the degraded conditions of the riparian zones, the planners must know what is there, or rather, what is left. A complete inventory is absolutely necessary. The presence of three potentially endangered or threatened plants certainly qualifies these botanical values as "outstandingly remarkable." We hope that an interest in continuing current grazing practices did not prejudice your assessment of botanical resources. The evasive language in the botanical section suggests a fear that a "outstandingly remarkable" designation would force drastic changes in range management.

In general, this draft teases the public with obscure suggestions that past and current grazing management plans have damaged the area. The impacts of these practices should be known to assure they are not continued or repeated. We suggest suspending grazing activities at least until the corridor has recovered from years of, what has obviously been, extremely destructive grazing. The planners must not give in to pressure to accommodate shortterm grazing demands that currently damage the area's riparian zones. This assessment and planning process is designed to develop a plan "which protects <u>and</u> enhances....fiver-related values." We unge you to examine the "significant" designation of botanical values and seriously question current grazing management.

Again, thank you for the opportunity to comment on the Resource Assessment draft. In general the draft is an admirable first step towards a final resource assessment and the protection and enhancement of this river's "outstandingly remarkable" values, but it does need some revision. We hope our comments will facilitate this process. We look forward to working with you in the management plan development process.

Sincerely.

Robert M. Freimark Assistant Director

treinach C. Bud Sith

C. Bayard Smith Wild and Scenic Rivers Volunteer



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Princylle District Office P.O. Box 550 (185 E. 4th Street) Princylle, Oregon 97754

IN POPLI REPERTO.

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LAN 1 0 1992

Errol Claire John Day District Gregon Decartment of Fish and Wildlife P. O. Box 9 John Day, OR 97845

Dear Errol:

I have rectived many comments on the Resource Assessment of the John Day River. Some of the comments require additional fish expertise that you have. Would you help me answer the following questions:

- Why are chinock absent from the South Fork Sasin?
- What is the hatchery supplementation policy for the John Cay River? What current supplementation actions are soing on?
- 3. What are the interactions between hatchery fish and wild stock in the John Day River, in terms of competition, productivity and disease?
- Please assess the impact of the present sport catch of fish on redband, steelhead and chinock.
- What riperian restoration efforts are being made on State owned land in the John Day Basin?

Errol, thanks again for your help. Would you be able to respond by February 15, 1992? Let me know.

Sincerely,

avid X. Young District Fishery Stalagist

۰.

January 10, 1992

MEMORANDUM

To: SuZan Meiners, Rec. Planner

From: Lyle Andrews, Range Con.

Subject: Comments on John Day River Resource Assessment and Wilderness Society Letter (see attachments)

Attached are my only comments on the JOR Resource Assessment. Because of the scope of assessment 1 did not see a big need to expand on references to livestock grazing and management or lack there of. It probably suffice to say that certain resource values can be enhanced by improved range management.

Concerning the Wilderness Society's letter dated 11/25/91, which contains comments on the draft JDR Resource Assessment, I would simply say that it is not the intent of a resource assessment to analyze why and how certain resources may have gotten in a degraded condition, but only that they are and that they may be improved. Also, the river management plan will detail exactly how these degraded resources will be improved.

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PRELIMINARY FINDING MELTER STORES SALES AND THE STORE AND DESCRIPTION The state of the second state and the second state of 1244-1229-121 As found by Congress, the scenic resource of the John Day River is determined to be an outstandingly remarkable value. The rural and wild settings and unique features along the river attract visitors on a regional and occasionally national and international basis. The opportunity exists to enhance the scenic values along some segments of the river by adopting range management techniques designed to ereters the riparian zone and river banks and to reduce moxious weed competition with bunchyrasses and other activevegetation. RECREATIONAL VALUES Criteria for Cutstandingly Remarkable Rating Recreational opportunities are, or have the potential to be, unique enough to attract visitors from outside of the geographic region. Visitors would be we encomentional willing to th to. purposes. Ri g, and stantseeing, weatout boating. Interpretive ootential te onal e e The river ma or regional DISCUSSION (iver. Considerabii -Hunting, fl: {recreation; photography s time. visitors as there is little or no recreational related development along the time. except for two pit toilets at Clarno and Cottonwood highway bridges. The geological formations of the basin offer opportunities for scenic viewing and fossil hunting. The John Day Fossil Beds National Monument, and other areas in the vicinity, contain outstanding fossils of international significance. These fossils are protected under the Antiquities Act therefore collection is not permitted. Hunting seasons run from September through mid-January for waterfowl/upland birgs and from October through November for the various deer seasons, accounting for an approximate total of 18,000 visitor use days. Superior bass and steelhead fishing attract anglers to total approximately 10,000 visitor

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use days annually.

Immediately adjacent to the river, the riparian zone offers lusb, grees vegetation important to wildlife and natural hydrologic processes. Although past use has not been kind to this important vegetation. Improved grazing management promises a slow, but steady recovery. In contrast to the ccol. inviting riparian areas, the adjacent canyon slopes offer little hope of relief to the traveler. These dry, steep, rocky hillsides, protected from unreculated grazing and agriculture by their topography and inaccessibility, contain the remnants of a onco-great grassland. Dominated by vast acreage of bluebunch wheatgrass (Agropyron spicatum), these slopes appear much as they did hundreds of years ago.

Volcanic clays of varying hues and textures bear testimony to the fiery birth of much of the landscape along the river. Here, in these clay soils, are several species of plants andemic (of limited range, only found here) to this part of Oragon. Early spring moisture often causes these otherwise barren clay slopes to be ablaze in a carpet of yellow wildflowers. An assortment of unique plants on the rocky ridges tempt one to hike to the top. All in all, 16 plants of some degree of importance a "special status species" are known or suspected in the river corridor, including three candidates for listing as endangered or threatened.

The designated area contains vegetation representative of a potential natural community (PNC) bluebunch wheatgrass ecosystem. (PNC is the relatively stable. final stage in the succession of vegetation types, generally equated with pristine). There are opportunities to study mative range sites which could be useful for vegetative comparison and could be maintained as pristine plant reserves. This could be beneficial for future genetic experiments.

PRELIMINARY FINDING

The John Day Mild and Scenic River corridor contains a relatively pristing bluebunch wheatgrass plant community coupled with the presence or potential presence of 16 special status plant species. In addition, the unique contrast between riparian and high-desert upland vegetation provides important wildlife habitat and aesthetic values to the area. There is opportunity to improve the qualities of the John Day River's vegetative community through range management. Scientific study and interpretive opportunities also exist in the area. Therefore, these botanical and ecological values are found to be of significant value.

PRE-HISTORIC, CULTURAL VALUES

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Some of the John Day River corridor has been surveyed for cultural resources. e fuil Nearly the rest my'rity of the site slopes are in high soral on P.KC. Fange OI , a few pictogra 1c buried : excavat ____ er the last several National archaeo. zing the Registe: of these value o sites ti

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South Fork of the John Day

Wild and Scenic River Resource Assessment





June 1993

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Appendices

TABLE OF CONTENIS

		PAGE
I.	Introduction	2
ĬI.	Resource Assessment Process Cverview	Э
III.	River Description	7
I¥.	Description and Evaluation of Resource Values	9
	Scenic	9
	Recreation	10
	Fish	11
	Wildlife	13
	Geologic/Paleontologic	15
	Botanical/Ecological	17
	Pre-historic/Traditional Use	19
	Historic/Cultural	20
	Other Similar Values	20

Appendix A - Information Sources and References Cited

Appendix 8 - Public Involvement Plan For Resource Assessment

- Appendix C South Fork of the John Day River Map
- Appendix D Resource Assessment Process (In Depth)
- Appondix E Comments to Draft Resource Assessment

I. INTRODUCTION

In 1958, Congress enacted the National Wild and Scenic Rivers Act and, for the first time, established a system for preserving outstanding free-flowing rivers. The South Fork of the John Day River was added to this system in 1988 when it was designated as a Federal Wild and Scenic River by the Omnibus Oregon Wild and Scenic Rivers Act of 1988. As defined by the Act, a National Wild and Scenic River must be free-flowing and have at least one outstandingly remarkable value. The "Outstandingly Remarkable Values" of the South Fork of the John Day River identified by Congress in the Congressional Record include: acenery and recreational opportunities. Fisheries, wildlife, paleontological, and cultural values were other significant attributes identified in the legislature though not classified as "Outstandingly Remarkable Values".

The river section from the Izee-Paulina Road crossing to the north boundary of Murderer's Creek Wildlife Area was included in the Oregon Scenic Waterways Act established by the additional water initiative in 1988. The Oregon State Scenic Waterways System includes free-flowing waterways considered to possess one or more "outstanding scenic, fish, wildlife, geological, botanic, historic, archaeologic, and cutdoor recreation values of present and future benefit to the public" (ORS 390.805). For each scenic waterway, Oregon State Parks and Recreation considered "special attributes" and are, therefore, subject to rules and recommendations for protection or enhancement of these attributes. To date, special attributes of the South Fork of the John Day River have not been identified.

Under the Wild and Scenic Rivers Act, the BLM is required to prepare a comprehensive rive plan to provide for the protection of the river values. This plan, of Which the resource assessment is the start, will use the Limits of Acceptable Change (LAC) planning process while at the same time comply with the National Environmental Policy Act (NEPA) planning regulations. The planning steps include identification of issues, concerns and opportunities associated with activities along the John Day River which will then be translated to management objectives and measurement criteria for meeting the objectives. From this, a range of management alternatives are developed, evaluated, and the preferred alternative chosen. The preferred alternative becomes the more detailed river management plan and includes provisions to monitor the effectiveness of management in meeting the objectives of the plan. Through each phase of the planning process, public involvement will be invited, and will be essential for the success of a sound management plan. (See Appendix B for the public involvement plan.)

.1. RESOURCE ASSESSMENT PROCESS OVERVIEW

To become a component of the National Wild and Scenic Rivers System, a river must be "free-flowing" in that it can not have any major impoundments or diversions along its course. The river must also possess one or more "outstandingly remarkable scenic, recreational, geologic, fish and wildlife, historic, cultural or other similar value". The purpose of this document is to determine and define what those "outstandingly remarkable" values are and how they relate to the river.

In designating the South Fork of the John Day River as Wild and Scanic, Congress mandated the oreparation of a management plan for the river. The importance of a thorough resource assessment (RA) cannot be overstated. The RA serves as the foundation of the river management planning process. It determines which river-related features or attributes are truly outstandingly remarkable and which values contribute substantially to the river setting and the functioning of its ecosystem. This assessment will guide interim management, provide the basis for developing a joint federal and state river management plan and assist in the determination of Federal Wild and Scenic River boundaries.

The RA process is used to determine the degree of significance of river-related values. The decisions are based on available data and informed professional judgement. The RA process was developed by government agencies with input from knowledgeable organizations and individuals. The process provides a degree of stendardization and consistency on Wild and Scenic River planning throughout the northwest. It is an objective process accomplished through the use of an interdisciplinary team knowledgeable of the National Wild and Scenic Rivers program, the particular resource values to be considered and the liver or area to be studied. Information from other experts is obtained through consultation, document review and/or direct involvement as needed. An analysis is conducted to compare resource values with other rivers within a particular physiographic or demographic region. As a basis for comparison, geographic regions defined in Oregon's Statewide Comparentsive Outdoor Recreation Plan (SCORP) are partially used (see map on page 5).

The South Fork of the John Day Wild and Scenic River is located in SCCRP Region #12, incorporating Morrow, Umatilla, Union, Wallowa, Grant, and Baker Counties. The region is flanked by the Snake River on the east with the Columbia River and Oregon-Wasnington border forming its morthern boundary. This region also contains designated portions of the North Fork of the John Day, North Powder, Powder, Malheur, Minam, Lostine, Eagle Creek, Grande Ronde, Wenaha, Snake, Imnana, and Joseph Creek Wild and Scenic Rivers. (For additional discussion of the resource assessment process, see Appendix D). Essentially, the resource assessment process should answer the questions "What is special about the South Fork of the John Day Wild and Scenic River and what additional information is cmeded to develop a management plan for the river and properly manage and protect those values?"

The following steps or verification techniques were used to evaluate the contribution of various resource values to the South Fork of the John Day River;

- The use of an interdisciplinary team approach;
- Consideration of uniqueness and marity at a regional and mational level;
- Consideration of values identified in previous studies and reports (see Appendix A);
- Values must be river related in that they owe their existence or contribute to the functioning of the river system and its immediate environs;
- The use of standardized criteria against which river values were measured to determine outstandingly remarkable value;
- Verification by other experts in the subject area;
- Public verification of preliminary findings of outstandingly remarkable value.

This resource assessment will evaluate the following South Fork of the John Day River resources:

+ Scenic

.

- + Recreational
 - Fish and Wildlife
 - + Historic/Cultural
 - Botanic/Ecological
 - Geologic/Paleentologic
 - + Pre-historic/Traditional Use
 - And other similar values

Value Comparison Chart

Value	<u>Congressional</u>	<u>This Assessment</u>
5cenic	o	¢
Recreational	0	a
Fishery	-	٥
Wildlife	5	o
Geologic	-	z
Paleontologic	-	o
Botanical	-	0
Prehistoric/Traditional Use		(5?)
'4istoric/Cultural	-	(57)

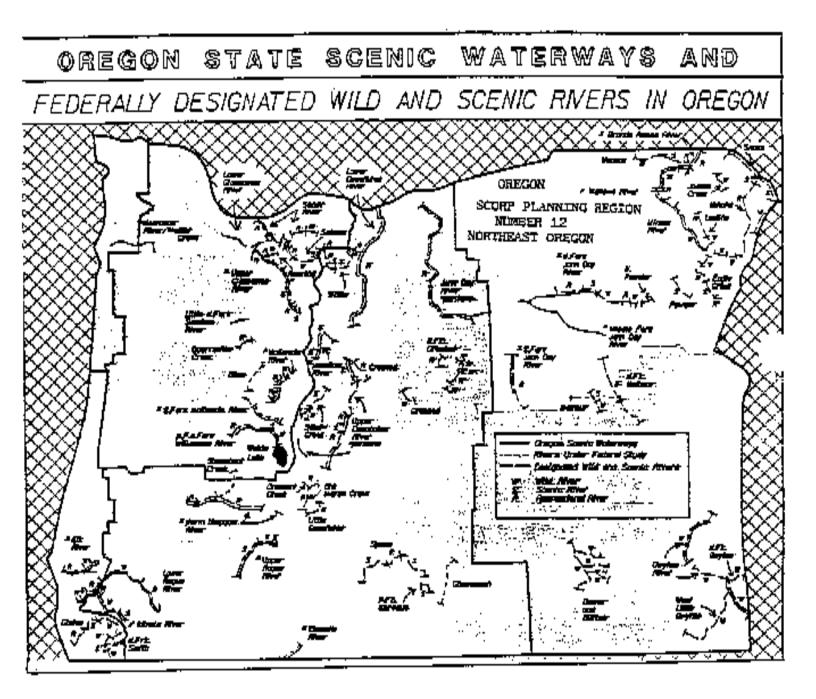
O = Outstandingly Remarkable

5 = Significant

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? = Need More Information To Determine

1989 State Comprehensive Outdoor Recreation Plan Region Map



III. RIVER DESCRIPTION

The South Fork of the John Day River is situated primarily in a semi-arid area in northeastern Oregon. Flowing northward from the Ochoco and Aldrich Mountains, the entire South Fork drains an area of approximately 607 square miles and enters the mainstem John Day at Dayville, the only incorporated city in the subbasin. Subbasin elevation ranges between about 2,300 feet to 7,400 feet above sea level. Most of the subbasin is located in Grant County.

The Act designated the 47 mile segment from the Malheur National Forest boundary to Smokey Creek as a recreational river. The entire Wild and Scenic portion of the South Fork is administered by the Bureau of Land Management through interagency cooperation with other federal, state, and local government agencies. Boundaries and acreages identified in this report are subject to revision based on further analysis of existing and new information in the preparation of specific river management plans.

Land Ownership Within the South Fork of the John Day Wild and Scenic River Preliminary. Boundaries:

	Approximate Miles of River Frontage	Approximate Acreage
BLM	30	8,720
State	8	1,310
Private	56	4,810
Ochoco NF	1	160
Total	47 x 2 = 94	15,000

The 29 mile segment between the Post-Paulina Road crossing to the north boundary of Murderer's Creek Wildlife Area was designated a scenic waterway by the State of Oregon in 1989. State Scenic Waterway boundaries are located one quarter mile from the mean high water line on both sides of the river. The entire length of the State Scenic Waterway lies within the federal Wild and Scenic River stretch, though in some cases the State's quarter mile boundary on both sides of the river may exceed the proposed federal boundary.

Portions of Aldrich Mountain Wilderness Study Area (WSA) are included within the process Wild and Scenic River boundaries for a total of approximately 2.5 miles. This WSA additionally borders approximately 1 mile of the oreliminary Wild and Scenic boundary. The Wild and Scenic preliminary boundaries also overlap approximately 150 acres for a total of approximately one and a half river miles of the Black Canyon Wilderness managed by the USFS. A 50 mile National Back Country Byway follows the South Fork from Dayville to the borger of the Malheur National Forest. Within the South Fork of the John Cay area there are approximately 20 acres of commercial forestland classified as Fragile Restricted and approximately 100 acres classified as withdrawn. A proposed addition to the State Recreation Trails System would pass through the designated portion on an east-west route near the Munderer's Creek drainage. Munderer's Creek Wild Horse Hand Management Area, administered jointly by the United States Porest Service (USFS) and the BLM, is adjacent to a portion of the river and consists of 143,000 acres. In addition, the 26,000-acre Munderer's Creek Wildlife Management Area heighbors a portion of the river and to a cooperative federal, state and private effort managed by the Oregon Department of Fish and Wildlife.

The South Fork near Dayville was gaged intermittently for 10 years between 1910 and 1930. A gauge was reinstalled just above Dayville in October of 1987 and is currently in service. Average annual discharge at the mouth is an estimated 100,000 acre-feet. Subbasin discharge is greatest during the winter months, the peak flow generally occurring in late April. Flows bottom out in September, the low flow period occurring from July through October when demends for irrigation use. fisheries maintenance, and water quality are greatest.

The major landcover type is rangeland with some coniferous forest edging along the river. The few agricultural areas near the designated river occur around Dayville and izes. There is presently nonrecreational development on the designated portion of the river. A mostly gravel or dirt road follows the river's entire length; ranging from 50 feet to a quarter mile from the river's edge.

On an annual basis, the subbasin exhibits satisfactory chemical, physical, and biological quality. Problems such as sediment loading during high flow and high water temperatures during low flow periods are due to timber removal, road constructing practices, dredge a fill activities, and natural conditions (COWR 1986).

IV. DESCRIPTION AND EVALUATION OF RESOURCE VALUES.

SCENIC VALUES

Criteria for Cutstandingly Remarkable Hating

The landscape elements of landform, vegetation, water, color, and related factors result in notable or exemplary visual features and/or attractions within the geographic region. When analyzing scenic values, additional factors such as seasonal variations in vegetation, scale of cultural modifications, and the length of time negative intrusions are viewed may be considered. Scenery and visual attractions may be highly diverse over the majority of the river in the geographic region.

DISCUSSION OF SCENIC VALUES

The South Fork of the John Day River contains striking and unique scenic values with a wide variety of vegetation, color, and interesting landforms. Scattered ponderosa pine and an occasional Douglas or white fir intermix with juniper, sagebrush, and native bunchgrasses creating a distinct vegetative pattern on the steep canyon slopes. Lined with a flourishing assortment of streamside vegetation, the river's edge makes a picturesque centerpiece to the rugged canyon scene. In the upper reaches of the river, relatively level agricultural land forms a more pastoral setting.

The canyon is geologically scenic as well. Exposures of columnar jointing and feeder dikes are very impressive at places along the river, particularly between Smokey and Diver Creeks and in the gorge near Black Canyon Creek.

The river itsalf is petite yet turbulent with numerous small rapids interrupted by occasional deep holes and a 55 vertical foot drop at Izee Falls. A number of deep drainages and tributaries, also lush with ripartan vegetation, intersect the river as it flows downstream. Large basalt outcrops protrude from the revine walls.

A gravel, county road foilows the first ten miles of the river south from Dayville. From this point 12 miles south to Izee Falls, the road is seasonally maintained by the BLM and can often be rough, or even impassible during the winter. The remainder of the designated portion of the river is followed by a county road, 12 miles of which are paved.

The river corridor is mostly natural in character despite the road. Other cultural modifications to the landscape are mostly a product of ranching and recreation and include such things as 6 small ranch houses, barns, fences, spring developments, livestock, irrigation pumps, temporary fire-rings of a primitive nature, and a historic mill. These sights are in keeping with the river's recreational classification and are insignificant enough not to seriously affect the scenic values of the designated section.

PRELIMINARY FINDING

As asserted by Congress, the South Fork of the John Day River has unique and outstancing scanic value and this value is therefore determined to be outstandingly remarkable. The exceptional visual features of basalt outcrops, steep canyon walls, a waterfall, and colorfully diverse ripartan, grassland and wooded vagetation compine to create an attractive, natural setting unique among rivers in the geographic region.

RECREATIONAL VALUES

Criteria for Outstandingly Remarkable Rating

Recreational opportunities are, or have the potential to be unique enough to attract visitors from outside the geographic region. Visitors would be willing to travel long distances to use the river resources for recreational purposes. River-related opportunities could include, but not be limited to, sightsgeing, wildlife observation, photography, hiking, fishing, hunting, and boating.

Interpretive opportunities may be exceptional and attract or have the potential to attract visitors from outside the geographic region.

The river may provide or have the potential to provide settings for mational or regional usage or competitive events.

DISCUSSION OF RECREATIONAL VALUES

The South Fork of the John Day River offers the visitor excellent opportunities for sightseeing, camping, fishing, swimming, picnicking, and hunting. Other forms of dispersed recreation such as photography and wildlife watching can also be enjoyed by visitors. At this time, there are no recreational developments along the river. The river's rustic character provides the visitor with a feeling of isolation and remoteness despite its roaded accessibility. This area is heavily used during hunting and fishing seasons partially due to this rustic and accessible nature.

The rugged geologic formations of the canyon offer excellent sightseeing opportunities. The John Day Fossil Beds National Monument, and other areas in the vicinity, contain outstanding fossils of international significance. Collection of these fossils on public lands is not permitted, having protection under the Antiquities Act, but visitors can still enjoy the experience of hunting for and viewing these glimpses of the past.

There are estimated to be approximately 3,000 visitor days¹ annually of use

^{&#}x27;One visitor use day equals one person visiting the river for \geq 12-mount period.

uring trout seeson and an additional 1,500 visitor cays of use during the fail hunting season. Fishing ceaks in June with another substantial surge during early fall. Approximately 500 visitor use days annually have been recorded during the hot summer months when general camping occurs with the associated activities of hiking, sightseeing and swimming. There is no documented recreational boating use on the South Fork. Wild and Scenic designation along with the establishment of the National Back Country Byway will likely increase levels of visitor use by an additional 2-5% above the existing trend of a 2-5% increase per year.

Surveys conducted by the BLM of the entire John Day River Basin during the heavy river use months (Aoril to June) from 1988 to 1988 found that 73% of the visitors came from Oregon, 35% of that figure being from the Central and Eastern portions of the state while 63% hailed from west of the Cascades. The other 2% were from Southwestern Oregon.

Of those who were not from Oregon, most were found to be from neighboring states, Washington being the most frequently mentioned. An OCF&W survey of anglers during November through March of 1987/88 revealed a much higher percentage of visitors from the John Day River Basin and mearby region with only 3% of the anglers being from out of state. International visitors protably make up at least part of both out of state figures.

PRELIMINARY FINDING

The South Fork of the John Day River has high value for a myriad of dispersed recreational opportunities as alluded to by Congress and therefore recreational values on this river can be considered outstandingly remarkable. Excellent opportunities for recreation on the buth Fork include hunting, fishing, camping, sightseeing, wildlife observation, photography, and hiking. The combination of accessibility and rustic character provide a precreational setting that is becoming more and more uncommon in today's world and hence has potential to attract visitors from outside the geographic region.

The John Day Fossil Beds National Monument provides interpretive services in the region but there are many other rich interpretive opportunities yet to be tapped that have obtential to attract visitors from outside the geographic region as well. This interpretive potential is especially evident in the fact that a Wildlife Management Area, Wild Horse Hard Management Area, Wilderness Study Area, wilderness, National Backcountry Byway, and proposed State Recreation Trail System are either within or neighbor the Wild and Scenic corridor (see River Description section of this report).

FISHERY VALUES

<u>Criteria for Outstandingly Remarkable Pathne</u>

fish values may be judged on the relative ments of either fish populations or habitat, or a combination of these river-related conditions. Populations The river is nationally or regionally an important producer of resident and/or Anadromous fish species. Of particular significance is the presence of wild stocks and/or threatened and endangered species.

Nabitat The river provides exceptionally high quality habitat for fish species indigenous to the region. Of particular significance is habitat for wild stocks and/or federally listed or candidate threatened and endangered species.

DISCUSSION OF FISHERY VALUES

The John Day River Basin contains one of the few remaining totally wild anadromous fish runs without hatchery supplementation in the Pacific Northwest with current ranges of 15,000 - 35,000 steelhead and 2,000 - 5,000 Chincok salmon returning to the Basin each year to spawn (1990 figures). The summer steelhead and spring Chincok returning to the John Day and tributaries make up the largest entirely wild run in the mid-and-upper Columbia River Basin, Making the river system of regional significance. Historically, Chincok are not found in the South Fork of the John Day River due to warm water temperatures, lack of pool habitet, and low stream flows. Old, sketchy, unconfirmed reports suggest that some chincok may have been in the South Fork but there have been no substantiated reports. (ODFW 1992).

The South Fork Subbasin currently produces approximately 4% - 7% of the total John Day steelhead populations as well as a substantial resident trout fishery (1988 figures). Annually, between March and June, as many as 1,000 - 2,000 adult steelhead spawners migrate into the South Fork drainage, where approximately 85 miles of spawning and rearbabitat exist. Steelhead epawning 18 presently restricted to habitat below Izee Falls, approximately rivermile 29 on the South Fork River. A fish passage proposed by the Oregon Fish and Wildlife Commission ground this natural blockage would open up an additional 81 miles of spawning habitat.

Resident trout populations inhabit 40 miles of the river and generate 3,000 to 5,000 recreation days annually with a eport catch of over 10,000 fish according to the Oregon Water Resources Department. Studies by ODFW (1992) indicate that over 90% of this catch was hatchery rainbow trout. ODFW stocks rainbow trout in the lower reaches of mainstream rivers including the South Fork (1992). The department has downsized and altered it's trout stocking program to reduce competition, harvest, and disease impacts on wild fish. Today it's goal is to buffer the key wild stock production areas by using a few hatchery fish to distribute anglers away from key wild production tributaries (ODFW 1992). This practice is augmented by planting fall spawning stock to reduce hybridization. Wild rainbows are supplemented each year with the stocking of fingerling rainbows. The native rainbow, known as redbands, were recently put on the statewide sensitive species list for Oregon. Other game species include mountain white fish. Non game species include sucker, dace, chiselmouth chub, and northern squawfish.

The fact that the John Day river system as a whole is the longest free flowing river in the Columbia River Basin significantly influences the success of the wild fish runs. In a recent Nation-wide Rivers Inventory report, the John Day was found to be one of only 42 high quality rivers left that is greater than 200 kilometers in length without any major dame.

During the summer of 1992, BLM will conduct habitat inventory, write quality and quantiand water temperature studies. Results are pending analysis.

He cumulative impact of all irrigation withdrawals is a loss of juvenile fish and their nabitat during the summer. An unknown number of fish are affected. Past logging activities and read construction have increased the amount of sediment which has reduced fish habitat.

Based on the available archaeological and ethno-historic information, a variety of fishery resources were exploited within the John Day River Basin most recently by groups belonging to the Confederated Tribes of the Warm Springs and Umatilla. Treaties signed by both groups in the 1850's with the U.S. government provide for fishing rights "in the streams running through and bordering seid reservation(s)... and at all other usual and accustomed stations in common with citizens of the United States..." Data on the current use of the river by these Native American groups is non-existent, but formal queries may reveal that fishing activities are occurring.

PRELIMINARY FINDING

The regional and national significance of the entire John Oay Basin's fisheries dualify this resource as an outstandingly remarkable value. The quality, quantity, aesthetic, and traditional importance of the fish habitat and its resulting resident and anadromous fish populations of the South Fork serve to enrich the value of this resource.

Since the early 1970s, intensive efforts have been made to restore the riparian system along the South Fork of the John Day. This recovery effort led to significant improvements in water quality and increased benefits to the fishery.

estoration has been accomplished by following a grazing management program that allows investock grazing to occur during the spring. As a result, there has been vast improvement in the riparian habitat.

WILDLIFE VALUES

Criteria for Cutstandingly Remarkable

Wildlife values may be judged on the relative merits of either wildlife populations or habitat - or a combination of these conditions.

Populations The river or area within the river corridor contains nationally or regionally important populations of indigenous wildlife species. Of particular significance are species considered to be unique or populations of federally listed or candidate threatened and endangered species. Diversity of species is an important consideration and could, in itself, lead to a determination of outstandingly remarkable.

Habitat The river or area within the river corridor provides exceptionally high quality habitat for wildlife of national or regional significance, or may provide unique habitat or a critical link in habitat conditions for federally listed or candidate threatened and endangered species. Contiguous habitat conditions are such that the biological needs of the species are met. Diversity of habitat is an important consideration and could, in itself, lead to a determination of outstandingly remarkable.

DISCUSSION OF WILDLIFE VALUES

The collective John Day River Basin contains an outstandingly remarkable diversity of wildlife species, possibly more diverse than any other river system in the state of Oregon. The South Fork of the John Day exemplifies this duality with the diversity of habitat types it contains. Vegetation types in the river include big sagebrush, western juniper, ponderosa pine, and grand fir. A combination of grassy meadows and hillsides, streamside shrubs and vegetation, and old growth coniferous stands provide the potential for a wide variety of wild species within the river corridor. Habitat diversity is directly proportional to animal diversity, providing an abundance of edge and leading to habitat stability. The riparian zone is also of prime importance in this scheme. The riparian vegetation provides important sources of cover and food for wildlife, to a much greater extent than the surrounding dry areas.

The South Fork is important to several threatened and sensitive species. Baid eagles, threatened status in Oregon, occur along the entire river segment in winter. Historically, paregrine falcons migrated through the area; however, none have been sighted recently. Peregrines may return but only when populations throughout the region increase. A remnant sagegrouse population, a Federal Category 2 Candidate species, occurs within the basin. Historic population levels are unknown. Stands of ponderosa pine within the Wild and Scenic Corridor provide nesting and feeding habitat for Lewis' woodpeckers. Lewis' woodpeckers are listed as sensitive on the Oregon Natural Heritage Program list(1991). Other species on the list which potentially occur in the area are: white-headed woodpecker, blackbacked woodpecker, pigmy nuthatch, Northern sawwhet owl, northern pygmy ow}, Flammulated ow], western bluebird, Northern goshawk, and spotted frog. Bank swallow are also on the list and definitely do accur within the river corridor.

California bighorn sheep, a category 2 Federal Candidate species, were first released in 1978 by the Oregon Department of Fish and Wildlife at Aldrich Mountain. The sheep are yearlong residents. Their numbers have increased from a population of 14 animals to 140 sheep.

The South Fork Basin is crucial mule deer winter range. The Murderer's Creek Wildlife Management Unit provides cover and forage for deer and elk when snow forces them to lower elevations. Crucial elk winter range and summer range for small elk herds is present. Aldrich Mountain is summer range for antelope, also. The antelope population is estimated to be 100. Valley quail are found in side drainages. The corridor also provides good chukar habit. Mountain quail and ruffed and blue grouse can also be found. It should also be noted that the Murderer's Creek Herd Management Area was established for 100 wild freeroaming horses.

Natural predators are also a key component to habitat stability. Mountain lion and bobcat occur in the South Fork corridor. Mink, beaver, raccoon, river otter, coyote, rattlesnake, and ground squirrels are common spacies. Golden eagles, redtail hawks, and prairie falcons nest in the canyon. Mourning doves occur from spring to fall. Mallards, cinnamon teal, and wood ducks also use the area.

Diversity of habitat is also dependent on ecological condition. The majority of the rigarian zone on the South Fork is overall, in mid-seral condition. In 1960, 79 percent of rigarian habitat was found to be in poor to fair condition. In the Murderer's Creek Allotment, the uplands in the two rigarian pastures are both in a downward trend, but rigarian habitat is upward in trend. Rigarian and upland habitats on the Big Baldy Allotment show an upward trend. The allotments employ a spring grazing and rest rotation system, respectively. In the past, the Rockpile Allotment grazing system was not followed;

is lead to heavy overgrazing on the riparian. In the past three years, due to changes in livestock management, the condition here has improved to fair. Progress towards a later seral² state is being made. Coyote and peachtree willow and red-osier dogwood are important riparian species growing on the banks. An interdisciplinary team is presently involved in establishing permanent trend studies and monitoring as part of a multi-agency Coordinated Resource Plan. Wildlife populations are expected to increase in future years.

In portions of the South Fork, particularly above County Road 67, historic floodplains have been converted to agricultural lands. On the majority of these lands, vegetation has been converted to pasture grasses. This creates a seasonal forage base for a few wildlife species, particularly mule deer, but due to the reduction in habitat structure and diversity the majority of wildlife species naturally occurring in these areas are reduced in numbers or eliminated entirely. Due to recent public concerns on riparian management this situation is changing, and ongoing projects are providing for reestablishment of portions of the riparian habitats historically occurring along this river.

Available archaeological and ethno-historic information reveals that a wide variety of wildlife resources were exploited within the John Day River Basin most recently by groups belonging to the Confederated Tribes of the Warm Springs and Umatilla. Treaties signed by both groups in the 1850's with the U.S. government provide for "... the privilege of hunting...on unclaimed lands in common with citizens, is also secured to them". Hunting rights on ceded lands continue today and are regulated by the respective tribes similarly to those imposed on the Euro-American population. Whether or not bunting activities are occurring within the river corridor is not known.

RELIMINARY FINDING

The South Fork is a key wildlife area_dum to the diversity and condition of habitats found in the corridor. Diversity of vegetation habitats varies from grass/sagebrush hillsides providing forage for big game species and neating for many migratory and resident bird species to mature ponderosa and fir forests providing habitat for a wide variety of species. Timber in the corridor and adjacent to it are largely uncut, and this factor is important in maintenance of existing wildlife diversity as surrounding lands become increasingly managed. In additional to the riparian, sagebrush and timber vegetation types, mountain mahagony and bitterbrush types also occur within the area, providing a valuable mix of vegetative types.

The habitat diversity of the South Fork of the John Day, in addition to the variety of wildlife species and life forms it has the ability to support, make the river corridor an outstandingly remarkable area. This finding upgrades the "significant" finding noted in the Congressional Record. The presence of a threatened species, category 2 species, a large population of Lewis' woodpackers, and the potential for many sensitive species enhances the river's value even further. Big game species are important for the recreational experience they provide, but native non-game species are also very valuable as a resource and indicator of diversity.

²In reference to "ecological succession", which is defined by <u>Ecologyand</u> <u>Field Biology</u> (Smith 1966) as "an orderly and progressive replacement of one plant community by another until a relatively stable community occupies the area."

Habitat stability is a product of proper ecological management. Management should continue to improve upon seral conditions in riparian zones. Climax riparian, as well as old growth coniferous stands, are scarce un public land and thus qualify for management as outstandingly remarkable values. Overall condition of habitat within this corridor is good. Disturbance to wildlife habitat is due primarily to livestock grazing and the South Fork road. Historic livestock grazing substantially reduced the quality of the area, but changes within the last decade has allowed habitat to improve, with increased vegetation diversity and habitat structure now providing a fair habitat rating. The potential is high for further improvement. The impacts from the South Fork road, while substantial from the standpoint of lost habitat and disturbance, are not mitigatable unless the road is closed.

GEOLOGICAL/PALEONTOLOGICAL VALUES

Criteria for Outstandingly Regarkable Rating

The river of the area within the river corridor contains an example(s) of a geologic feature, process, or phenomena that is rare, unusual, one-of-a-kind, or unique to the geographic region. The feature(s) may be in an unusually active stage of development, represent a "textbook" example and/or represent a unique or rare combination of geologic features (erosional, volcanic, glacial, and or other geologic structures).

DISCUSSION OF GEOLOGIC/PALEONTOLOGICAL VALUES

The John Day Basin has a complicated geologic history which has resulted in a diverse assemblage of rocks. These rocks include masses of oceanic crust, marine sediments, a Wix variety of volcanic and volcanic derived rocks, ancient river and lake sediments, and recent river and landslide deposits. On the South Fork of the John Day, the designated river segment is comprised mostly of basalt and complex pre-Tertiary rock. Significant emounts of ground water probably are stored in this basalt.

The northern portion of the river cuts through the east end of the Ochoco Mountains and the continental flood-basalt of the Columbia River Basalt Group. The southern portion of the segment cuts through Jurassic and Triassic age marine sedimentary rocks and some volcanic rocks. Some of these rocks are slightly metamorphosed but most are unaltered. Overall, the area is structurally complex with numerous faults and small folds, with the regional trend being northeast-southwest.

In terms of scenery, the exposures of columnar jointing and feeder dikes are very impressive at places along the river, particularly between Smokey and Oliver Creeks and in the gorge mean Black Canyon Creek. Picture Gorge basalts dominate the extent of this northerly end of the mapped region, and the few paleontological items of interest consist of interbasalt root and trunk casts.

There is excellent potential for paleontological resources in the Mascall Formation within the northerly portion of the designated corridor. This formation contains widespread and abundant vertebrate fossils and minor plant fossils. Paleontological values are very significant, especially north of Deer Creek. Marine invertebrates, fossiliferous outcrops, and fissure dikes can be found in the area.

The exposures of considerable paleontological interest begin along the southern end of t area. South of Izer the South Fork has out through a Jurassic (150 - 190 mya) sequence of marine volcaniclastics. This sequence of the Suplee, Nicely, Hyde, Snowshoe, Trowbridge, and Lonesome Formations contains ammonites, bivalves, and rhyconellid brachiopods. Some of the ammonites are quite significant but have been "hit" by amateur collectors.

posits of chromium, mercury, asbestos, and gold occur in the subbasin but there are no currently active mines or mining claims and few mines have been active in the past.

PRELIMINARY FINDING

The paleontologic features and opportunities for scientific research, interpretation, and aesthetics available on the South Fork of the John Day River are determined to be of outstandingly remarkable value. The potential for excellent paleontological resources within the northerly portion of the preliminary wild and scenic boundary and the known exposures on the southern end are of major importance to this finding as is the international significance of these local resources. The geologic features, while scenic, are not determined to be unique to the geographic region and are therefore considered significant.

BOTANICAL/ECOLOGICAL VALUES

Criteria for Outstandingly Remarkable Rating

The river or area mean the river must contain nationally or regionally important populations of indigenous plant species. Of particular importance are species considered to be unique or populations of federally listed or Candidate Threatened and Endangered Species. When analyzing vegetation, additional factors such as diversity of species, number of plant computities and cultural importance of plants may be considered.

DISCUSSION OF BOTANICAL/ECOLOGICAL VALUES

agetation in the John Day River Canyon is a diversity of plant communities resulting from past human uses and environmental factors. Vegetation in the river corridor has been affected by fire control, read construction, unmanaged livestock grazing and other management practices.

Landcover along the South Fork of the John Day River is predominately contierous forest and rangeland with agricultural areas generally located adjacent to streams. According to the Bailey-Kuchler system of classifying ecosystems, the South Fork area is in the Rocky Mountain Forest Province and its potential natural vegetation is western pondeross forest and sagebrush steppe.

Juniper/bunchgrass communities are found on the benches below the rims and on steep slopes. Big sagebrush/bunchgrass communities are found on the rims and steep, rocky slopes below the forested situs. On the southerly aspects there are ponderosa pine-mountain mahogany/elk sedge-Idaho fescue communities. Forested sites, supporting Ocugies fir/elk sadge communities, occur on the steep north-facing slopes. Western juniper trees occur throughout these communities. Vegetation is generally in mid- to late samel status.

Much of the area consists of a historically fire-dependent ecosystem. Frequent wildfires maintained the non-forest vegetation as predominately bunchgrass-dominated communities through removal of juniter and sagebrush. Through grazing practices which removed the grasses and forbs necessary to carry wildfire, and to a greater extent through moment cay fire suppression, wildfire is no longer a common ecourtence in the area.

The riparian areas along the river host a diversity of willows, shrubs and hardwood trees. In the lower elevations, the reparian forest tends to be composed of cottonwoods, nawthorne, and alder while the higher elevations tend to support a riparian forest of birch, alder, and dogwood. Ecological status of the riparian vegotation along the South Fork is generally mid-seral, although some sections of the river are in early seral condition. According to an inventory by The Nature Conservancy, the Shake Table Mountain and Jackass Creek areas possess unique vegetation communities and protected plant species. Two Federal Candidate Category 2 species are known to occur within the preliminary designated boundary of the river. They are:

<u>Mimulus washingtonensis</u> (Washington monkeyflower) <u>Astragalus diabhanus</u> var. <u>djurnus</u> (John Day milk vetch)

The South Fork of the John Day River is the only known area worldwide where the <u>Astragalus</u> <u>djaphanus</u> occurs. As an annual/blennial, this plant is somewhat resiliant to disturbance. This, plus its preferred habitat of barren soils makes this species unaffected by most)and management practices. <u>The)ypodium eucosmum</u> (arrow leaf the)ypody). another Federal Candidate Category 2 species. Is highly suspected of occurring in the area but has yet to be documented.

Within the South Fork of the John Day River area there are approximately 100 acres of commercial forestland classified as withdrawn and approximately 20 acres classified as Fragile Restricted. These parcels range from 5-12 acres in size and are scattered along the river. If harvest ever occurs, it would most likely be for salvage only.

Past timber harvesting within this corridor has been salvage harvest only, on four separate occasions, since practically all of the commercial forestland within the corridor is classified as withdrawn from the timber base. Also, no future forest management activities are planned within the corridor. Therefore, past logging activities have had no adverse impact on the current wildlife and fish habitat values and future activities should have no adverse impacts on the future values of the corridor.

The available archaeological and ethno-historic information reveals that a wide variety of plants were exploited within the John Day River Basin most recently by groups belonging to the Confederated Tribes of the Warm Sorings and Umatilla. Treaties signed by both groups in the 1850's with the U.S. government provide for "the privilege of...gathering roots and berries... on unclaimed lands in common with citizens, is also secured to them". Recent information suggests that traditional gathering practices are still being pursued by tribal members, but no specific data exists on the use of plant resources within the river corridor.

PRELIMINARY FINDING

The South Fork of the John Day River corridor contains a number of relatively pristing plant communities and two significant special status plant species. The diversity of plant communities provides important wildlife habitat, interpretive opportunities, and aesthetic values to the area and is therefore considered to be an outstandingly remarkable value.

Due to human use of the resource, past early seral conditions limited wildlife habitat especially within riperian areas. This significantly reduced habitat availability thereby reducing wildlife populations as well. Multitudinous government agencies and private citizens have worked cooperatively to enhance vegetative conditions on several miles of the South Fork and its tributaries as part of a multi-sgency Coordinated Resource Plan. There is opportunity to continue to improve the qualities of the South Fork's vegetative communities through this type of cooperative effort.

REHISTORIC/TRADITIONAL USE VALUES

Criteria for Outstandingly Remarkaole Bating

The river or area within the river corridor contains a site(s) where there is evidence of occupation or use by Native Americans. Sites must be rare, one-of-a-kind, have unusual characteristics or exceptional human interest value(s). Sites may have national or regional importance for interpreting prehistory; may be rare and represent an area where a culture or cultural period was first identified and described; may have been used concurrently by two or more cultural groups; or may have been used by cultural groups for rare or sacred purposes. Of particular value will be pristine sites that have not been disturbed.

DISCUSSION OF PRE-HISTORIC/TRADITIONAL USE VALUES

Most known cultural sites are located on the main stem of the John Day River between Clarne and Cottonwood Bridge where an intensive cultural inventory has been conducted. Unfortunately, a limited amount of cultural resource surveys have been conducted along the South Fork of the John Cay River though the area most likely has excellent potential to provide information about past cultures and their use of riverain resources.

Two major surveys were conducted for timber sales south of Deer Creek in 1981 and 1983 but only 5 prehistoric sites and one prehistoric isolate were recorded. The recorded sites were mostly lithic scatters, some with shallow subsurface deposits. There is evidence to suggest that a prehistoric trail route exists in the designated area that once connected the Crooked River to the South Fork of the John Ony.

There are indications that at least one rock art site exists within the corridor. A prehistoric campaite and tool manufacturing site has been documented on the South Fork and potential for discovering more prehistoric resources along this fork's corridor range from low to high depending on the section.

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Available data is limited concerning use of the river corridor for traditional use or religious practices. According to the involved Native American groups, any area where native plants and animals occur are considered traditional use locations. This would indicate that a majority of the BLM lands within the corridor could be used for traditional use practices, including grazing, as provided in the treaties for each tribe. A concarted effort to conduct ethnological and ethnobotanical research should be pursued in order to illuminate our current understanding of the past use of the river canyon. Recent religious practices within the river corridor are unknown and will most likely remain so for obvious reasons. Again, ethnological work would probably be useful for providing a general knowledge about certain coremonies and practices without revealing particular significant locations, other than in general terms.

PRELIMINARY FINDING

Although few cultural resource sites have been recorded within the South Fork of the John Day River confider, there is excellent potential for discovering significant prehistoric sites associated with the river. Should more information be recorded, interpretive possibilities for the prehistoric cultural resources of the area seem promising. The river canyon is an important traditional use area to Indian tribes and is associated with treaty "ights on ceded lands, making the cultural resource values on this stretch of river notable. Appropriate tribes will be consulted with as part of the planning offert.

HISTORIC/CULTURAL VALUES

Criteria for Outstandingly Remarkable Rating

The river of area within the river corridor contains a site(s) or feature(s) associated with a significant event, an important person, or a cultural activity of the past that was rare, unusual, or one-of-a-kind in the region. A historic site(s) and/or feature(s) in most cases is 50 years or older. Of particular significance are sites or features listed in, or are eligible for inclusion in, the National Register of Historic Places.

DISCUSSION OF HISTORIC/CULTURAL VALUES

A limited amount of cultural resource survey has been conducted along the South Fork of the John Day River however there is moderate potential for discovering homesteads, irrigation features, and other historic sites associated with homesteading, logging, and mining.

According to Nielsen, Newman, and McCart (1985), an old wagon road used during the mining boom of the mid 1800's crosses the South Fork somewhere near the ridge south of Martin Creek and Magic Lantern Creek. Wagon ruts and some ancient juniper stumps used as drag logs are still visible in the area. The wagon road apparently returned to the South Fork near Aldrich Gulch and headed north along the river towards Dayville.

Some of the drainages and tributaries of the South Fork have intriguing names such as Murderor's Creek and Magic Lantern Creek, no doubt with interesting histories behind the Many of these names have numerous conflicting stories about their origin.

The crossroads community of Izee near the junction of the Post-Pauline Highway and the Dayville-Hines Road was once an incorporated town. A post office apparently existed at Izee between the years of 1889 - 1954. A grange hall and school still endure today to tell the story. In addition, the remains of Old Ellingson Mill between Deer and Indian Creek still exist, though located on private land. A few old quarry sites and one burned historic cabin are also present in places near the river.

PRELIMINARY FINDING

Although few cultural resource sites have been recorded within the South Fork of the John Day River corridor, there is excellent potential for discovering significant historic sites due to the existence of the river. Should more information be recorded, interpretive possibilities for the historic cultural resources of the area would likely be promising.

OTHER SIMILAR VALUES

Assessments of additional river-related values may be completed upon receiving the results of subject expert solicitations for information and significance.

APPENDIX A

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APPENDIX B

PUBLIC INVOLVEMENT PLAN FOR RESOURCE ASSESSMENT

 Complete internal draft of South Fork of the John Day River Resource Assessment. Orgoing review and editing using interdisciplinary approach.

> Internal Interdisciplinary Review Team: Don Smith, Assistant District Manager Dick Cosgriffe, Area Manager Brian Cunninghame, Public Affairs/Project Manager Wayne Elmore, Natural Resource Specialist SuZan Meiners, Recreation (review team leader) Dan Wood, Outdoor Recreation Planner Roy Pear?, Wilderness (NRS) Brad Keller, Wildlife Biologist Sarah Nichols, Student Trainee (Wildlife Biologist) David Young, Fishery Biologist James Eisner, Student Trainee (Fisheries) Dennis Davis, Geologist Ron Halvorson, Botanist (NRS) John Zancanella, Archaeologist

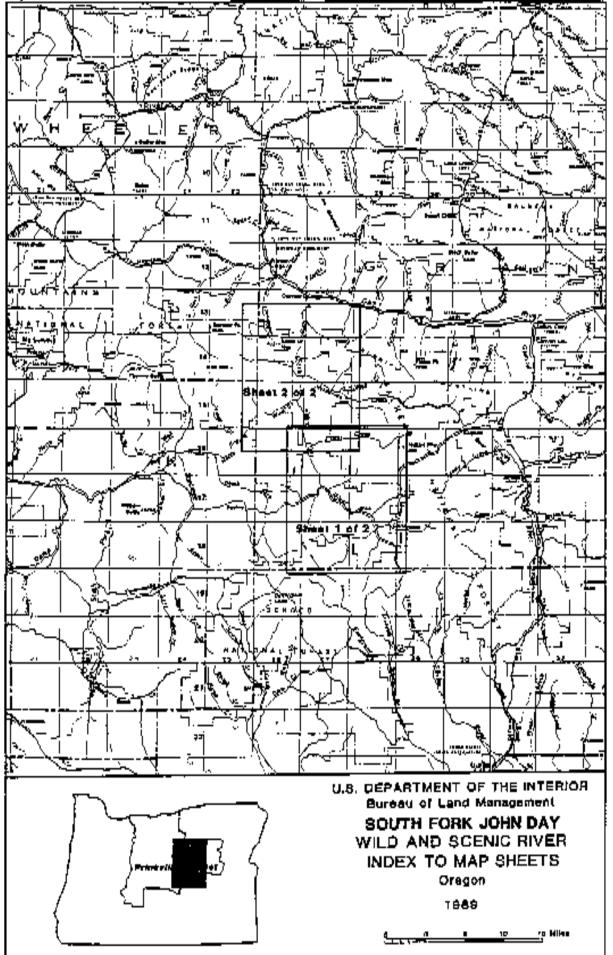
External Professional Review: Suzanne Crowley Thomas, USF5, Archaeology/bistory Errol Claire, ODFW, wildlife/fish Ted Fremd, NPS, paleontology Frank LeMay, ODFW, wildlife/fish

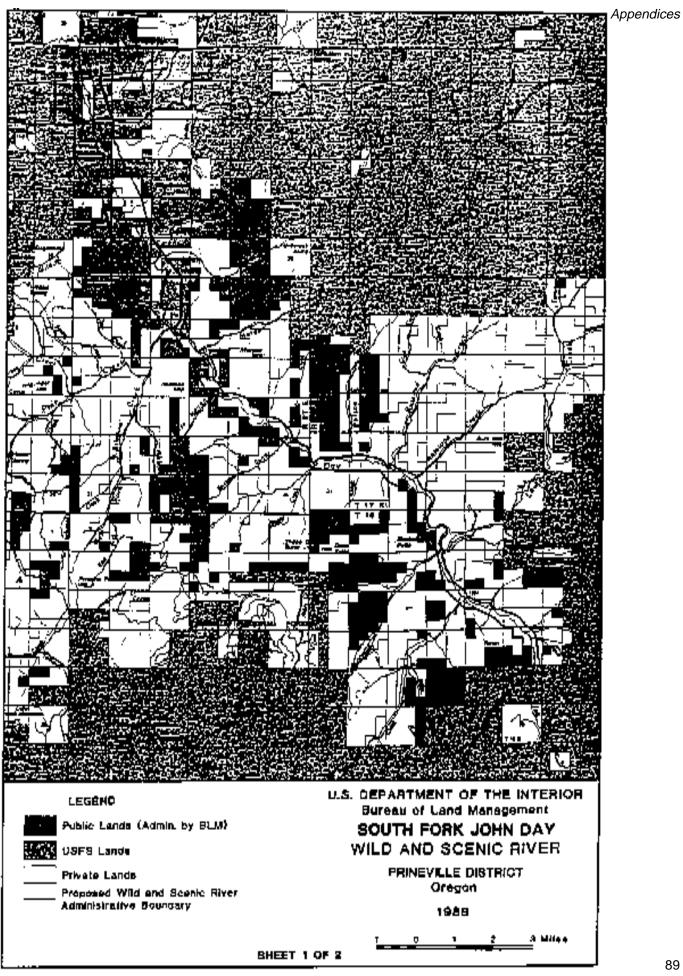
- 2. Complete revised internal draft and have Management Team Review.
- Mail Resource Assessment draft to interested public and professionals for comment.
- 4. Revise draft based on public comment and send to State Office.

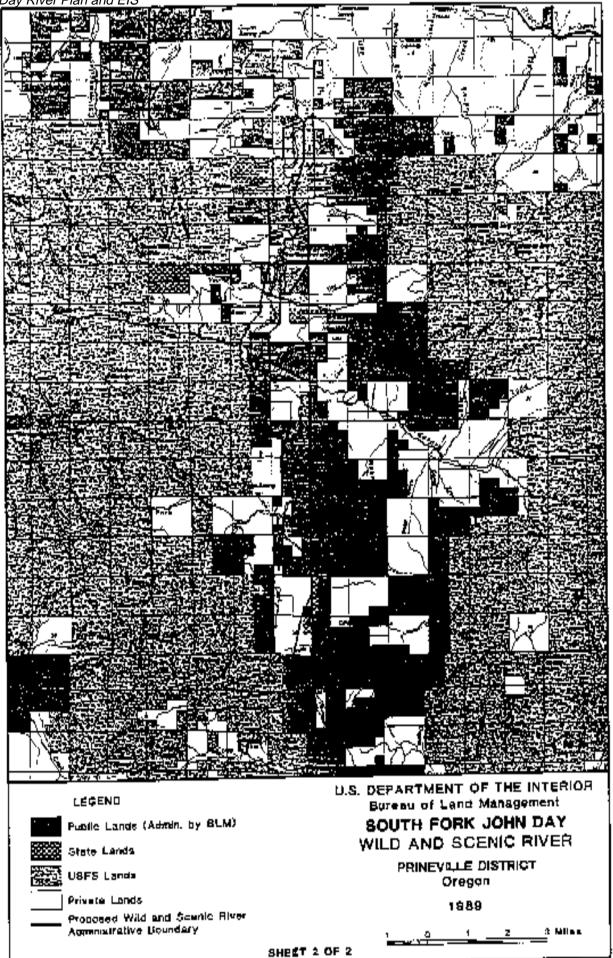
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APPENDIX C

HIVER MAPS







APPENDIX D

RESOURCE ASSESSMENT PROCESS (IN DEPTH)

I. PURPOSE AND NEED

The importance of a thorough resource assessment cannot be overstated. The resource assessment serves as the foundation of the river management planning process. It determines which river-related features are truly outstandingly remarkable or contribute substantially to the river setting and the functioning of its ecosystem. It is not intended to serve as an eligibility evaluation.

Usually the initial step in the river management planning process, the resource assessment must take into consideration all features which are directly river-related. This early identification and evaluation will help ensure that significant features are not overlooked and that a holistic approach to investigating the inter-relationship among various features is achieved.

The identification and documentation of outstandingly remarkable and other significant values is a first step in developing management prescriptions that protect and enhance river values. A thorough resource assessment provides the basis upon which management decisions affecting resources within the planning area can be made during the interim period pending plan completion and approval. Additionally, the findings and conclusions reached at the end of the assessment effort will be used in management plan scoping, including specific issue identification and establishment of final administrative boundaries.

ere are three components of the resource assessment process. Fist is the identification of any outstandingly remarkable values not specifically identified by Congress, but found, present nevertheless, within planning area boundaries. Second is the identification and determination of significance levels for river-related values which are not determined to be outstandingly remarkable, yet contribute substant(ally to a river's overall character. Third is the confirmation of the outstandingly remarkable values set forth for specific rivers in the Omnibus Oregon Wild and Scenic River Act (see the Congressional Record -Senate, vol. 134, dated October 7, 1988).

It is important to remember that the term "outstandingly remarkable" as used in the Wild and Scenic Rivers Act has never been precisely defined. Consequently, any determination of cutstandingly remarkable values is a matter of informed professional judgment and interpretation. The only firm expectation is that the basis for the judgment be adequately documented in the resource assessment.

II. VALUE ASSESSMENT

All values assessed should be directly river-related, or own their existence to the river ecosystem. The rationale for a direct river relationship is that the program involves the Wild and Scenic Rivers System rather than a generalized land and resource conservation program. It is therefore appropriate to focus attention on the river and resources directly related to it.

The resources to be assessed are specifically identified in the Wild and Scenic Rivers Act (PL 90-542) and include scenic, recreation, geologic, fish and wildlife, historic, cultural, and other similar values. Other similar values include, but are not limited to, hydrologic, botanic and ecological resources.

III. SIGNIFICANCE THRESHOLDS

In order to be assessed as "outstandingly remarkable", a river-related value must be a unique, rare or exemplary feature that is significant at a regional or national level. Those river-related values that are not assessed as outstandingly remarkable but contribute substantially to the functioning of the river system and river setting should be described and their level of significance indicated,

The geographic regions (8) described in the 1980 Statewide Comprehensive Outdoor Recreation Plan (SCOAP) for Oregon may be used for comparing certain river-related values among the rivers in a "region". Because of the location of rivers in specific SCCAP regions to contiguous state borders (Washington, Idaho, Nevada, and California), geographic regions can be modified as necessary to provide the basis for meaningful comparative analysis for non-recreation values such as fisheries or cultural resources.

Guidelines for assessing values are meant to set minimum thresholds to establish outstandingly remarkable values and are illustrative, not all-inclusive. In some cases, a value may meet some or all of the criteria, yet may not. for a well-documented reason, be determined to be an outstandingly remarkable value. In another situation, a value may be called outstandingly remarkable for a reason not listed in these guides. The important and critical step is to document the rational for the determination.

COMMENTS TO DRAFT RESOURCE ASSESSMENT

The BLM received many comments from the public after the draft Resource Assessments were published. Some comments specifically addressed the Resource Assessment while others pertained to river planning. Only those comments specifically addressing this Resource Assessment will be included here. Comments on river planning will be addressed in the John Day River Management Plan and Environmental Impact Statement.



United States Department of the Interior

NATIONAL FARK SERVICE John Day Fossil Buds National Monument 420 West Main John Day, Oregon 97845

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13 November 1990

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Suzan Meiners Bureau of Land Management P.O. Box 550 Prineville, Oregon 97754

Deer Suzen:

I regret not having more time to look over the South Fork Wild and Scenic River prelim toundary material you sent me for comment on paleontological values. The following notes might be helpful.

In terms of scenery, the exposures of columnar jointing and feeder dikes are very impressive at places along the river, particularly between Smoky and Oliver Creeks and in the gorge near Black Canyon Creek. Ficture Gorge basalts dominate the extent of this northerly end of the mapped region, and the few paleontological items of interest consist of interbasalt root and trunk casts.

The exposures of considerable paleontological interest begin along the southern end of the area. South of Izee the John Day River has cut through a Jurassic (150 - 190 mya) sequence of marine volcaniclastics. This sequence of the Suplee, Nicely, Hyde, Snowshoe, Trowbridge, and Lonesome Formations contains annohites, bivalves, and rhyconellid brachiopods; some of the annohites are quite significant but have been "hit" by amateur collectors.

As far as the main stem, there are portions of the river where the traveller is exposed to extraordinary outcrops of Clarno basalts, Lahars, and assorted volcaniclastics, many of them right at the river level. These offer excellent material for study of volcanic processes and related depositional environments. If these aren't outstanding, I am puzzled by the yardstick that is employed. Perhaps it is because these outcrops do not occupy the majority of the drainage, or perhaps there simply is no advocate for geology. At any rate, the paleontological values are outstanding by any criteria.

Sincorely,

Ted Frend Paleontologist

Confederated Tribes of the Umatilla Indian Reservation

RESOURCE ASSESSMENT

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South Fork of the John Day River National Wild and Scenic River

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Request for Amendment and Addition to USDI Bureau of Land Management and USDA Forest Service Draft Wild and Scenic River Resource Assessment August 1991

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Submitted by:

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Confederated Tribes of the Unatilla Indian Reservation Department of Natural Resources Environmental Planning/Rights Protection December 1991 We appreciate the opportunity to review and provide comment on the Wild and Scenic River/Draft Resource Assessment for the South Fork of the John Day. The comments reflect the Tribes genuine concern and interest for the River's future management plans.

- (1) The restoration of the riparian areas is a major concern of the CTUIR. The resource assessment confronts the excessive road construction, fire suppression, and damaging grazing practices which occurred in the past but more focus needs to be put on the future restoration plans. Standards and time frames need to established for restoration to accomplish DFC's. The resource assessment should also point out that the river corridor is in need of aggressive grazing management due to its fragile state.
- (2) Water quality should also be addressed (since it is directly tried to the riparian conditions) noting whether or not they are in conformance with Oregon State Water Quality Standards. This will provide the framework for management plan development, and will guide development of a plan to bring temperatures down, and if necessary easign a target temperature goal.
- (3) The draft should discuss the competitive uses for water during the year (i.e. the irrigation needs vs. fisheries maintenance). The assessment should also address the results of this competitive use that effect the "outstandingly remarkable" fisheries value.
- - (5) The resource assessment points out that the John Day River has one of the last wild anadromous fish runs in the Pacific Northwest. It is common among resource assessments to conclude that good or excellent fish habitat exists, however, to support such a statement, accurate fish habitat surveys are needed for mainsten and tributaries for effective management plan development. This recommendation is consistent with intent and letter of the USFS Tri-Regional Anadromous Fish Policy Implementation Guide.
- (6) Tribal members of the Confederated Tribes of the Umatilla Indian Reservation have seasonally occupied the S.Fk John Day River for fishing and hunting purposes at Daual and Accustomed areas in conjunction with the Warm Springs Tribe. Because of this historical occupancy, a separate cultural resource research effort is needed. The current analyses are inconsistent with Federal and Regional mandates and directives

(i.e. Forest plan cultural resource inventory requirements, National Mistoric Preservation Act guidelines for resource assessment). Given that the resource Assessment objective is to assess the resource significance of river related values, it is imperative that a thorough effort of information collection be made. In addition to the standard walk-through archaeological surveys, the forest and BLM need to work with the CTUIR to collect the ethnohistorical information that may well set some sites of localities apart from others. Further, good ethnohistorical information is necessary to conduct comprehensive ground surveys.

- (7) The resource assessment should explain the reasons for the absence of Chinook in the South Fork Basin.
- (8) The wildlife section would be complete with a more detailed section describing the diverse wildlife habitat that is available (i.e. the large acreage of uncut forest on the West side of the River.) The section should address issues such as, What are the future management plans for the forested area? How much does this forested section contribute to the existing fish and wildlife populations and habitat?
- (9) The CTUIR was a co-author in developing the <u>Upper Grande Ronde</u> <u>River Anadromous Fish Habitat Protection. Restoration. and</u> <u>Monitoring Plan.</u> This document was drafted in response to concerns over continuing declines of Snake River anadromous fisheries stocks, losses of Upper Grande Ronde Spring Chinook in 1989, and the degraded condition of habitat in the Grande Ronde watershed. The document addresses some pertinent issues and presents a future plan to counter act the degradation of the habitat and species. We recommend using this document as a land management model. I have attached a copy of the plan for your review.

Overall the resource assessment covers a board array of natural resources that make the South Fork John Day River and it's corridor significant. The CTUIR supports the designation of the scenic, fishery, recreational, botanical, and wildlife with the condition that the above concerns are thoroughly addressed amended to the resource assessment.

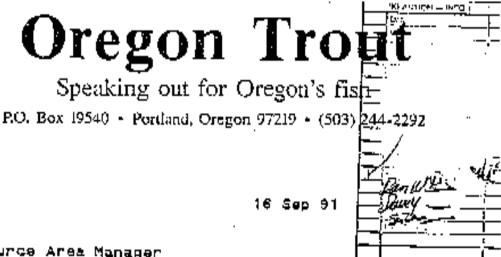
Sincerely,

Jaempts

Tricia Quaenpts Rights Protection Assistant CTUIR

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HIC 2

Harry R. Cosgriffe Central Oregon Resource Area Manager Bureau of Land Management Prinville, OR 97754

Dear Mr. Cosgniffe:

i appreciate the opportunity to comment on the resource assessment for the South Fork of the John Day River. As a resident of Grant County for the past eleven years i have a keen interest in management policies affecting local resources...particularly those resources that are as important as water and fisheries. Although the South Fork is a local waterway, decisions concerning its future could be felt throughout the John Day River Basin (JDRB).

As noted in your assessment the JDRB is unique with respect to wild anadromous fish runs. The gene pools contained within the populations of this basin could be vital to the vigor and survivability of anadromous species throughout the middle and upper Columbia River Basin (CRB). Considering the present condition of anadromous runs throughout the CRB i believe it would be difficult to overstate the importance of the JDRB to salmonid production.

A major tributary within the JDRB, the South Fork has the capability to make an important contribution to the system by providing high quality water, significant flows, and good spawning areas for steelhead and other resident species. Any activities that would adversely affect these contributions could have far-reaching consequences.

Before constructing a fish passage around lzes fails it might be beneficial to consider possible effects on fish populations above that point. It is my understanding that populations of redband trout above the fails may have a genetic influence on fish below the fails. If this is the case then I suppose the question of whether the benefits of an expanded spawning area for steelhead would outweigh the potential reduction or loss of sources of genetic variability from existing fish populations above the fails.

I am sure anyone familiar with this part of the country is aware of the past and present impacts of logging, grazing, and mining on riparian resources. Fortunately there is a move toward correcting past abuses and formulating policies that recognize the importance of a wide variety of resources. As noted in the assessment, there are no recreational developments along the South Fork. 1 can appreciate the value of recreational opportunities yet 1 also have an understanding of how vulnerable some systems are to heavy use, regardless of the nature of that use. 1 would certainly hope that any future considerations of recreational developments will strongly consider the potential impacts of increased human activity.

Once again | appreciate the opportunity to make these views known and would like to be kept informed of further steps in developing a management plan for the South Fork.

Sincerely, Ron Gaither

.. .

Ronald E. Gaither Oregon Trout

cc: Myron



DEC 199



fills and size — resets

PEADIer?

THE WILDERNESS SOCIET

NORTHWEST REGION

December 9, 1991

James Kenna Deschutes Area Manager Bureau of Land Management P.O Box 550 Prineville, Oregon 97754

Dear Mr. Kenna:

Thank you for the opportunity to review the draft South Fork John Day Wild and Scenic River Resource Assessment. The Wilderness Society fully supports the "outstandingly remarkable" designation of the scenic, fishery, recreational, botanical, and wildlife values. Rowever, there are several areas of concern to The Wilderness Society which we address below.

Our greatest concern is the condition of the riparian zones and other botanical values. Human uses of the river corridor have so stressed potential climax riparian zones, that most are in early seral stages. The draft assessment frankly describes how past grazing has interrupted ecologically significant activities ranging from nesting to natural wildfire. It also admits that fire suppression, road construction, and "other management practices" have changed the makeup of natural plant communities. But the draft does not and should clearly characterize these "changes" or the efforts made to reverse them.

We oppose improving seral conditions by implementing fencing. As you no doubt know, fencing will interrupt wildlife movement, as well as compromise the area's scenic values which are already undermined by the road. We are concerned that the area, especially the riparian zones, will not be able to rebound without, at least, a suspension of all grazing activities. Such a suspension would also be an appropriate measure to preserve those climax zones whose scarcity, as the draft concedes, qualifies them for "management as outstandingly remarkable values." (Fage 14) The plan must not risk endangering the two Federal Candidate Category 2 species that exist in this corridor. The unique occurrence of <u>Astragalus diaphanus</u> makes this corridor. particularly important. Have <u>Appragalus diaphanus</u> communities been affected by any of the "management practices" that have changed other vegetation?

The "outstandingly remarkable" designation of the fishery resources recognizes the sensitivity of the redband population and the importance of the John Day River basin as one of the last wild anadromous fish runs in the Pacific Northwest. We must do everything possible to enhance and protect these regionally significant resources. The proposed fish passage around Izee Falls should be carefully scrutinized. It would be a shame to destroy existing successful populations in an attempt to create new ones. The Wild and Scenic Rivers Act calls for the protection and enhancement of values on a free-flowing river. As a man-made disruption of the natural river flow, this proposed passage is inconsistent with the requirements of the Act.

In addition, the draft should explain the absence of Chinook in the South Fork basin. We are also concerned that the current policy of supplementing the wild redband population with hatchery fingerlings is more a response to recreational demands than a response to the long-term welfare of the "sensitive species" redband that have to compete with these hatchery fish.

The assessment is also vague regarding how the "sport catch of 10,000 fish," has affected the redband and steelhead populations. Regarding the fishery preliminary findings, we request a thorough description of the efforts and results of attempts to "restore the riparian system." In what ways has water quality been "significantly improved?" What are the "increased benefits to the fishery?"

As to water quality, the draft describes how the demands for irrigation use and fisheries maintenance are at their greatest during the same months. But it should also describe the results of this competition for this "outstandingly remarkable" fishery resource. Now have agricultural activities affected the riparian zones? What efforts have been made to seek alternative irrigation technology? The draft's opening river description should expand on its vague comments regarding the "mostly gravel or dirt road." How close is that road to the river? Does runoff from the road contribute to the further erosion of the atressed riparian zones or any decline in water quality? Does the road present any danger to wetlands or other riparian habitats?

Regarding the recreation section, the Wilderness Society is concerned that without assessing the current impact of visitors, the construction of the National Back Country Byway and the likely visitor increase, could cause unforseen damage to riparian zones already stressed by grazing. The predicted increased visitor load requires developing a camping strategy that would either limit or concentrate visitors away from riparian zones and other areas that have been damaged by cattle. However, by



United States Department of the Interior

EUREAU OF LAND MANAGEMENT Prineville District Office P.O. Sox 550 (185 E. 4th Street) Prineville, Oregon 97754

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JAN 1 0 1992

Errol Clairs John Day District Oregon Department of Fish and Wildlife P. C. Box 9 John Day, CR 97845

Cear Strolt

I have received many comments on the Resource Assessment of the John Day River. Some of the comments require additional fish expertise that you have. Would you help me enswer the following questions:

- Why are chinock absent from the South Fork Basin?
- What is the hatchery supplementation policy for the John Day River? What current supplementation actions are going on?
- 3. What are the interactions between hatchery fish and wild stock in the John Day River, in terms of competition, productivity and disease?
- Please assess the impact of the present sport catch of fish on regtand, steelhead and chinook.
- 5. What riparian restoration efforts are being made on State owned land in the John Day Basin?

Errol, thanks again for your help. Would you be able to respond by February 15, 1992? Let me know.

Sincerely,

K. Young istrict Fishery Biologist

JAN 17 1992

MEMORANDUM

TO: Dan Nood

FROM: Bob Vidourek

SUBJECT: Response to Wilderness Society Request in Regards to Forest with,Corridor

Îa -

Future forest management plans west of the South Fork John Day River and within the wild and scenic corridor are none. No planned timber activities are scheduled in the current 10-year plan. Timber management of forest lands within any wild and scenic river corridor, (1/4 mile each side), would be carefully analyzed.

However, since most of these forest landsare classed as commercial forest lands and listed as restricted or non-restricted, we must consider them available for forest management activities (see John Day RMP, 1985).

Some of these commercial forest land acres are listed as withdrawn from the timber base. Efforts to open up more land for timber hervesting within this corridor is very unlikely in this decade.

The forests east of the highway and above the Izee Falls area are in T.185., E.27E. The history of timber harvesting within this township has been similar to harvesting on any BLM commercial forest lands within this District. That is, all harvesting has been the partial cutting method, which includes overstory removal of 50 - 70% of the overstory, (mature, and/or decadent older trees) and commercial thinning, [harvesting of commercial sized trees down to 10 inches diameter breast height, (DBH)] to a 24 - 35 foot leave tree spacing.

Timber harvesting within this township has been rather light over the past 30 years, especially within the 1/4 mile corrider of the river. Within this corridor, salvage harvest of under 5 MEF each have taken place in the years of 1971, 1968, 1965, and 1961.

The only regular timber hervest operation within this township and within one mile of the east side of the river took place in 1984. on¹4 Within this timber sale of 2.2 million board feet (MMBF), with western boundaries of the units closest to the river, (three of the twelve units), were approximately 1/2 mile from the east side of the river. In addition, all three of these units were above and well beyond the top of the rims along the east banks of the river.

Included within this 1984 timber sale, no new road construction took place. All road work was maintenance and removation only.

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The existing road network was most likely developed for timber have that took place in 1956 (1.5 MMER) and in 1958 (3 MMER).

By for future activities east of the river and within this township, a timber harvest operation is scheduled for 1996 or 1997. This is a planned helicopter yarding operation and no bervest unit is planned within 1/4 mile of the river.

As a result of the preceding discussion, it can be determined, that Not logging activities have no adverse impact on the current willife and habitat values of this corridor. The future, 1996-97, harvest operation should have no adverse impacts on the future values of the subject corridor.

Ret M. Vidand

Appendix G Glossary

Access - A passage allowing recreationists to reach the areas in which they wish to recreate.

Access Easement - A legal right to cross private land granted to the public by a landowner.

Area of Critical Environmental Concern (ACEC) - Type of special land use designation specified within the Federal Land Policy and Management Act (FLPMA).

Active Floodplain - The low-lying land surface adjacent to a stream and formed under the present flow regime. The active floodplain is inundated at least once or twice (on average) every three years.

Administrative Rules - Regulations established by State agency boards and commissions in accordance with Oregon Revised Statues.

Allocation - The process of apportioning a supply of opportunities to various sectors of demand, i.e., to the nonoutfitted public and the public seeking outfitted services.

Allotment - An area of land where one or more livestock operators graze their livestock.

Allotment Classifications - I (Improve) - Range condition unsatisfactory, high potential, producing at low to moderate level, resource-use conflicts present, positive economic opportunity, management unsatisfactory. M (Maintain) - Range condition satisfactory moderate to high potential, producing near potential or upward trend, no serious resource-use conflicts, possible economic opportunity, management satisfactory. C (Custodial) - Range condition not a factor, low potential, producing near potential, limited resource-use conflicts, no economic opportunity, management satisfactory or no options.

Allotment Management Plan - A plan for managing livestock grazing on specified public land.

All-Terrain Vehicle (ATV) - Small 3-wheel and 4-wheel recreational vehicles capable of operating in rugged terrain.

Anadromous fish - Fish that hatch in freshwater, migrate to the ocean to mature, and return to freshwater to reproduce. Salmon and steelhead are examples.

Angler Use Day - One person fishing the river for any portion of one day.

Animal Unit - One cow, one cow/calf pair, one horse, or five sheep.

Animal Unit Month (AUM) - A standardized measurement of the amount of forage necessary to sustain a cow and calf for one month.

Aquatic - Living or growing in or on the water.

Archaeological Site - Geographic locale containing structures, artifacts, material remains and /or the other evidence of past human activity.

Authorized Officer - Any employee of the Bureau of Land Management to whom authority has been delegated to perform the specific duties described.

Basin - In general, the area of land that drains water, sediment, and dissolved materials to a common point along a stream channel.

Beneficial Use - The reasonably efficient use of water without waste for a purpose consistent with the laws, rules, and the best interests of the people of the state (Oregon Administrative Rules, Water Resources Department, Division 300, 690-300-010 (5)).

Best Management Practices (BMPs) - A set of practices which, when applied during implementation of management actions, ensures that negative impacts to natural resources are minimized. BMPs are applied based on site-specific evaluation and represent the most effective and practical means to achieve management goals for a given site.

BLM Assessment Species - Plant and animal species on List 3 and 4 of the Oregon Natural Heritage Data Base, or those species on the Oregon List of Sensitive Wildlife Species (OAR 635-100-040) that are identified in BLM Instruction Memorandum OR-91-57 and are not included as Federal candidate, State listed, or BLM sensitive species.

BLM Lands - Any land and interest in land managed by the United States Government and administered by the Secretary of the Interior through the Bureau of Land Management. (Also, public lands.)

BLM Sensitive Species - Plant or animal species eligible for Federal listed, Federal candidate, State listed, or State candidate (plant) status, or on List 1 in the Oregon Natural Heritage Data Base, or approved for this category by the BLM State Director.

BLM Tracking Species - Plant and animal species on List 3 and 4 of the Oregon Natural Heritage Data Base, or those species on the Oregon List of Sensitive Wildlife Species (OAR 635-100-040) that are identified in BLM Instruction Memorandum OR-91-57 and are not included as Federal candidate, State listed, BLM sensitive, or BLM assessment species.

Boat - Water craft used or capable of being used as a means of transportation on the water, but does not include aircraft equipped to land on water, boathouses, floating homes, air mattresses, beach and water toys or single inner tubes.

Boater - Any person who utilizes a floating craft or device for transportation on the surface of the river.

Boating Use Day - One person boating the river for any portion of one day.

Buffer Strip - A protective area adjacent to an area of concern requiring special attention or protection. In contrast to riparian zones which are ecological units, buffer strips can be designed to meet varying management concerns.

Campground - One or more developed campsites in a specific area.

Camping - Outdoor living for recreation.

Campsite - Individual unit for camping; usually undeveloped.

Campsite Rehabilitation - Measures taken to restore damaged campsites and to prevent further damage to natural resources, such as planting grass and shrubs.

Casual Use - Mining activities that ordinarily result in only negligible disturbance of Federal lands and resources. These activities do not involve the use of mechanical earth moving equipment, motorized vehicles, other power equipment, or explosives.

Channeled - Refers to a drainage area in which natural meandering or repeated branching and convergence of a streambed have created deeply incised cuts, either active or abandoned, in alluvial material.

Client - A paying member of a guided or outfitted group.

Climax Vegetation - The stabilized plant community on a particular site. The plant cover reproduces itself and does not change as long as the environment remains the same.

Commercial Forestland - Forestland that can produce 20 cubic feet of timber per acre per year and that is not withdrawn from timber production.

Commercial Use - Recreational use of the public lands or related waters for business or financial gain.

Commercial Use Day - One permittee, guide, or client participating in a commercial activity for any portion of one day.

Commercial Use Fee - Fees for commercial use permits, designed to provide a fair return to the government for the opportunity to make a profit using Federal resources.

Cover - Trees, shrubs, rocks, or other landscape features that allow an animal to partly or fully conceal itself; area of ground covered by plants of one or more species.

Cubic feet per second (cfs) - Means of measuring the flow rate of a liquid, usually water.

Cultural Resources - Remains of human (historical and archaeological) activity, occupation, or endeavor, reflected in districts, sites, structures, buildings, objects, artifacts, ruins, works of art, architecture and natural features that were of importance in past human events. Cultural resources consist of: (1) physical remains; (2) areas where significant human events occurred, even though evidence of the events no longer remains; and (3) the environment immediately surrounding the actual resource.

Custodial Management - Management of a group of similar allotments with minimal expenditure of appropriated funds to continue protecting existing resource values.

Cumulative Impact - Impacts on the environment that result from the incremental impact of an action when added to other past, present, and reasonably foreseeable future actions. Such impacts can result from individually minor, but collectively significant actions occurring over a period of time.

Day Use - Recreational use of public lands that involves no overnight use.

Degraded Site - Any vegetation area which is in early seral status or in declining ecological condition.

Desired Use Level - The amount and type of recreational use an area can accommodate without altering either the environment or the user's experience beyond the degree of change deemed acceptable by the management objectives for the area. Desired use levels are developed through the use of "Limits of Acceptable Change" or a "Recreation Opportunity Spectrum" analysis.

Developed Campground - Accessible by motor vehicle and contains improvements for camper comfort and sanitary facilities such as toilets, tables and campfire grills.

Dispersed Campsite - Undeveloped campsite containing n improvements for camper comfort or sanitation.

Dispersed Recreation - Recreation that does not occur in a developed recreation site; for example, hunting or backpacking.

Diversity - A measure of the variety of species and habitats in an area that takes into account the relative abundance of each species or habitat.

Ecological Status - Th present state of vegetation of a range site in relation to the potential natural community for that site. Four classes are used to express the degree to which the production or composition of the present plant community reflects that of the potential natural community (climax):

Ecological status (seral stage)	Percent of community in climax condition
Potential natural community	76-100
Late seral	51-75
Mid-seral	26-50
Early seral	0-25

Ecosystem - An ecological unit consisting of both living and nonliving components that interact to produce a natural, stable system.

Endangered Species - A plant or animal species listed under the Endangered Species Act that is in danger of extinction throughout all or a significant portion of its range.

Environmental Assessment (EA) - One type of document prepared by Federal agencies in compliance with the National Environmental Policy Act (NEPA) that portrays the environmental consequences of proposed Federal actions not expected to have significant impacts on the human environment.

Environmental Impact Statement (EIS) - A formal document to be field with the Environmental Protection Agency that considers significant environmental impacts expected from implementation of Federal actions.

Ephemeral Stream - A stream, or reach of a stream, that flows only in direct response to precipitation. It receives no continuous supply from melting snow or other source, and its channel is above the water table at all times.

Erosion - Detachment and movement of soil or rock fragments by water, wind, ice or gravity.

Evapotranspiration - Loss of water by evaporation from the soil and transpiration form plants.

Evolutionary Significant Unit (ESU) - A term applied for purposes of consideration under the Endangered Species Act to refer to a distinct population segment that is substantially reproductively isolated from other conspecific population units and represents an important component in the evolutionary legacy of the species.

Exclosure - An area fenced to exclude animals (primarily livestock).

Filter Strip - A strip or area of vegetation for removing sediment, organic matter, and other pollutants from runoff and waste water.

Fire Rehabilitation - The activities necessary to repair damage or disturbance caused by wildfire or the fire suppression activity.

Fire return interval - The number of years between two successive fires documented in a designated area (i.e., the interval between two successive fire occurrences).

Fire suppression - All the work activities connected with fire-extinguishing operations, beginning with the discovery and continuing until the fire is completely extinguished.

Floodplain - A relatively flat area or lowlands adjoining a body of standing or flowing water that has been or might be covered by floodwater.

Forage - All browse and herbaceous plants that are available to grazing animals, including wildlife and domestic livestock.

Forb - A broad-leafed herb that is not a grass.

Forest health - The condition in which forest ecosystems sustain their complexity, diversity, resiliency and productivity while providing for human needs and values.

Forestland - Land that is now, or is capable of becoming, at least 10 percent stocked with forest trees and that has not been developed for nontimber use.

Fuels - Includes living and dead plant materials which are capable of burning.

Ground Cover - Grasses or other plants that keep soil from being blown or washed away.

Group Size - The number of people in a boating or camping party including guides and any support personnel.

Guide - A permittee or employee working for a permittee who provides services that include leading clients in an authorized commercial activity.

Guide Permit - A license to carry out the activities of a guide.

Gully - A miniature valley with steep sides cut by running water and through which water ordinarily runs only after rainfall. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage; a rill is of lesser depth and can be smoothed over by ordinary tillage.

Habitat - The type of environment in which certain plants or animals live.

Herd Management Area (HMA) - Public land under the jurisdiction of the Bureau of Land Management that has been designated for special management emphasizing the maintenance of an established wild horse herd.

Herpitile - A collective term for amphibians and reptiles, synonymous with herpetofauna.

Historic site - Locations of human activity from the historic period.

Impact - A change in the environment caused by the activities of humans.

Infiltration rate - The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.

In stream Water Right - A right to the use of water which remains in the stream, such as for fish, recreation or pollution abatement.

Interim Management Policy (IMP) - Policy for managing public lands under wilderness review. Section 603 (c) of FLPMA states: "During the period of review of such areas and until Congress has determined otherwise, the Secretary shall continue to manage such lands according to his authority under this Act and other applicable law in a manner so as not to impair the suitability of such areas for preservation as wilderness, subject, however, to the continuation of existing mining and grazing uses and mineral leasing in the manner and degree in which the same was being conducted on the date of approval of this Act: Provided, that, in managing the public lands the Secretary shall by regulation or otherwise take any action required to prevent unnecessary or undue degradation of the lands and their resources or to afford environmental protection."

Intermittent Stream - A stream that flows only at certain times of the year when it receives water from other streams or from surface sources such as melting snow.

Issue - A subject or question of widespread public discussion or interest regarding management of a geographic area which has been identified through public participation.

Landing Site - The riverbank location where boats are taken from the river.

Late Seral - Ecological condition class corresponding to 51 to 75 percent of the plant composition found in the potential natural plant community.

Launch - An individual river trip. May be comprised of one or more boats and any number of individuals within the authorized party size.

Leasable minerals - Minerals that may be leased to private interests by the Federal government; includes oil, gas, geothermal, coal, and sodium compounds.

Limits of Acceptable Change - The amount f human-caused change to biological, physical, or social components which are tolerable within an acceptable level without degrading the recreation experience.

Locatable Minerals - The metallic minerals subject to development specified in the General Mining Law 1872. Within the planning area this includes gold, mercury and bentonite.

LS Factor - The length-slope value from the Revised Universal Soil Loss Equation where L= the slope length indicator and S= the slope gradient factor or percentage steepness.

Mainstem - The main channel of the river in a river basin, as opposed to the streams and smaller rivers that feed into it.

Management Objectives - Parameters or goals to be used as standards to measure the success of the management plan.

Mechanical treatment - Use of mechanical equipment for seeding, brush management, and other management practices.

Microbiotic crust - Lichens, mosses, green algae, fungi, cyanobacteria, and bacteria growing on or just below the surface of soils.

Monitoring and Evaluation - Collection and analysis of data to evaluate the progress and effectiveness of onthe-ground actions in meeting resource management goals and objectives.

Motorboat - Any boat propelled in whole or in part by machinery, including boats temporarily equipped with detachable motors.

Multiple-use management - Management of public land and resource values to best meet various present and future needs of the American people. This means coordinated management of resources and uses to assure the long-term health of the ecosystem.

National Register of Historic Places (NRHP) - The official list, established by the Historic Preservation Act of 1966, of the nation's cultural resources worthy of preservation.

National Wild and Scenic Rivers System - A system of Congressionally designated rivers and their immediate environments that have outstanding scenic, recreational, geological, fish and wildlife, historic, cultural and other values and are preserved in a free-flowing condition. The system is of three types: (1) Recreation - rivers or section of rivers readily accessible by road or railroad that may have some development along their shorelines and that may have undergone some impoundment or diversion in the past; (2) Scenic - rivers or sections of rivers free of impoundments, with shorelines or watersheds still largely undeveloped but accessible in places by roads; and (3) Wild - rivers or sections of rivers free of impoundments or shorelines essentially primitive and waters unpolluted.

Native Species - Plants or animals that are indigenous to an area.

Needs Assessment - A study to determine the public need for commercial services which generally includes analyses of resource capability to sustain use, social carrying capacities, agency mission, potential commercial opportunities, current availability of services, and public input.

Non-Commercial - Activities in which there is a bona fide sharing of the cost of the activity between all participants.

No-Trace Camping - The art of camping without leaving signs of use.

Noxious Weed - A plant specified by law as being especially undesirable, troublesome and difficult to control.

Off-Road Vehicle - Any motorized track or wheeled vehicle designed for cross-country travel over any type of natural terrain.

Organic matter - Plant and animal residue in the soil in various stages of decomposition.

Outfitter - A person who for compensation or other gain, provides equipment, supplies or materials for the conduct of outdoor recreational activities.

Outplanting - The process of planting selected trees and shrubs, usually nursery grown, into ecologically suitable environments.

Paleontological Resource - Remnants of life from past geological ages as seen in fossil plants and animals.

Perennial stream - A stream in which water is present during all seasons of the year.

Permeability - The quality of the soil that enables water to move downward through the profile, measured as the number of inches per hour that water moves downward through the saturated soil.

Permit - A license, revocable by or at the discretion of the BLM, to utilize public lands for a fixed period of time, which conveys no possessory interest in the land.

Permit System - A method of allotting use of a public resource through issuance of permits.

Permittee - An individual who is authorized by permit to use public lands or waters for financial gain.

Physiographic province - A geographic region with similar climatic, land form, and geologic features, and which is significantly different from adjacent regions.

Plan Objectives - Guiding statements or goals that present the purpose and overall intent of the planning effort.

Post Use Report - A document prepared by a permitted outfitter or permittee and submitted to the authorized officer by an agreed upon date.

Prehistoric - Period wherein Native American cultural activities took place which were not yet influenced by contact with historic nonnative cultures.

Prescribed burning - Controlled application of fire to wildland fuels in either their natural or modified state, under specified environmental conditions which allow the fire to be confined to a predetermined area and at the same time to produce the fire line intensity and rate of spread required to attain planned resource management objectives.

Prescribed fire - Any fire ignited by management action to meet specific objectives. A written, approved prescribed fire plan must exist, and NEPA requirements must be met, prior to ignition.

Prescription - Written statement defining objectives to be attained, as well measurable criteria, which guide the selection of appropriate management actions. Prescription criteria may include safety, economic, public health, environmental, geographic, administrative, social or legal considerations under which the fire will be allowed to burn.

Primitive Campsite - Contains no improvements for comfort or sanitation.

Properly Functioning Condition (PFC) - Riparian-wetland areas are functioning properly when adequate vegetation, landform, or large woody debris is present to dissipate stream energy associated with high waterflows, thereby reducing erosion and improving water quality, filter sediment, capture bedload, and aid floodplain development; improve flood-water retention and ground-water recharge; develop root masses that stabilize streambanks against cutting action; develop diverse ponding and channel characteristics to provide the

habitat and the water depth, duration, and temperature necessary for fish production, waterfowl breeding, and other uses; and support greater biodiversity. The functioning condition of riporian-wetland areas is a result of interaction among geology, soil, water, and vegetation.

Riparian-wetland areas that are not rated as being in PFC are classified as being either Functional-at-risk or Non-functional:

Functional-At-Risk - Riparian-wetland areas that are in functional condition but have an existing soil, water, or vegetation attribute that makes them susceptible to degradation.

Non-functional - Riparian-wetland areas that clearly are not providing adequate vegetation , landform, or large woody debris to dissipate stream energy associated with high flows and thus are not reducing erosion, improving water quality, etc. The absence of certain physical attributes such as floodplain where one should be are indicators of non-functioning conditions.

Public land - Any land or interest in land owned by the United States and administered by the Secretary of the Interior, Secretary of Agriculture, or the State of Oregon.

Rangeland - Land on which the native vegetation is predominantly grasses, grass-like plants, forbs, or shrubs; not forest.

Range site - An area of rangeland where climate, soil, and relief are sufficiently uniform to produce a distinct natural plant community. A range site is the product of all the environmental factors responsible for its development. It is typified by an association of species that differ from those on other range sites in kind or proportion of species or total production.

Recreational opportunity - Those outdoor recreation activities that offer satisfaction in a particular physical, social, and management setting; such as camping, picnicking, fishing, hunting, wildlife viewing, photography, bike riding, and boating.

Recreation Opportunity Spectrum (ROS) - A means of characterizing recreation opportunities in terms of setting, activity, and experience opportunities.

Recreation site - An area where management actions are required to provide a specific recreation setting and activity opportunities, to protect resource values, provide public visitor safety and health, and/or to meet public recreational use demands and recreation partnership commitments. A site may or may not have permanent facilities.

Recreational river - A Wild and Scenic River designation usually applied to a river or section of river that is readily accessible by road or railroad; it may have had some development along the shorelines and may have undergone some impoundments or diversions in the past.

Redd - A depression excavated by anadromous fish in which to lay their eggs.

Regeneration - The new growth of a natural plant community, developing from seed.

Research Natural Area (RNA) - An area where natural processes predominate and which is preserved for research and education. Under current BLM policy, these areas must meet the relevance and importance criteria of ACECs and are designated as ACECs.

Resource Management Plan (RMP) - A land use plan as described by the Federal Land Policy and Management Act.

Right-of-way - A permit or easement which authorizes a specific use of a specific area of land.

Right-of-way corridor - A parcel of land that has been identified by law, Secretarial Order, through a land use plan or by other management decision as being the preferred location for existing and future right-of-way grants and suitable to accommodate one type of right-of-way or one or more rights-of-way which are similar, identical or compatible.

Riparian Area - The land adjacent to water, where water, soil and vegetation interact to form a unique microclimate.

Riverine Terrace - A flat, usually narrow stretch of ground between the river bank and the uplands.

Runoff - The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface runoff. Water that enters the soil before reaching surface streams is called ground water runoff or seepage flow from ground water.

Salable Minerals - Common varieties of sand, gravel, rock, and clay, usually used in construction and sold by the ton or cubic yard.

Sanitation Facilities - Installations of buildings or other structures which ease the deposition or collection of human waste.

Section 202 lands - Lands being considered for wilderness designation under Section 202 of the Federal Land Policy and Management Act of 1976.

Sediment - Soil, rock particles and organic or other debris carried from one place to another by wind, water or gravity.

Seral stage - See ecological status.

Shrub - A low, woody plant, usually with several stems, that may provide food and/or cover for animals.

Soil - A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief over periods of time.

Special Status Species - Plant or animal species in one of the following categories: Federally listed threatened or endangered species, species proposed for Federal listing as threatened or endangered, candidate species for Federal listing, State listed species, Bureau sensitive species, or Bureau assessment species (see separate definition for each).

Species Diversity - The number, variety, and relative abundances of species occurring in a given area.

Species of Special Interest or Concern - Plant or animal species not yet listed as endangered or threatened, but whose status is being reviewed because of their widely dispersed populations or their restricted ranges; a species whose population is particularly sensitive to external disturbance.

Stand - A community of trees occupying a specific area and sufficiently uniform in species, age, spacial arrangement and condition as to be distinguishable from trees on surrounding lands.

State Lands - Lands managed by an Oregon government agency.

State Listed Species - Any plant or animal species listed by the State of Oregon as threatened or endangered within the state under ORS 496.004, ORS 498.026, or ORS 564.040.

Stewardship - The exercise of responsible care of land, water or other natural resources, or recreational resources such as a campsite.

Stream channel - The hollow bed where a natural stream of surface water flows or may flow; the deepest or central part of the bed, formed by the main current and covered more or less continuously by water.

Threatened Species - Any plant or animals species defined under the Endangered Species Act as likely to become endangered within the foreseeable future throughout all or a significant portion of its range. Listings are published in the federal Register.

Traditional Cultural Property (TCP) - Properties that have significance deriving from "the role that the property plays in a community's historically rooted beliefs, customs, and practices." Such properties may be eligible for the National Register because of their "association with cultural practices or beliefs of a living community that (a) are rooted in that community's history, and (b) are important in maintaining the continuing cultural identity of the community" (National Register Bulletin 38).

Traditional cultural properties may include landforms or landscape features, such as pinnacles, buttes or springs or mountains; or may have both artifact and architectural manifestations. These properties may be associated with an event or person, or a past or ongoing traditional practice important to a living community. They may be places with both historic secular and sacred associations. Some properties may be well known and mapped or documented in existing archival histories or ethnographic literature, but many can only be identified by knowledgeable individuals within the community (Sebastian 1993).

Treaty Rights - Reserved rights on ceded lands established in treaties with the United States Government in 1855, for example, as with the Confederated Tribes of the Warm Springs Indian Reservation of Oregon and the Confederated Tribes of the Umatilla Indian Reservation.

Trend - The direction of change in ecological status observed over time. Trend is described as toward or away from the potential natural community, or as not apparent.

Turbidity - A measure of water clarity.

Undeveloped Campsite - Contains no improvements for camper comfort or sanitation.

Upland - All rangelands other than riparian or wetlands areas.

Utilization - The proportion or degree of the current year's forage production that is consumed or destroyed by animals (including insects). Utilization may refer either to a single plant species, a group of species, or to the vegetation as a whole. Utilization is synonymous with *use*.

Vegetation Manipulation - Alteration of present vegetation by using fire, plowing, or other means to manipulate natural succession trends.

Visitor Use Day - One person visiting public lands for any portion of one day.

Visual Resource Management Classes - The five categories assigned to public lands based on scenic quality, sensitivity level, and distance zones. Each class has an objective prescribing the acceptable visual change within a characteristic landscape (see Appendix ??).

Water Quality - The chemical, physical and biological characteristics of water with respect to its suitability for a particular use.

Watershed - The drainage basin contributing water, organic matter, dissolved nutrients, and sediments to a stream or lake.

Wetlands - Areas that are inundated by surface water or ground water with a frequency sufficient to support, and under normal circumstances do or would support, a prevalence of vegetative or aquatic life that require saturated or seasonally saturated soil conditions for growth and reproduction (Executive Order 11990). Wetlands generally include, but are not limited to, swamps, marshes, bogs, and similar areas.

Wild and Scenic River Designation - ???

Wilderness - Area where the earth and its community of life have not been seriously disturbed by humans and where humans are only temporary visitors. In this document, the term is capitalized and refers to specific lands designated by Congress as Wilderness Areas and protected and managed to preserve their natural condition.

Wilderness Inventory - A written description of resource information and data, and a map of those public lands that meet the wilderness criteria as established under Section 603 (a) of FLPMA and Section 2 (c) of The Wilderness Act.

Wilderness Study Area (WSA) - Public land that is determined to have wilderness character and is currently in an interim management status awaiting official wilderness designation or release from WSA status by Congress.

Wildfire - Any fire occurring on wildland that is not meeting management objectives and thus requires a suppression response. An unwanted wildland fire.

Wildland fire - Any nonstructure fire, other than prescribed fire, that occurs in the wildland.

Wild horses - Unbranded and unclaimed horses that use public land as all or part of their habitat, or that have been removed from such land by an authorized officer but have not lost their status under Section 3 of the Wild Free-Roaming Horse and Burro Act.

Woodlands - Forestland not included in the commercial forestland sustainable harvest level. Includes all noncommercial and nonsuitable forestland.

Appendix H List of Acronyms and Abbreviations

ACE ACEC AFS af AMP APE ARPA ASCS AUM BA BLM BMP BOR BPA BRD CAA CBFWA cfs CWR CFR CRBC CRIFC CR	Army Corp of Engineers Area of Critical Environmental Concern American Fisheries Society acre-feet Allotment Management Plan Area of Potential Effect Archeological Resources Protection Act Agricultural Stabilization and Conservation Service Animal Unit Month Biological Assessment Bureau of Land Management Best Management Practices Bureau of Reclamation Bonneville Power Administration Biological Research Division Clean Air Act Columbia Basin Fish and wildlife Authority cubic feet per second Critical Deer Winter Range Code of Federal Regulations Columbia River Intertribal Fish Commission Columbia River Intertribal Fish Restoration Plan Coordinated Resource Management Plan Confederated Tribes of the Umatilla Indian Reservation Confederated Tribes of the Warm Springs Indian Reservation of Oregon Clean Water Act Draft Environmental Impact Statement Department of Environmental Quality Draft Resource Management Plan Environmental Impact Statement Department of Land Conservation and Development Decision Record Draft Resource Management Plan Environmental Impact Statement Department of Environmental Quality Draft Resource Management Plan Environmental Impact Statement Department of Environmental Quality Draft Resource Management Plan Environmental Impact Statement Decision Record Draft Resource Management Plan Environmental Impact Statement Environmental Impact Statement Forest Ecosystem Management Assessment Team Federal Land Policy and Management Act of 1976 Farmers home Administration Finding of No Significant Impact Federal Register Farm Service Agency
FONSI	Finding of No Significant Impact
FR	Federal Register
FSA	Farm Service Agency
FY	Fiscal Year
GIS	Geographic Information System
GF	Grazing Farm

GWEB HCA HCP HMP IWSRCC IBLA ICBEMP IDT IMP IWM JDBC	Governor's Watershed Enhancement Board Habitat Conservation Areas Habitat Conservation Plan Habitat Management Plan Interagency Wild and Scenic River coordinating Council Interior Board of Land Appeals Interior Columbia Basin Ecosystem Management Project Interdisciplinary Team Interim Management Policy Integrated Weed Management Program John Day Basin Council
LAC	Limits of Acceptable Change
LCDC	Land Conservation and Development Commission
mmbf	million board feet
MOU	Memorandum of Understanding
MUR	Multiple Use Range
NBS	National Biological Survey
NA	Not Available
NCA	National Conservation Area
NEPA	National Environmental Policy Act of 1969
	National Forest National Historic Preservation Act
NHPA NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOALE	Northeast Oregon Assembled Land Exchange
NPPC	Northwest Power Planning Council
NPS	National Park Service
NRCS	Natural Resource Conservation Service
NRHP	National Register of Historic Places
NRPA	National Rangelands Policy Act of 1976
NRS	Natural Resource Specialist
NSO	No Surface Occupancy
OAR	Oregon Administrative Rules
ODA	Oregon Department of Agriculture
ODF	Oregon Department of Forestry
ODFW	Oregon Department of Fish and Wildlife
ODOT	Oregon Department of Transportation
ODSL	Oregon Division of State Lands
OEDD	Oregon Economic Development Department
OEDC	Oregon Economic Development Commission
OHV	Off-Highway Vehicle
	Oregon State marine Board
ONHP ONRC	Oregon Natural Heritage Program Oregon Natural Resources Council
OPRD	Oregon State Parks and Recreation Department
ORV	Outstandingly Remarkable Values
ORS	Oregon Revised Statutes
OSLB	Oregon State Land Board
OSO	Oregon State Office of the Bureau of Land Management
OSP	Oregon State Police
OSU	Oregon State University
OWRC	Oregon Water Resources Commission
OWRD	Oregon Water Resources Department
PACFISH	Pacific Anadromous Fish Strategy
PFC	Proper Functioning Condition
PILT	Payment in Lieu of Tax
PNC	Potential Natural Communities

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PNW	Pacific Northwest Research Station
PPM	Parts Per Million
PRIA	Public Rangelands Improvement Act of 1978
RA	Resource Area
RAC	Resource Advisory Council
RCA	Resource Conservation Area
RM	River Mile
	Resource Management Plan, Recreation Management Plan
RNA	Research Natural Area
ROD	Record of Decision
RPA RUP	Resource Planning Act Recreation Use Permit
RUSLE RV	Revised Universal Soil Loss Equation Recreation Vehicle
RVD	Recreation Visitor Day
S&Gs	Standards & Guidelines
SCS	Soll Conservation Service
SF	Standard Form
SHPO	State Historical Preservation Office
SR	State Route
SRM	Society for Range Management
SSW	State Scenic Waterway
SVIM	Soil-Vegetation Inventory Method
SWCD	Soil and Water Conservation District
T&E	Threatened and Endangered (species)
TGA	Taylor Grazing Act of 1934
TMDL	Total Maximum Daily Load
TNC	The Nature Conservancy
US	United States
USC	United States Code
USDA	United States Department of Agriculture
USDI	United States Department of the Interior
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VRM	Visual Resource Management
WARS	Water Availability Resource System
WSR	Wild and Scenic River
WRCC	Western Region Climate Center
WSA	Wilderness Study Areas
WSRA	Wild and Scenic Rivers Act

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APPENDIX J STANDARDS FOR RANGELAND HEALTH

AND

GUIDELINES FOR LIVESTOCK GRAZING MANAGEMENT

FOR

PUBLIC LANDS ADMINISTERED BY THE BUREAU OF LAND MANAGEMENT IN THE STATES OF OREGON AND WASHINGTON

AUGUST 12, 1997

Table of Contents

Introduction	1
Fundamentals of Rangeland Health	1
Standards for Rangeland Health	2
Standards and Guidelines in Relation to the Planning Process	3
Indicators of Rangeland Health	4
Assessments and Monitoring	5
Measurability	5
Implementation	6
Standards for Rangeland Health Standard 1 Watershed Function – Uplands Standard 2 Watershed Function - Riparian/Wetland Areas Standard 3 Ecological Processes Standard 4 Water Quality Standard 5 Native, T&E, and Locally Important Species	7 7 9 11 13 14
Guidelines for Livestock Grazing Management General Guidelines Livestock Grazing Management Facilitating the Management of Livestock Grazing Accelerating Rangeland Recovery	15 15 15 17 17
Glossary	19

Standards for Rangeland Health and Guidelines for Livestock Grazing Management for Public Lands in Oregon and Washington

Introduction

These Standards for Rangeland Health and Guidelines for Livestock Grazing Management for Public Lands in Oregon and Washington were developed in consultation with Resource Advisory Councils and Provincial Advisory Committees, tribes and others. These standards and guidelines meet the requirements and intent of 43 Code of Federal Regulations, Subpart 4180 (Rangeland Health) and are to be used as presented, in their entirety. These standards and guidelines are intended to provide a clear statement of agency policy and direction for those who use public lands for livestock grazing, and for those who are responsible for their management and accountable for their condition. Nothing in this document should be interpreted as an abrogation of Federal trust responsibilities in protection of treaty rights of Indian tribes or any other statutory responsibilities including, but not limited to, the Taylor Grazing Act, the Clean Water Act, and the Endangered Species Act.

Fundamentals of Rangeland Health

The objectives of the rangeland health regulations referred to above are: "to promote healthy sustainable rangeland ecosystems; to accelerate restoration and improvement of public rangelands to properly functioning conditions; . . . and to provide for the sustainability of the western livestock industry and communities that are dependent upon productive, healthy public rangelands."

To help meet these objectives, the regulations on rangeland health identify fundamental principles providing direction to the States, districts, and on-the-ground public land managers and users in the management and use of rangeland ecosystems.

A hierarchy, or order, of ecological function and process exists within each ecosystem. The rangeland ecosystem consists of four primary, interactive components: a physical component, a biological component, a social component, and an economic component. This perspective implies that the physical function of an ecosystem supports the biological health, diversity and productivity of that system. In turn, the interaction of the physical and biological components of the ecosystem provides the basic needs of society and supports economic use and potential.

The Fundamentals of Rangeland Health stated in 43 CFR 4180 are:

- 1. Watersheds are in, or are making significant progress toward, properly functioning physical condition, including their upland, riparian-wetland, and aquatic components; soil and plant conditions support infiltration, soil moisture storage and the release of water that are in balance with climate and landform and maintain or improve water quality, water quantity and the timing and duration of flow.
- 2. Ecological processes, including the hydrologic cycle, nutrient cycle and energy flow, are maintained, or there is significant progress toward their attainment, in order to support healthy biotic populations and communities.
- 3. Water quality complies with State water quality standards and achieves, or is making significant progress toward achieving, established Bureau of Land Management objectives such as meeting wildlife needs.

4. Habitats are, or are making significant progress toward being, restored or maintained for Federal threatened and endangered species, Federal Proposed, Category 1 and 2 Federal candidate and other special status species.

The fundamentals of rangeland health combine the basic precepts of physical function and biological health with elements of law relating to water quality, and plant and animal populations and communities. They provide direction in the development and implementation of the standards for rangeland health.

Standards for Rangeland Health

The standards for rangeland health (standards), based on the above fundamentals, are expressions of the physical and biological condition or degree of function necessary to sustain healthy rangeland ecosystems. Although the focus of these standards is on domestic livestock grazing on Bureau of Land Management lands, on-the-ground decisions must consider the effects and impacts of all uses.

Standards that address the physical components of rangeland ecosystems focus on the roles and interactions of geology and landform, soil, climate and water as they govern watershed function and soil stability. The biological components addressed in the standards focus on the roles and interactions of plants, animals and microbes (producers, consumers and decomposers), and their habitats in the ecosystem. The biological component of rangeland ecosystems is supported by physical function of the system, and it is recognized that biological activity also influences and supports many of the ecosystem's physical functions.

Guidance contained in 43 CFR 4180 of the regulations directs management toward the maintenance or restoration of the physical function and biological health of rangeland ecosystems. Focusing on the basic ecological health and function of rangelands is expected to provide for the maintenance, enhancement, or creation of future social and economic options.

The standards are based upon the ecological potential and capability of each site. In assessing a site's condition or degree of function, it must be understood that the evaluation compares each site to its own potential or capability. Potential and capability are defined as follows:

Potential-The highest level of condition or degree of function a site can attain given no political, social or economic constraints.

Capability-The highest level of condition or degree of function a site can attain given certain political, social or economic constraints. For example, these constraints might include riparian areas permanently occupied by a highway or railroad bed that prevent the stream's full access to its original flood plain. If such constraints are removed, the site may be able to move toward its potential.

In designing and implementing management strategies to meet the standards of rangeland health, the potential of the site must be identified, and any constraints recognized, in order that plan goals and objectives are realistic and physically and economically achievable.

Standards and Guidelines in Relation to the Planning Process

The standards apply to the goals of land use plans, activity plans, and project plans (Allotment Management Plans, Annual Operating Plans, Habitat Management Plans, etc.). They establish the physical and biological conditions or degree of function toward which management of publicly-owned rangeland is to be directed. In the development of a plan, direction provided by the standards and the social and economic needs expressed by local communities and individuals are brought together in formulating the goal(s) of that plan.

When the standards and the social and economic goals of the planning participants are woven together in the plan goal(s), the quantifiable, time specific objective(s) of the plan are then developed. Objectives describe and

quantify the desired future conditions to be achieved within a specified timeframe. Each plan objective should address the physical, biological, social and economic elements identified in the plan goal.

Standards apply to all ecological sites and land forms on public rangelands throughout Oregon and Washington. The standards require site-specific information for full on-ground usability. For each standard, a set of indicators is identified for use in tailoring the standards to site-specific situations. These indicators are used for rangeland ecosystem assessments and monitoring and for developing terms and conditions for permits and leases that achieve the plan goal.

Guidelines for livestock grazing management offer guidance in achieving the plan goal and objectives. The guidelines outline practices, methods, techniques and considerations used to ensure that progress is achieved in a way, and at a rate, that meets the plan goal and objectives.

Indicators of Rangeland Health

The condition or degree of function of a site in relation to the standards and its trend toward or away from any standard is determined through the use of reliable and scientifically sound indicators. The consistent application of such indicators can provide an objective view of the condition and trend of a site when used by trained observers.

For example, the amount and distribution of ground cover can be used to indicate that infiltration at the soil surface can take place as described in the standard relating to upland watershed function. In applying this indicator, the specific levels of plant cover necessary to support infiltration in a particular soil should be identified using currently available information from reference areas, if they exist; from technical sources like soil survey reports, Ecological Site Inventories, and Ecological Site Descriptions, or from other existing reference materials. Reference areas are lands that best represent the potential of a specific ecological site in both physical function and biological health. In many instances potential reference areas are identified in Ecological Site Descriptions and are referred to as "type locations." In the absence of suitable reference areas, the selection of indicators to be used in measuring or judging condition or function should be made by an interdisciplinary team of experienced professionals and other trained individuals.

Not all indicators identified for each standard are expected to be employed in every situation. Criteria for selecting appropriate indicators and methods of measurement and observation include, but are not limited to: 1. the relationship between the attribute(s) being measured or observed and the desired outcome; 2. the relationship between the activity (e.g., livestock grazing) and the attribute(s) being measured or observations.

Assessments and Monitoring

The standards are the basis for assessing and monitoring rangeland condition and trend. Carrying out welldesigned assessment and monitoring is critical to restoring or maintaining healthy rangelands and determining trends and conditions.

Assessments are a cursory form of evaluation based on the standards that can be used at different landscape scales. Assessments, conducted by qualified interdisciplinary teams (which may include but are not limited to physical, biological and social specialists, and interagency personnel) with participation from permittees and other interested parties, are appropriate at the watershed and sub-watershed levels, at the allotment and pasture levels and on individual ecological sites or groups of sites. Assessments identify the condition or degree of function within the rangeland ecosystem and indicate resource problems and issues that should be monitored or studied in more detail. The results of assessments are a valuable tool for managers in assigning priorities within an administrative area and the subsequent allocation of personnel, money and time in resource monitoring and treatment. The results of assessments may also be used in making management decisions where an obvious problem exists.

Monitoring, which is the well documented and orderly collection, analysis and interpretation of resource data, serves as the basis for determining trends in the condition or degree of function of rangeland resources and for making management decisions. Monitoring should be designed and carried out to identify trends in resource conditions, to point out resource problems, to help indicate the cause of such problems, to point out solutions, and/or to contribute to adaptive management decisions. In cases where monitoring data do not exist, professional judgement, supported by interdisciplinary team recommendation, may be relied upon by the authorized officer in order to take necessary action. Review and evaluation of new information must be an ongoing activity.

To be effective, monitoring must be consistent over time, throughout administrative areas, and in the methods of measurement and observation of selected indicators. Those doing the monitoring must have the knowledge and skill required by the level or intensity of the monitoring being done, as well as the experience to properly interpret the results. Technical support for training must be made available.

Measurability

It is recognized that not every area will immediately meet the standards and that it will sometimes be a long-term process to restore some rangelands to properly functioning condition. It is intended that in cases where standards are not being met, measurable progress should be made toward achieving those standards, and significant progress should be made toward fulfilling the fundamentals of rangeland health. Measurability is defined on a case-specific basis based upon the stated planning objectives (i.e., quantifiable, time specific), taking into account economic and social goals along with the biological and ecological capability of the area. To the extent that a rate of recovery conforms with the planning objectives, the area is allowed the time to meet the standard under the selected management regime.

Implementation

The material contained in this document will be incorporated into existing Land Use Plans and used in the development of new Land Use Plans. According to 43 CFR 4130.3-1, permits and leases shall incorporate terms and conditions that ensure conformance with 43 CFR 4180. Terms and conditions of existing permits and leases will be modified to reflect standards and guidelines at the earliest possible date with priority for modification being at the discretion of the authorized officer. Terms and conditions of new permits and leases will reflect standards and guidelines in their development.

Indicators identified in this document will serve as a focus of interpretation of existing monitoring data and will provide the basis of design for monitoring and assessment techniques, and in the development of monitoring and assessment plans.

The authorized officer shall take appropriate action as soon as practicable but not later than the start of the next grazing year upon determining, through assessment or monitoring by experienced professionals and interdisciplinary teams, that a standard is not being achieved and that livestock are a significant contributing factor to the failure to achieve the standards and conform with the guidelines.

Standards for Rangeland Health

Standard 1 Watershed Function – Uplands

Upland soils exhibit infiltration and permeability rates, moisture storage and stability that are appropriate to soil, climate and landform.

Rationale and Intent

This standard focuses on the basic physical functions of upland soils that support plant growth, the maintenance or development of plant populations and communities, and promote dependable flows of quality water from the watershed.

To achieve and sustain rangeland health, watersheds must function properly. Watersheds consist of three principle components: the uplands, riparian/wetland areas and the aquatic zone. This standard addresses the upland component of the watershed. When functioning properly, within its potential, a watershed captures, stores and safely releases the moisture associated with normal precipitation events (equal to or less than the 25 year, 5 hour event) that falls within its boundaries. Uplands make up the largest part of the watershed and are where most of the moisture received during precipitation events is captured and stored.

While all watersheds consist of similar components and processes, each is unique in its individual makeup. Each watershed displays its own pattern of landform and soil, its unique climate and weather patterns, and its own history of use and current condition. In directing management toward achieving this standard, it is essential to treat each unit of the landscape (soil, ecological site, and watershed) according to its own capability and how it fits with both smaller and larger units of the landscape.

A set of potential indicators has been identified for which site-specific criteria will be used to determine if this standard is being met. The appropriate indicators to be used in determining attainment of the standard should be drawn from the following list.

Potential Indicators

Protection of the soil surface from raindrop impact; detention of overland flow; maintenance of infiltration and permeability, and protection of the soil surface from erosion, consistent with the potential/capability of the site, as evidenced by the:

- amount and distribution of plant cover (including forest canopy cover);
- amount and distribution of plant litter;
- accumulation/incorporation of organic matter;
- amount and distribution of bare ground;
- amount and distribution of rock, stone, and gravel;
- plant composition and community structure;
- thickness and continuity of A horizon;
- character of microrelief;
- · presence and integrity of biotic crusts;
- root occupancy of the soil profile;
- biological activity (plant, animal, and insect); and
- absence of accelerated erosion and overland flow.

Soil and plant conditions promote moisture storage as evidenced by:

- amount and distribution of plant cover (including forest canopy cover);
- amount and distribution of plant litter;
- plant composition and community structure; and
- accumulation/incorporation of organic matter.

Standard 2 Watershed Function - Riparian/Wetland Areas

Riparian-wetland areas are in properly functioning physical condition appropriate to soil, climate, and landform.

Rationale and Intent

Riparian-wetland areas are grouped into two major categories: 1. lentic, or standing water systems such as lakes, ponds, seeps, bogs, and meadows; and 2. lotic, or moving water systems such as rivers, streams, and springs. Wetlands are areas that are inundated or saturated by surface or ground water at a frequency and duration to support, and which under normal circumstances do support, a prevalence of vegetation typically adapted to life in saturated soil conditions. Riparian areas commonly occupy the transition zone between the uplands and surface water bodies (the aquatic zone) or permanently saturated wetlands.

Properly functioning condition of riparian and wetland areas describes the degree of physical function of these components of the watershed. Their functionality is important to water quality in the capture and retention of sediment and debris, the detention and detoxification of pollutants, and in moderating seasonal extremes of water temperature. Properly functioning riparian areas and wetlands enhance the timing and duration of streamflow through dissipation of flood energy, improved bank storage, and ground water recharge. Properly functioning condition should not be confused with the Desired Plant Community (DPC) or the Desired Future Condition (DFC) since, in most cases, it is the precursor to these levels of resource condition and is required for their attainment.

A set of indicators has been identified for which site-specific criteria will be used to determine if this standard is being met. The criteria are based upon the potential (or upon the capability where potential cannot be achieved) of individual sites or land forms.

Potential Indicators

Hydrologic, vegetative, and erosional/depositional processes interact in supporting physical function, consistent with the potential or capability of the site, as evidenced by:

- frequency of floodplain/wetland inundation;
- plant composition, age class distribution, and community structure;
- root mass;
- point bars revegetating;
- streambank/shoreline stability;
- riparian area width;
- sediment deposition;
- active/stable beaver dams;
- coarse/large woody debris;
- upland watershed conditions;
- · frequency/duration of soil saturation; and
- water table fluctuation.

Stream channel characteristics are appropriate for landscape position as evidenced by:

- channel width/depth ratio;
- channel sinuosity;
- gradient;
- · rocks and coarse and/or large woody debris;
- overhanging banks;
- pool/riffle ratio;
- · pool size and frequency; and
- stream embeddedness.

Standard 3 Ecological Processes

Healthy, productive and diverse plant and animal populations and communities appropriate to soil, climate and landform are supported by ecological processes of nutrient cycling, energy flow and the hydrologic cycle.

Rationale and Intent

This standard addresses the ecological processes of energy flow and nutrient cycling as influenced by existing and desired plant and animal communities without establishing the kinds, amounts or proportions of plant and animal community compositions. While emphasis may be on native species, an ecological site may be capable of supporting a number of different native and introduced plant and animal populations and communities while meeting this standard. This standard also addresses the hydrologic cycle which is essential for plant growth and appropriate levels of energy flow and nutrient cycling. Standards 1 and 2 address the watershed aspects of the hydrologic cycle.

With few exceptions, all life on earth is supported by the energy supplied by the sun and captured by plants in the process of photosynthesis. This energy enters the food chain when plants are consumed by insects and herbivores and passes upward through the food chain to the carnivores. Eventually, the energy reaches the decomposers and is released as the thermal output of decomposition or through oxidation.

The ability of plants to capture sunlight energy, to grow and develop, to play a role in soil development and watershed function, to provide habitat for wildlife and to support economic uses depends on the availability of nutrients and moisture. Nutrients necessary for plant growth are made available to plants through the decomposition and metabolization of organic matter by insects, bacteria and fungi, the weathering of rocks and extraction from the atmosphere. Nutrients are transported through the soil by plant uptake, leaching and by rodent, insect and microbial activity. They follow cyclical patterns as they are used and reused by living organisms.

The ability of rangelands to supply resources and satisfy social and economic needs depends on the buildup and cycling of nutrients over time. Interrupting or slowing nutrient cycling can lead to site degradation, as these lands become increasingly deficient in the nutrients plants require.

Some plant communities, because of past use, frequent fire or other histories of extreme or continued disturbance, are incapable of meeting this standard. For example, shallow-rooted winter-annual grasses that completely dominate some sites do not fully occupy the potential rooting depth of some soils, thereby reducing nutrient cycling well below optimum levels. In addition, these plants have a relatively short growth period and thus capture less sunlight than more diverse plant communities. Plant communities like those cited in this example are considered to have crossed the threshold of recovery and often require great expense to be recovered. The cost of recovery must be weighed against the site's potential ecological/economic value in establishing treatment priorities.

The role of fire in natural ecosystems should be considered, whether it acts as a primary driver or only as one of many factors. It may play a significant role in both nutrient cycling and energy flows.

A set of indicators has been identified for which site-specific criteria will be used to determine if this standard is being met.

Potential Indicators

Photosynthesis is effectively occurring throughout the potential growing season, consistent with the potential/ capability of the site, as evidenced by plant composition and community structure.

Nutrient cycling is occurring effectively, consistent with the potential/capability of the site, as evidenced by:

- plant composition and community structure;
- accumulation, distribution, incorporation of plant litter and organic matter into the soil;

- animal community structure and composition;
- root occupancy in the soil profile; and
 biological activity including plant growth, herbivory, and rodent, insect and microbial activity.

Standard 4 Water Quality

Surface water and groundwater quality, influenced by agency actions, complies with State water quality standards.

Rationale and Intent

The quality of the water yielded by a watershed is determined by the physical and chemical properties of the geology and soils unique to the watershed, the prevailing climate and weather patterns, current resource conditions, the uses to which the land is put and the quality of the management of those uses. Standards 1, 2 and 3 contribute to attaining this standard.

States are legally required to establish water quality standards and Federal land management agencies are to comply with those standards. In mixed ownership watersheds, agencies, like any other land owners, have limited influence on the quality of the water yielded by the watershed. The actions taken by the agency will contribute to meeting State water quality standards during the period that water crosses agency administered holdings.

Potential Indicators

Water quality meets applicable water quality standards as evidenced by:

- water temperature;
- dissolved oxygen;
- fecal coliform;
- turbidity;
- pH;
- populations of aquatic organisms; and
- effects on beneficial uses (i.e., effects of management activities on beneficial uses as defined under the Clean Water Act and State implementing regulations).

Standard 5 Native, T&E, and Locally Important Species

Habitats support healthy, productive and diverse populations and communities of native plants and animals (including special status species and species of local importance) appropriate to soil, climate and landform.

Rationale and Intent

Federal agencies are mandated to protect threatened and endangered species and will take appropriate action to avoid the listing of any species. This standard focuses on retaining and restoring native plant and animal (including fish) species, populations and communities (including threatened, endangered and other special status species and species of local importance). In meeting the standard, native plant communities and animal habitats would be spatially distributed across the landscape with a density and frequency of species suitable to ensure reproductive capability and sustainability. Plant populations and communities would exhibit a range of age classes necessary to sustain recruitment and mortality fluctuations.

Potential Indicators

Essential habitat elements for species, populations and communities are present and available, consistent with the potential/capability of the landscape, as evidenced by:

- plant community composition, age class distribution, productivity;
- animal community composition, productivity;
- habitat elements;
- spatial distribution of habitat;
- · habitat connectivity; and
- population stability/resilience.

Guidelines for Livestock Grazing Management

Guidelines for livestock grazing management offer guidance in achieving plan goals, meeting standards for rangeland health and fulfilling the fundamentals of rangeland health. Guidelines are applied in accordance with the capabilities of the resource in consultation, cooperation, and coordination with permittees/lessees and the interested public. Guidelines enable managers to adjust grazing management on public lands to meet current and anticipated climatic and biological conditions.

General Guidelines

- 1. Involve diverse interests in rangeland assessment, planning and monitoring.
- 2. Assessment and monitoring are essential to the management of rangelands, especially in areas where resource problems exist or issues arise. Monitoring should proceed using a qualitative method of assessment to identify critical, site-specific problems or issues using interdisciplinary teams of specialists, managers, and knowledgeable land users.

Once identified, critical, site-specific problems or issues should be targeted for more intensive, quantitative monitoring or investigation. Priority for monitoring and treatment should be given to those areas that are ecologically at-risk where benefits can be maximized given existing budgets and other resources.

Livestock Grazing Management

- 1. The season, timing, frequency, duration and intensity of livestock grazing use should be based on the physical and biological characteristics of the site and the management unit in order to:
 - a. provide adequate cover (live plants, plant litter and residue) to promote infiltration, conserve soil moisture and to maintain soil stability in upland areas;
 - b. provide adequate cover and plant community structure to promote streambank stability, debris and sediment capture, and floodwater energy dissipation in riparian areas.
 - c. promote soil surface conditions that support infiltration;
 - d. avoid sub-surface soil compaction that retards the movement of water in the soil profile;
 - e. help prevent the increase and spread of noxious weeds;
 - f. maintain or restore diverse plant populations and communities that fully occupy the potential rooting volume of the soil;
 - g. maintain or restore plant communities to promote photosynthesis throughout the potential growing season;
 - h. promote soil and site conditions that provide the opportunity for the establishment of desirable plants;
 - I. protect or restore water quality; and
 - j. provide for the life cycle requirements, and maintain or restore the habitat elements of native (including T&E, special status, and locally important species) and desired plants and animals.

- 2. Grazing management plans should be tailored to site-specific conditions and plan objectives. Livestock grazing should be coordinated with the timing of precipitation, plant growth and plant form. Soil moisture, plant growth stage and the timing of peak stream flows are key factors in determining when to graze. Response to different grazing strategies varies with differing ecological sites.
- 3. Grazing management systems should consider nutritional and herd health requirements of the livestock.
- 4. Integrate grazing management systems into the year-round management strategy and resources of the permittee(s) or lessee(s). Consider the use of collaborative approaches (e.g., Coordinated Resource Management, Working Groups) in this integration.
- 5. Consider competition for forage and browse among livestock, big game animals, and wild horses in designing and implementing a grazing plan.
- 6. Provide periodic rest from grazing for rangeland vegetation during critical growth periods to promote plant vigor, reproduction and productivity.
- 7. Range improvement practices should be prioritized to promote rehabilitation and resolve grazing concerns on transitory grazing land.
- 8. Consider the potential for conflict between grazing use on public land and adjoining land uses in the design and implementation of a grazing management plan.

Facilitating the Management of Livestock Grazing

- 1. The use of practices to facilitate the implementation of grazing systems should consider the kind and class of animals managed, indigenous wildlife, wild horses, the terrain and the availability of water. Practices such as fencing, herding, water development, and the placement of salt and supplements (where authorized) are used where appropriate to:
 - a. promote livestock distribution;
 - b. encourage a uniform level of proper grazing use throughout the grazing unit;
 - c. avoid unwanted or damaging concentrations of livestock on streambanks, in riparian areas and other sensitive areas such as highly erodible soils, unique wildlife habitats and plant communities; and
 - d. protect water quality.
- 2. Roads and trails used to facilitate livestock grazing are constructed and maintained in a manner that minimizes the effects on landscape hydrology; concentration of overland flow, erosion and sediment transport are prevented; and subsurface flows are retained.

Accelerating Rangeland Recovery

- 1. Upland treatments that alter the vegetative composition of a site, like prescribed burning, juniper management and seedings or plantings must be based on the potential of the site and should:
 - a. retain or promote infiltration, permeability, and soil moisture storage;
 - b. contribute to nutrient cycling and energy flow;
 - c. protect water quality;

- d. help prevent the increase and spread of noxious weeds;
- e. contribute to the diversity of plant communities, and plant community composition and structure;
- f. support the conservation of T&E, other special status species and species of local importance; and
- g. be followed up with grazing management and other treatments that extend the life of the treatment and address the cause of the original treatment need.
- 2. Seedings and plantings of non-native vegetation should only be used in those cases where native species are not available in sufficient quantities; where native species are incapable of maintaining or achieving the standards; or where non-native species are essential to the functional integrity of the site.
- 3. Structural and vegetative treatments and animal introductions in riparian and wetland areas must be compatible with the capability of the site, including the system's hydrologic regime, and contribute to the maintenance or restoration of properly functioning condition.

Glossary

Appropriate action-implementing actions pursuant to subparts 4110, 4120, 4130 and 4160 of the regulations that will result in significant progress toward fulfillment of the standards and significant progress toward conformance with the guidelines. (see **Significant progress**)

Assessment-a form of evaluation based on the standards of rangeland health, conducted by an interdisciplinary team at the appropriate landscape scale (pasture, allotment, sub-watershed, watershed, etc.) to determine conditions relative to standards.

Compaction layer-a layer within the soil profile in which the soil particles have been rearranged to decrease void space, thereby increasing soil bulk density and often reducing permeability.

Crust, Abiotic-(physical crust) a surface layer on soils, ranging in thickness from a few millimeters to a few centimeters, that is much more compact, hard and brittle, when dry, than the material immediately beneath it.

Crust, Biotic-(microbiotic or cryptogamic crust) a layer of living organisms (mosses, lichens, liverworts, algae, fungi, bacteria, and/or cyanobacteria) occurring on, or near the soil surface.

Degree of function-a level of physical function relative to properly functioning condition commonly expressed as: properly functioning, functioning-at-risk, or non-functional.

Diversity-the aggregate of species assemblages (communities), individual species, and the genetic variation within species and the processes by which these components interact within and among themselves. The elements of diversity are: 1. community diversity (habitat, ecosystem), 2. species diversity; and 3. genetic diversity within a species; all three of which change over time.

Energy flow-the processes in which solar energy is converted to chemical energy through photosynthesis and passed through the food chain until it is eventually dispersed through respiration and decomposition.

Ground water-water in the ground that is in the zone of saturation; water in the ground that exists at, or below the water table.

Guideline-practices, methods, techniques and considerations used to ensure that progress is made in a way and at a rate that achieves the standard(s).

Gully-a channel resulting from erosion and caused by the concentrated but intermittent flow of water usually during and immediately following heavy rains.

Hydrologic cycle-the process in which water enters the atmosphere through evaporation, transpiration, or sublimation from the oceans, other surface water bodies, or from the land and vegetation, and through condensation and precipitation returns to the earth's surface. The precipitation then occurring as overland flow, stream flow, or percolating underground flow to the oceans or other surface water bodies or to other sites of evapo-transpiration and recirculation to the atmosphere.

Indicators-parameters of ecosystem function that are observed, assessed, measured, or monitored to directly or indirectly determine attainment of a standard(s).

Infiltration-the downward entry of water into the soil.

Infiltration rate-the rate at which water enters the soil.

Nutrient cycling-the movement of essential elements and inorganic compounds between the reservoir pool (soil, for example) and the cycling pool (organisms) in the rapid exchange (i.e., moving back and forth) between organisms and their immediate environment.

Organic matter-plant and animal residues accumulated or deposited at the soil surface; the organic fraction of the soil that includes plant and animal residues at various stages of decomposition; cells and tissues of soil organisms, and the substances synthesized by the soil population.

Permeability-the ease with which gases, liquids or plant roots penetrate or pass through a bulk mass of soil or a layer of soil.

Properly functioning condition-Riparian-wetland: adequate vegetation, landform, or large (coarse) woody debris is present to dissipate stream energy associated with high water flows, thereby reducing erosion and improving water quality; filter sediment, capture bedload, and aid in flood plain development; improve flood-water retention and ground water recharge; develop root masses that stabilize streambanks against cutting action; develop diverse channel and ponding characteristics to provide the habitat and water depth, duration and temperature necessary for fish production, waterfowl breeding, and other uses; and support greater biodiversity. The result of interaction among geology, soil, water, and vegetation.

Uplands: soil and plant conditions support the physical processes of infiltration and moisture storage and promote soil stability (as appropriate to site potential); includes the production of plant cover and the accumulation of plant residue that protect the soil surface from raindrop impact, moderate soil temperature in minimizing frozen soil conditions (frequency, depth, and duration), and the loss of soil moisture to evaporation; root growth and development in the support of permeability and soil aeration. The result of interaction among geology, climate, landform, soil, and organisms.

Proper grazing use-grazing that, through the control of timing, frequency, intensity and duration of use, meets the physiological needs of the desirable vegetation, provides for the establishment of desirable plants and is in accord with the physical function and stability of soil and landform (properly functioning condition).

Reference area-sites that, because of their condition and degree of function, represent the ecological potential or capability of similar sites in an area or region (ecological province); serve as a benchmark in determining the ecological potential of sites with similar soil, climatic, and landscape characteristics.

Rill-a small, intermittent water course with steep sides; usually only a few inches deep.

Riparian area-a form of wetland transition between permanently saturated wetlands and upland areas. These areas exhibit vegetation or physical characteristics reflective of permanent surface or subsurface water influence. Lands along, adjacent to, or contiguous with perennially and intermittently flowing rivers and stream, glacial potholes, and shores of lakes and reservoirs with stable water levels area typical riparian areas. Excluded are such sites as ephemeral streams or washes that do not exhibit the presence of vegetation dependent upon free water in the soil. Includes, but is not limited to, jurisdictional wetlands.

Significant progress-when used in reference to achieving a standard: (actions), the necessary land treatments, practices and/or changes to management have been applied or are in effect; (rate), a rate of progress that is consistent with the anticipated recovery rate described in plan objectives, with due recognition of the effects of climatic extremes (drought, flooding, etc.), fire, and other unforeseen naturally occurring events or disturbances. Monitoring reference areas that are ungrazed and properly grazed may provide evidence of appropriate recovery rates. (See Proper Grazing Use)

Soil density-(bulk density)-the mass of dry soil per unit bulk volume.

Soil moisture-water contained in the soil; commonly used to describe water in the soil above the water table.

Special status species-species proposed for listing, officially listed (T/E), or candidates for listing as threatened or endangered by the Secretary of the Interior under the provisions of the Endangered Species Act; those listed or proposed for listing by the State in a category implying potential endangerment or extinction; those designated by each Bureau of Land Management State Director as sensitive.

Species of local importance-species of significant importance to Native American populations (e.g., medicinal and food plants).

Standard-an expression of the physical and biological condition or degree of function necessary to sustain healthy rangeland ecosystems.

Uplands-lands that exist above the riparian/wetland area, or active flood plains of rivers and streams; those lands not influenced by the water table or by free or unbound water; commonly represented by toe slopes, alluvial fans, and side slopes, shoulders and ridges of mountains and hills.

Watershed-an area of land that contributes to the surface flow of water past a given point. The watershed dimensions are determined by the point past, or through which, runoff flows.

Watershed function-the principal functions of a watershed include the capture of moisture contributed by precipitation; the storage of moisture within the soil profile, and the release of moisture through subsurface flow, deep percolation to groundwater, evaporation from the soil, and transpiration by live vegetation.

Wetland-areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and which under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

Appendix K Limits of Acceptable Change

Limits of Acceptable Change (LAC) is a process for establishing acceptable and appropriate resource and social conditions in recreation settings. LAC is based on the premise that change to the ecological and social conditions of an area will occur as a result of natural and human factors. The goal of management is to keep the character and the rate of change due to human factors within acceptable levels and consistent with desired future conditions. The primary emphasis of the LAC system is on the conditions desired rather than on how much use an area can tolerate. The management challenge is not one of how to prevent any human-induced change, but rather one of deciding what change should occur, how much change will be allowed, what management actions are needed to guide and control it, and how the managing agencies will know when the established limits are being or have been reached.

In managing the John Day River, the LAC process is designed to be the foundation for the long-term protection and enhancement of the desired future conditions for recreation that have been identified in this plan. For the most part, the desired future condition for John Day River segments identified by this plan strives to maintain the existing character of the river canyon, to preserve the existing condition of campsites and recreation sites where found to be acceptable, and to rest or close areas where conditions are found to be unacceptable.

As used on the John Day River, the LAC process involves two parts completed concurrently, which have already begun and would be continued under any alternative. The first part, involves extensive data collection on current resource and social conditions, and determining what change is acceptable while maintaining desired future conditions. Key indicators would be selected which allow future tracking of the physical or social conditions (i.e. vegetation loss within campsites, number of encounters per day with other groups). For each indicator a standard or threshold level would be set, which determines the amount of change that will be accepted. The standards then serve as "triggers" which alert managing agencies to unacceptable change.

The second part of the process involves developing a set of strategies and a range of management actions which may be implemented if and when continued monitoring of conditions indicate that one or more of the "triggers" has been or is about to be reached, resulting in a level of change that is unacceptable. A list of potential management actions designed to reverse or prevent unacceptable trends would be determined in advance, so as to be ready for implementation if and when continued monitoring efforts indicate they are needed. When needed, managers may then select the management actions of actions likely to bring that indicator back within acceptable levels. Management actions previously implemented to protect resource and social conditions such as group size limits and porta-potty and firepan requirements, would be continued unless modified as a result of the LAC process.

In spring of 1999, extensive data collection was begun on the current physical condition of campsites in Segments 2 and 3. For the next two years, the condition of these sites will continue to be monitored before and after each boating season, and social surveys will be conducted to collect social preference data. Simultaneous with review of the data collected, strategies for dealing with potential unacceptable conditions would be developed. Examples of potential management actions which may be considered for use on the John Day if and when LAC determines they are needed include but are not limited to staggered launch times, temporary campsite closure, a campsite reservation system, reduction in allowable party size, limitations on the number of watercraft per group, and boating use limits. If resource and social conditions will be ready for potential implementation in the future. The LAC process may be initiated on other river segments if future resource and social conditions become a concern, and the monitoring data collected through LAC may be used in the management of other resources.

Appendix L Allotment Summaries

The Central Oregon Field Office of the Prineville District administers 119 allotments which contain public lands which lie within either the Wild and Scenic River boundaries or within 1/4 mile of the river of the non-designated segments. This appendix summarizes the river related management and monitoring of each allotment as well as what actions would be required to implement the four alternatives on each allotment.

The allotment category is the result of a prioritization process which occurred during the Resource Management Planning process and was reviewed during the allotment evaluation process. The three categories are improve (I), which designates those allotments which contain the highest public land resource values, maintain (M) and custodial (C) which designates those allotments which contain the least public land resource values.

Miles of river bank, acres within the Wild and Scenic River boundaries and total acreage within the allotment are presented for use in determining the highest priority allotments.

Riparian management in 1988 shows an approximation of the what grazing management in place existed at the time of designation.

NEPA documents refers to those documents prepared specifically to alter the grazing management on the allotment following designation of portions of the river.

Riparian management in 1999 shows the grazing regime which occurred in 1999 on a river bank mile basis.

Monitoring studies are included if they are on the river bank (riparian monitoring) or in a pasture which lies wholly or partially within either the Wild and Scenic River boundaries or within 1/4 mile of the river on non-designated segments of the John Day River.

Ecological Status was measured using the Soil Vegetation Inventory Method. The inventory took place in the late 1970s, the report was completed in 1980 (see discussion of Condition and Trend under Vegetation in Chapter 2). While most of the public lands covered under the Two Rivers RMP (Prineville District) were inventoried. Public lands in Grant County were administered by the Burns District of the BLM in the mid 1980s; few of those public lands were inventoried.

2617 Emigrant Canyon

Location: Category: AUMs within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents	Segment 1 M 26 private private Season long segment) ex none	7.2 323 5130 J, 3.0 rm	public public public	0.6 215
Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:	same as abo none	23 Sept cres 54 acres acres 327 acre	s	t re-measured.
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size ormally to	1 on pa use wou e and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be s during the December 15 to
No Riparian Grazing miles of fence acres excluded other actions	private private	2.8 34	public public	
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private private 10	0.6 300	public public	

Location: Category: AUMs within lease:	Segment 1 M 64	River M	Ailes 9.5	5 - 11.0		
Miles of river bank	private	1.5	public	0.0		
Acres within WSR boundaries	private	155	public			
Acres within allotment	private	2677	public	942		
Riparian management in 1988	winter and spring, area subject to trespass grazing during lov					
NEPA documents	none					
Riparian management in 1999	same as above					
Riparian monitoring	none					
Upland monitoring	Trend plot (3x3 photoplot) established in 1987 and remeasured in 1990. Monitoring shows an increase in perennial bunchgrass.					
Ecological Status as measured in 1980:	climax: 0 acr late seral: 19 mid seral: 18 early seral: 6 unclassified:)3 acres 34 acres 608 acre	S			
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size rmally to	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be s during the December 15 to		
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)		
No Grazing: miles of fence	private	0.0	public	0.7		
acres excluded public land AUMs canceled Other actions	private 1	0	public	40		

Location: Category: AUMs within lease:	Segment 1 I 16	River M	liles 13	.4 - 15.8 and 17.2 - 18.4
Acres within WSR boundaries Acres within WSR boundaries Acres within allotment	private private private	2.9 308 1201	public public public	243
Riparian management in 1988 NEPA documents	spring and s 96-009	ummer		
Riparian management in 1999		or river fe		ee. NEPA analysis has been nd rotation grazing, decision has
Riparian monitoring Upland monitoring	Photo point at river mile 15 established in 1998. Upland trend (Daubenmire) established in 1987 and remeasured in 1992 and 1998. Grazing has occurred regularly through the critical growing season, monitoring shows an increase in <i>Gutierrezia sarothrae</i> . Upland trend (Daubenmire) established in 1987 and remeasured in 1993. Same grazing as above, monitoring shows an increase in <i>Stipa comata</i> .			
Ecological Status as measured in 1980:	climax: 43 ac late seral: 18 mid seral: 16 early seral: 1 unclassified:	33 acres 54 acres 150 acre		
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized o herd size rmally to	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be s during the December 15 to
No Riparian Grazing miles of fence acres excluded other actions	private private	2.9 35	public public	
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private private 13	0.0 40	public public	

2594 Morehouse and Elliot

Interiouse and Emol					
Location: Category:	Segment 1 M	River I	Miles 15	.8 - 17.2	
AUMs within lease:	3				
Miles of river bank	private	0.4	public	1.0	
Acres within WSR boundaries	private	109	public	62	
Acres within allotment	private	169	public	65	
Riparian management in 1988 NEPA documents	spring and s 96-009	summer.	·		
Riparian management in 1999				tee. NEPA analysis has been llotment, decision has not been	
Riparian monitoring	in 1992 and	1998. l	Jnder sp	established in 1987, re-measured bring and summer grazing, a an increase in thistle and	
	possibly a w	/idening	of the flo	ood plain has occurred.	
Upland monitoring	remeasured monitoring s	in 1992 shows a	and 199 loss of p	stablished in 1987 and 98. Spring and summer grazing, perennial bunchgrass and an	
Feelerical Status on management in 1000.	increase in climax: 5 ac		zia saroi	nrae.	
Ecological Status as measured in 1980:	late seral: 2 mid seral: 2 early seral:	2 acres 0 acres	5		
	unclassified				
Restricted grazing, necessary actions:				razing period within the dates of	
				stures with access to riverbank.	
				Ild be determined by plant	
	phenology, herd size and available forage, but would be				
	restricted normally to 60 days during the December 15 to May 1 period.				
No Riparian Grazing miles of fence	private	0.4	public	1.0	
acres excluded	private	5.4	public	12	
other actions	pinato	U	public	12	
No Grazing: miles of fence	private	0.5	public	0.3	
acres excluded	private	200	public		
public land AUMs cancelled Other actions	3				

ag				
Location:	Segment 1 River Miles 16.0 - 17.2			
Category:	not available			
AUMs within lease:	not available	;		
Miles of river bank	private	0.3	public	0.9
Acres within WSR boundaries	private	118	public	213
Acres within allotment	private	786	public	364
Riparian management in 1988 NEPA documents	unleased, grazed during low flows by trespass livestock none			
Riparian management in 1999	unleased, tre	espass r	esolved	
Riparian monitoring	none			
Upland monitoring	none			
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size rmally to	1 on pa use wou and av	razing period within the dates of astures with access to riverbank. Ild be determined by plant ailable forage, but would be s during the December 15 to
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private		public	
other actions				
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private		public	
public land AUMs canceled				
Other actions				

Dal 5				
Location: Category:	Segment 1	River N	Ailes 18	.4 - 18.9
AUMs within lease:	4			
Miles of river bank	private	0.0	public	0.9
Acres within WSR boundaries	private	0	public	115
Acres within allotment	private	1311	public	115
Riparian management in 1988		clusion,	season	long on 0.4 miles.
NEPA documents	96-009	aluaian	voluntor	
Riparian management in 1999	permittee. N grazing of up excluded wit	NEPA an plands a th fence	alysis ha Ind sprin , decisio	y winter or spring use by as been completed for rotation g grazing on riparian area not n not issued.
Riparian monitoring	remeasured	in 1989	, 1992 a	5 established in 1987 and nd 1998. Cattle were excluded 0s, monitoring shows no obvious
Upland monitoring	none			
Ecological Status as measured in 1980:	climax: 9 ac late seral: 39 mid seral: 39 early seral: 3 unclassified:	9 acres 5 acres 32 acres		
Restricted grazing, necessary actions:	grazing perio pastures wit would be de available for during the D	od withir h access termined age, but ecembe	n the dat s to river d by plar t would b er 15 to N	Adjust the lease to confine es of November 1 to June 1 on bank. Dates of authorized use the phenology, herd size and be restricted normally to 60 days May 1 period. Adjust lease to ads within riparian exclosure.
No Riparian Grazing miles of fence	private	0.0	public	0.4
acres excluded other actions	private	0	public	11
No Grazing: miles of fence	private	0.0	public	1.0
acres excluded	private	0	public	120
public land AUMs canceled Other actions	4			

Big Sky						
Location:	Segment 1 22.8	River N	Miles 17	.3 - 18.5, 18.9 - 20.4 and 18.9 -		
Category:	М					
AUMs within lease:	60					
Miles of river bank	private	5.4	public	1.2		
Acres within WSR boundaries	private	953	public	454		
Acres within allotment	private	8425	public	1215		
Riparian management in 1988	season long	l	•			
NEPA documents	93-067, 96-009					
Riparian management in 1999	exclusion of	0.5 mile	es of rive	r bank of public and 3.3 river		
	bank miles o	of private	e, volunt	ary winter or spring use by		
	permittee or	n 0.7 rive	er bank r	niles of public and 2.1 river bank		
	miles of priv	ate.				
Riparian monitoring				established in 1995 and		
				sure fence was constructed in		
				eased herbaceous vegetation.		
Upland monitoring				established in the Creek Pasture		
				1992 and 1998. Critical growing		
				oring shows a decrease in		
				992 and an increase in		
	Gutierrezia		e in 199	8.		
Ecological Status as measured in 1980:	climax: 63 a					
	late seral: 4					
	mid seral: 4					
	early seral: 2 unclassified					
	unclassifieu	. 40 aure	55			
Restricted grazing, necessary actions:	exclusion s	nrina wi	inter Ad	ljust the lease to confine grazing		
Restricted grazing, necessary deterior.				ovember 1 to June 1 on pastures		
	•			ates of authorized use would be		
				gy, herd size and available		
				ed normally to 60 days during the		
				d. Adjust lease to prohibit		
				n riparian exclosure.		
No Riparian Grazing miles of fence	private	2.1	public			
acres excluded	private	12	public	3		
other actions	-		-			
No Grazing: miles of fence	private	0.0	public	3.3		
acres excluded	private	580	public	680		
public land AUMs canceled	30					
Other actions						

2540 Persimmon Woods

Location: Category: AUMs within lease:	Segment 1 C 5	River M	viles 22	2.8 - 23.9
Miles of river bank	private	1.1	public	0.0
Acres within WSR boundaries	private	295	public	
Acres within allotment	private	2209	public	
Riparian management in 1988	•		•	flows by trespass livestock
NEPA documents	none	4204 40	ining ion	
Riparian management in 1999	unleased, tr	espass i	resolved	
Riparian monitoring	none			
Upland monitoring	none			
Ecological Status as measured in 1980:	climax: 3 ac	res		
..	late seral: 14	4 acres		
	mid seral: 12	2 acres		
	early seral:	11 acres	;	
	unclassified			
Restricted grazing, necessary actions:	same as exi	sting		
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private		public	
other actions				
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private		public	
public land AUMs canceled				
Other actions				

2637	V.O.	West
2001	v. O.	vv001

	0		1:1 00	4 00 4	
Location:	Segment 1	River IN	llies 20	.4 - 22.1	
Category:	M				
AUMs within lease:	15			0.0	
Miles of river bank	private	1.4	public		
Acres within WSR boundaries	private	183	public		
Acres within allotment	private	3150	public		
Riparian management in 1988	subject to gr			ne allotment with riparian areas ss livestock during low flows.	
NEPA documents	none				
Riparian management in 1999	exclusion or of public and			vate, winter grazing on 0.3 miles vate.	
Riparian monitoring	none				
Upland monitoring				nt) established in 1987 and	
				ig occurred every other winter, no	
	change was		5.		
Ecological Status as measured in 1980:	climax: 0 ac				
	late seral: 67 acres				
	mid seral: 23 acres				
	early seral: unclassified:				
	unclassified.	9 acres	5		
Restricted grazing, necessary actions:	exclusion, w	inter and	d spring.	Adjust the lease to confine	
				es of November 1 to June 1 on	
	pastures wit	h access	s to river	bank. Dates of authorized use	
	would be de	termined	d by plar	nt phenology, herd size and	
	available forage, but would be restricted normally to 60 da				
	during the December 15 to May 1 period. Adjust lease to				
	•			nds within riparian exclosure.	
No Riparian Grazing miles of fence	private	0.4	public		
acres excluded other actions	private	2	public	2	
No Grazing: miles of fence	private	0.0	public	0.5	
acres excluded	private	30	public		
public land AUMs canceled	12				
Other actions					

Location: Category: AUMs within lease:	Segment 1 I 53	River I	Viles 22	.1 - 26.6	
Miles of river bank	private	3.0	public		
Acres within WSR boundaries	private	82	public		
Acres within allotment Riparian management in 1988	private	996 vith som	public e trespa	ss grazing during low river flows.	
NEPA documents	none	viti 3011	e iiespa	ss grazing during low river nows.	
Riparian management in 1999	exclusion or	niles of _l	public ar	c and 1.6 miles of private, spring nd 1.4 miles of private, grazing ing season.	
Riparian monitoring		was est		on river mile 22 in 1987 and not	
Upland monitoring	Trend plot (3x3 Photo point) was established in 1987 and remeasured in 1992. Grazing occurred in the critical growir season, monitoring showed no obvious change. Trend plot (3x3 Photo point) was established in 1987 and remeasured in 1992. Grazing occurred in the critical growir season, monitoring showed a decrease in perennial bunchgrasses.				
Ecological Status as measured in 1980:	: climax: 0 acres late seral: 80 acres mid seral: 141 acres early seral: 581 acres unclassified: 31 acres				
Restricted grazing, necessary actions:	to confine g June 1 on p authorized u size and ava 60 days dur	razing p astures use woul ailable fo ing the [eriod wit with acc ld be det brage, bu Decembe	on public land. Adjust the lease hin the dates of November 1 to ess to riverbank. Dates of termined by plant phenology, herd at would be restricted normally to er 15 to May 1 period. Adjust public lands within riparian	
No Riparian Grazing miles of fence acres excluded other actions	private private	1.4 8	public public		
No Grazing: miles of fence	private	0.5	public	0.7	
acres excluded	private	100	public	440	
public land AUMs canceled Other actions	14				

Location: Category: AUMs within lease:	Segment 1 M 30	River N	/liles 23	.9 - 28.5	
Miles of river bank	private	3.0	public	1.6	
Acres within WSR boundaries	private	520	•	220	
Acres within allotment	private	3255	public	598	
Riparian management in 1988 NEPA documents	spring and e	early sun	nmer		
Riparian management in 1999	none exclusion of	1.2 mile	e of priv	ate land, spring and early	
Ripanan management in 1999	exclusion of 1.2 miles of private land, spring and early summer grazing on 1.2 miles of public and 0.4 miles of private and non-use on 0.4 miles of public and 1.4 miles private.				
Riparian monitoring	Photo point	in 1988	and 199	vas established in 1987 and 93. Grazing occurred into July,	
Upland monitoring	5				
Ecological Status as measured in 1980:	•				
Restricted grazing, necessary actions:	of fence on	private la	and, can	fence on public land, 0.4 miles cel 5 AUMs. Adjust lease to nds within riparian exclosure.	
No Riparian Grazing miles of fence	private	0.4		0.7	
acres excluded other actions	private	3	, public	9	
No Grazing: miles of fence	private	0.0	public	0.5	
acres excluded	private	20	public	160	
public land AUMs canceled Other actions	5				

lay Creek					
Location:	Segment 1	River N	/liles 28	.9 - 31.5	
Category:	I				
AUMs within lease:	126				
Miles of river bank	private	3.0	public	1.7	
Acres within WSR boundaries	private	354	public	295	
Acres within allotment	private	2418	public	1518	
Riparian management in 1988 NEPA documents	season long 95-080				
Riparian management in 1999					
Riparian monitoring					
Upland monitoring	ng Trend plot (Daubenmire) in North Pasture was established 1987 and remeasured in 1995. Pasture was grazed in summer and winter, now it is grazed in winter and early spring, monitoring shows an increase in <i>Sporobolus</i> <i>cryptandrus</i> .				
Ecological Status as measured in 1980:	climax: 122 late seral: 5 mid seral: 4 early seral: 4 unclassified:	acres 14 acres 50 acres 422 acre	s		
Restricted grazing, necessary actions:		unty ripa		portunities to exchange lands on as for lands elsewhere in the	
No Riparian Grazing miles of fence	private	1.6	public	1.2	
acres excluded other actions	private	10	public		
No Grazing: miles of fence	private	0.0	public	2.5	
acres excluded	, private	80	, public		
public land AUMs canceled	8				
Other actions	could be trac	ded for p	orivate la	ublic land in Sherman county ands elsewhere in the WSR ed for 0.8 miles of fence.	

mith Point							
Location:	Segment 1	River N	Miles 30	.8 - 31.1, 31.5 - 34.1			
Category:							
AUMs within lease:	93	4 5		1.0			
Miles of river bank	private	1.5	public	4.0			
Acres within WSR boundaries Acres within allotment	private	200	public	1481			
	private	200	public	2596			
Riparian management in 1988 NEPA documents	season long 89-058, 90-0		100				
Riparian management in 1999				vate river bank 27 miles of			
Ripanan management in 1999	exclusion on 1.0 miles of private river bank, 2.7 miles of public river bank, spring grazing on 0.5 miles of private and 1.3 miles of public. Decision to exclude the remainder has been issued but not implemented.						
Riparian monitoring	remeasured monitoring s	in 1988 hows in	, 1992 a crease ir	established in 1987 and nd 1998. Spring and fall grazing, n rushes after 1988. No grazing			
Upland monitoring	Trend plot (E and remeasu	Daubenr ured in 1	nire) in 0 1992 and	s a further increase in rushes. Con Pasture established in 1987 I 1998. Grazed in growing ears and grazed in growing			
				ows a loss of <i>Agropyron</i>			
			-	<i>ix</i> . Rested from autumn 1993 to			
			•	ss of Agropyron cristatum, Poa			
		-		arothrae and an increase in			
	-			and Agropyron smithii.			
	Trend plot (Daubenmire) in Gilliam Pasture established in						
	1987 and remeasured in 1993 and 1998. Rested in 1988 and						
				season in 1989 and 1990 and			
	-	-		92, monitoring shows an			
		•		a and <i>Eriogonum sp.</i> Rested			
			-	s an increase in knapweed and			
Ecological Status as measured in 1980:	no change ir climax: 552 a		grasses.				
Ecological Status as measured in 1980.	late seral: 99						
	mid seral: 0		,				
	early seral: 9		es				
	unclassified:						
Restricted grazing, necessary actions:				on of 1.8 miles of fence (0.5 miles ic). Adjust lease to prohibit			
				n riparian exclosure.			
No Riparian Grazing miles of fence	private	n/a		n/a (same as existing)			
acres excluded	nrivoto						
	private		public				
other actions	private		public				
other actions No Grazing: miles of fence	private	0.0	public	0.0			
other actions No Grazing: miles of fence acres excluded	private private	0.0 200	•	0.0 2596			
other actions No Grazing: miles of fence	private		public				

. 1. พนเนเล				
Location: Category: AUMs within lease:	Segment 1 I 269			.1 - 39.7
Miles of river bank Acres within WSR boundaries	private	7.0 800	public	4.2 1228
Acres within allotment	private private	5333	public public	4510
Riparian management in 1988	season long		public	-310
NEPA documents	99-117			
Riparian management in 1999	exclusion of (alternating			ate land, rotation grazing long)
Riparian monitoring	none			
Upland monitoring	Trend plot (3x3 photoplot) in the Esau Canyon Pasture w established in 1987 and remeasured in 1992. The plot contained no perennial plants, no change is obvious.			
Ecological Status as measured in 1980:	climax: 981 late seral: 34 mid seral: 20	407 acre		
	early seral: 8			
	unclassified			
Restricted grazing, necessary actions:	spring grazin splitting Esa grazing sche Adjust the le November 1 Dates of aut phenology, h	ng with r u Canyo edule in ease to o to June horized nerd size ormally to	est). Co on Pastu uplands confine g 1 on pa use wou e and av	ate, rotation (alternating winter - onstruct 4.5 miles of fence, re and implement rotation (according to EA #99-117). razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be s during the December 15 to
No Riparian Grazing miles of fence	private	6.3	public	2.8
acres excluded other actions	private	80	public	36
No Grazing: miles of fence	private	1.8	public	1.0
acres excluded	private	1680	public	3560
public land AUMs canceled Other actions	99			

2597	JT	Murtha	

J.T. Murtha							
Location: Category:	Segment 2	River N	Miles 39	.7 - 50.1			
AUMs within lease:	same as above						
Miles of river bank	private	3.5	public	17.3			
Acres within WSR boundaries	private	938	public				
Acres within allotment	private	1913	public				
	•		public	3590			
Riparian management in 1988	season long						
NEPA documents	99-117						
Riparian management in 1999				spring - winter grazing)			
Riparian monitoring				established in 1987 was			
				nd 1997. No change is obvious.			
	•			established in 1987 was			
				ew of the riparian zone is a long			
		w, but tr	iere app	ears to be an increase in sedges			
	and rushes.						
				ease in willow communities from			
				river miles in 1995.			
Upland monitoring				Billiard Pasture was established			
				1992. Under the two pasture			
				dentata and Gutierrezia sarothrae			
	•		-	nd decreased and microbiotic			
				bunchgrasses were stable.			
	• •	•	• •	the Saddle Pasture was			
	established in 1987, lost and had to be re-established in						
	1992. There appears to be a loss in Artemisia tridentata and						
	a decrease in Agropyron spicatum under the two pasture						
	rotation syst						
				Devils Pasture was established in			
				d in 1998. There appears to be a			
				an increase in <i>Eriogonum sp.</i> and			
	Psoralea lar						
Ecological Status as measured in 1980:	described in	segmei	nt 1				
Restricted grazing, necessary actions:				ystem (alternating rest with			
		spring - winter grazing). Adjust the lease to confine grazing					
	•			ovember 1 to June 1 on pastures			
				ates of authorized use would be			
			•	gy, herd size and available			
	forage, but would be restricted normally to 60 days during the						
	December 15 to May 1 period.						
No Riparian Grazing miles of fence	private	3.3	public				
acres excluded	private	39	public	83			
other actions							
No Grazing: miles of fence	private	3.0	public	0.0			
acres excluded	private	520	public	3800			
public land AUMs canceled	125						
Other actions							

2636 George Weedman

Location: Category: AUMs within lease:	Segment 2 C 6	River N	/liles 40	.9 -41.0
Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:	private private private	ove. res acres 59 acres 171 acre	S	51
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be rch 1 to May 1 period.
No Riparian Grazing miles of fence acres excluded other actions	private private	0.0 0	public public	0.1
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private private 1	0.0 0	public public	1.3 100

2553 Willow Sprin	ng
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Location: Category: AUMs within lease:	Segment 2 I 20	River N	/liles 45	.9 -46.1, 48.6 - 48.7
Miles of river bank	private	0.0	public	0.3
Acres within WSR boundaries	private	0.0	public	
Acres within allotment	private	560	public	
Riparian management in 1988	•		•	d in with 2597
NEPA documents	none		-,	
Riparian management in 1999				
Riparian monitoring				
	0 river miles	in 1981	to 0.07	river miles in 1995.
Upland monitoring	none			
Ecological Status as measured in 1980:	climax: 301 acres			
	late seral: 0			
	mid seral: 40			
	early seral: 3			
	unclassified:	: 41 acre	es	
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size	1 on pa use wou e and av	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be Irch 1 to May 1 period.
No Riparian Grazing miles of fence	private	0.0	public	0.3
acres excluded other actions	private	0	public	2
No Grazing: miles of fence	private	0.0	public	0.0
acres excluded	, private	560	, public	1127
public land AUMs canceled	20		-	
Other actions				

liller						
Location:	Segment 2	River N	/liles 50	.1 - 54.8		
Category:	1					
AUMs within lease:	47 87	0.7		1.0		
Miles of river bank	private	0.7	public			
Acres within WSR boundaries Acres within allotment	private	42 1964	public			
	private	1964	public	1896		
Riparian management in 1988 NEPA documents	season long 99-080					
Riparian management in 1999	voluntary spring use changing to permanent spring use with					
Ripanan management in 1999		-	-	ision. Decision requires		
	•			ence to create a riparian pasture.		
Riparian monitoring				established in 1987 was		
	•			990, 1994, 1996 and 1998. The		
				ssian olive, loss of an alder		
	seedling and	l sagebr	ush.			
	Photo point a	at river r	nile 53,	established in 1991 was		
			and 199	6. Number and size of willow		
	have increas					
				ease in willow communities from		
Listensi en sitenia e				river miles in 1995.		
Upland monitoring				he Deep Canyon Pasture was		
				easured in 1990, 1994 and 1998.		
	The area was burned by wildfire in 1994 and rested in 1995 and 1996. <i>Artemisia sp.</i> decreased and <i>Eriogonum sp.</i> has increased since 1994. Perennial grasses have increased					
	since 1987.					
Ecological Status as measured in 1980:	climax: 171 a	acres				
5	late seral: 73					
	mid seral: 74	1 acres				
	early seral: 1	62 acre	S			
	unclassified:	70 acre	S			
Restricted grazing, necessary actions:				ence. Adjust the lease to confine		
				es of November 1 to June 1 on		
				bank. Dates of authorized use		
	would be determined by plant phenology, herd size a available forage, but would be restricted normally to					
	March 1 to M			e restricted normally to the		
No Riparian Grazing miles of fence	private	0.7	public	4.3		
acres excluded	private	4	public	26		
other actions			•			
No Grazing: miles of fence	private	0.0	public	1.3		
acres excluded	private	420	public	1780		
public land AUMs canceled	42					
Other actions						

2500	Dalaha
2509	Belshe

Beisne						
Location:	Segment 2	River N	Ailes 54	.8 - 56.3		
Category:	I					
AUMs within lease:	62					
Miles of river bank	private	0.0	public			
Acres within WSR boundaries	private	0	public			
Acres within allotment	private	1080		1840		
Riparian management in 1988	spring and early summer, riparian zone subject to trespass					
	during low fl	ows.				
NEPA documents	97-137					
Riparian management in 1999	spring					
Riparian monitoring	•			iver mile 55 in 1987 and		
		in 1988	, 1990, 1	1994 and 1996. No change is		
	obvious.					
				willow in Little Ferry Canyon		
			•	995 and remeasured in the fall		
		-		al and growth during rest		
	following fire					
				nge in the extent of willow		
				ment between 1981 and 1995.		
Upland monitoring				he Indian Cove pasture was		
			and rem	easured in 1990 and 1994. No		
	change is obvious.					
	Trend plot (3x3 photoplot) in the Indian Cove pasture was established in 1987 and remeasured in 1990. An increas					
		-	s occurr	ed under spring and early		
	summer gra	-				
Ecological Status as measured in 1980:	climax: 1246					
	late seral: 10					
	mid seral: 10					
	early seral: 2					
	unclassified	68 acre	es			
Destricted graning passager (actional	A divict the cla		antina m	version and within the detector		
Restricted grazing, necessary actions:				razing period within the dates of		
				stures with access to riverbank.		
				Ild be determined by plant		
				ailable forage, but would be		
No Riparian Grazing miles of fence	private	0.0	public	rch 1 to May 1 period.		
acres excluded	private	0.0	public			
other actions	private	0	public	3		
No Grazing: miles of fence	private	0.0	public	0.0		
acres excluded	private	160	public	1440		
public land AUMs canceled	48	100	Pablic			
Other actions		(22 AUM	ls) of the	Dipping Vat allotment, fenced in		
		•	,	ould also have to be canceled.		

2572 Laffoon and Carlson

anoon and Canson						
Location: Category: AUMs within lease:	Segment 2 I 85	River N	/liles 56	.3 - 64.7		
Miles of river bank	private	0.0	public	84		
Acres within WSR boundaries	private	45	public			
Acres within allotment	private	45 1652	public			
	•	1052	public	3035		
Riparian management in 1988	season long					
NEPA documents	94-078, 96-024, 96-058 voluntary non-use taken by permittee on 4.4 miles, exclusion					
Riparian management in 1999	of 0.7 miles	and spri	ng use c	on 3.3 miles.		
				int at river mile 57, established in 38, 1990, 1994, 1996 and 1998.		
				nted in 1996, no change is		
		at river r	nile 61 v	vas established in 1994 and		
				ange is obvious.		
				ease in willow communities from		
				river miles in 1995.		
Upland monitoring				Aiddle pasture was established in		
episite the second				90, 1994 and 1998. Perennial		
				d dalmation toadflax increased.		
Ecological Status as measured in 1980:	climax: 2266					
	late seral: 45					
	mid seral: 36	68 acres				
	early seral: 8	341 acre	S			
	unclassified:					
Destricted graning research estimate				region period within the detector		
Restricted grazing, necessary actions:				razing period within the dates of		
				stures with access to riverbank.		
				Id be determined by plant		
				ailable forage, but would be		
				s during the December 15 to prohibit grazing on public lands		
	within riparia			prohibit grazing on public lands		
No Diportion Crozing, miles of fores				7 6		
No Riparian Grazing miles of fence acres excluded	private	0.0	public			
	private	0	public	00		
other actions	privoto	0.0	nublic	0.0		
No Grazing: miles of fence	private	0.0	public			
acres excluded	private	120	public	3095		
public land AUMs canceled	50					
Other actions						

ames brown				
Location: Category: AUMs within lease:	Segment 2 I 66	River N	Ailes 64	.7 - 71.8
				F 7
Miles of river bank	private	1.4	public	
Acres within WSR boundaries	private	152	public	
Acres within allotment	private	1968	public	2527
Riparian management in 1988	season long			
NEPA documents	96-058			
Riparian management in 1999	exclusion of remainder.	2.1 rive	r miles p	ublic, spring grazing on
Riparian monitoring	Photo point a	at river r	nile 67.	established in 1987 and
	remeasured long grazing obvious. Willow Repo	in 1988 until 19 ort shows	, 1990, 1 95, then s an incr	1994, 1996 and 1998. Season spring grazing, no change is ease in willow communities from
				river miles in 1995.
Upland monitoring	• •			ablished in South pasture in
				90, 1994, and 1998. With season
	long grazing	there's	been a s	steady increase in Stipa comata
	and Gutierre	zia sarc	othrae, E	<i>riogonum sp.</i> has been stable.
	Trend p	olot (Dau	ubenmire	e) established in North pasture in
	1995 has no	t been r	emeasu	red.
Ecological Status as measured in 1980:	climax: 540 a	acres		
C C	late seral: 10)60 acre	s	
	mid seral: 45	57 acres		
	early seral: 3	377 acre	s	
	unclassified:			
		00 0.010		
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h restricted no to prohibit gr	to June horized erd size rmally th	1 on pa use wou and ava ne Marcl	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be n 1 to May 1 period. Adjust lease lands within riparian exclosure.
No Riparian Grazing miles of fence	private	0.5	public	6.5
acres excluded	private	3	public	39
other actions	•		•	
No Grazing: miles of fence	private	0.3	public	0.0
acres excluded	private	680	public	2200
public land AUMs canceled	24	000	Papilo	
Other actions	∟ſ			

Location:	Segment 2	River N	/liles 73	.0 - 76.0	
Category:	1				
AUMs within lease:	43	4.0		1.0	
Miles of river bank	private	1.2	public		
Acres within WSR boundaries	private	145	public		
Acres within allotment	private	1471	public	737	
Riparian management in 1988	rest with some spring and early summer use beginning in 1990, riparian zone subject to trespass during low flows.				
NEPA documents	97-062				
Riparian management in 1999	spring				
Riparian monitoring	Photo point	on river	mile 75	established in 1987 and	
	remeasured in 1988, 1990 and 1996. No change obvious. Willow Report shows an increase in willow communitie from 0 river miles in 1981 to 0.03 river miles in 1995.				
Lipland manitoring					
Upland monitoring	• •		,	River pasture established in 1987	
				and re-established in 1996.	
		incrigras	s decre	ased to 1990 and increased to	
Feelerical Status on management in 1000.	1996.				
Ecological Status as measured in 1980:	climax: 0 acres late seral: 80 acres				
	mid seral: 63		i		
	early seral: (-		
	unclassified:	27 acre	es		
Restricted grazing, necessary actions:	Adjust the le	ase to c	onfine a	razing period within the dates of	
5 S, ,				stures with access to riverbank.	
				ld be determined by plant	
				ailable forage, but would be	
				rch 1 to May 1 period.	
No Riparian Grazing miles of fence	private	1.0	public		
acres excluded	private	6	public		
other actions	F	•	1	-	
No Grazing: miles of fence	private	0.0	public	0.0	
acres excluded	private	140	public	380	
public land AUMs canceled	10		P		
Other actions					

Jeckel					
Location:	Segment 2	River N	Ailes 71	.8 - 73.0, 76.0 - 80.8	
Category:	I				
AUMs within lease:	206				
Miles of river bank	private	0.4	public	6.5	
Acres within WSR boundaries	private	9	public	1063	
Acres within allotment	private	1823	public	2999	
Riparian management in 1988				arian area subject to trespass	
· · · · · · · · · · · · · · · · · · ·	during low fl				
NEPA documents	97-038	0110.			
Riparian management in 1999	spring, planning and decision for 0.2 miles of fence				
Ripanan management in 1999				niles) has been issued but not	
	implemente				
Riparian monitoring			milo 76	established in 1987 and	
Ripanan monitoring					
				1994, 1996 and 1998. Photos	
	show a wide				
				ease in willow communities from	
				river miles in 1995.	
Upland monitoring				Chisholm pasture was	
				easured in 1990, 1994 and 1998.	
				nnial bunchgrasses increased.	
				Middle pasture was established in	
	1995 and no		sured.		
Ecological Status as measured in 1980:					
	late seral: 2153 acres				
	mid seral: 24				
	early seral:				
	unclassified	: 112 acı	res		
Restricted grazing, necessary actions:	construct 0.2	2 miles o	of fence.	Adjust the lease to confine	
	grazing peri	od withir	n the dat	es of November 1 to June 1 on	
	pastures wit	h acces	s to rive	bank. Dates of authorized use	
	would be de	termined	d by plar	nt phenology, herd size and	
	available for	age, but	t would b	be restricted normally the March 1	
	to May 1 pe	riod. Adj	ust lease	e to prohibit grazing on public	
	lands within	riparian	exclosu	re.	
No Riparian Grazing miles of fence	private	0.4	public		
acres excluded	private	2	public		
other actions	•		•		
No Grazing: miles of fence	private	1.0	public	0.0	
acres excluded	private	0	public		
public land AUMs canceled	93	-	12 0.00.10		
Other actions					

Location: Category:	Segment 2	River Mile	les 49.8 - 83.7
AUMs within lease: Miles of river bank Acres within WSR boundaries Acres within allotment	733 private 2.5 private 157 private 25,303	public public public	31.4 5980 13,676
Riparian management in 1988	those riparian al grazing of 15.1	reas were s	r permittee on 18.8 miles of river bank, but many of subject to trespass during low flows. Season long ver bank by permittee.
NEPA documents Riparian management in 1999		ision for a (river bank, spring or winter grazing of 13.3 miles of 0.2 mile fence, excluding another 3.2 river bank miles, nented.
Riparian monitoring:	Photo point at ri 1994 and 1996. winter or spring, Photo point at ri 1996. Cattle we obvious change Photo point at ri 1990, 1994, and from pasture, m Photo point at ri 1996. Trespass receives non-us Photo point at ri	ver mile 76 Pasture w monitoring ver mile 69 ere exclude ver mile 61 I 1996. Ca onitoring sh ver mile 53 grazing oc e, monitorii ver mile 80 ized seaso	 6, established in 1987 and remeasured in 1988, 1990, was grazed season long, is now grazed only in the g shows an increase in willow after 1990. 9, established in 1991 and remeasured in 1994, and ed with a fence since 1950s, the monitoring shows no 1, established in 1987 and remeasured in 1988, 1989, attle were summer grazed until 1991, then excluded shows an increase in willow. 3, established in 1991 and remeasured in 1994 and recurred during summer low flows, the area now ing shows an increase in willow and rushes. 0, established in 1995 and remeasured in 1998. on long, is now grazed only in the winter or spring,
Upland monitoring:	Willow Report: 1981 to 3.2 river Trend plot (frequ	shows an i r miles in 1 uency) in B	increase in willow communities from 0 river miles in
	shows an increa Trend plot (3x3 remeasured in 1 until 1992, then 1990. Trend plot (Daul remeasured in 1 only in the sprin discernable cha Trend plot (Daul Remeasured in 1991 and has si grass.	ase in Stipa photoplot) i 990 and 19 rested, mo benmire) in 990, 1991, g or winter nge. benmire) in 1990, 1991 nce been r	
	remeasured in 1 increase in <i>Guti</i> Trend plo remeasured in 1	994. Graz errezia saro ot (Daubeni 994. Tresi e, monitorii	zing occurred in summer or fall, monitoring shows an rothrae and perennial grasses. mire) at Gooseneck was established in 1991 and spass grazing occurred in the summer, the area now ing shows a decrease in <i>Stipa comata</i> and <i>Eriogonum</i>
Ecological Status as measured in 1980:	climax: 3362 ac late seral: 4864 mid seral: 1900 early seral: 2006 unclassified: 465	res acres acres 6 acres	
Restricted grazing, necessary actions:	dates of Novem authorized use v forage, but woul	ber 1 to Ju would be de d be restric	ce. Adjust the lease to confine grazing period within the ine 1 on pastures with access to riverbank. Dates of determined by plant phenology, herd size and available icted normally to 60 days during the December 15 to be to prohibit grazing on public lands within riparian
No Riparian Grazing miles of fence acres excluded other actions	private 0.8 private 4	public public	6.8 36
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private 4.4 private 2430 545	public public	3.9 11,916 181

attray						
Location: Category:	Segment 2 River Miles 83.7 - 93.5					
AUMs within lease:	534					
Miles of river bank	private 2.0 public 16.0					
Acres within WSR boundaries	private 208 public 2496					
Acres within allotment Riparian management in 1988	private 16,716 public 7982 season long					
NEPA documents	93-037, 96-110					
Riparian management in 1999	exclusion on 1.2 miles of private and 4.5 miles of public,					
	winter use on 0.8 miles of private and 7.7 miles of public,					
Riparian monitoring	rotation (spring and non-use) on 3.8 miles of public. Photo point on river mile 86 established in 1987 and					
Ripanan monitoring	remeasured in 1988, 1989, 1990, 1993 and 1994.					
	Management was season long, changed to a rotation of					
	spring and non-use in 1999. No change is obvious.					
	Photo point on river mile 92 established in 1987 and remeasured in 1988, 1990, and 1994. Management was					
	non-use or winter use. No change is obvious.					
	Photo point on river mile 88, established in 1987 and					
	remeasured in 1988, 1990, and 1994. Management was					
	season long, changed to spring in 1997. No change is obvious.					
	Willow Report: shows an increase in willow communities					
	from 0 river miles in 1981 to 0.18 river miles in 1995.					
Upland monitoring	Trend plot (Daubenmire) in Horse Mountain pasture was					
	established in 1987 and remeasured in 1994. Management was non-use or winter use. <i>Sporobolus cryptandrus</i> appears					
	to have increased in vigor.					
	Trend plot (3x3 photoplot) in Devils Pasture was establishe					
	in 1987, lost and re-established in 1990.					
	Trend plot (Daubenmire) in Pine Hollow pasture was established in 1987, re-established in 1990 and remeasured					
	in 1991 and 1994. Management was spring or late summer,					
	changed to winter or spring in 1997. Monitoring shows an					
Foological Status on manufactin 1090	increase in perennial grasses and sedges. climax: 209 acres					
Ecological Status as measured in 1980:	late seral: 3134 acres					
	mid seral: 3458 acres					
	early seral: 1361 acres					
	unclassified: 272 acres					
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of					
5 5, j	November 1 to June 1 on pastures with access to riverbank.					
	Dates of authorized use would be determined by plant					
	phenology, herd size and available forage, but would be restricted normally to 60 days during the December 15 to					
	May 1 period. Adjust lease to prohibit grazing on public lands					
	within riparian exclosure.					
No Riparian Grazing miles of fence	private 0.4 public 7.1					
acres excluded other actions	private 2 public 43 cancel grazing in the Pete Enyart riparian pasture, 9 AUMs.					
No Grazing: miles of fence	private 2.8 public 0.0					
acres excluded	private 165 public 3720					
public land AUMs canceled	148					
Other actions						

llum						
Location:	Segment 2 River Miles 80.8 - 82.9					
Category:	1					
AUMs within lease:	113					
Miles of river bank	private	0.0	public			
Acres within WSR boundaries	private	0	public			
Acres within allotment	private	3242	public	2889		
Riparian management in 1988	non-use by permittee, riparian areas subject to trespass grazing during low river flows.					
NEPA documents	none					
Riparian management in 1999	spring					
Riparian monitoring	Photo point on river mile 82, established in 1988 and					
· · · · · · · · · · · · · · · · · · ·	remeasured in 1990, 1994 and 1997. Non-use from 1988 t					
	1992, then spring grazing. No change is obvious. Willow Report: shows an increase in willow communities					
				0.02 river miles in 1995.		
Upland monitoring				River Pasture B was established		
opiand monitoring				990, 1991 and 1994. No use		
Factorial Status on manufaction 1080	until 1992, then spring grazing. No change is obvious.					
Ecological Status as measured in 1980:	late seral: 1281 acres					
	mid seral: 458 acres early seral: 511 acres					
	unclassified	107 ac	res			
Restricted grazing, necessary actions:	Adjust the le	ase to c	onfine a	razing period within the dates of		
Restricted grazing, necessary detens.	ons: Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank Dates of authorized use would be determined by plant					
	phenology, herd size and available forage, but would be					
No Disperior Crossing miles of forces	restricted normally to the March 1 to May 1 period.					
No Riparian Grazing miles of fence	private	0.0	public			
acres excluded	private	0	public	13		
other actions						
No Grazing: miles of fence	private	0.0	public			
acres excluded	private	160	public	1240		
public land AUMs canceled	45					
Other actions						

Draft John Day River Plan and EIS 2518 Pine Creek

Location: Category: AUMs within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:		0.7 171 10,960 rt: show niles in acres 32 acres 5 acres 13 acres	public public public /s an inc 1981 to s	0.0 454
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to the March 1 to May 1 period.			
No Riparian Grazing miles of fence	private	0.7	public	0.0
acres excluded other actions	private	4	public	0
No Grazing: miles of fence	private	0.0	public	0.0
acres excluded	private	172	public	760
public land AUMs canceled	51			
Other actions				

teiwer						
Location:	Segment 2 River Miles 93.5 - 103.4					
Category: AUMs within lease:	230					
Miles of river bank	private 4.9 public 5.0					
Acres within WSR boundaries	private 535 public 1385					
Acres within allotment	private 38,810 public 4376					
Riparian management in 1988	spring on 4.0 miles of public, non-use by permittee on 1.0 miles of public and 2.7 miles of private though the area was subject to trespass grazing during low river flows, season long on 2.2 miles of private.					
NEPA documents	87-033					
Riparian management in 1999 Riparian monitoring	same as above, trespass has been resolved. Photo point on river mile 100, established in 1988 was remeasured in 1990 and 1994. Management was changed from season long to spring use in 1987. Photos show an expansion of willow.					
Upland monitoring	Willow Report: shows an increase in willow communities from 0 river miles in 1981 to 1.87 river miles in 1995. Trend plot (frequency) in Juniper Island pasture established in 1987 and remeasured in 1990 and 1994. Management was changed to spring rotation in 1987, monitoring shows an					
	 increase in <i>Sporobolus cryptandrus</i>. Trend plot (Daubenmire) in Bills Place, established in 1987 was remeasured in 1990 and 1994. Management was changed to spring rotation in 1987, monitoring shows an increase in <i>Sporobolus cryptandrus</i>. Trend plot (Daubenmire) in Juniper Island pasture, established in 1987 was remeasured in 1994. Management described above, 					
	monitoring shows an apparent decrease in <i>Gutierrezia</i> sarothrae and an increase in <i>Sporobolus cryptandrus</i> .					
Ecological Status as measured in 1980:	land exchange has eliminated the lands measured from public ownership.					
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the December 15 to May 1 period. Adjust lease to prohibit grazing on public lands within riparian exclosure. Pursue opportunities to exchange lands north of Butte Creek for other lands within the WSR boundary.					
No Riparian Grazing miles of fence acres excluded	private 2.2 public 4.2 private 10 public 24					
other actions						
No Grazing: miles of fence	private 0.0 public 6.6					
acres excluded	private 0 public 1280					
public land AUMs canceled Other actions	53 approximately 160 acres of public land in Wheeler county					
	could be traded for private lands elsewhere in the WSR boundary, eliminating the need for 2.0 miles of fence.					

2584 Catherine Maurer

atherine Maurer					
Location: Category:	Segment 2 River Miles 92.9 - 106.1 and 103.4 - 107.0				
AUMs within lease:	789				
Miles of river bank	private 10.3 public 6.5				
Acres within WSR boundaries	private 1427 public 1815				
Acres within allotment Riparian management in 1988	private 26,168 public 14,683 season long				
NEPA documents	91-038, 95-009, 97-014				
Riparian management in 1999	exclusion on 0.5 miles of public and 2.6 miles of private,				
	spring use on 1.5 miles private and 3.3 miles public, season long on 6.2 miles of private and 2.7 miles public.				
Riparian monitoring	Photoplot at spring site in Lakes Pasture established in 1998,				
	management changed from season long to spring use in				
	1999.				
	Willow Report: shows an increase in willow communities from 0 river miles in 1981 to 1.34 river miles in 1995.				
Upland monitoring	Trend plot (Daubenmire) in Rayburn pasture was established				
	in 1987 and remeasured in 1993. Management was season				
	long use, perennial grasses increased in vigor and density.				
	Trend plot (Daubenmire) in River pasture was established in 1987 and remeasured in 1993 and 1998. Management was				
	spring and early summer use, changed to winter and early				
	spring use in 1997, monitoring shows an increase in				
	perennial bunchgrasses. Trend plot (Daubenmire) in Lakes pasture was established in				
	1987 and remeasured in 1993. Management was season				
	long, changed to spring in 1999. Monitoring shows an				
	increase in <i>Bromus tectorum</i> and <i>Stipa thurberiana</i> and a				
Ecological Status as measured in 1980:	decrease in <i>Gutierrezia sarothrae</i> . climax: 151 acres				
	late seral: 3421 acres				
	mid seral: 4017 acres				
	early seral: 6550 acres unclassified: 544 acres				
Restricted grazing, necessary actions:	same as existing management for the Lakes and River				
	pastures. For the Clarno Rapids area, adjust the lease to				
	confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of				
	authorized use would be determined by plant phenology, herd				
	size and available forage, but would be restricted normally to				
	the April 1 to June 1 period. For the Rayburn pasture, develop an allotment management plan or pursue exchange				
	opportunities for other lands within WSR boundaries.				
No Riparian Grazing miles of fence	private 6.9 public 6.0				
acres excluded other actions	private 42 public 38				
No Grazing: miles of fence	private 0.3 public 6.7				
acres excluded	private 880 public 5036				
public land AUMs canceled	109				
Other actions	approximately 320 acres of public land in Wasco county could be traded for private lands elsewhere in the WSR				
	boundary, eliminating the need for 3.5 miles of fence.				

2614 Clarno Homestead

Location: Category: AUMs within lease:	Segment 2 I 63	River N	/liles 10	6.1 - 108.3 and 108.7 - 109.3		
Miles of river bank	private	0.0	public	2.8		
Acres within WSR boundaries	private	0.0 25	public			
Acres within Work boundaries	private	23 32	public	1693		
Riparian management in 1988	season long		public	1095		
NEPA documents	•					
Riparian management in 1999	95-009, 96-060 unleased					
Riparian management in 1999 Riparian monitoring		ort chow	a no cha	nge in the extent of willow		
Ripanan monitoring	Willow Report shows no change in the extent of willow communities within the allotment between 1981 and 1995.					
Upland monitoring	Trend plot (Daubenmire) established in 1987 was remeasured in 1993 and 1998. Season long use was changed to non-use in 1990. Monitoring shows an increase in <i>Stipa thurberiana</i> and a decrease in <i>Poa sandbergii</i> .					
Ecological Status as measured in 1980:						
Restricted grazing, necessary actions:	Adjust lease boundaries.	to retire	grazing	on public lands within the WSR		
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)		
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private private	n/a	public public	n/a (same as existing)		

Location: Category: AUMs within lease:	Segment 3 M 40	3 River Miles 110.7 - 114.5			
Miles of river bank	private	3.2	public	0.6	
Acres within WSR boundaries	private	494	public		
Acres within allotment	private	650	public		
Riparian management in 1988	exclusion of 0.1 miles of public river bank and 3.2 miles of private river bank, these riparian areas subject to limited trespass during low river flows, spring grazing on 0.5 miles o public river bank.				
NEPA documents	90-035				
Riparian management in 1999	same as above except trespass is largely resolved.				
Riparian monitoring	Willow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.5 river miles in 1995.				
Upland monitoring	Trend plot (3x3 photoplot) established in 1987 and remeasured in 1994. Grazing occurs during the winter, monitoring shows an increase in <i>Sporobolus cryptandrus</i> .				
Ecological Status as measured in 1980:					
Restricted grazing, necessary actions:	grazing as above, construct 0.3 miles of fence. Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to the March 15 to May 15 period.				
No Riparian Grazing: miles of fence	private	0.0	public		
acres excluded other actions	private	0	public	1	
No Grazing: miles of fence	private	0.0	public	0.4	
acres excluded	private	494	public	148	
public land AUMs canceled Other actions	5		-		

2587 Corral Canyon

	0	D'	1			
Location:	Segment 3	ent 3 River Miles 109.6 - 111.4				
Category: AUMs within lease:	ı 88					
Miles of river bank		17	public	0.1		
Acres within WSR boundaries	private	1.7 66	public public			
Acres within allotment	private private	1200	public			
Riparian management in 1988	spring, early			2101		
NEPA documents	97-007	Summe				
Riparian management in 1999		vith lives	tock ren	noved by May 15th.		
Riparian monitoring	none					
Upland monitoring		3x3 phot	oplot) in	the Corral Canyon Pasture was		
				easured in 1990 and 1994.		
	Grazing occ	urs durir	ng critica	Il growing season each year		
	except for re	est in 19	92 and 1	997, utilization levels are light to		
	moderate.	Monitorir	ng shows	s an increase in <i>Stipa</i>		
	thurberiana.					
Ecological Status as measured in 1980:	climax: 0 ac					
	late seral: 17 acres					
	mid seral: 0 acres					
	early seral: 2006 acres unclassified: 78 acres					
	unciassineu	. 70 acre	5			
Restricted grazing, necessary actions:	Adjust the le	ease to c	onfine g	razing period within the dates of		
				stures with access to riverbank.		
				Ild be determined by plant		
				ailable forage, but would be		
		ormally to	o 60 day	s during the March 15 to May 15		
No Disperior Orazing, miles of fores	period.	4 7	n hlin	0.4		
No Riparian Grazing: miles of fence acres excluded	private	1.7 14	public			
other actions	private	14	public	4		
No Grazing: miles of fence	private	1.2	public	03		
acres excluded	private	52	public			
public land AUMs canceled	0	52	P 46.10			
Other actions	-					

2512	Ria	Muddy
2012	ыy	wuuuy

Location: Category: AUMs within lease:	Segment 3 I 605	River N	/liles 114	4.5 - 128.1		
Miles of river bank	private	8.0	public	5.6		
Acres within WSR boundaries	private	1069	public			
Acres within allotment	private			14,890		
Riparian management in 1988	•			mittees, riparian areas subject to		
	trespass gra					
NEPA documents	none					
Riparian management in 1999	spring	•				
Riparian monitoring	Remeasured Willow Repo	d in 1994 ort: show	4. There /s an inc	k established in 1987 and was no discernable change. rease in willow communities from river miles in 1995.		
Upland monitoring	g Trend plot (3x3 photoplot) west of Melendy Ridge was established in 1987 and remeasured in 1994. There is no discernable change.					
				Domogalla Canyon was Id not be found in 1994, the study		
	was reestab		but cou	iu not be lound in 1994, the study		
Trend plot (3x3 photoplot) in Currant Creek Canyo			1987 hi	it could not be found in 1994 the		
field plot (oxo photoplot) in ouriant order ourige	study was re					
Ecological Status as measured in 1980:	•					
	late seral: 1861 acres					
	mid seral: 42	211 acre	S			
	early seral: 8070 acres					
	unclassified:	551 ac	res			
Restricted grazing, necessary actions:				djust the lease to confine		
				es of November 1 to June 1 on		
	•			bank. Dates of authorized use		
				nt phenology, herd size and		
	available forage, but would be restricted normally to the					
	March 15 to	•	•			
No Riparian Grazing miles of fence	private	6.9	public			
acres excluded	private	42	public	19		
other actions		4.0		0.0		
No Grazing: miles of fence	private	1.6	public			
	private 30	396	public	1200		
public land AUMs canceled Other actions	30					

Location: Segment 3 River Miles 128.1 - 131.6 Category: I AUMs within lease: 438 Miles of river bank private 2.6 public 0.9 Acres within WSR boundaries private 427 public 164 Acres within allotment private 429,960 public 11,095 Riparian management in 1988 winter and spring use by permittees, riparian areas subject to grazing trespass during low river flows. NEPA documents none Riparian management in 1999 Riparian monitoring Willow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995. Upland monitoring Trend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change. Ecological Status as measured in 1980: claras: 892 acres late seral: 3759 acres mid seral: 3362 acres early seral: 3082 acres late seral: 3759 acres mid seral: 3362 acres early seral: 0 acres cunclassified: 0 acres Movember 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period. No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded public land AUMs canceled Other actions							
AUMs within lease: Miles of river bank Acres within WSR boundaries private438Miles of river bank Acres within WSR boundaries Acres within allotmentprivate427 public164Acres within allotment Riparian management in 1988private49,960 yotate11,095NEPA documents Riparian management in 1999winter and spring use by permittees, riparian areas subject to grazing trespass during low river flows. noneNEPA documents Riparian management in 1999winter and spring, trespass largely resolved.Willow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995. Trend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change.Ecological Status as measured in 1980: Climax: 892 acres unclassified: 0 acresRestricted grazing, necessary actions: No Riparian Grazing miles of fence other actionsNo Riparian Grazing miles of fence other actionsNo Grazing: miles of fence other actionsNo Grazing: miles of fence public land AUMs canceledNo Grazing: miles of fence public land AUMs canceledNo Grazing: miles of fence public land AUMs canceledNo Grazing: miles of fence publicNo Grazing: miles of fence public land AUMs canceledNo Grazing: miles of fence public land AUMs canceledNo Grazing: miles of fence public land AUMs canceledNo Riparian Grazing miles of fence public land AUMs canceledNo Grazing: miles of fence public land AUMs canceledNo Site and AUMs canceled <t< td=""><td></td><td>Segment 3</td><td>River N</td><td>/liles 128</td><td>3.1 - 131.6</td></t<>		Segment 3	River N	/liles 128	3.1 - 131.6		
Miles of river bank Acres within WSR boundaries Acres within allotment Acres within allotment Riparian management in 1988private 427 49,960 public11,095 titles, riparian areas subject to grazing trespass during low river flows. noneNEPA documents Riparian management in 1999 Riparian monitoringnonenoneWillow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995. 							
Acres within WSR boundaries Acres within allotmentprivate427public164Riparian management in 1988private49,960public11,095NEPA documents Riparian management in 1999winter and spring use by permittees, riparian areas subject to grazing trespass during low river flows. noneRiparian management in 1999winter and spring, trespass largely resolved.Riparian monitoringWillow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995.Upland monitoringTrend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change.Ecological Status as measured in 1980:climax: 892 acres late seral: 3759 acres mid seral: 3362 acres unclassified: 0 acresRestricted grazing, necessary actions:Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded other actionsprivate3.9public1.1 private24No Grazing: miles of fence acres excluded public land AUMs canceledprivate0.0public00No grazing: miles of fence acres excluded other actionsprivate0.0public0.90No Grazing: miles of fence acres excluded public land AUMs canceledprivate00public200							
Acres within allotment Riparian management in 1988private 49,960 public 11,095 winter and spring use by permittees, riparian areas subject to grazing trespass during low river flows. noneNEPA documents Riparian management in 1999noneRiparian management in 1999 (Jupland monitoringwinter and spring, trespass largely resolved.Upland monitoringWillow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995. Trend plot (3x3 photoplot) and 1994. There is no discernable change.Ecological Status as measured in 1980:Climax: 892 acres late seral: 3759 acres mid seral: 3362 acres unclassified: 0 acresRestricted grazing, necessary actions:Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded other actions3.9public 1.1 private 3.9No Grazing: miles of fence acres excluded public land AUMs canceledprivate 0.0public 0.9Private 0public 200			-	•			
Riparian management in 1988winter and spring use by permittees, riparian areas subject to grazing trespass during low river flows. noneNEPA documentsnoneRiparian management in 1999winter and spring, trespass largely resolved.Riparian monitoringwinter and spring, trespass largely resolved.Willow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995.Upland monitoringTrend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change.Ecological Status as measured in 1980:Climax: 892 acres late seral: 3759 acres mid seral: 3082 acres unclassified: 0 acresRestricted grazing, necessary actions:Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded other actionsprivate3.9 publicpublicNo Grazing: miles of fence acres excluded public land AUMs canceledprivate0 public00				•			
NEPA documentsgrazing trespass during low river flows. noneRiparian management in 1999winter and spring, trespass largely resolved.Riparian monitoringWillow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995.Upland monitoringTrend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change.Ecological Status as measured in 1980:climax: 892 acres late seral: 3759 acres mid seral: 3362 acres early seral: 3082 acres unclassified: 0 acresRestricted grazing, necessary actions:Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded other actionsprivate3.9 publicpublic1.1 private24 public0.0 public200 publicNo Grazing: miles of fence public land AUMs canceledprivate0.0 public0.0 public0.0 public0.0 public0.0 public				•			
Riparian management in 1999 Riparian monitoring Upland monitoringwinter and spring, trespass largely resolved.Willow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995.Upland monitoring Upland monitoringTrend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change.Ecological Status as measured in 1980:Climax: 892 acres late seral: 3759 acres mid seral: 3362 acres unclassified: 0 acresRestricted grazing, necessary actions:Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded other actionsprivate3.9 public1.1 privateNo Grazing: miles of fence acres excluded public land AUMs canceledprivate0.0 public0.9 publicNo Brazing: miles of fence acres excluded public land AUMs canceled600	Riparian management in 1988						
Riparian monitoring Upland monitoringWillow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.23 river miles in 1995. Trend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change.Ecological Status as measured in 1980:Trend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change.Ecological Status as measured in 1980:Climax: 892 acres late seral: 3759 acres mid seral: 3082 acres unclassified: 0 acresRestricted grazing, necessary actions:Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded other actionsprivate3.9 publicpublicNo Grazing: miles of fence acres excluded public land AUMs canceledprivate0.0 publicpublicOpublic0.0 publicpublic0.0 public	NEPA documents	none					
0.0 river miles in 1981 to 0.23 river miles in 1995.Upland monitoringUpland monitoringTrend plot (3x3 photoplot) in Horse Heaven Pasture was established in 1987 and remeasured in 1990 and 1994. There is no discernable change.Ecological Status as measured in 1980:Climax: 892 acres late seral: 3759 acres mid seral: 3362 acres early seral: 3082 acres unclassified: 0 acresRestricted grazing, necessary actions:Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded other actionsNo Grazing: miles of fence acres excluded public land AUMs canceledPrivate0.0 public0.0public0.0public0.0public0.0public0.0public0.0public0.0public0.0public0.0public0public0public0public0public0public0public0public0public0public0public0public0public0public0public0public0public0public0 </td <td>Riparian management in 1999</td> <td></td> <td></td> <td></td> <td></td>	Riparian management in 1999						
 established in 1987 and remeasured in 1990 and 1994. There is no discernable change. climax: 892 acres late seral: 3759 acres mid seral: 3362 acres early seral: 3082 acres unclassified: 0 acres Restricted grazing, necessary actions: Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period. No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded public land AUMs canceled 	Riparian monitoring						
Ecological Status as measured in 1980:climax: 892 acres late seral: 3759 acres mid seral: 3362 acres early seral: 3082 acres unclassified: 0 acresRestricted grazing, necessary actions:Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded public acresprivate3.9 publicpublic1.1 privateNo Grazing: miles of fence acres excluded public land AUMs canceledprivate0.0 public0.9 public200 public	Upland monitoring	established in 1987 and remeasured in 1990 and 1994.					
November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the March15 to May 15 period.No Riparian Grazing miles of fence acres excluded other actionsprivate3.9 publicpublic1.1 1.1No Grazing: miles of fence acres excluded privateprivate24 publicpublic7No Grazing: miles of fence acres excluded public land AUMs canceledprivate0.0 public200 public200	Ecological Status as measured in 1980:	late seral: 3 mid seral: 3 early seral: 3	759 acre 362 acre 3082 acr	es Tes			
acres excluded private 24 public 7 other actions No Grazing: miles of fence private 0.0 public 0.9 acres excluded private 0 public 200 public land AUMs canceled 6	Restricted grazing, necessary actions:	November 1 Dates of aut phenology, I restricted no	to June thorized herd size	1 on pa use wou and av	stures with access to riverbank. Id be determined by plant ailable forage, but would be		
acres excluded private 24 public 7 other actions No Grazing: miles of fence private 0.0 public 0.9 acres excluded private 0 public 200 public land AUMs canceled 6	No Riparian Grazing miles of fence		3.9	public	1.1		
other actions No Grazing: miles of fence private 0.0 public 0.9 acres excluded private 0 public 200 public land AUMs canceled 6	acres excluded	, private	24	public	7		
No Grazing: miles of fence private 0.0 public 0.9 acres excluded private 0 public 200 public land AUMs canceled 6	other actions	•		•			
acres excluded private 0 public 200 public land AUMs canceled 6		private	0.0	public	0.9		
public land AUMs canceled 6	5	•					
	public land AUMs canceled		-	P			

Dialt oonin Day Niver Flan and Elo						
2624 Burnt Ranch						
Location:	Segment 3 River Miles 131.6 - 133.0					
Category:	С					
AUMs within lease:	7					
Miles of river bank	private	0.0	public			
Acres within WSR boundaries	private	0	public	113		
Acres within allotment	private	2080	public	328		
Riparian management in 1988	spring and e	early sur	nmer			
NEPA documents	none					
Riparian management in 1999	early spring (between March 15 and April 15) for two weeks every other year.					
Riparian monitoring	•	•	vs an inc	rease in willow communities from		
1 5				6 river miles in 1995.		
Upland monitoring	Trend plot (3	3x3 pho	toplot) in	the River Pasture (riparian		
Ecological Status as measured in 1980:	management pasture) was established in 1989 and remeasured in 1995. Grazing occurred each spring during the critical growing season until 1997 when it changed to two weeks use every other year. Monitoring shows an increase in <i>Oryzopsis hymenoides</i> . climax: 0 acres late seral: 0 acres mid seral: 0 acres early seral: 316 acres unclassified: 12 acres					
Restricted grazing, necessary actions:	same as exi	sting				
No Riparian Grazing miles of fence	private	0.0	public	1.4		
acres excluded other actions	private	0	public	8		
No Grazing: miles of fence	private	0.0	public	0.9		
acres excluded	private	0	public	180		
public land AUMs canceled	2					
Other actions						

Location: Category: AUMs within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:	Segment 3 C 3 private private season long none rotation none climax: 6 acr late seral: 26 mid seral: 24 early seral: 2 unclassified:	0.2 9 25 es acres acres acres 2 acres	liles 133 public public public	0.0 - 133.2 0.0 0 78
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	same as exis private private private private 0	sting 0.2 3 0.0 0	public public public public	0.0 0 0.0 0

2533 Sutton Mountain

Sutton Mountain	
Location: Category:	Segment 3 River Miles 135.7 - 140.0
AUMs within lease: Miles of river bank Acres within WSR boundaries	1020 private 0.2 public 6.7 private 30 public 1163
Acres within allotment Riparian management in 1988	private 640 public 25,315 winter and spring by permittee, riparian areas received trespass grazing during low river flows.
NEPA documents Riparian management in 1999	92-021, 92-044 exclusion, non-use and spring. Spring grazing occurs on 2.6 miles of the river. The Agate Point Wetland Pasture is in non- use pending improved riparian conditions and encompasses 2.6 miles of the river. The Priest Hole Field excludes livestock grazing and occupies 0.9 miles of the river. The Liberty Bottom Field also excludes grazing and consists of
Riparian monitoring	0.8 miles of the river. Six photo points (trend overview) and five photo points (cover board), between river miles 136.5 and 137.6, were established in 1995 in the Agate Point Wetland Pasture. Not remeasured.
	 Photo point (cover board) on Bridge Creek in the Manning Field was established in 1989 and remeasured in 1991, 1995, 1997 and 1999. Spring grazing has occurred since acquisition of the land in 1988. Grazing use varied from 2 to 3 months between 1988 and 1992, to 3 weeks from 1993 to 1998 with non-use in 1997. Monitoring shows an increase in willow cover. Photo point (cover board) on Bridge Creek in the Connley Field was established in 1989 and remeasured in 1991, 1995 and 1999. Grazing use varied from 2 to 3 months from 1988
Upland monitoring	to 1992, to one month from 1993 to 19996. Non-use in 1997 and 1998. Monitoring shows an increase in willow cover. Willow Report: shows an increase in willow communities from 0.0 river miles in 1981 to 0.75 river miles in 1995. Trend plot (3x3 photoplot) in the Stovepipe Springs Pasture was established in 1987 and remeasured in 1991 and 1995. Grazing occurs during the spring, monitoring shows an increase in <i>Sporobolus cryptandrus</i> . Trend plot (3x3 photoplot) in the Stovepipe Springs Pasture was established in 1988 and remeasured in 1991 and 1995. Grazing occurs during the spring, monitoring shows an obvious change.
Ecological Status as measured in 1980:	ecological status was determined for 6995 acres, an additional 18320 acres became public in 1992, but status for the acquired land will be determined when possible. climax: 897 acres late seral: 1911 acres mid seral: 988 acres early seral: 2940 acres unclassified: 259 acres
Restricted grazing, necessary actions: No Riparian Grazing miles of fence	Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to the April 1 to May 1 period. private 0.0 public 1.8
acres excluded other actions	private 0 public 11
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private 0.0 public 2.3 private 0 public 1240 45

2592 Mary Misener

Location: Category: AUMs within lease:	Segment 3 I 52	River N	liles 141	.4 - 142.8	
Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring	private private private season long 92-044 exclusion none	1.4 269 640	public public public	0.0 0 595	
Upland monitoring Ecological Status as measured in 1980:	Trend plot (3x3 photoplot) was established in 1987 and remeasured in 1991. Grazing occurs during winter and spring, monitoring shows an increase in <i>Stipa thurberia</i> Trend plot (Daubenmire) was established in 1995 and h not been remeasured. Grazing occurs during winter an early spring. climax: 0 acres late seral: 172 acres mid seral: 111 acres early seral: 289 acres unclassified: 23 acres				
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	same as exis private private	sting n/a	public public	n/a (same as existing)	
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private private	n/a	public public	n/a (same as existing)	

Location: Category: AUMs within lease:	Segment 3 C 117	River N	/liles 139	9.0 - 140.8	
Miles of river bank	private	1.1	public	0.7	
Acres within WSR boundaries	private	157	public		
Acres within allotment	private		public		
Riparian management in 1988		ugh spri	•	ermittee, trespass grazing during	
NEPA documents	none				
Riparian management in 1999	winter, tresp	ass resc	lved.		
Riparian monitoring	•				
Upland monitoring	none				
Ecological Status as measured in 1980:	climax: 21 ac late seral: 86 mid seral: 54 early seral: 6 unclassified:	64 acres 1 acres 634 acre	S		
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be rch 15 to May 15 period.	
No Riparian Grazing miles of fence	private	1.2	public	0.6	
acres excluded other actions	private	7	public	4	
No Grazing: miles of fence	private	0.0	public	2.8	
acres excluded	private	42	public	520	
public land AUMs canceled Other actions	17				

Location: Category: AUMs within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:	Segment 3 C 20 private private winter and s grazing tress 92-044 exclusion none climax: 43 au late seral: 99 early seral: 7 unclassified:	1.0 70 481 pring by bass dur cres acres acres acres acres 76 acres	public public public permitte ring low	0.0 0 330 ee, riparian areas subject to
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	same as exis private private private private	sting n/a n/a	public	n/a (same as existing) n/a (same as existing)
Other actions				

Draft John Day River Plan and EIS 2577 Byrd's Point

Dyra's rollin					
Location:	Segment 3	River Miles 131.7 - 134.2 River Miles 135.3 - 136.4			
Category:	1				
AUMs within lease:	94				
Miles of river bank	private	1.6	public	2.0	
Acres within WSR boundaries	private	305	public		
Acres within allotment	private	4612	public		
Riparian management in 1988	season long		public	1100	
NEPA documents	87-003, 98-0				
Riparian management in 1999	exclusion				
Riparian monitoring					
rapanan mennemig	0.0 river miles in 1981 to 0.35 river miles in 1995.				
Upland monitoring					
opiana monitoring	been remeasured.				
Ecological Status as measured in 1980:	climax: 224				
	late seral: 495 acres				
	mid seral: 442 acres				
	early seral: 402 acres				
	unclassified: 0 acres				
		0 0.0100			
Restricted grazing, necessary actions:	same as exi	stina			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
other actions	F		1		
No Grazing: miles of fence	private	0.0	public	1.6	
acres excluded	private	80	public	360	
public land AUMs canceled	25				
Other actions					

IIIIIe Feak						
Location:	Segment 3	3 River Miles 122.0 - 131.6				
Category:	I 00.1					
AUMs within lease:	294			2.0		
Miles of river bank	private	5.7	public			
Acres within WSR boundaries	private	839	public			
Acres within allotment	private		public			
Riparian management in 1988	winter and spring by permittee, riparian areas received grazing trespass during low river flows.					
NEPA documents	87-003					
Riparian management in 1999	spring					
Riparian monitoring		ort: show	rs an inc	rease in willow communities from		
				8 river miles in 1995.		
Upland monitoring	Trend plot (Daubenmire) established in 1995 has not been remeasured.					
Ecological Status as measured in 1980:	: climax: 348 acres					
	late seral: 1479 acres mid seral: 1304 acres early seral: 1218 acres					
	unclassified:	0 acres	;			
Restricted grazing, necessary actions:	Adjust the le	ease to c	onfine a	razing period within the dates of		
0 0, ,	November 1 to June 1 on pastures with access to riverbank					
	Dates of aut	horized	use wou	Ild be determined by plant		
	phenology, herd size and available forage, but would be					
	restricted no	ormally to	o the Ma	rch 15 to May 15 period.		
No Riparian Grazing miles of fence	private	5.7	public	3.9		
acres excluded	private	34	public	24		
other actions						
No Grazing: miles of fence	private	0.8	public	2.1		
acres excluded	private	174	public	800		
public land AUMs canceled	35					
Other actions						

2535 Hayfield	
ZONO ERVILEIO	

Location: Category: AUMs within lease:	Segment 3 C 11	River Miles 118.0 - 119.6				
Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:	private private private season long 87-010, 90-0 spring none none climax: 0 act late seral: 30 mid seral: 31 early seral: 0 unclassified:)89 res)1 acres I acres) acres		0.7 86 345		
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be s during the March 15 to May 15		
No Riparian Grazing miles of fence acres excluded other actions	private private	1.2 7	public public			
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private private 0	0.0 0	public public	0.0 90		

Location: Category: AUMs within lease:	Segment 3 C 7	River Miles 112.9 - 116.9			
Miles of river bank	private	3.2	public	0.8	
Acres within WSR boundaries	private	731	public		
Acres within allotment	private	900	public		
Riparian management in 1988	•	eas subjected to grazing			
Ripanan management in 1999	trespass dur				
NEPA documents	none				
Riparian management in 1999	autumn throu	ugh sprii	ng		
Riparian monitoring	none	• •	-		
Upland monitoring	none				
Ecological Status as measured in 1980:	climax: 22 acres				
	late seral: 93 acres				
	mid seral: 83	8 acres			
	early seral: 76 acres unclassified: 1 acres				
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size	1 on pa use wou and ava the Ma	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be rch 15 to May 15 period.	
No Riparian Grazing miles of fence	private	1.8	public	0.4	
acres excluded other actions	private	9	public	2	
No Grazing: miles of fence	private	0.1	public	1.1	
acres excluded	private	30	public	34	
5	•	30	public	34	
acres excluded	private	30	public	34	

Location: Category: AUMs within lease: Miles of river bank Acres within WSR boundaries Acres within allotment	Segment 3 C 3 private private private			otment contains no river bank, but R boundaries. 0.0 300 301	
Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:	n/a, allotment within the WSR corridor, but not on the river. none n/a, allotment within the WSR corridor, but not on the river. none none climax: 0 acres				
	late seral: 17 mid seral: 0 early seral: unclassified:	acres 118 acre 11 acre	S		
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	same as exi private private	sting n/a	public public	n/a (same as existing)	
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private private 3	0.1 0	public public	0.7 300	

pring basin					
Location:	Segment 3 portions	River M	liles no	riverbank on allotment, but	
Category:	i	lie with	n the W	SR boundaries.	
AUMs within lease:	146				
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries	private	3	public	90	
Acres within allotment	private	-	public		
Riparian management in 1988	no riverbank		public	5505	
NEPA documents					
Riparian management in 1999	no riverbank				
Riparian monitoring	none				
Upland monitoring			() in the	Spring Popin WSA was	
Opiand monitoring				Spring Basin WSA was	
				easured in 1990. Grazing	
				ovember 1 and February 28.	
	There is no o			-	
	Trend plot (3x3 photoplot) in the Spring Basin established in 1987 and remeasured in 1990. generally occurs between November 1 and Fe				
	• •				
Feelenieel Statue on managurad in 1000;	There is no o		ole char	ige.	
Ecological Status as measured in 1980:	climax: 0 acr		-		
	late seral: 32		5		
	mid seral: 45				
	early seral: 1				
	unclassified:	200 acr	es		
Postricted grazing personally estimations:		oting			
Restricted grazing, necessary actions:	same as exis	•	nublia	n/a (come on aviating)	
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
other actions		0.4		4.4	
No Grazing: miles of fence	private	0.1	public	1.1	
acres excluded	private	0	public	100	
public land AUMs canceled	2				
Other actions					

2630 Tripp						
Location: Category: AUMs within lease:	Segment 3 I 7	River I	Viles 111	.9 - 112.5		
Miles of river bank	private	0.4	public	0.2		
Acres within WSR boundaries	private	18	public	80		
Acres within allotment	private	18	public	80		
Riparian management in 1988	season long					
NEPA documents	none					
Riparian management in 1999	season long					
Riparian monitoring	•			rease in willow communities from 6 river miles in 1995.		
Upland monitoring	Trend plot (f	requend	y) in the	Upland Pasture was established		
	• •		• ·	993. Grazing is winter use only		
	and monitori	ng shov	ws an inc	crease in Stipa thurberiana.		
	Trend plot (3	3x3 phot	toplot) in	the Upland Pasture was		
				easured in 1993. Grazing is		
		nly and	monitori	ng shows an increase in <i>Festuca</i>		
	idahoensis.					
	Trend plot (3x3 photoplot) in the Upland Pasture was established in 1987 and remeasured in 1993. Grazin					
	winter use only and monitoring shows a decrease in F					
Ecological Status on manufactin 1090:	secunda.					
Ecological Status as measured in 1980:	: climax: 6 acres late seral: 27 acres					
	mid seral: 24 acres					
		v seral: 22 acres				
	unclassified:					
Restricted grazing, necessary actions:				s of fence. Adjust use		
	authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be deper upon recovery as evaluated by an interdisciplinary team					
	subject to management prescription to sustain function					
No Disprise Orania wiles of forme	condition.	0.4		0.0		
No Riparian Grazing miles of fence	private	0.4	public			
acres excluded	private	2	public	1		
other actions No Grazing: miles of fence	private	0.0	public	0.3		
	•		•			
	nrivate	18	nunic	80		
acres excluded	private 7	18	public	80		
acres excluded public land AUMs canceled Other actions	private 7	18	public	80		

Location: Category: AUMs within lease:	Segment 3 River Miles 153.7 - 156.0 I 16						
Miles of river bank	private	1.5	public	0.8			
Acres within WSR boundaries Acres within allotment	private private	120 1596	public public	161			
Riparian management in 1988 NEPA documents	non-use by lessee, but trespass use occurring season long 98-058						
Riparian management in 1999	spring						
Riparian monitoring							
Upland monitoring	Trend plot (3x3 photoplot) was established in 1989 and remeasured in 1994. Sporadic trespass use occurring season long. Monitoring shows an increase in <i>Stipa comata</i> .						
Ecological Status as measured in 1980:							
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of November 1 to June 1 on pastures with access to riverbank Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to the March 15 to May 15 period and rested every other year.						
No Riparian Grazing miles of fence	private	n/a ĺ		n/a (same as no grazing)			
acres excluded other actions	private		public				
No Grazing: miles of fence	private	0	public	0			
acres excluded	private	0	public	240			
public land AUMs canceled Other actions	3						

Location: Category: AUMs within lease:	Segment 3 I 243	River N	/liles 147	7.6 - 150.2
Miles of river bank	private	1.2	public	1.4
Acres within WSR boundaries	private	111	public	
Acres within allotment	private	400	public	
Riparian management in 1988	•		•	curring season long
NEPA documents	92-044, 98-0			carning occoorniong
Riparian management in 1999	exclusion			
Riparian monitoring		rt. show	s an inc	rease in willow communities from
Ripanan montoning	•			7 river miles in 1995.
Upland monitoring	none			, inco in 1000.
Ecological Status as measured in 1980:		atus wa	s detern	nined for 1360 acres, an
				ne public in 1992, but status for
				ermined when possible.
	climax: 176			ennined when possible.
	late seral: 414 acres mid seral: 408 acres early seral: 312 acres			
	•	ssified: 50 acres		
	unciassineu.	50 4016	3	
Restricted grazing, necessary actions:	same as exis	stina		
No Riparian Grazing miles of fence	private	n/a	nublic	n/a (same as existing)
acres excluded	private	11/4	public	Ina (same as existing)
other actions	pinale		Public	
No Grazing: miles of fence	private	0.0	public	0.3
acres excluded	private	0.0 91	public	
public land AUMs canceled	private 7	31	public	30
Other actions	1			

iunay noward							
Location: Category: AUMs within lease:	Segment 3 River Miles 150.2 - 156.0 I 33						
Miles of river bank	private	3.2	public	2.6			
Acres within WSR boundaries	private	652	public				
Acres within allotment	private	7840	public				
Riparian management in 1988	winter, spring, summer						
NEPA documents	98-058	g, cann					
Riparian management in 1999	exclusion						
Riparian monitoring		(Dauber	nmire co	ver board) at river mile 153.4,			
	•	•		easured in 1994. Accurate			
	grazing infor	mation	not avail	able, but random observations			
	indicated va	rious an	nounts o	f use occurred spring, summer			
		Monitori	ng show	s a decrease in willow density at			
	this study.						
				rease in willow communities from			
				5 river miles in 1995.			
Upland monitoring				as established in 1989 and			
	remeasured in 1994. Accurate grazing information not						
	available, but random observations indicate various amount						
	of use occurred spring, summer and winter. Monitoring shows no discernable change.						
Ecological Status as measured in 1980:	climax: 59 a		ic chang	0.			
	late seral: 12						
	mid seral: 36						
	early seral: 4						
	unclassified	39 acre	es				
Restricted grazing, necessary actions:	same as exi	•					
No Riparian Grazing miles of fence	private	n/a	•	n/a (same as existing)			
acres excluded	private		public				
other actions No Grazing: miles of fence	private	0.2	public	2.4			
acres excluded	private	0.2 189	public				
public land AUMs canceled	16	103	Public	020			
Other actions	10						

2570 Zack Keys				
Location: Category: AUMs within lease:	Segment 3 I 58	River I	Viles 148	3.8 - 149.6
Miles of river bank	private	0.6	public	0.2
Acres within WSR boundaries	private	204	public	98
Acres within allotment	private	1680	public	1607
Riparian management in 1988	season long	I	•	
NEPA documents	98-058			
Riparian management in 1999	exclusion			
Riparian monitoring	Willow Repo	ort: show	/s an inc	rease in willow communities from
	0.0 river mile	es in 198	31 to 0.1	0 river miles in 1995.
Upland monitoring	ng Trend plot (3x3 photoplot) was established in 1987, but			
	destroyed a		ablished	in 1995.
Ecological Status as measured in 1980:	climax: 0 ac			
	late seral: 0			
	mid seral: 1		es	
	early seral:			
	unclassified	: 59 acre	es	
Restricted grazing, necessary actions:	same as exi	etina		
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private	Π/α	public	n/a (same as existing)
other actions	pinate		public	
No Grazing: miles of fence	private	0.0	public	0.6
acres excluded	private	0	public	90
public land AUMs canceled	2	-		
Other actions				

Location:	Segment 3	River Miles 145.6 - 148.8 River Miles 150.9 - 153.7					
Category: AUMs within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Biparian management in 1000	I 71 private private private season long 98-058 oxclusion	3.8 427 7885	public public public	2.2 449			
Riparian management in 1999 Riparian monitoring							
Upland monitoring Ecological Status as measured in 1980:	Trend plot (3x3 photoplot) was established near river mile 152.4 in 1989, but destroyed and then reestablished in 1995 as a Daubenmire study. climax: 203 acres late seral: 1239 acres mid seral: 219 acres early seral: 266 acres unclassified: 74 acres						
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	same as exis private private private private 12	sting n/a 0.0 107	public public public public	n/a (same as existing) 1.0 440			

2589	McQuinn
2000	10 Quintin

<i>.</i>	Moguinn				
	Location:	Segment 4 but	River M	liles alle	otment contains no river bank,
	Category:	С	lies wit	hin 1/4 r	nile of the river.
	AUMs within lease:	1			
	Miles of river bank	private	0.0	public	0.0
	Acres within WSR boundaries	private	0	public	0
	Acres within allotment	private	322	public	40
	Riparian management in 1988	no river bank	ĸ		
	NEPA documents	none			
	Riparian management in 1999	same as abo	ove		
	Riparian monitoring	No establish		-	
	Upland monitoring	No establish	udies		
	Ecological Status as measured in 1980:	climax: 3 ac late seral: 1 mid seral: 1 early seral: unclassified:			
	Restricted grazing, necessary actions:	same as exis	sting		
	No Riparian Grazing miles of fence	private	n/a	•	n/a (same as existing)
	acres excluded other actions	private		public	
	No Grazing: miles of fence	private	n/a	public	n/a (same as existing)
	acres excluded	private		public	· · · · · · · · · · · · · · · · · · ·
	public land AUMs canceled				
	Other actions				

Location:	Segment 4 but	River Miles allotment contains no river b				
Category: AUMs within lease:	C 166		lies within 1/4 mile of the river.			
Miles of river bank	private	0.0	public	0.0		
Acres within WSR boundaries	private	0	public	0		
Acres within allotment	private	13,570	public	2194		
Riparian management in 1988	No river ban	k within	the allot	ment		
NEPA documents	none					
Riparian management in 1999	same as abo					
Riparian monitoring						
Upland monitoring	-					
Ecological Status as measured in 1980:	late seral: 7		2			
	mid seral: 0					
	early seral:					
	unclassified					
Restricted grazing, necessary actions:	same as exi	-				
No Riparian Grazing miles of fence	private	n/a	•	n/a (same as existing)		
acres excluded	private		public			
other actions	privoto	n/a	public	n/a (come on existing)		
No Grazing: miles of fence acres excluded	private private	II/a	public	n/a (same as existing)		
public land AUMs canceled	Private		Public			
Other actions						

2517 Borschawa

Location:	Segment 4 but	nt 4 River Miles allotment contains no rive				
Category: AUMs within lease:	C 6	lies wit	thin 1/4 r	nile of river		
Miles of river bank	private	0.0	public	0.0		
Acres within WSR boundaries	, private	0	, public	0		
Acres within allotment	, private	2040	public	120		
Riparian management in 1988 NEPA documents	No river ban none	ık within	the allot	ment		
Riparian management in 1999	same as abo	ove				
Riparian monitoring	No establish	ned mon	itoring st	tudies		
Upland monitoring	5					
Ecological Status as measured in 1980:						
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	same as exi private private	sting n/a	public public	n/a (same as existing)		
No Grazing: miles of fence acres excluded public land AUMs canceled Other actions	private private	n/a	public public	n/a (same as existing)		

2563 Horseshoe Creek

IOISESHUE CIEEK	
Location: Category: AUMs's within lease:	Segment 4 River Miles: 158.2 - 170.0 M 100
Miles of riverbank:	private 8.8 public 3.0
Acres within WSR boundaries:	private 0 public 0
Acres within allotment:	private 26,740 public: 1,667
Riparian management in 1988:	Exclusion of 0.5 miles, spring grazing (5/1 to 6/15) on 1.5 miles, and season long on 1.0 mile of public riverbank, season long on 8.8 miles of private river bank.
NEPA documents:	None
Riparian management in 1999:	Exclusion of 0.5 mile of public river bank, grazing from 10/1 until 2/10 on 2.5 miles of public and 8.8 miles of private river bank.
Riparian monitoring:	Photo point at river mile 161.7, established in 1987, and reread in 1990 and 1995. Monitoring shows an increase in herbaceous vegetation on the gravel bars.
Upland monitoring	Trend plot (3 X 3 photoplot) was established in 1990 and reread in 1995. Monitoring shows an increase in <i>Stipa</i> <i>comata</i> and <i>Sporobolus cryptandrus</i> A line intercept study(frequency) was established in 1991.
Ecological Status as measured in 1980:	Study has not been reread. climax: 0 acres late seral: 160 acres mid seral:. 530 acres early seral: 333 acres unclassified: 39 acres
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of October 1 to May 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to 60 days during the December 15 to May 1 period. Adjust lease to prohibit grazing on public lands within riparian exclosure.
No Riparian Grazing miles of fence: acres excluded:	private 8.8 public 2.5 private 107 public 36
other actions:	none private 8.8 public 2.5
No Grazing miles of fence: acres excluded:	private 8.8 public 2.5 private 1408 public 480
Public land AUMs canceled	48
Other Actions	None

Draft John Day River Plan and EIS 2625 David Stirewalt

Location Category: AUMs with lease:	Segment 4 I 65	River N	0.3 - 163.0				
Miles of river bank: Acres with WSR boundaries: Acres within allotment Riparian management in 1988: NEPA documents Riparian management in 1999 Riparian monitoring: Upland monitoring:	private private exclusion of none same as abo No establish Trend plot (3 highway nor Grazing is e established. <i>cryptandrus.</i> Trend plot (1 has not been	private 0 public 0 private 4280 public 1340 exclusion of 2.7 miles of river bank. none same as above. No established photo points. Trend plot (3 X 3 photoplot) established in 1987 north of the highway north of the John Day River and reread in 1992. Grazing is excluded from the area where the study was established. Monitoring showed as increase in <i>Sporobolus</i>					
Ecological Status as measured in 1980:	area where the study was established. climax: 0 acres late seral: 0 acres mid-seral: 1,121 acres early-seral: 169 acres unclassified: 50 acres						
Restricted grazing, necessary actions:	same as existing. Adjust use authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be dependant upon recovery evaluated by an interdisciplinary team and subject to management prescription to sustain functioning conditi						
No Riparian Grazing miles of fence: acres excluded other actions:	private: private: none	n/a	public: public:	n/a (same as existing)			
No Grazing: miles of fence: acres excluded public land AUMs canceled: Other actions:	private private 43	0 0	public public				

Segment 4	River I	Miles: 16	63 - 167.2		
1					
	2.2	public	2.0		
•		•	0		
•	-	•			
•		public.	920		
0					
	ion				
	•	•			
			prohibit grazing on public lands		
dependant u	ipon rec bject to	overy as manage	eactivation of use would be evaluated by an interdisciplinary ment prescription to sustain		
dependant u team and su	ipon rec bject to	overy as manage 1.	evaluated by an interdisciplinary		
dependant u team and su functioning o private: private:	ipon rec bject to conditior	overy as manage n. public:	evaluated by an interdisciplinary ment prescription to sustain n/a (same as existing)		
dependant u team and su functioning o private: private: none	ipon rec bject to conditior n/a	overy as manage n. public: public: public	evaluated by an interdisciplinary ment prescription to sustain n/a (same as existing)		
	I 33 private: private: private Season 97-121 Exclus No establish No establish Adjust use a	I 33 private: 2.2 private: 0 private 8180 Season long 97-121 Exclusion. No established phot No established mon Adjust use authoriza	private: 2.2 public private: 0 public private 8180 public: Season long 97-121 Exclusion. No established photo points. No established monitoring st		

2613 Frank R. Robinson

Location: Category: AUMS within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:	Segment 4 C 4 private private private spring, summone same as abo No establish No establish climax: 0 ac late seral: 0 mid seral: 1 early seral: unclassified:	0.0 0 1230 ner (5/1 ove. ed moni ed moni cres acres 93 acres 0 acres	public public public - 8/31) toring st toring st	0.3 0 240 udies.
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size rmally to	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be s during the December 15 to
No Riparian Grazing miles of fence	private	0.0	public	0.3
acres excluded other actions	private	0	public	3
No Grazing: miles of fence	private	0.0	public	
acres excluded public land AUMS canceled Other actions	private 3	0	public	115

Location: Category: AUMS within lease:	Segment 4 C 11	River I	Viles 17	6.4 - 177.8
Miles of river bank		1.4	public	0.0
Acres within WSR boundaries	private	0	public	
Acres within allotment	private	1320	public	
Riparian management in 1988				ate land river bank.
, NEPA documents	none		•	
Riparian management in 1999	same as abo	ove.		
Riparian monitoring	No establish	ed mon	itoring st	udies.
Upland monitoring	No establish	ed mon	itoring st	udies.
Ecological Status as measured in 1980:	climax: 0 ac	res		
	late seral: 2		S	
	mid seral: 0) acres		
	early seral:			
	unclassified	12 acr	es	
Postricted grazing pacessary actions:	sama as avi	etina		
Restricted grazing, necessary actions: No Riparian Grazing miles of fence	same as exi	n/a	nublic	n/a (same as existing)
acres excluded	private private	II/a	public public	n/a (same as existing)
other actions	private		public	
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private	n/a	public	n/a (barno ao bxibiling)
public land AUMS canceled	pintato		paono	
Other actions				

Draft John Day River Plan and EIS 2627 Robert W. Straub

Location: Category: AUMS within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring Ecological Status as measured in 1980:	Segment 4 C 69 private private Spring and s none exclusion No establish climax: 0 act late seral: 0 mid seral: 2 early seral: unclassified:	0.0 0 5000 summer ed moni ed moni res acres 88 acres 365 acres	public public public toring st toring st	1.4 0 678 udies.
Restricted grazing, necessary actions:	within riparia dependant u	in exclos pon rece bject to	sure. Re overy as manage	prohibit grazing on public lands eactivation of use would be evaluated by an interdisciplinary ment prescription to sustain
No Riparian Grazing miles of fence	private	0.0	public	1.4
acres excluded other actions	private	0	public	17
No Grazing: miles of fence	private	0.0	public	3.3
acres excluded	private	0	public	224
public land AUMS canceled Other actions	22			

2575 Andrew Leckie

Segment 4 I 1	River M	1iles: 18 ⁻	1.0 - 181.3	
private	0	public:	0.5	
	0	•		
	2.000	•		
•	,			
none				
Exclusion of 0.5 miles of river bank				
Photo point established in 1987. Photo point has not been				
Trend plot(3 X 3 photoplot) established in 1987 and reread in 1988. Increase in <i>Sporobolus cryptandrus</i>				
): climax: 0 acres late seral: 0 acres mid-seral: 14 acres early-seral 39 acres unclassified: 2 acres				
Adjust use authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be dependant upon recovery as evaluated by an interdisciplinary team and subject to management prescription to sustain functioning condition.				
private private pone	n/a	public public	n/a (same as existing)	
	0.0	public	1.0	
		•	160	
1				
none				
	I 1 private private private exclusion of none Exclusion of Photo point of reread. Trend plot(3 1988. Increat climax: 0 act late seral: 0 mid-seral: 14 early-seral 3 unclassified: Adjust use a within ripariat dependant ut team and su functioning of private private private private private 1	I 1 private 0 private 2,000 exclusion of 0.5 mile none Exclusion of 0.5 mile Photo point establish reread. Trend plot(3 X 3 pho 1988. Increase in <i>SJ</i> climax: 0 acres late seral: 0 acres mid-seral: 14 acres early-seral 39 acres unclassified: 2 acres Adjust use authoriza within riparian exclose dependant upon rece team and subject to functioning condition private n/a private 0.0 private 0 1	private0public:private0publicprivate2,000publicexclusion of 0.5 miles of rivenoneExclusion of 0.5 miles of rivePhoto point established in 19reread.Trend plot(3 X 3 photoplot) e1988. Increase in Sporoboldclimax: 0 acreslate seral: 0 acresmid-seral: 14 acresearly-seral 39 acresunclassified: 2 acresAdjust use authorizations to ream and subject to managefunctioning condition.privaten/apublicprivate0.0publicprivate0publicprivate0publicprivate0publicprivate0publicprivate0publicprivate0publicprivate0publicprivate0publicprivate0publicprivate0publicprivate0publicprivatepublicprivatepublicprivatepublicprivatepublicprivatepublicprivatepublicprivatepublicprivatepublicprivatepublicprivatepublicprivatepublic	

2554 Charles Hill

4 Charles Hill						
Location:	Segment 4 River Miles 178.5 - 181.0, 181.3 - 182.8					
Category: AUMS within lease:	86					
Miles of river bank:	private 7.3 public 0.8					
Acres within WSR boundaries	private 0 public 0					
Acres within allotment:	private 1,520 public 1,835					
Riparian management in 1988:	Spring grazing on 0.8 miles of public and 2.0 miles of					
	private river bank and summer grazing on 5.3 miles of private					
	river bank.					
NEPA documents:	none					
Riparian management in 1999:	same as above. No established monitoring studies.					
Riparian monitoring: Upland monitoring:	Trend plot(3 X 3 photoplot) was establish in 1987 and reread					
opiand monitoring.	in 1991 and 1996. Livestock graze the pasture during the					
	spring, mid-April to the end of May. Monitoring shows an					
	increase in Sporobolus cryptandrus.					
	Trend plot(3 X 3 photoplot) was established in 1991 and					
	reread in 1996. Livestock grazed the pasture from April 15					
	until May 31. Monitoring shows no increase in perennial					
	plants in the study plot. Agropyron spicatum can only be					
	seen in areas in between rocks.					
	Trend plot(3 X 3 photoplot) was established in 1993. Photoplot has not been reread.					
	Line intercept study(frequency) was established in 1991 and					
	reread in 1996. Livestock graze the pasture from April 15					
	until May 31. There was no increase in the frequency of key species.					
	Trend plot(3 X 3 photoplot) was established in 1991 and					
	reread in 1996. Livestock graze the pasture from April 15					
	until May 31. Topography limits the amount of time that					
	livestock graze the area. Monitoring shows an increase in ground cover of herbaceous vegetation.					
Ecological Status as measured in 1980						
	late seral: 556 acres					
	mid seral: 1,751 acres					
	early seral: 156 acres					
	unclassified: 94 acres.					
	A Provide Lance Grant Control to a state of the later of					
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of					
	April 15 to June 30 on pastures with access to riverbank. Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be					
	restricted normally to 14 days during the grazing period.					
No Riparian Grazing miles of fence:	private 7.3 public 0.8					
acres excluded:	private 88 public: 10					
other actions:	none					
No Grazing miles of fence:	private 7.8 public: 1.3					
acres excluded:	private 560 public: 128					
Public land AUMS canceled: Other actions	13					

2528 Sentinel Peak

Location: Category: AUMS's within lease	Segment 4 C 44					
Miles of river bank: Acres within WSA boundaries:	private: private	3.0 0	public: public			
Acres within the allotment	private	1,335	•			
Riparian management in 1988:	Spring grazing, April 15 to May 31, of 0.5 miles of public an 1.5 miles of private river bank and no livestock grazing on 0 miles of public and 1.5 miles of private river bank.					
NEPA documents:	91-018, 88-088, 88-062					
Riparian management in 1999:	same as above					
Riparian monitoring:	No establish					
Upland monitoring:	No established monitoring plots.					
Ecological status as measured in 1980:	 climax: 0 acres late seral: 474 acres mid seral: 0 acres early seral: 720 acres unclassified: 46 acres 					
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of April 15 to May 31 on pastures with access to riverbank.					
No Riparian Grazing miles of fence:	private	3.0	public	1.0		
Acres excluded: Other actions	private none	18	public	6		
No Grazing miles of fence	private	3.5	public	1.5		
Acres excluded: Public land AUMS's canceled: Other actions:	private 8 none	240	public	80		

·····						
4145 Two County						
Location:	Segment 4	River r	niles 18	4.5 - 190.5		
Category:	I					
AUMS within the lease:	1,105					
Miles of riverbank:	private	10.6	public	1.4		
Acres within WSR boundaries:	private	0	public	0		
Acres within allotment:	private	12,750	public	13,796		
Riparian management in 1988:	: Season long					
NEPA documentation:						
Riparian management in 1999:	Exclusion					
Riparian monitoring:	No established monitoring studies					
Upland monitoring:	: Trend plot(3 ft. X 3 ft.) established on the allotment in 1988					
	and reread i	n 1993 a	and 1998	Livestock graze the pasture		
	from May 1 until the end of Sept. There is no discernable					
	change.					
Restricted grazing, necessary actions:	•			prohibit grazing on public lands		
	within riparian exclosure. Reactivation of use would be					
	dependant upon recovery as evaluated by an interdisciplinary					
	team and subject to management prescription to sustain					
	functioning of					
No Riparian Grazing: miles of fence:	private	n/a	•	n/a (same as existing)		
Acres excluded:	private		public			
No Grazing miles of fence:	private	n/a	•	n/a (same as existing)		
Acres excluded:	private		public			
Public land AUMS's canceled:						
Other actions:						

Location: Category: AUMS's Within Lease: Miles of riverbank: Acres within WSA boundaries: Acres within the allotment	Segment 4 I 7,698 private private private	2.5 0	liles: 18 public public public	0.5 0		
Riparian management in 1988: NEPA documentation: Riparian management in 1999:	Grazing from none Exclusion					
Riparian monitoring: Upland monitoring:	Trend plot(3 1990 and 19	hed monitoring studies. 3 ft. X 3 ft.) established in 1997 and reread in 995. Grazing occurred from 5/1 to 9/30 in the Ionitoring showed an increase in <i>Festuca</i>				
Restricted grazing, necessary actions:	Adjust use authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be dependant upon recovery as evaluated by an interdisciplinary team and subject to management prescription to sustain functioning condition.					
No Riparian Grazing miles of fence: Acres excluded: Other actions:	private private none	n/a	public public	n/a (same as existing)		
No Grazing: miles of fence: Acres excluded: Public land AUMS's canceled: Other actions:	private: private	n/a	public public	n/a (same as existing)		

2501 Herbert Asher

Location: Category:	Segment 4	4 River Miles 194.5 - 196.8				
AUMS within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents	101 private private private Exclusion of	4.0 0 2039 all river	public public public bank.	0.3 0 1999		
Riparian management in 1999 Riparian monitoring Upland monitoring	same as above. No established monitoring studies. Trend plot (3x3 photoplot) established in 1991 and remeasured in 1996. Livestock graze the pasture in late fall Monitoring shows an increase in <i>Agropyron intermedium</i> . Trend plot (line intercept) established in 1991 and remeasured in 1996. Livestock graze the pasture in late fall Monitoring shows an increase in <i>Artemisia tridentata</i> . Trend plot (3x3 photoplot) established in 1991 and remeasured in 1996. Livestock graze the pasture in winter. Monitoring shows no discernable change. Trend plot (3x3 photoplot) established in 1991 and remeasured in 1996. Livestock graze the pasture in late fall Monitoring shows no discernable change. Trend plot (3x3 photoplot) established in 1991 and remeasured in 1996. Livestock graze the pasture in late fall Monitoring shows no discernable change. Trend plot (line intercept) established in 1991 and remeasured in 1996. Livestock graze the pasture in late fall Monitoring shows no discernable change. Trend plot (line intercept) established in 1991 and remeasured in 1996. Livestock graze the pasture in late fall Monitoring shows no discernable change. Trend plot (line intercept) established in 1991 and remeasured in 1996. Livestock graze the pasture in late fall Monitoring shows no discernable change. climax: 0 acres late seral: 608 acres mid seral: 223 acres					
	early seral: 1093 acres unclassified: 75 acres					
Restricted grazing, necessary actions:	Adjust use authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be dependant upon recovery as evaluated by an interdisciplinary team and subject to management prescription to sustain functioning condition.					
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)		
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)		

Location: Category: AUMS within lease:	Segment 4 C 196	River N	/liles 196	5.2 - 198.2		
Acres within WSR boundaries Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999	private private private spring none	1.5 0 1918	public public public	0.5 0 1160		
Riparian management in 1999 Riparian monitoring Upland monitoring	No established monitoring studies.					
Restricted grazing, necessary actions:	Adjust use authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be dependant upon recovery as evaluated by an interdisciplinary team and subject to management prescription to sustain functioning condition.					
No Riparian Grazing miles of fence	private	n/a		n/a (same as existing)		
acres excluded other actions	private		public			

Draft John Day River Plan and EIS 2558 Squaw Creek

Location: Category: AUMS within lease:	y: I					
Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring	private private private Exclusion none same as abo	1.6 0 7800	public public public	0		
Upland monitoring						
Ecological Status as measured in 1980:						
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	same as exis private private	sting n/a	public public	n/a (same as existing)		
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)		

Location: Category: AUMS within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1989 Riparian monitoring Upland monitoring	remeasured 30. Monitori Trend plot (3 remeasured from 4/15 - 1 <i>hystrix.</i> Trend plot (3 remeasured Trend study remeasured 10/30. Moni Trend study remeasured	4.0 0 4440 ove. ine inter in 1998 ing shov 3x3 phot in 1992 0/30. F 8x3 phot (3x3 phot in 1998 toring sl (line inter in 1998	public public public public cept) est . Author vs the ar oplot) est and 199 Photos sl oplot) est indicate otoplot) . Livesto hows a c ercept) est	0
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	same as exis private private	sting. n/a	public public	n/a (same as existing)
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)

Draft John Day River Plan and EIS 4007 Windy Point

Location: Category: AUMS within lease:	Segment 4 I 407	River N	/liles 207	7.8 - 209.0
Miles of river bank	private	1.2	public	0.0
Acres within WSR boundaries	private	0	public	0
Acres within allotment	private	3330	public	2514
Riparian management in 1988	spring			
NEPA documents	none			
Riparian management in 1999	spring			
Riparian monitoring	No establish	ed mon	itoring st	udies.
Upland monitoring				
Restricted grazing, necessary actions:	same as exi	sting		
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private		public	
other actions				
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private		public	
public land AUMS canceled				
Other actions				

Location: Category: AUMS within lease:	Segment 4 I 292	River M	liles 208	8.5 - 209.8
Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988	private private private season long	2.6 0 2090	public public public	
NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring	remeasured spring, monivegetation. Trend plot (li remeasured spring and s frequency of Trend plot (li graze the pa discernable of Trend plot (S remeasured	x3 photo in 1995. toring sh ne intero in 1994. ummer, <i>Agropy</i> ne intero sture du change. 3x3 phot in 1994.	oplot) es Livesto nows no cept) est Livesto monitori ron spica cept) est toplot) es Livesto	tablished in 1989 and ock graze the pasture during discernable change in ablished in 1989 and ock graze the pasture during ng shows a decrease in the
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	same as exis private private	sting. n/a	public public	n/a (same as existing)
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)

4041 Franks Creek

Location: Category: AUMS within lease:	Segment 4 C 225	River N	/liles 21	2.0 - 212.3	
Miles of river bank	private	0.3	public		
Acres within WSR boundaries	private	0	public		
Acres within allotment	private	1255	public		
Riparian management in 1988 NEPA documents	EXClusion of	0.3 mile	es or priv	rate river bank.	
Riparian management in 1999	same as abo	ove.			
Riparian monitoring	No establish	ed mon	itoring st	udies.	
Upland monitoring	• •		• •	stablished in 1988 and	
		remeasured in 1993 and 1999. Livestock graze this pastur			
	Lupinus spp		ate Augi	ust. Photos show an increase in	
Restricted grazing, necessary actions:			ate Augi	ust. Photos show an increase in	
Restricted grazing, necessary actions: No Riparian Grazing miles of fence	Lupinus spp		ate Augi public	n/a (same as existing)	
	<i>Lupinus spp</i> same as exi	sting	Ū		
No Riparian Grazing miles of fence acres excluded	<i>Lupinus spp</i> same as exi private	sting	public	n/a (same as existing)	
No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded	<i>Lupinus spp</i> same as exi private private	sting n/a	public public	n/a (same as existing)	
No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence	Lupinus spp same as exi private private private	sting n/a	public public public	n/a (same as existing)	

Location: Category: AUMS within lease:	Segment 5 C 20	River I	Miles 22	6.2 - 226.3	
Miles of river bank	private	0.1	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	33	public	320	
Riparian management in 1988 NEPA documents	•				
Riparian management in 1999	same as ab	ove.			
Riparian monitoring	No establish		•		
Upland monitoring	No established monitoring studies.				
Restricted grazing, necessary actions:	same as exi	sting.			
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)	
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)	

Draft John Day River Plan and EIS 4084 Lower Damond

Location: Category: AUMS within lease:	Segment 5 C 36	River N	Ailes 235	5.0 - 235.4	
Miles of river bank	private	0.8	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	220	public	240	
Riparian management in 1988	spring		-		
NEPA documents	none.				
Riparian management in 1999	same as abo	ove.			
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No establish	ed mon	itoring st	udies.	
Restricted grazing, necessary actions:	same as exi	stina			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private	n/a	public	liva (same as existing)	
other actions	private		public		
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled					
Other actions					

Location: Category: AUMS within lease:	Segment 5 C 14	River N	/liles 24§	9.5 - 251.7	
Miles of river bank	private	4.4	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	7860	public	80	
Riparian management in 1988	unknown				
NEPA documents	none				
Riparian management in 1999	exclusion				
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No established monitoring studies.				
Restricted grazing, necessary actions:	same as exi	sting			
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)	
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)	

4101 Lower Cupper

Location:	Segment 6 but	River Miles allotment contains no river l				
Category: AUMS within lease:	C 39	lies wit	hin 1/4 r	nile of the river.		
Miles of river bank	private	0.0	public	0.0		
Acres within WSR boundaries	private	0	public	0		
Acres within allotment	private	1600	public	240		
Riparian management in 1988	allotment contains no river bank					
NEPA documents	none					
Riparian management in 1999	same as above.					
Riparian monitoring	No establish	ed moni	itoring st	udies.		
Upland monitoring	No establish	No established monitoring studies.				
Restricted grazing, necessary actions:	same as exis	sting				
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)		
acres excluded other actions	private		public			
No Grazing: miles of fence acres excluded	private private	n/a	public public	n/a (same as existing)		
public land AUMS canceled Other actions						

Location:	Segment 6 but	River N	/liles allo	otment contains no river bank,	
Category: AUMS within lease:	C 25	lies wit	hin 1/4 r	nile of river.	
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries Acres within allotment	private private	0 200	public public	0 120	
Riparian management in 1988 NEPA documents	No river ban none	k	•		
Riparian management in 1999					
Riparian monitoring Upland monitoring	0				
Restricted grazing, necessary actions:	same as exi	sting			
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)	
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)	

Draft John Day River Plan and EIS 4080 South Stonehill

Location: Category: AUMS within lease:	Segment 6 C	River N	/liles 4.5	- 5.5	
Miles of river bank	private	1.0	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	560	public	400	
Riparian management in 1988	Unknown		-		
NEPA documents	none				
Riparian management in 1999	same as abo	ove.			
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No established monitoring studies.				
Restricted grazing, necessary actions:	same as exi	sting.			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded other actions	private		public		
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled	-		-		
Other actions					

Location: Category: AUMS within lease:	Segment 6 C 40	River I	Viles 1.0	- 1.5	
Miles of river bank	private	0.2	public	0.3	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	40	public	240	
Riparian management in 1988	exclusion				
NEPA documents Riparian management in 1999	none same as abo	nve			
Riparian monitoring					
Upland monitoring	No established monitoring studies.				
Restricted grazing, necessary actions:	Adjust use authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be dependant upon recovery as evaluated by an interdisciplinar team and subject to management prescription to sustain functioning condition.				
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)	
No Grazing: miles of fence acres excluded public land AUMS canceled	private private	n/a	public public	n/a (same as existing)	

Draft John Day River Plan and EIS 4037 Juniper

Location: Category: AUMS within lease:	Segment 6 C 40	River N	Ailes 4.8	- 5.4
Miles of river bank	private	0.6	public	0.0
Acres within WSR boundaries	private	0	public	0
Acres within allotment	private	620	public	400
Riparian management in 1988	exclusion		-	
NEPA documents	none			
Riparian management in 1999	same as abo	ove.		
Riparian monitoring	No established monitoring studies.			
Upland monitoring	No established monitoring studies.			
Restricted grazing, necessary actions:	same as exi	sting.		
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private		public	
other actions				
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)
acres excluded	private		public	
public land AUMS canceled				
Other actions				

Location: Category: AUMS within lease:	Segment 6 C 20	River N	viles 8.0	- 9.2
Miles of river bank	private	1.2	public	0.0
Acres within WSR boundaries	private	0	public	0
Acres within allotment	private	1956	public	160
Riparian management in 1988	unknown			
NEPA documents	none			
Riparian management in 1999	same as abo	ove		
Riparian monitoring	No established monitoring studies.			
Upland monitoring	No established monitoring studies.			
Restricted grazing, necessary actions:	same as exi	sting		
No Riparian Grazing miles of fence acres excluded	private private	n/a	public public	n/a (same as existing)
other actions				
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)

4030 Powersite

Location: Category: AUMS within lease:	Segment 6 C 20	River N	Ailes 5.0) - 6.2
Miles of river bank	private	1.2	public	0.0
Acres within WSR boundaries	private	0	public	0
Acres within allotment	private	130	public	120
Riparian management in 1988	unknown			
NEPA documents	none			
Riparian management in 1999	same as abo	ove		
Riparian monitoring	No establish	ed mon	itoring st	udies.
Upland monitoring	No establish	ed mon	itoring st	udies.
Restricted grazing, necessary actions:	same as exis	sting		
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)
acres excluded other actions	private		public	
No Grazing: miles of fence acres excluded public land AUMS canceled	private private	n/a	public public	n/a (same as existing)
Other actions				

Location: Category: AUMS within lease:	Segment 6 C 27			tment contains no river bank, but nile of the river.	
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries	, private	0	, public	0	
Acres within allotment	private	453	public	160	
Riparian management in 1988	• •				
NEPA documents	none				
Riparian management in 1999	same as abo	ove.			
Riparian monitoring	No establish	ed moni	toring st	udies.	
Upland monitoring	No established monitoring studies.				
Restricted grazing, necessary actions:	same as exis	stina			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
other actions	•				
No Grazing: miles of fence acres excluded	private private	n/a	public public	n/a (same as existing)	
public land AUMS canceled	pinato		P 0010		
Other actions					

Location: Category: AUMS within lease:	Segment 6 C 31	River N	/liles 12.	0 - 12.8	
Miles of river bank	private	1.5	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	1560	public	240	
Riparian management in 1988	unknown		•		
NEPA documents	none				
Riparian management in 1999	same as abo	ove.			
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No establish	ed mon	itoring st	udies.	
Restricted grazing, necessary actions:	same as exis	sting			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
other actions					
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled					
Other actions					

Location: Category: AUMS within lease:	Segment 6 C 368	River M	/iles 3.0	- 9.0	
Miles of river bank	private	4.8	public	1.2	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	4840	public	3169	
Riparian management in 1988	season long				
NEPA documents	none				
Riparian management in 1999	same as abo	ove.			
Riparian monitoring		No established monitoring studies.			
Upland monitoring	No established monitoring studies.				
Restricted grazing, necessary actions:	November 1 Dates of auth phenology, h	to June horized erd size rmally to	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be s during the December 15 to	
No Riparian Grazing miles of fence	private	6.0	public	2.3	
acres excluded	private	764	public	193	
other actions	cancellation	of 19 Al	JMS		
No Grazing: miles of fence	private	6.0	public		
acres excluded	private	764	public	193	
public land AUMS canceled Other actions	19				

Draft John Day River Plan and EIS 4035 Rim

Location: Category: AUMS within lease:	Segment 6 C 41			otment contains no river bank, but nile of the river.	
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	90	public	80	
Riparian management in 1988	no river banl	k			
NEPA documents	none				
Riparian management in 1999	same as abo	ove			
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No established monitoring studies.				
		- 4:			
Restricted grazing, necessary actions:	same as exi				
No Riparian Grazing miles of fence	private	n/a	•	n/a (same as existing)	
acres excluded	private		public		
other actions					
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled					
Other actions					

Location: Category: AUMS within lease:	Segment 6 C 4			tment contains no river bank, but nile of the river.	
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries	private	0	·	0	
Acres within allotment	private	165	public	40	
Riparian management in 1988					
NEPA documents	none				
Riparian management in 1999	same as abo	ove.			
Riparian monitoring	No establish	ed moni	toring st	udies.	
Upland monitoring	No establish	ed moni	toring st	udies.	
Restricted grazing, necessary actions:	same as exis	sting			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
other actions					
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled					
Other actions					

Draft John Day River Plan and EIS 4069 Big Spring

Location: Category: AUMS within lease:	Segment 6 C 17			otment contains on river bank, but nile of the river.
Miles of river bank	private	0.0	public	0.0
Acres within WSR boundaries	private	0	public	0
Acres within allotment	private	1420	public	80
Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring	no river ban none same as abo No establish No establish	ove. ed moni	itoring st	
Restricted grazing, necessary actions:	same as exi	sting.		
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)

Location: Category: AUMS within lease:	Segment 6 C 16	River M	Viles 9.2	- 10.6	
Miles of river bank	private	1.4	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	1241	public	160	
Riparian management in 1988	unknown				
NEPA documents	none				
Riparian management in 1999	same as abo	ove			
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No established monitoring studies.				
Restricted grazing necessary actions:	same as exi	stina			
Restricted grazing, necessary actions: No Riparian Grazing, miles of fence	same as exi		public	n/a (same as existing)	
No Riparian Grazing miles of fence	private	sting n/a	public	n/a (same as existing)	
o o i			public public	n/a (same as existing)	
No Riparian Grazing miles of fence acres excluded other actions	private private		public		
No Riparian Grazing miles of fence acres excluded	private private private	n/a	public	n/a (same as existing) n/a (same as existing)	
No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence	private private	n/a	public		
No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded	private private private	n/a	public		

Location: Category: AUMS within lease:	Segment 6 C 13	River M	liles 16.	8 - 18.0	
Miles of river bank	private	1.0	public	0.8	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	140	public	135	
Riparian management in 1988	Exclusion on 0.8 miles of river bank due to topographic barriers and fencing on adjacent lands.				
NEPA documents	none				
Riparian management in 1999 Riparian monitoring	same as above. No established monitoring studies.				
Upland monitoring	No establish		-		
opiand monitoring	140 6514011511		toning st	dules.	
Restricted grazing, necessary actions:	Adjust use authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be dependant upon recovery as evaluated by an interdisciplinary team and subject to management prescription to sustain functioning condition.				
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded other actions	private		public		
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled Other actions					

Location: Category: AUMS within lease:	Segment 6 C 25	River I	viles 16.	3 - 18.6	
Miles of river bank	private	1.5	public	0.9	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private Exclusion.	1350	public	200	
Riparian management in 1988 NEPA documents	none.				
Riparian management in 1999	same as abo	ove.			
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No establish	ned mon	itoring st	tudies.	
Postricted grazing passagery actions:	Adjust use authorizations to prohibit grazing on public lands within riparian exclosure. Reactivation of use would be dependant upon recovery as evaluated by an interdisciplina team and subject to management prescription to sustain functioning condition.				
Restricted grazing, necessary actions:	within riparia dependant u team and su	an exclo ipon rec ibject to	sure. Re overy as manage	eactivation of use would be s evaluated by an interdisciplinary	
No Riparian Grazing miles of fence acres excluded other actions	within riparia dependant u team and su	an exclo ipon rec ibject to	sure. Re overy as manage	eactivation of use would be evaluated by an interdisciplinary ment prescription to sustain	

4003 Slickear Mt.

Location: Category: AUMS within lease:	Segment 7 M 537	River M	1iles 21.	5 - 25.0, 25.2 - 31.8	
Miles of river bank:	private	3.0	public	7.1	
Acres within WSR boundaries:	private	0	public	0	
Acres within allotment:	private	28,300	public	3,274	
Riparian management in 1988:	season long				
NEPA documents:	none				
Riparian management in 1999:	Since 1993 t	he ripari	an past	ures have been grazed from	
	March 15 to	May 15.	In 199	9 a fall treatment, Oct. 1 until	
	Nov. 30, will	be appli	ed. In tl	he following years the March 15	
	to May 15 tre	eatment	will be f	ollowed.	
Riparian monitoring:	No establish	ed moni	toring st	udies.	
Upland monitoring:	No establish	ed moni	toring st	udies.	
Restricted grazing, necessary actions:				razing period within the dates of	
			-	stures with access to riverbank.	
				ld be determined by plant	
				ailable forage, but would be	
No Dinarian Graning miles of fances		-		rch 15 to May 15 period.	
No Riparian Grazing miles of fence:	private	1.3	public		
acres excluded: other actions:	private	15	public	200	
No Grazing miles of fence:	none	4.0	public	10.0	
acres excluded:	private private	4.0 200	public	620	
Public land AUMS canceled:	41	200	public	020	
Other actions:	none				
	none				

Location: Category: AUMS within lease:	Segment 7 C 119	River N	/liles 20	.9-27.7
Miles of river bank:	private	6.0	public	4.0
Acres within WSR boundaries:	private	0	public	0
Acres within allotment:	private	1,810	public	712
Riparian management in 1988:	season long			
NEPA documentation:	95-016			
Riparian management in 1999:	Spring grazi	ng on 2.	4 miles o	of public and 1.4 miles of private
				grazing on 1.6 miles of public and
	4.6 miles of			
Riparian monitoring:	No establish		-	
Upland monitoring:	No establish	ed moni	toring st	udies.
	A divist the le		onfino a	razing pariod within the datas of
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h restricted no allotment ma	to June horized herd size rmally to anageme	1 on pa use wou and ava the Apr ent plan.	
No Riparian Grazing miles of fence:	November 1 Dates of aut phenology, h restricted no allotment ma private	to June horized herd size rmally to anageme 3.2	1 on pa use wou and ava the Apr ent plan. public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to June 1 period. Develop
No Riparian Grazing miles of fence: Acres excluded:	November 1 Dates of aut phenology, h restricted no allotment ma private private	to June horized herd size rmally to anageme	1 on pa use wou and ava the Apr ent plan. public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to June 1 period. Develop
No Riparian Grazing miles of fence: Acres excluded: Other actions	November 1 Dates of aut phenology, h restricted no allotment ma private private none	to June horized herd size rmally to anageme 3.2 19	1 on pa use wou and ava the App ent plan. public public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to June 1 period. Develop 1.2 7
No Riparian Grazing miles of fence: Acres excluded: Other actions No Grazing: miles of fence:	November 1 Dates of aut phenology, h restricted no allotment ma private private none private	to June horized nerd size rmally to anageme 3.2 19 3.7	1 on pa use wou and ava the App ent plan. public public public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to June 1 period. Develop 1.2 7 1.7
No Riparian Grazing miles of fence: Acres excluded: Other actions No Grazing: miles of fence: Acres excluded	November 1 Dates of aut phenology, h restricted no allotment ma private private none private private private	to June horized herd size rmally to anageme 3.2 19	1 on pa use wou and ava the App ent plan. public public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to June 1 period. Develop 1.2 7
No Riparian Grazing miles of fence: Acres excluded: Other actions No Grazing: miles of fence:	November 1 Dates of aut phenology, h restricted no allotment ma private private none private	to June horized nerd size rmally to anageme 3.2 19 3.7	1 on pa use wou and ava the App ent plan. public public public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to June 1 period. Develop 1.2 7 1.7

4029 North Fork				
Location:	Segment 7	River N	Ailes 30.	1-40.3
Category:	Μ			
AUMS within lease:	316			
Miles of river bank:	private	11.3	public	
Acres within WSR boundaries:	private	0	•	
Acres within allotment:	private	5,505	public	1,894
Riparian management in 1988:	Season long	3		
NEPA documents:	None			
Riparian management in 1999:	April 1 to Ma	ay 31.		
Riparian monitoring:	Photo point	at river i	mile 35,	established in 1995, and reread
				asture was grazed season long,
	is now graze	ed during	g the spr	ing. Photos show an increase in
	•			-
	herbaceous	vegetat	ion.	-
Upland monitoring:	•	-		tudies.
Upland monitoring: Restricted grazing, necessary actions:	herbaceous	ned mon		tudies.
	herbaceous No establish	ned mon		
Restricted grazing, necessary actions:	herbaceous No establish same as exi	ned mon isting	itoring st	9.1
Restricted grazing, necessary actions: No Riparian Grazing; miles of fence:	herbaceous No establish same as exi private	ned mon sting 11.3	itoring st	9.1
Restricted grazing, necessary actions: No Riparian Grazing; miles of fence: Acres excluded:	herbaceous No establish same as exi private private	ned mon sting 11.3	itoring st	9.1 55
Restricted grazing, necessary actions: No Riparian Grazing; miles of fence: Acres excluded: Other actions:	herbaceous No establish same as exi private private none	ned mon sting 11.3 68	itoring st public public	9.1 55
Restricted grazing, necessary actions: No Riparian Grazing; miles of fence: Acres excluded: Other actions: No Grazing: miles of fence:	herbaceous No establish same as exi private private none private	ned mon sting 11.3 68 11.8	itoring st public public public	9.1 55 9.6

.Location: Category: AUMS Within Lease:	Segment 7 C 113	River N	/liles 45.	0 to 50.1
Miles of river bank:	private	4.1	public	1.0
Acres within WSR boundaries:	private	0	public	0
Acres within allotment:	private	2,020	public	679
Riparian management in 1988: NEPA Documents:	Season long None	1		
Riparian management in 1999:	same as abo	Ne		
Riparian monitoring:				
Úpland monitoring:	No establish			
Restricted grazing, necessary actions:	Adjust the le	ase to c	onfine a	razing period within the dates of
Restricted grazing, necessary actions.	November 1 Dates of aut phenology, h	to June horized herd size	1 on pa use wou and av	allable forage, but would be ril 1 to May 31 period.
No Riparian Grazing miles of fence:	November 1 Dates of aut phenology, h restricted no private	to June horized herd size rmally to 4.1	1 on pa use wou and av the Ap public	stures with access to riverbank. Ild be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0
No Riparian Grazing miles of fence: acres excluded:	November 1 Dates of aut phenology, r restricted no private private	to June horized herd size ormally to	1 on pa use wou and av the Ap public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period.
No Riparian Grazing miles of fence: acres excluded: Other actions:	November 1 Dates of aut phenology, h restricted no private private none	to June horized herd size ormally to 4.1 50	1 on pa use wou and av the Ap public public	stures with access to riverbank. Ild be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0 12
No Riparian Grazing miles of fence: acres excluded: Other actions: No Grazing: miles of fence:	November 1 Dates of aut phenology, h restricted no private private none private	to June horized herd size mally to 4.1 50 4.6	1 on pa use wou and av o the Ap public public public	stures with access to riverbank. Ild be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0 12
No Riparian Grazing miles of fence: acres excluded: Other actions:	November 1 Dates of aut phenology, h restricted no private private none	to June horized herd size ormally to 4.1 50	1 on pa use wou and av the Ap public public	stures with access to riverbank. Ild be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0 12

4042 Johnny Cake Mtn.

Location: Category: AUMS within lease:		River N	/liles 27.	7-30.2
Miles of river bank:	private	1.5	public	1.0
Acres within WSR boundaries:		0	public	0
Acres within allotment:		1,040	public	280
Riparian management in 1988: NEPA documents:				
Riparian management in 1999:	same as ab	ove		
Riparian monitoring:	0			
Upland monitoring:	No establish	ned mon	itoring st	tudies.
	Adjust the lease to confine grazing period within the dates November 1 to June 1 on pastures with access to riverban Dates of authorized use would be determined by plant phenology, herd size and available forage, but would be restricted normally to the April 1 to May 31 period.			
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, I restricted no	to June thorized herd size	1 on pa use wou and ave the Ap	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period.
No Riparian Grazing miles of fence:	November 1 Dates of aut phenology, I restricted no private	to June thorized herd size ormally to 1.5	1 on pa use wou and av the Ap public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0
No Riparian Grazing miles of fence: Acres excluded:	November 1 Dates of aut phenology, I restricted no private private	to June thorized herd size ormally to	1 on pa use wou and ave the Ap	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period.
No Riparian Grazing miles of fence: Acres excluded: Other actions:	November 1 Dates of aut phenology, I restricted no private private none	to June thorized herd size prmally to 1.5 18	a 1 on pa use wou and av the Ap public public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0 12
No Riparian Grazing miles of fence: Acres excluded: Other actions: No Grazing: miles of fence:	November 1 Dates of aut phenology, I restricted no private private none private	to June thorized herd size prmally to 1.5 18 2.0	a 1 on pa use wou and av o the Ap public public public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0 12 1.5
No Riparian Grazing miles of fence: Acres excluded: Other actions: No Grazing: miles of fence: Acres excluded:	November 1 Dates of aut phenology, I restricted no private private none private private private	to June thorized herd size prmally to 1.5 18	a 1 on pa use wou and av the Ap public public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0 12
No Riparian Grazing miles of fence: Acres excluded: Other actions: No Grazing: miles of fence:	November 1 Dates of aut phenology, I restricted no private private none private private private	to June thorized herd size prmally to 1.5 18 2.0	a 1 on pa use wou and av o the Ap public public public	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period. 1.0 12 1.5

Location: Category: AUMS within lease:	Segment 7 I 26	River N	/liles 19	9.8-20.9
Miles of river bank:	private	0.8	public	0.6
Acres within WSR boundaries:	private	0	public	0
Acres within allotment:	private	688	public	160
Riparian management in 1988: NEPA documents:	Season long None			
Riparian management in 1999:	Spring			
Riparian monitoring:	No establish		-	
Upland monitoring:	No establish	ed moni	toring st	udies.
Restricted grazing, necessary actions:	Adjust the le		•	razing period within the dates of
	Dates of aut phenology, h restricted no	horized ierd size	use wou and ava the Apr	stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period.
No Riparian Grazing miles of fence:	Dates of aut phenology, h restricted no private	horized lerd size rmally to 0.8	use wou and ava the Apr public	ld be determined by plant ailable forage, but would be ril 1 to May 31 period. 0.6
No Riparian Grazing miles of fence: Acres excluded: Other actions:	Dates of aut phenology, h restricted no	horized lerd size rmally to	use wou and ava the Apr public	ld be determined by plant ailable forage, but would be ril 1 to May 31 period.
Acres excluded:	Dates of aut phenology, h restricted no private private	horized lerd size rmally to 0.8	use wou and avaint the Apri public public	ld be determined by plant ailable forage, but would be ril 1 to May 31 period. 0.6
Acres excluded: Other actions: No grazing; miles of fence: Acres excluded	Dates of aut phenology, h restricted no private private private private private	horized lerd size rmally to 0.8 10	use wou and avaint the Apri public public	Id be determined by plant ailable forage, but would be ril 1 to May 31 period. 0.6 7
Acres excluded: Other actions: No grazing; miles of fence:	Dates of aut phenology, h restricted no private private none private	horized lerd size rmally to 0.8 10 1.3	use wou and avai the Apr public public public	Ild be determined by plant ailable forage, but would be ril 1 to May 31 period. 0.6 7 1.1

4139 Bone Yard

Location: Category: AUMS within lease:	Segment 7 C 148			otment contains no river bank, but nile of river.	
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private		public		
Riparian management in 1988	no miles of river bank in allotment				
NEPA documents	none				
Riparian management in 1999	same as abo				
Riparian monitoring	No established monitoring studies.				
Upland monitoring	remeasured	in 1995.	Author	stablished in 1989 and ized grazing is 9/30 - 11/30, e in <i>Festuca idahoensis</i> .	
Restricted grazing, necessary actions:	same as exis	sting			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
other actions					
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled					
Other actions					

Location: Category: AUMS within lease:	Segment 7 C 25	River N	liles 24.	7 - 25.7
Miles of river bank	private	0.2	public	0.8
Acres within WSR boundaries	private	0	public	0
Acres within allotment	private	360	public	280
Riparian management in 1988	season long			
NEPA documents	none			
Riparian management in 1999	same as abo	-		
Riparian monitoring	No establish		0	
Upland monitoring	No establish	ed moni	toring st	udies.
Restricted grazing, necessary actions:	within riparia dependant u team and su functioning c	n exclos pon reco bject to r ondition	sure. Re overy as manage	prohibit grazing on public lands activation of use would be evaluated by an interdisciplinary ment prescription to sustain
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	within riparia dependant u team and su	n exclos pon reco bject to r	sure. Re overy as manage	eactivation of use would be evaluated by an interdisciplinary

4089 East Monument

Location: Category: AUMS within lease:	Segment 7 C 52			tment contains no river bank, but nile of the river.	
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	620	public	360	
Riparian management in 1988	no river banl	< within	allotmen	t	
NEPA documents	none				
Riparian management in 1999	same as abo	ove			
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No establish	ed moni	itoring st	udies.	
Restricted grazing, necessary actions:	same as exis	sting			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
other actions					
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled					
Other actions					

Location: Category: AUMS within lease:	Segment 7 C 9			otment contains no river bank, but nile of the river.	
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	-	public	50	
Riparian management in 1988	no river ban	k on allo	otment		
NEPA documents	none				
Riparian management in 1999	same as abo	ove			
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No establish	ned mon	itoring st	tudies.	
Restricted grazing, necessary actions:	same as exi	sting			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
other actions					
No Grazing: miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded	private		public		
public land AUMS canceled					
Other actions					

4015 Mud Springs

Location: Category: AUMS within lease:	Segment 7 C 30			tment contains no river bank, but nile of the river.
Miles of river bank Acres within WSR boundaries Acres within allotment	private private private	0.0 0 -	public public public	0
Riparian management in 1988 NEPA documents Riparian management in 1999	no river banl none same as abo		public	2.0
Riparian monitoring Upland monitoring	No establish No establish		•	
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	same as exis private private	sting n/a	public public	n/a (same as existing)
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)

Location: Category: AUMS within lease:	Segment 7 C 13			otment contains no river bank, but nile of the river.				
Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988 NEPA documents Riparian management in 1999 Riparian monitoring Upland monitoring	private private private no river ban none same as abo No establish	ove. ned mon	0 public 0 4800 public 80					
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	same as exi private private private private	sting n/a n/a	public public public public	n/a (same as existing) n/a (same as existing)				

Draft John Day River Plan and EIS 4135 Gibson Creek

Location: Category: AUMS within lease:	Segment 9 C 20	River M	liles 15.0	0 - 15.2
Miles of river bank	private	0.0	public	0.2
Acres within WSR boundaries	private	0	public	0
Acres within allotment	private	1480	public	120
Riparian management in 1988 NEPA documents	season long			
Riparian management in 1999	none same as abo			
Riparian management in 1999 Riparian monitoring	No establish	-	toring ct	udios
Upland monitoring	No establish		-	
Opiand morntoning	110 6512011511	eu mom	toning st	dules.
Restricted grazing, necessary actions:	November 1 Dates of auth phenology, h restricted no	to June norized (erd size rmally to to exch	1 on pa use wou and ava the Apr ange la R.	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 1 to May 31 period. Pursue nds adjacent to river for other
No Riparian Grazing miles of fence	private	0.0	public	0.2
acres excluded other actions	private	0	public	5
No Grazing: miles of fence	private	0.0	public	1.2
acres excluded	private	0	public	40
public land AUMS canceled Other actions	6			

Location: Category: AUMS within the lease:	Segment 9 C 8	River N	/lile 4.9 -	- 7.0		
Miles of river bank:	private	3.4	public	0.8		
Acres within WSR boundaries:	, private	0	, public	0		
Acres within the allotment:	private	2,174	public	80		
Riparian management in 1988:	season long					
NEPA documents:	None					
Riparian management in 1999:	Same as ab	ove				
Riparian monitoring:	No establish	ed ripari	ian moni	itoring studies.		
Upland monitoring:	Trend plot (3	3 ft. X 3 f	t.) estab	lished in 1989. Study shows an		
		increase in the number of and vigor of Agropyron spicatum				
	plants					
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h restricted no opportunities exchange la WSR.	to June horized herd size mally to s to deve nds adja	1 on pa use wou and ava April 1 elop an a acent to p	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be to May 31 period. Pursue allotment management plan or to river for other lands within the		
No Riparian Grazing, miles of fence:	private	0	public	0.8		
acres excluded:	private	0	public	40		
other actions:	cancellation	of 3 AUI	Ms			
No Grazing: miles of fence:	private	0	public			
acres excluded	private	0	public	40		
Public land AUMS's canceled:	3					
Other actions:	none					

4014 Middle Fork					
Location:	Segment 9	River N	liles 33.	0 - 36.0, 36.8 - 37.0	
Category:	С				
AUMS's Within Lease:	77				
Miles of river bank:	private	5.8	public	0.7	
Acres Within WSR boundaries:	private	0	public	0	
Acres Within allotment	private	15,952	public	562	
Riparian management in 1988:	•				
NEPA documents:					
Riparian management in 1999:	same as ab	ove.			
Riparian monitoring:					
Upland monitoring:					
Restricted grazing, necessary actions:	dates of Nov riverbank. I plant pheno restricted no opportunitie exchange la WSR.	vember 2 Dates of logy, her ormally to s to deve inds adja	I to June authoriz d size a the Api elop an a icent to	fine grazing period within the e 1 on pastures with access to ed use would be determined by nd available forage, but would be ril 1 to May 31 period. Pursue allotment management plan or to river for other lands within the	
No Riparian Grazing, miles of fence:	private	0	public	0.5	
acres excluded:	private	0	public	100	
Other actions:	cancellation	of 10 Al	JMS		
No Grazing: miles of fence:	private	0	public		
Acres excluded:	private	0	public	100	
Public land AUMS's canceled:	10				
Other actions:	none				

Location: Category: AUMS within lease:	Segment 10 C 141			tment contains no river bank, but nile of the river.	
Miles of river bank	private	0.0	public	0.0	
Acres within WSR boundaries	private	0	public	0	
Acres within allotment	private	2960	public	1640	
Riparian management in 1988	No river bank in allotment.				
NEPA documents	none				
Riparian management in 1999	same as above.				
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No established monitoring studies.				
Restricted grazing, necessary actions:	same as exis	sting.			
No Riparian Grazing miles of fence	private	n/a	public	n/a (same as existing)	
acres excluded other actions	private		public		
No Grazing: miles of fence acres excluded public land AUMS canceled	private private	n/a	public public	n/a (same as existing)	
Other actions					

4020 Murderers Creek

Location: Category: AUMS within lease: Miles of river bank Acres within WSR boundaries Acres within allotment Riparian management in 1988	Segment 10 M 860 private private private exclusion of miles	0.0 479 2250	public public public	5.2 1998 16,004	state state state	5 - 25.2 8.0 390 15,989 grazing on 7.8			
NEPA documents Riparian management in 1999	89-054, 93-100, 94-083, 96-075 exclusion of 5.4 river bank miles and rotation (spring and non-use) on 7.8 miles.								
Riparian monitoring Upland monitoring	none Trend plot (3 established i riparian man decreased. Trend plot (lii in 1992 and i <i>spicatum</i> has Trend plot (3 in 1976 and riparian man Trend plot (1 1990 and rer decreased. Trend plot (lii 1993 and rer decreased in Trend plot (3 1993 and rer <i>Festuca idah</i> <i>Chrysothami</i> Trend plot (3 1998. Grazin an increase i occurred. Ar early 1980s of Trend plot (3 established i <i>Sitanion hysi</i> Trend plot (3 established i <i>has</i> increase Trend plot (3 established i <i>Agropyron sj</i> Trend plot (lii in 1988 and managemen increased. Trend plot (lii	ax3 Phot n 1976 a agemen ne interce s increase agemen ne interce measure ne interce ne interce ne interce ne interce na 1976 a con 1978 a con 1988 a t for Con ax3 phote n 1988 a t for Con ax3 phote n 1988 a	o point) and rem it above, cept) in l sed. o point) ured in 1 sed. o point) ured in 1 ed in 199 cept) in l ed in 199 cept) in l ed in 199 have inc has decr cept) in l and rem / June c byron spl tion of F n infesta o point) and rem has incr cept) in c and rem has incr cept) in c and rem bas incr cept) in c and rem	easured <i>Chryso</i> Munjar p 993 and in River 988, 19 no cha River pa 8. <i>Chry</i> River pa 8. <i>Chry</i> River pa 8. <i>Chry</i> River pa 8. <i>Agro</i> reased Cow Gu easured in Cow Gu easured Cow Gu easured Cougar	l in 1988 othamnu pasture 90, and nge is o isture wa vsotham asture wa vsotham asture wa vsotham asture wa vsotham asture wa vsotham asture wa picatum asture wa picature grassho l in 1998 l in 1998 d 1994. othrae in Gulch pas f Gulch picature asture d 1994. othrae in asture d 1994. othrae in asture d 1994. othrae in asture d 1995. f in 1985. f in 1985.	and 1990. See s sp. has was established Agropyron was established 1998. See bvious. as established in nus sp. has as established in sarothrae has has increased. vas established in picatum and and ure was 8, 1989, 1994 and to a rest rotation, nion hystrix has a occurred in the opers. asture was 8, 1990 and 1998. ure was 8. Sitanion hystrix ture was 8 and 1998. was established See riparian hcreased and asture was a and 1990. See ca idahoensis			
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions No Grazing: miles of fence acres excluded public land AUMS canceled	same as exis private private private private private	sting 0.0 0.0 0.4 188 8	public public public public public	35.0 5.4	state state state state state	4.0 36 1.7 828 36			
Other actions	none								

Location: Category: AUMS within lease:	Segment 10 I 71	River M	Ailes 34.	4-36.4		
Miles of river bank	private	2.0	public	2.0		
Acres within WSR boundaries	private	700	public	000		
Acres within allotment	private	720	public			
Riparian management in 1988	season long on 1.6 miles of public riverbank and spring grazing on 0.4 miles of public and 2.0 miles of private riverbank.					
NEPA documents	None					
Riparian management in 1999	Exclusion on 1.6 miles of public riverbank, the pasture with 0.4 miles of public riverbank facilitates livestock movement between Big Baldy and the rest of the Big Flats allotments and is grazed June 1 to June 15,					
Riparian monitoring	No established monitoring studies.					
Upland monitoring	Trend plot(3 ft. X 3 ft.) photoplot established in 1988 and reread in 1993 and 1998 Livestock graze the pasture during the spring. Monitoring shows an increase in forbs with no increase in <i>Agropyron spicatum.</i> . Trend plot (3 ft. X 3 ft.) photoplot established in 1988 and reread in 1998. Livestock graze the pasture during the spring. Monitoring shows an increase in ground cover and no increase in <i>Festuca idahoensis</i> .					
Restricted grazing, necessary actions:				razing period within the dates of es with access to riverbank.		
No Riparian Grazing miles of fence acres excluded other actions	private private None	2.0 24	public public			
No Grazing: miles of fence	private	3.0	public	4.0		
acres excluded	private	260	public			
public land AUMS canceled Other actions	31 None		1.000			

4119 Black Canyon

laon eanyon				
Location: Category: AUMS within lease:	Segment 10 C 188	River N	liles	12.3-13.5
Miles of river bank	private	2.4	public	0.0
Acres within WSR boundaries	private	370	public	20
Acres within allotment	private	2,880	public	944
Riparian management in 1988	No riverbank	dug no x	lic land.	
, NEPA documents	None			
Riparian management in 1999	Exclusion.			
Riparian monitoring	No establish	ed moni	toring st	udies.
Upland monitoring	No establish	ed moni	toring st	udies.
Restricted grazing, necessary actions:	same as exis	sting		
No Riparian Grazing miles of fence	private	2.4	public	0.0
acres excluded	private	15	public	0
other actions	None		•	
No Grazing: miles of fence	private	3.0	public	0.8
acres excluded	private	80	public	10
public land AUMS canceled	1			
Other actions	None			

mokey Creek	
Location: Category:	Segment 10 River Miles 2.9 -3.9, 5.2 - 5.8
AUMS within lease:	307
Miles of river bank	private 3.0 public 0.2
Acres within WSR boundaries	private public
Acres within allotment	private 2,160 public 2,213
Riparian management in 1988	Topography and fencing on the adjacent private lands limits
	the grazing on the 0.2 miles of riverbank. Grazing has been spring grazing if the livestock drift into the area.
NEPA documents	None
Riparian management in 1999	same as above.
Riparian monitoring	No established monitoring studies.
Upland monitoring	Trend plot(3 ft. X 3 ft. photoplot) established in the Gray
	Gulch pasture in 1969 and reread in 1970, 1971, 1972, 1977, 1989, and 1995. Pasture has been rested for the last two
	years. Monitoring shows an increase in ground cover and
	Agropyron cristatum.
	Line intercept(frequency) study established in the Gray Gulch
	pasture in 1989 and reread in 1995. Pasture has been rested
	for two years. Monitoring shows an increase in the frequency of <i>Agropyron cristatum</i> .
	Trend plot(3 ft. X 3 ft. photoplot) established in the Smokey
	Creek pasture in 1969 and reread in 1970, 1971, 1972, 1977,
	1989, and in 1995. Pasture has been rested for the past two
	years. Monitoring shows no increase in perennial
	herbaceous vegetation Line intercept(frequency) study established in the Smokey
	Creek pasture in 1989. Study has not been reread.
	Trend plot(3 ft. X 3 ft. photoplot) established in the Smokey
	Creek pasture in 1969 and reread in 1970, 1971, 1972, 1977,
	1989, and 1995. Pasture has been rested for the last two
	years. Monitoring shows an increase in <i>Stipa thurberiana</i> . Line intercept(frequency) study established in the Smokey
	Creek pasture in 1989 and reread in 1995. Pasture has been
	rested for two years. Monitoring shows an increase in the
	frequency of Agropyron spicatum.
	Trend plot(3 ft. X 3 ft. photoplot) established in the Gray
	Gulch pasture in 1972 and reread in 1989 and 1995. Pasture has been rested for two years. Monitoring shows the ground
	cover and Agropyron cristatum.
	Line intercept(frequency) study established in the Gray
	Gulch pasture in 1989 and reread in 1995. Pasture has been
	rested for two years. Monitoring shows an increase in the frequency of <i>Agropyron cristatum</i> and <i>Sitanion hystrix</i> .
	nequency of Agropyron chstatain and onanion hysinx.
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of
	November 1 to June 1 on pastures with access to riverbank.
	Dates of authorized use would be determined by plant
	phenology, herd size and available forage, but would be restricted normally to the April 15 to May 31 period.
No Riparian Grazing miles of fence	private 3.0 public 0.2
acres excluded	private 36 public 3
other actions	None
No Grazing: miles of fence	private 3.0 public 0.2
acres excluded public land AUMS canceled	private 480 public 32 2
Other actions	None

4052 Big Baldy

Location:	Segment 10	River Mi	les 26.0-34	4.0			
Category: AUMS within lease: Miles of river bank	l 600 private	8.8	public	7.2			
Acres within WSR boundaries	private	960	public	3411			
Acres within allotment Riparian management in 1988	private Season-long	3,090	public	11,132			
NĔPA documents	88-011, 89-027		vithin the a	lletment boundary. One pasture is			
Riparian management in 1999		pasture is		Ilotment boundary. One pasture is om April 15 until May 31. The next year			
Riparian monitoring	Photo point wa 1996, 1997, an and will not gra 1996 and 1998 vegetation has Photo point wa North Pasture i not graze the p Livestock graze Monitoring sho shrub canopy.	s establish d 1998. L ize the pas from Apri been mai s establish n 1995 an asture in ed the pas ws mainte	ivestock d sture in 19 I 15 until M ntained an hed in the id reread in 1995, 1997 ture in 199 nance of t	North Pasture in 1995 and reread in id not graze the pasture in 1995, 1997, 99. Livestock grazed the pasture in May 31 Monitoring shows the herbaceous d maintenance of the willow canopy. North Pasture at river mile 29.5 in the n 1996, 1997, and 1998. Livestock did 7, and will not graze the pasture in 1999. 96 and 1998 from April 15 until May 31. he herbaceous ground cover and the			
	Photoplot established in 1996, and 1998. Live pasture in 1999 of the herbaced	1997, 19 estock gra from Apr ous ground	98. Livest zed the pa il 15 until N d cover an	e South Pasture at river mile 33.8 and ock did not graze the pasture in 1996 sture in 1995, 1997, and will graze the May 31. Monitoring shows maintenance d the shrub canopy.			
Upland monitoring	Trend plot(3 X 3 photoplot) established in the North Pasture in 1988 and reread in 1993 and 1998. Livestock did not graze the pasture in 1995, 1997, and will not graze the pasture in 1999. Livestock grazed the pasture in 1996 and 1998 from April 15 until May 31. Monitoring showed an increase in <i>Festuca idahoensis</i> .						
	Trend plot(3 X 3 photoplot) established in the South Pasture in 1993. Trend plot has not been remeasured. Trend plot(3 X 3 photoplot) established in the South Pasture in 1989 and reread in 1994. Livestock did not graze the pasture in 1996 and 1998. Livestock grazed the pasture in 1995, 1997, and will graze the pasture in 1999 from April 15 until May 31 Monitoring shows an increase in <i>Lupinus sp</i> and herbaceous ground cover						
	Line intercept(f and reread in 1 Monitoring show	requency) 994. Live ws a decre	study esta stock did r	ablished in the South Pasture in 1989 not graze the pasture in 1996 and 1998. a frequency of <i>Agropyron spicatum</i> and			
	and reread in 1 will not graze th and 1998 from herbaceous gro Line intercept(f 1989 and rerea 1997, and will r in 1996 and 19	X 3 ft. pho 994. Live he pasture April 15 u bund cove requency) id in 1994 not graze 98 from A	stock did r in 1999. ntil May 31 r and <i>Agro</i> study was . Livestock the pasture pril 15 unti	tablished in the North Pasture in 1989 not graze the pasture in 1995, 1997, and Livestock grazed the pasture in 1996 . Monitoring showed an increase in <i>pyron spicatum</i> . s established in the North Pasture in k did not graze the pasture in 1995, e in 1999. Livestock grazed the pasture I May 31. Monitoring showed an increase			
	and reread in 1 Livestock graze	X 3 ft. pho 998. Live ed the pas	otoplot) es stock did r ture in 199	atum. tablished in the South Pasture in 1993 not graze the pasture in 1996 and 1998. 95, 1997, and will graze the pasture in onitoring showed an increase in forbs.			
Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded other actions	same as existir private private None	ng 8.8 53	public public	7.2 44			
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private 278 None	2.0 470	public public	9.0 2780			

Э										
	Location:	5								
	Category: AUMS within lease:	928								
	Miles of river bank	private 9.8 public 11.8								
	Acres within WSR boundaries	private 1067 public 2470								
	Acres within allotment	private 4199 public 5618								
	Riparian management in 1988 NEPA documents	Season long 88-011, 90-069, 91-004, 92-050, 97-040								
	Riparian management in 1999	Spring grazing (April 15-May 31) or rest on 8.8 miles of public								
	····	and 7.8 miles of private riverbank, season long on 2.0 miles of private riverbank and 8 days during the summer on 3.0								
	Riparian monitoring:	miles of public river bank. Photo point established in 1979 at river mile 17.5 and retaken								
	rupanan monitoring.	in 1997 and 1998 in the North Corridor pasture. Livestock								
		will not graze pasture in 1999. Photos show a dramatic								
		increase in the bank stability, creation of islands in the middl								
		of the South Fork John Day River, herbaceous ground cover								
		on the banks, and the shrub canopy Photo point established in 1979 at river mile 23.1 and retaken								
		in 1997 in the River pasture. Livestock have grazed this								
		pasture for four days during the summer. Photos show that								
		the old river channel has been filled in by herbaceous								
		vegetation. Photo point established in 1979 at river mile 25 and retaken								
		in 1997. Pasture will be grazed during the spring in 1999.								
		Photos show the bank stabilizing and herbaceous ground								
		cover on the banks								
		Photo point established in 1979 at river mile 24.9 and retaken								
		in 1997. Livestock will graze the pasture during the spring. Photos show that the banks were revegetated with								
		herbaceous vegetation and the banks stabilized.								
	Upland monitoring:	Trend plot(3 ft. X 3 ft. photoplot) established in the Frazier								
		Creek pasture in 1989 and reread in 1994 and 1998.								
		Livestock grazed the pasture in late fall in 1998 and will graze the pasture in the late fall in 1999. Monitoring shows an								
		increase in Agropyron spicatum and Poa secunda.								
		Line intercept(frequency) study established in the Frazier								
		Creek pasture in 1989 and reread in 1994 and 1998.								
		Livestock grazed the pasture in late fall in 1998 and will in								
		1999. Monitoring shows an increase of <i>Agropyron spicatum</i> and <i>Festuca idahoensis</i> .								
		Trend plot(3 ft. X 3 ft. photoplot) established in the Martin								
		Creek pasture in 1989 and reread in 1994. Livestock have								
		grazed the pasture in the late fall for the last two years.								
		Monitoring shows no increase or decrease in Agropyron								
		<i>spicatum</i> . Line intercept(frequency) study established in the Martin								
		Creek pasture in 1989 and reread in 1994. Monitoring show								
		an increase in the frequency of <i>Agropyron spicatum</i> .								
		Trend plot(3 ft. X 3 Ft. photoplot) established in the River								
		Pasture in 1989 and reread in 1994. Livestock graze the pasture for 8 days during the summer. Monitoring showed a								
		static trend in vegetation.								
		Line intercept(frequency0 study established in the River								
		Pasture in 1989 and reread in 1994. Livestock graze the								
		pasture for 8 days during the summer. Monitoring shows a								

decrease in the frequency of *Agropyron spicatum*. Trend plot(3 ft. X 3 ft. photoplot).established in the Martin Creek Pasture in 1994 and reread in 1998. Livestock have grazed the pasture during the fall for the last two years. Monitoring shows an increase in the ground cover and *Sitanion hystrix*.

Trend plot(3 ft. X 3 ft. photoplot). established in the Frazier Creek pasture in 1993 and reread in 1998. Livestock have grazed the pasture during the fall for the last two years. Monitoring shows an increase in ground cover and decrease in forbs.

Trend plot(3 ft. X 3 ft. photoplot) established in the Doghouse Pasture in 1993 and reread in 1998. Livestock grazed the pasture in the spring in 1998 and in 1999 the pasture will be rested. Monitoring shows very little change in ground cover or vegetation.

Trend plot(3 ft. X 3 ft. photoplot) established in the Flats Pasture in 1993 and reread in 1998. Livestock graze the pasture during the spring. Monitoring shows a decrease in *Agropyron spicatum* and an increase in *Bromus tectorum*. Line intercept(frequency)study established in the Flats Pasture in 1993 and reread in 1998. Livestock graze the pasture during the spring. Monitoring shows an increase in *Poa secunda*, an increase *in Sitanion hystrix*, a decrease in *Agropyron spicatum*, and an increase in *Festuca idahoensis*.

Restricted grazing, necessary actions: No Riparian Grazing miles of fence acres excluded	same as exis private private	sting 9.8 60	public 11.8 public 143
other actions No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	None private private 278 none	3.0 840	public 14.0 public 2780

Location: Category: AUMS Within Lease:	Segment 11 C 215	River M	/liles 48	.8 - 52.8
Miles of River bank:	private	7.9	public	0.1
Acres Within WSR boundaries:	private	592	public	80
Acres within allotment:	private	5,640	public	1,075
Riparian Management in 1988:	season long			
NEPA documents:	none			
Riparian management in 1999:	winter	المحامية		
Riparian monitoring:	No establish			
Upland monitoring:	No establish	eu upiai		5.
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized erd size rmally to	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be s during the November 15 to
No Riparian Grazing miles of fence:	private	7.9	public	0.1
Acres excluded:	private	96	public	1
Other actions:				
No Grazing: miles of fence:	private	6.0	public	0.8
Acres excluded:	private	600	public	80
Public land AUMS's canceled: Other actions:	8			

4044	Soda	Creek
1011	oouu	01001

da Creek	
Location: Category: AUMS within lease:	Segment 11 River Miles 40.0 - 45.0 I 309
Miles of river bank: Acres within WSR boundaries: Acres within allotment: Riparian management in 1988: NEPA Documents:	private8.0public0.0private451public0private2,080public2,023season long90-00890-008
Riparian management in 1999: Riparian monitoring:	exclusion Photo point established in 1995 on Dry Soda Creek, and reread in 1996, 1997, and 1998. Photos show an increase in herbaceous ground cover. Beginning in 1992 the pasture has been grazed early spring or late summer(after mid-August) each year.
Upland monitoring:	Trend plot (3 ft. X 3 ft.) was established in 1989, and reread in 1995 in the Wildcat Pasture. Beginning in 1995 the pasture has been grazed in the spring, summer, or fall for four weeks. Photos show an increase in the vigor of the <i>Festuca idahoensis</i> . Line intercept(frequency) was established in 1989, and reread in 1995 in the Wildcat Pasture. Beginning in 1992 the pasture has been grazed in the spring, summer, or fall for four weeks. Monitoring shows an increase in the frequency of <i>Festuca idahoensis</i> and <i>Agropyron spicatum</i> . Trend plot(3 ft. X 3 ft.) was established in 1989 and reread in 1995 in the Poison Creek pasture. Pasture has been grazed during the spring since 1992. The monitoring shows no change in <i>Festuca idahoensis</i> and <i>Agropyron spicatum</i> . Line intercept(frequency) was established in 1989 and reread in 1995 in the Poison Creek pasture. Beginning in 1992 the pasture has been grazed the spring. Monitoring shows an increase in the frequency of <i>Festuca idahoensis</i> and <i>Agropyron spicatum</i> . Trend plot(3 ft. X 3ft.) was established in 1989 and reread in 1995 in the Snake Den pasture Since 1992 the pasture has been grazed at various times for three weeks during the grazing season. Monitoring shows a decrease in perennial plants. Line intercept(frequency) was established in 1989 and reread in 1995 in the Snake Den Pasture. Since 1992 the pasture has been grazed at various times for three weeks during the grazing season. Monitoring shows a decrease in perennial plants.
Restricted grazing, necessary actions:	same as existing
No Riparian grazing miles of fence: acres excluded: other actions:	private: n/a public n/a (same as existing) private: public: none
No Grazing: miles of fence: acres excluded: public land AUMS's canceled: other actions:	private: n/a public: n/a (same as existing) private: public:

4155 Blackhorse Draw

•

Location: Category: AUMS within lease:	Segment 11 I 159	River M	Ailes 47	.0 -47.8		
Miles of river bank	private	1.5	public	0.0		
Acres within WSR boundaries	private	93	public	55		
Acres within allotment	private	3,480	public	760		
Riparian management in 1988	season long	-,				
, NEPA documents	89-022					
Riparian management in 1999	summer					
Riparian monitoring	Riparian pho	otoplot e	stablishe	ed in the Utley Creek pasture in		
Upland monitoring:	pasture durin <i>Salix</i> and he Trend plot (3 1993 and in	ng the sp rbaceou ft. X 3 f 1995. L toring sh	oring. M is vegeta t.) estab ivestock	since 1990. Livestock graze the lonitoring shows an increase in ation. lished in 1989 and reread in a graze the pasture during the increase in <i>Poa</i> and a decrease		
Restricted grazing, necessary actions:	November 1 Dates of aut phenology, h	to June horized herd size	1 on pa use wou and ava	razing period within the dates of stures with access to riverbank. Id be determined by plant ailable forage, but would be ril 15 to May 15 period.		
No Riparian Grazing miles of fence acres excluded other actions:	private private	n/a		n/a (same as existing)		
No Grazing: miles of fence	private	1.4	public	1.0		
acres excluded	private	40.0	public	60.0		
Public land AUMS canceled Other actions	8	-0.0	Public	00.0		

4067 Sheep Creek Butte

7 Sneep Creek Butte	
Location:	Segment 11 River Miles 39.0 -41.0, 45.0 - 47.0, 47.8 - 48.5
Category: AUMS within lease:	C 957
Miles of river bank	private 9.3 public 0.3
Acres within WSR boundaries	private 814 public 310
Acres within allotment	private 16,360 public 4733
Riparian management in 1988 NEPA documents	Summer 93-028
Riparian management in 1999	same as above.
Riparian monitoring	No established monitoring studies.
Upland monitoring	Trend plot (3 ft. X 3 ft.)established in 1989 near Don's Butte and reread in 1995. Livestock have grazed the pasture in the
	spring or late fall. Monitoring shows an increase in <i>Festuca</i>
	idahoensis and Sitanion hystrix and a decrease in Agropyron
	<i>spicatum</i> . Line intercept (frequency) study established in 1989 and
	reread in 1995 near Don's Butte. Livestock have grazed the
	pasture in the spring or late fall. Monitoring shows an
	increase in <i>Festuca idahoensis</i> and <i>Sitanion hystrix</i> .
	Trend plot (3 ft. X 3 ft.) established in 1989 near Flat's Creek and reread in 1995. Livestock have grazed the pasture
	during late fall. Monitoring shows an increase in <i>Stipa</i>
	comata and Sitanion hystrix.
	Line intercept (frequency) study established in 1989 and
	reread in 1995 near Flat Creek. Livestock have grazed the pasture in the spring or late fall. Monitoring shows an
	increase in <i>Stipa comata</i> and <i>Sitanion hystrix</i> .
Restricted grazing, necessary actions:	Adjust the lease to confine grazing period within the dates of
	November 1 to June 1 on pastures with access to riverbank. Dates of authorized use would be determined by plant
	phenology, herd size and available forage, but would be
	restricted normally to the April 15 to May 31 period.
No Riparian Grazing miles of fence	private 4.8 public 0.3
acres excluded other actions	private 58 public 3
No Grazing: miles of fence	private 6.2 public 3.0
acres excluded	private 480 public 280
public land AUMS canceled	28
Other actions	

Location: Category: AUMS within lease:	Segment 11 C 240	River N	/liles 39	.2 - 40.0	
Miles of river bank	private	1.5	public	0.2	
Acres within WSR boundaries	private	131	public	197	
Acres within allotment	private	1,320	public	1,200	
Riparian management in 1988	exclusion				
NEPA documents Riparian management in 1999	None same as abo				
Riparian management in 1999 Riparian monitoring			torina st	udies	
Upland monitoring	No established monitoring studies. No established monitoring studies.				
			0		
Restricted grazing, necessary actions:	Adjust use a	uthoriza	tions to	prohibit grazing on public lands	
	dependant u team and su	pon rec bject to	overy as manage	eactivation of use would be evaluated by an interdisciplinary ment prescription to sustain	
No Riparian Grazing miles of fence	dependant u	pon rec bject to	overy as manage	evaluated by an interdisciplinary	
acres excluded	dependant u team and su functioning c	pon rec bject to condition	overy as manage	evaluated by an interdisciplinary ment prescription to sustain	
acres excluded other actions	dependant u team and su functioning o private private none	pon rec bject to conditior n/a	overy as manage public public	evaluated by an interdisciplinary ment prescription to sustain n/a (same as existing)	
acres excluded other actions No Grazing: miles of fence	dependant u team and su functioning o private private none private	pon rec bject to condition n/a 1.0	overy as manage , public public public	evaluated by an interdisciplinary ment prescription to sustain n/a (same as existing) 1.0	
acres excluded other actions No Grazing: miles of fence acres excluded	dependant u team and su functioning o private private none private private private	pon rec bject to conditior n/a	overy as manage public public	evaluated by an interdisciplinary ment prescription to sustain n/a (same as existing)	
acres excluded other actions No Grazing: miles of fence	dependant u team and su functioning o private private none private	pon rec bject to condition n/a 1.0	overy as manage , public public public	evaluated by an interdisciplinary ment prescription to sustain n/a (same as existing) 1.0	

4186	Big	Flats
	- 3	

Location: Category:	Segment 11	River N	/liles 36	.0 - 39.2	
AUMS within lease:	129				
Miles of river bank	private	5.5	public	0.8	
Acres within WSR boundaries	private	201	public	148	
Acres within allotment	private	5,443	public	1,648	
Riparian management in 1988	Late fall				
NEPA documents	None				
Riparian management in 1999	same as abo				
Riparian monitoring	No established monitoring studies.				
Upland monitoring	No establish	ed moni	toring st	udies.	
Restricted grazing, necessary actions:	•		•	razing period within the dates of 30 on pastures with access to	
Restricted grazing, necessary actions: No Riparian Grazing miles of fence	September 1		•	30 on pastures with access to	
	September 1 riverbank.	15 to No	vember	30 on pastures with access to 0.8	
No Riparian Grazing miles of fence acres excluded	September 1 riverbank. private	15 to No 2.8	vember public	30 on pastures with access to 0.8 10	

Location: Category: AUMS within lease:	Segment 11 C 370			otment contains no river bank, but nile of the river.
Miles of river bank Acres within WSR boundaries	private private	0.0 140	public public	0.0
Acres within allotment Riparian management in 1988 NEPA documents	private no river banl none	2360 k on allo	public otment	1847
Riparian management in 1999 Riparian monitoring Upland monitoring	same as abo No establish No establish	ed mon	•	
			noning 5	
Restricted grazing, necessary actions:	same as exi	sting		
No Riparian Grazing miles of fence acres excluded other actions	private private	n/a	public public	n/a (same as existing)
No Grazing: miles of fence acres excluded public land AUMS canceled Other actions	private private	n/a	public public	n/a (same as existing)

Appendix M Riparian Photographs



Photo 1 July 1999. The confluence of Ferry Canyon and the John Day River at RM 53.7. The river is just beyond the far willow clump. Voluntary non-use from summer grazing has allowed development of woody and herbaceous riparian vegetation. Ferry Canyon Watershed Council promoted good management practices and upland restoration projects.



Photo 2 August 1980. Ferry Canyon and John Day confluence at RM 53.7. The river is seen in the upper half of the picture below the two prominent junipers and the cutbank. Much of the desirable riparian vegetation is absent due to summer grazing.



Photo 3 July 1999. Looking up Ferry Canyon from near the confluence with the John Day. Showing riparian improvement due to elimination of summer grazing.



Photo 4 August 1980. Looking up Ferry Canon from near the confluence with the John Day River. Much of the desirable riparian vegetation is absent due to summer grazing.



Photo 5 June 1996. The John Day River at RM 61.3. Showing the results of voluntary nonuse for six years.



Photo 6 June 1990. The John Day River at RM 61.3. Grazing usually extended from late spring into summer.



Photo 7 June 1996. The John Day River at RM 68.8. Low potential site showing no change since the 1991 photo. Continued livestock exclusion.



Photo 8 June 1991. The John Day River at RM 68.8. Low potential site showing little change after livestock exclusion since the 1950's.



Photo 9 July 1994. The John Day River at RM 100.4, showing increasing willow cover since 1990, (refer to Photo 22). Continued spring livestock use.



Photo 10 June 1990. The John Day River at RM 100.4, showing the results of riparian oriented grazing management started in 1988. Livestock graze during the spring period.



Photo 11 May 9, 1995. The John day River flowing at 10,300 cubic feet per second (cfs) at the confluence with Sorefoot Creek, RM 106.3. Showing extensive inundation of the lower banks and the riparian areas. Livestock are unable to access the riparian areas at higher flows during the spring.

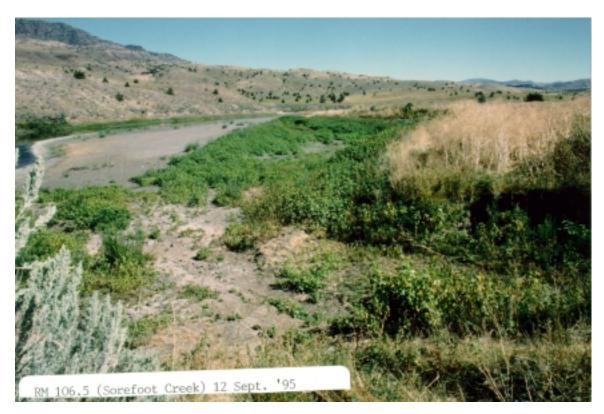


Photo 12 May 9, 1995. The John Day River flowing at 162 cfs at the confluence with Sorefoot Creek, RM 106.3. Showing full exposure of the riparian areas. Livestock could access the entire river and easily cross.



Photo 13 May 10, 1995. The John day River flowing at 10,300 cfs at the confluence with Hay Creek, RM 29.7. Showing extensive inundation of the lower banks and the riparian areas. Livestock are unable to access the riparian areas at higher flows.



Photo 14 September 14, 1995. The John Day River flowing at 162 cfs at the confluence with Hay Creek, RM 29.7. Showing full exposure of the riparian areas. Livestock could access the entire river and easily cross.



Photo 15 September 1996. Bridge Creek is a tributary to the John Day River at RM 135.3. Showing the results of short duration spring grazing practices for nine years.



Photo 16 September 1987. Bridge Greek is a tributary to the John Day River at RM 135.3. Showing the results of repeated, season long grazing use.

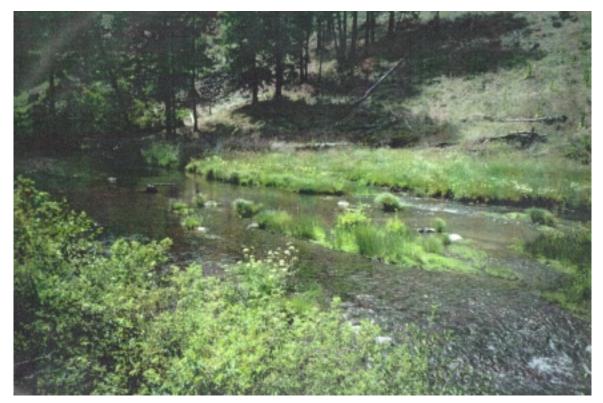


Photo 17 1997. The South Fork of the John Day River near Black Pine Creek. Improvement in the sedge/rush community resulting from riparian oriented grazing management. Grazing occurs for three weeks during the spring with complete rest every third year.

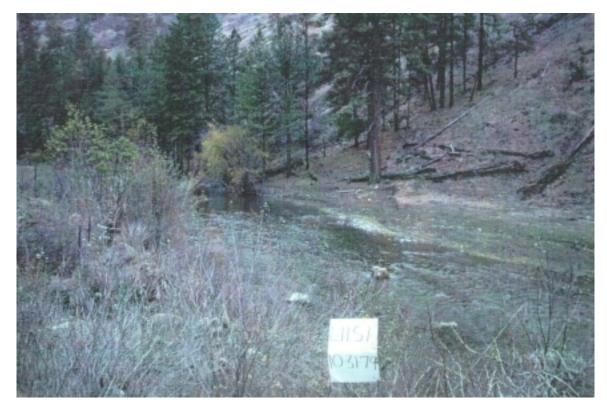


Photo 18 1979. The South Fork of the John Day River near Black Pine Creek. The results of season long grazing.



Photo 19 1999. The South Fork of the John Day River near Cougar Gulch. The riparian zone has improved by providing alternative livestock watering sources away from the creek and a riparian oriented grazing system which allows one month of use during the spring, or late summer, and complete rest every third year.

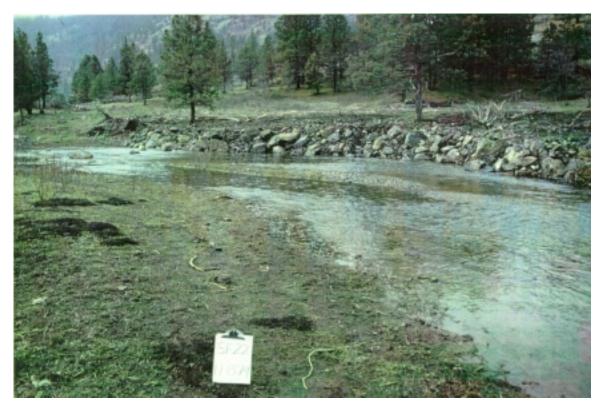


Photo 20 1979. The South Fork of the John Day River near Cougar Gulch. Showing the results of season long grazing.



Photo 21 July 1990. South Fork of the John Day River. A riparian oriented grazing system using spring grazing greatly increased the woody and herbaceous riparian vegetation.

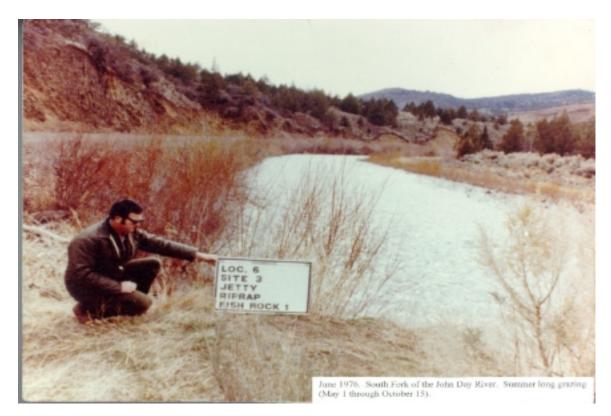


Photo 22 June 1976. South Fork of the John Day River. The results of repeated summer long livestock grazing.



Photo 23 June 1998. Reverie Terrace upland vegetation study along the John Day River at RM 76.6. Showing an increase in size and number of sand dropseed grass plants. Livestock grazing was changed to spring use in 1991.



Photo 24 May 1987. Reverie Terrace upland vegetation study along the John Day River at RM 76.6. The grass in the study plot is sand dropseed. Livestock grazing occurred during the spring and summer.

Ecological Site: A particular or unique kind of land with specific physical characteristics that differs from other kinds of land in its ability to produce a distinctive kind and amount of vegetation.

Ecological site (potential vegetation) = f [soil, parent material, relief, climate, biota(animals), time (time for the biotic community to approximate a dynamic equilibrium with soil and climate conditions)]

Along the John Day River there are several ecological sites that have distinct potential plant communities. Some of these sites have potential for riparian plant communities and others do not. On the John Day River system, seven riparian ecological sites have been described which support distinct potential plant communities. The sites vary greatly in their ability to support riparian vegetation.

1.0 Basalt Cliff /Ledge - This site consists of Basalt cliffs and ledges. It is generally devoid of soil. Occasionally very sparse vegetation will exist in fractures and crevices.

2.0 Colluvium - This site consists of rubble deposited by colluvial means. Fluvial forces have little to do with this landform. Boulders that have rolled into the stream are present adjacent to the site and are evident at low flow levels. Vegetation varies depending on how much fine soil material has accumulated and distance from average water flows. Hackberry is the dominant woody vegetation with mock orange present in wetter sites. Willows are generally absent at very few sites. Bunchgrass is typically not present below the mean high water mark. Reed Canary grass is common. Some emergent species tend to follow the water level as flows recede in the growing season.

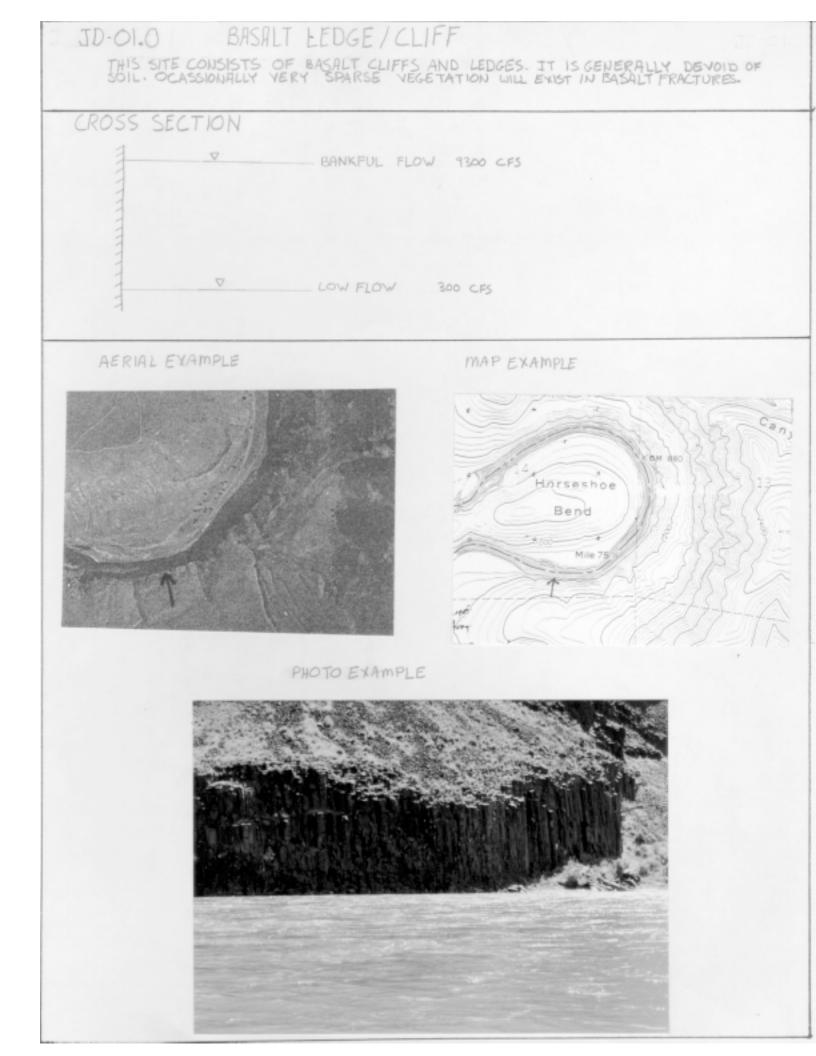
3.0 Cobble/Gravel Bar - This site consists of gravel and cobble bars, including mid-channeland point bars. Bar material is highly mobile. Vegetation, when present, is typically emergent and tends to follow the waters edge as it recedes during the growing season. As a result of substrate mobility and the associated shearing action, woody species are seldom found. Some mid channel bars have willow communities that are becoming established. These bars are in locations relative to channel shape that allow energy and shearing actions to stay in a defined pattern and allow for woody species to become better established.

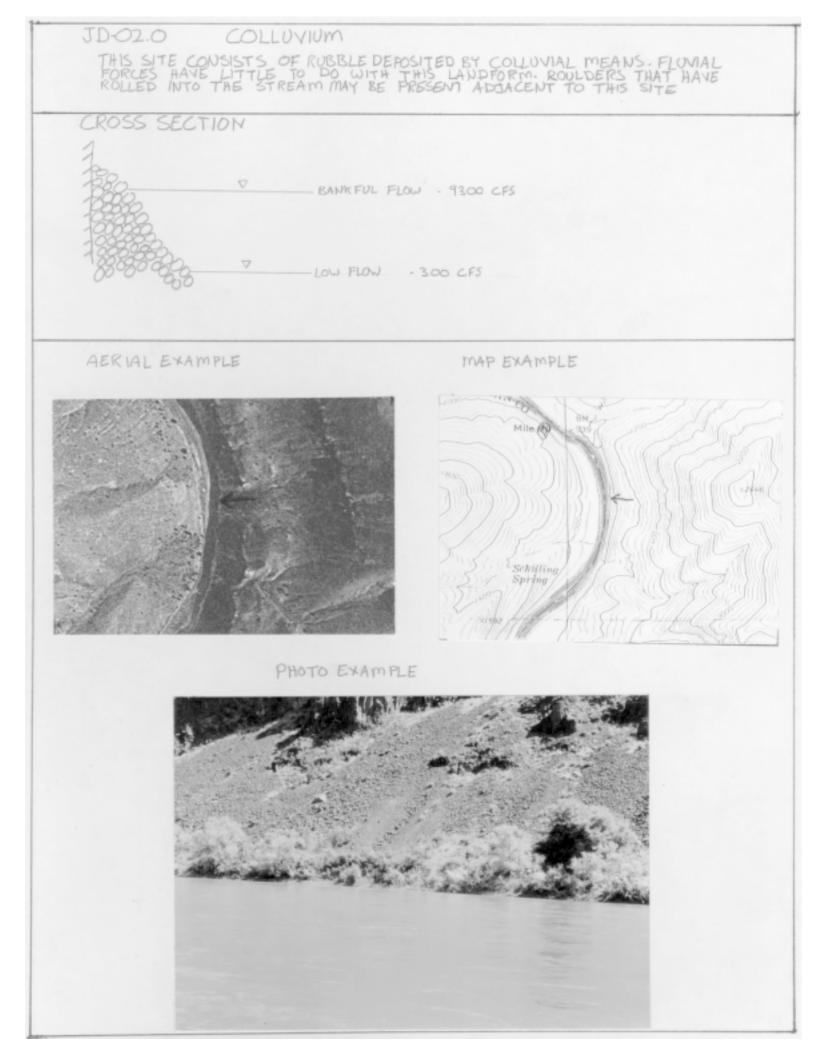
5.0 Terrace Edge - The formation of this site is the result of lateral stream migration into an older terrace landform. The older terrace is a remnant of the holocene period prior to the John Day adjusting to its current elevation. The top or flat part of the terrace contains upland species. This site is variable due to slope of the terrace edge, either vertical or sloping or slumping, and due to parent material of the terrace, either fine textured or coarse or a mixture of both. The substrate material composition is a factor in erosion rate (active cutbank, stable vertical bank, slumping recovering bank) which is a function of spatial location with respect to channel migration. Vegetation varies due mainly to soil texture and flow level fluctuations. Herbaceous and emergent vegetation follows water levels as it recedes during the growing season. Woody species are seldom found.

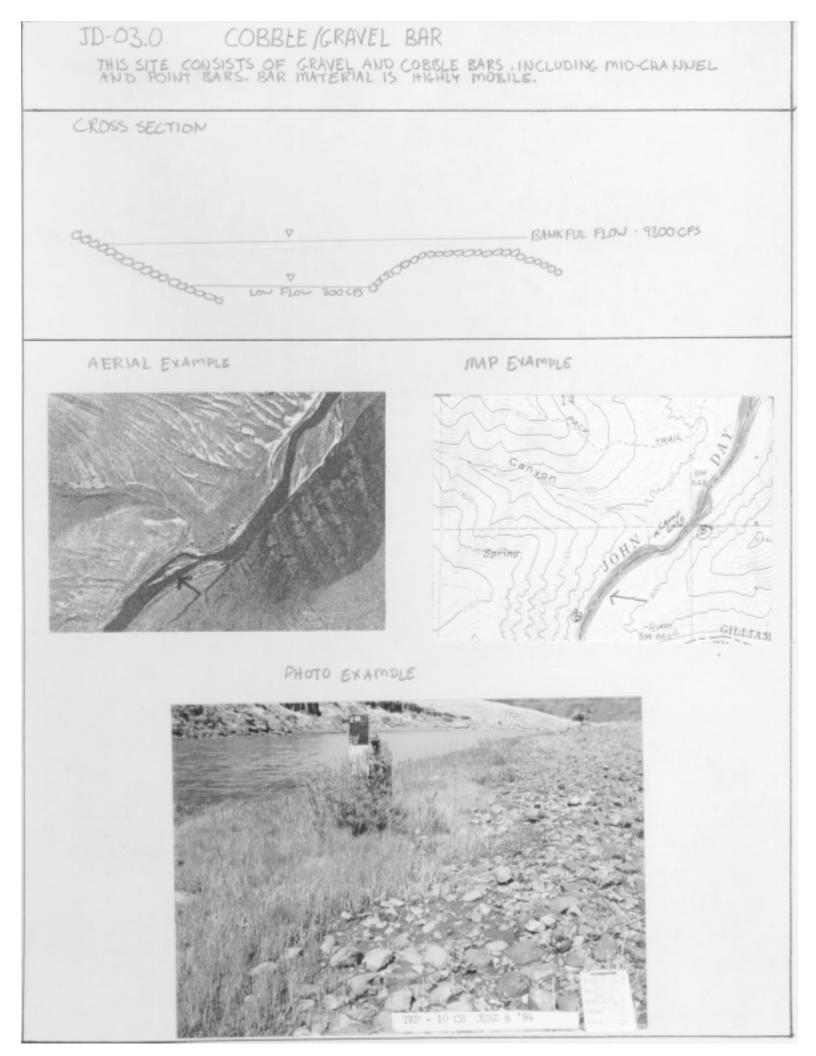
5.1 Non-Riparian Terrace Edge - This site consists of shallow soil terrace underlain by coarse fluvial substrate, typically gravel or cobble. This site is a specific subunit of the previously described terrace edge site. At low flow levels this site typically grades into gravel bars. Vegetation is limited by the lack of fine soil material and by low water holding capacity especially when water levels recede. As a result of substrate mobility and the associated shearing action, woody species are seldom found.

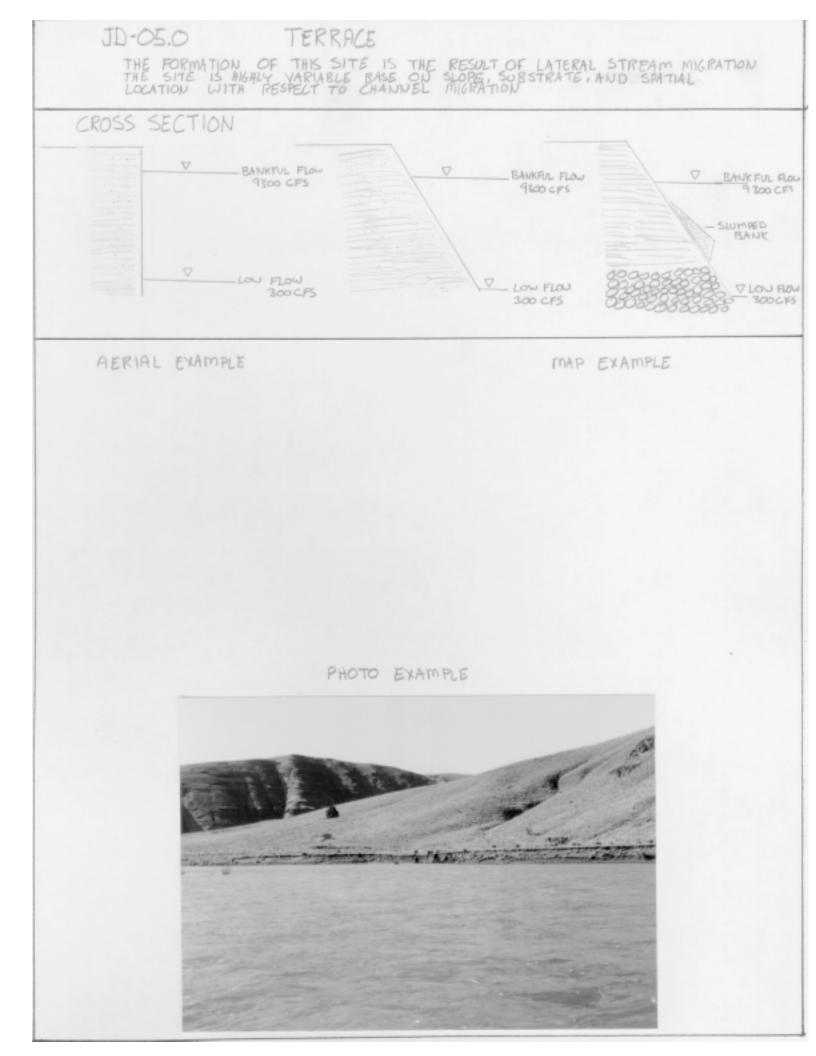
6.0 Alluvial Fan - This site forms a confluence with tributaries and canyon features. It is highly variable and groundwater relations are a key component. Coarse materials are deposited from the tributary into the main channel. Some of the coarse material is sheared from the front edge and deposited immediately downstream. Fine materials are deposited from the main channel both upstream and downstream of the coarse fan. The areas of fine soils material are subirrigated by the tributary creating a more stable water regime for plant communities. Vegetation is diverse with both herbaceous and woody vegetation present .

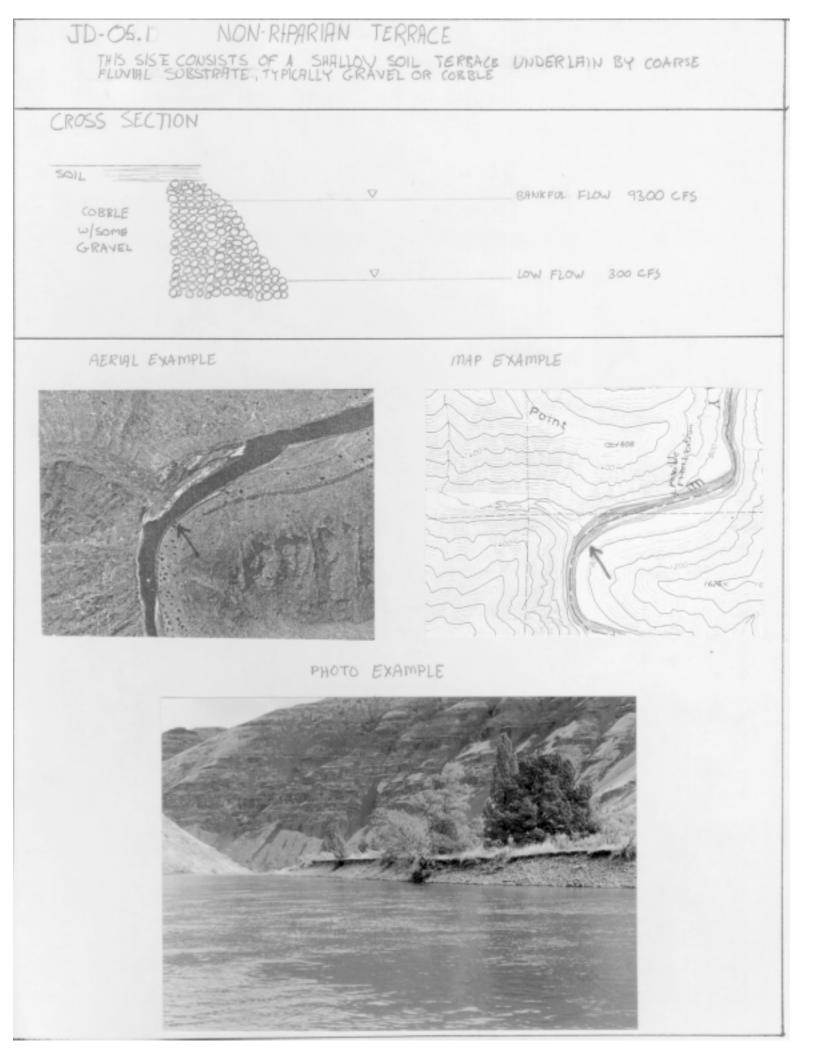
7.0 Hillslope - This site consists of shallow stony colluvium. What little fine soil that is included is loamy in texture. Fluvial forces have little to do with this landform and this site is very stable. Boulders that have rolled into the stream are present adjacent to the site and are evident at low flow levels. Vegetation varies depending on how much fine soil material has accumulated and elevation from average water flows. Hackberry is the dominant woody vegetation with mock orange present in wetter sites. Willows have only been found at very few sites. Bunchgrass is typically not present below the mean high water mark. Reed Canary grass occurs on some areas. Some emergent species tend to follow the water level as flows recede in the growing season.

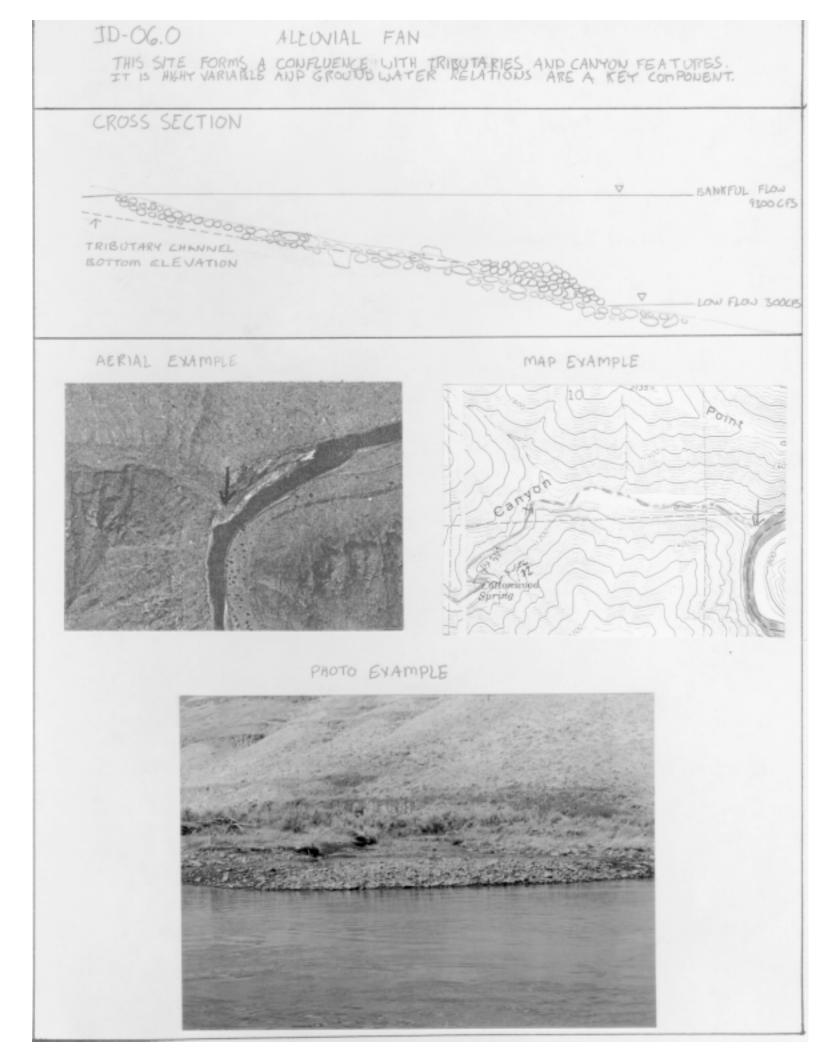


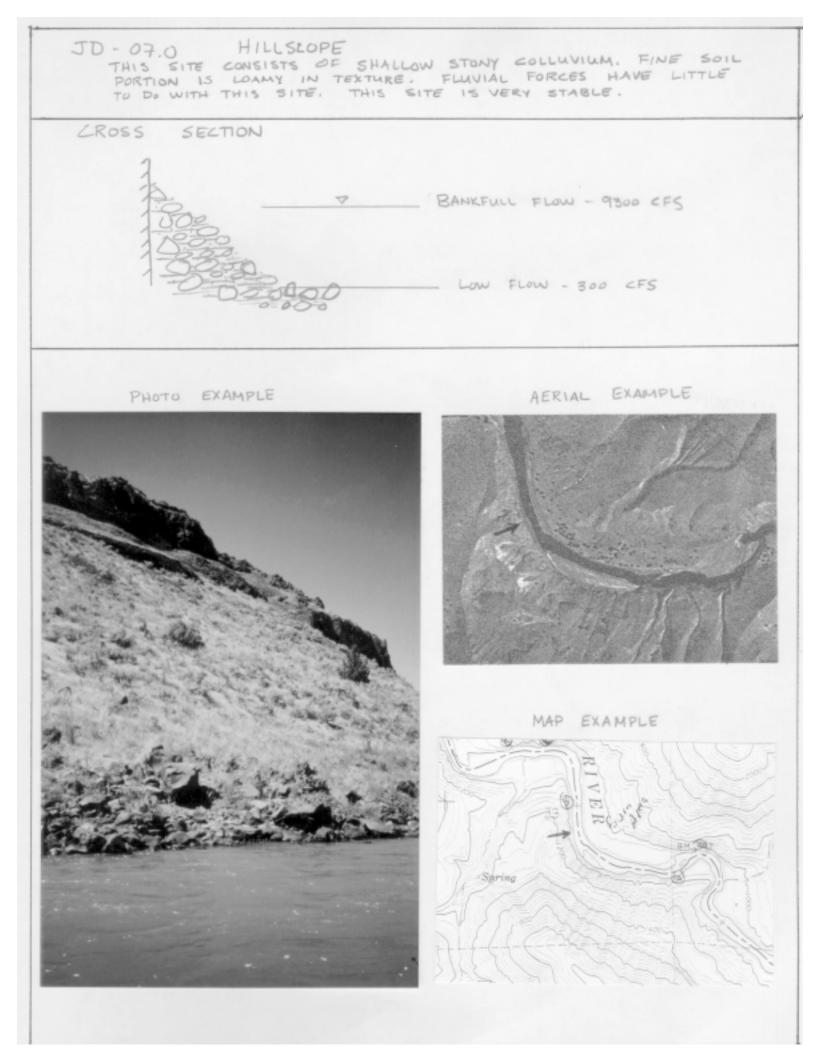












Appendix N The Wilderness Review Process

The BLM is required by law to conduct a wilderness review of it's lands and recommend to Congress which lands are or are not suited for wilderness designation. The review process consists of the following three steps:

1. <u>Wilderness Inventory</u> Public lands are inventoried to determine whether or not they possess the wilderness characteristics described in federal law. Lands found to have these characteristics are designated Wilderness Study Areas (WSAs). They are managed to preserve those wilderness characteristics until the next step occurs.

2. <u>Wilderness Study</u> WSAs are studied to determine if they are best suited for wilderness designation or for some other non-wilderness use. This results in BLM recommending to Congress that they designate the WSA or drop it from further consideration.

3. <u>Wilderness Reporting</u> The BLM presents the results of the wilderness study to the President who presents the final recommendation to Congress. The designation of federal land as wilderness can only be done by Congress.

Additions to BLM Wilderness Study Area Lands Within the John Day Basin:

Sutton Mountain and Pat's Cabin WSAs - Details concerning the Wilderness inventory for these WSAs can be found in the <u>Final Sutton Mountain Coordinated Resource Management Plan</u>(CRMP), dated March 1995, and the <u>Decision Record for the Sutton Mountain CRMP</u>, dated March 1996.

North Pole Ridge WSA - Details concerning the Wilderness inventory and study completed for the original North Pole Ridge WSA are included in the BLM <u>Wilderness Study Report</u>, Volume 1, pgs. 631-640, dated October 1991.

Details concerning additions to the North Pole Ridge WSA follow:

Unit Number: North Pole Ridge 1, addition to North Pole Ridge WSA Unit Name: OR-5-8

Description

Size: This unit contains 520 acres adjacent to the North Pole Ridge WSA.

Location: Along the John Day Wild and Scenic River about 15 miles northwest of Fossil, Oregon and 15 miles southwest of Condon, Oregon.

Boundaries: The unit is bounded to the south and west by the existing North Pole Ridge WSA and to the north by a utility corridor in Pine Hollow which contains a buried natural gas pipeline. To the southeast the unit is bounded by a small parcel of private land and a dirt road that traverses the east side of the river, then ascends the southwest side of Smith Canyon to the plateau above. To the northeast the unit is bounded by the John Day River.

Physical Characteristics: Within the unit, the John Day River has cut a 1,500 foot-deep canyon through the Columbia River Basalt Formation leaving escarpments along the canyon that are interspersed with volcanic talus and steep bunchgrass covered slopes. The unit includes portions of the John Day River Canyon, and two small tributary canyons, Zig Zag and an unnamed canyon. Elevations range from approximately 1,000 feet above sea level (ASL) at river level, to 2,000 feet ASL on the knobs and rocky ridges between side canyons.

The topography of the lands bordering the John Day River range from low river terraces of silt, sand and cobbles, to rounded grassy hills. At RM 86-87, near the center of the unit, a large bend in the river has created a river terrace about 75 acres in size. Approximately 15 acres of the river terrace are outside the unit boundary and are privately owned.

Away from the river, steep canyon walls of volcanic rock and talus rise towards the canyon rim, located from one to four miles away. The vegetation includes flats of juniper, sagebrush and snakeweed, to slopes of bunchgrass. Dalmation toadflax, a noxious weed, has invaded a portion of the large river terrace in the southern portion of section 9. Noxious weeds have invaded other portions of the unit to varying degrees, particularly river benches that are regularly washed with flood waters containing weed seeds.

Wilderness Criteria

Size: The unit satisfies the size criteria as it is contiguous with the North Pole Ridge WSA.

Naturalness: The unit appears to have been primarily effected by the forces of nature. The few unnatural features that exist, include a .4 mile way that parallels the east bank of the John Day River from Thirtymile-Smith Canyon road to the Northpole Ridge WSA boundary with a .4 mile fence paralleling the way on the east side. There is also an abandoned agricultural field of approximately 5 acres on a flat between the John Day River and Thirtymile-Smith Canyon Road. The field is in the process of reverting to natural vegetation. Overall the imprint of peoples work within the unit is substantially unnoticeable.

Solitude: The opportunity for solitude is outstanding throughout much of the unit. The basalt slopes of the 1,500 foot deep John Day River Canyon engulf the visitor and in many places give one the feeling of being completely alone. Near the center of the unit, the incised river canyon makes a major gooseneck turn, greatly reducing visibility around this bend, either upstream or downstream of the visitor's location. In the northern portion of the unit the opportunity for solitude is lessened by low rolling hills which increase visibility in the area between the canyon wall and the river. Despite a lesser degree of solitude in the northern portion, the unit as a whole contains many secluded spots, either along the river, up side canyons, or over their connecting ridges.

Recreation: The unit contains many outstanding opportunities for unconfined recreation including float boating, fishing, camping, hiking, hunting, wildlife viewing, bird watching, photography and viewing geological, and archeological features.

Supplemental values: Supplemental values found in this unit include 2.5 miles of the John Day River which provides critical habitat for steelhead, trout and chinook salmon, outstanding scenic quality, a natural bluebunch wheatgrass plant community, three Federal candidate plant species, protected wildlife including bald eagles and California bighorn sheep, the Columbia River Basalt formation and archeological sites.

Decision: The results of a wilderness inventory analysis concluded that this unit has wilderness character, worthy of further wilderness review, and on February 13, 1998, it was approved by the Prineville District BLM for addition to the North Pole Ridge WSA.

Rationale: This unit appears to be affected primarily by the forces of nature, and offers outstanding opportunities for solitude and primitive and unconfined forms of recreation. The unnatural features present are not dominant in the landscape.

Unit Number: North Pole Ridge 2, addition to North Pole Ridge WSA Unit Name: OR-5-8

Description

Size: This unit contains 760 acres adjacent to the North Pole Ridge WSA.

Location: About one mile east of the John Day Wild and Scenic River, about 15 miles northwest of Fossil, Oregon and 15 miles southwest of Condon, Oregon.

Boundaries: The unit is bounded to the south and east by private land and to the west by the existing North Pole Ridge WSA. To the north, the unit is bounded by the thirtymile-Smith Canyon Road.

Physical Characteristics: the topography of the lands consists of several volcanic canyons that are deeply

incised in the Columbia River Basalt Formation. Elevations range from approximately 1,400 feet ASL at the bottom of Pete Enyart Canyon, to 2,600 feet ASL on the knobs and ridges between side canyons.

The vegetation is sparse in these rugged, rocky canyons, consisting primarily of sagebrush and bunchgrass. Springs and seeps are visible in the canyon walls, offering small riparian zones and patches of lush greenery. The bottom of the side canyons is rocky and sparsely vegetated due to the lack of regular runoff and occasional flash flood events.

Wilderness Criteria

Size: The unit satisfies the size criteria as it is contiguous with the North Pole Ridge WSA.

Naturalness: All portions of the unit appear to be in a natural condition and primarily affected by the forces of nature, protected from much of man's influence, primarily due to it's remote location. The extremely rugged topography of the lands within this unit have made human development difficult and undesirable. There are no known significant human impacts inside the boundaries of the unit.

Solitude: Outstanding opportunities for solitude exist in the entire unit, due in part to the topography of the area. The isolated canyons in this unit are so deeply incised that if two parties of hikers were exploring adjacent side canyons, they would not be aware of the other parties' presence. By hiking from the John Day River up one of these side canyons, one could find total solitude away from the sights, sounds and evidence of other people in the unit.

Recreation: The unit contains many outstanding opportunities for hiking, backpacking, hunting, wildlife viewing, bird watching, sightseeing, photography and viewing geological, and archeological features.

Supplemental values: Supplemental values found in this unit include the outstanding scenic qualities of the incised canyons bordering the John Day River, seeps and springs that provide a lush vegetation in contrast with the otherwise dry landscape, a natural bluebunch wheatgrass plant community, three Federal candidate plant species, protected wildlife including bald eagles and California bighorn sheep, the Columbia River Basalt formation and prehistoric sites.

Decision: The results of a wilderness inventory analysis concluded that this unit has wilderness character, worthy of further wilderness review, and on February 13, 1998, it was approved by the Prineville District BLM for addition to the North Pole Ridge WSA.

Rationale: This unit appears to be affected primarily by the forces of nature, and offers outstanding opportunities for solitude, and primitive and unconfined forms of recreation without the presence of unnatural features introduced my modern man.

Appendix O Visual Resource Management Classifications

The following are Visual Resource Management Classifications used by BLM.

Class I - The objective of this class is to preserve the existing character of the landscape. Natural ecological changes and very limited management activities are allowed. Any change created within the characteristic landscape must not attract attention.

Class II - The objective of this class is to retain the existing character of the landscape. Changes in any of the basic elements caused by a management activity should not be evident in the characteristic landscape. The level of change should be low and must repeat the basic elements of form, line, color, and texture found in the predominant natural features existing within the landscape. Changes are seen, but do not attract the attention of the casual observer.

Class III - The objective of this class is to partially retain the existing character of the landscape. Changes to the basic elements caused by a management activity are evident, but should remain subordinate to the existing landscape and should not dominate the view of the casual observer. Changes should be moderate and repeat the basic elements found in the predominant natural features of the landscape.

Class IV - The objective of this class is to provide for management activities which require major modification of the existing character of the landscape. Changes may attract attention. Activities may be dominant features of the landscape but every attempt should be made to minimize the impact of activities through careful location, minimal disturbance, and repeating the basic elements of the natural features of the landscape.

Class V - The objective of this class is to provide for areas where activities have disturbed the natural landscape to a point where rehabilitation is needed to bring it up to one of the four other classifications. The level of rehabilitation will be determined by the minimal standards of the desired management class for the area.

Taken from BLM Manual 8400, Visual Resource Management, dated April 5, 1984.

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