FOREST PLAN 12TH ANNUAL MONITORING AND EVALUATION REPORT

NEZ PERCE NATIONAL FOREST

Fiscal Year 1999

INFORMATION REQUESTS AND COMMENTS

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NEZ PERCE NATIONAL FOREST FISCAL YEAR 1999

INTRODUCTION

The Land and Resource Management Plan (Forest Plan) for the Nez Perce National Forest was approved by the Regional Forester on October 8, 1987. In it, a commitment was made to monitor and evaluate how well the Forest plan is being implemented. Monitoring and evaluation comprise the management control system, and the results of monitoring and evaluation provide the line officer and the public with information on the progress and results of implementing the Forest Plan.

A commitment was also made to consider modifications to the Forest Plan using amendments based on the monitoring and evaluation findings. Monitoring and evaluation each have a distinctly different purpose and scope.

Monitoring is the act of gathering information/data and observing the results of management activities to provide a basis for periodic evaluation of the Forest Plan. There are three types of monitoring:

- Implementation Monitoring (sometimes called compliance monitoring) determines whether management actions are implemented as specified in the NEPA decision. Fore example, making sure that a specific required mitigation requirement is implemented. The question being asked is: "Did we do what we said we were going to do?" In this report, implementation monitoring is the type of monitoring assumed, unless otherwise specified.
- Effectiveness Monitoring often occurs over a period of years and determines whether the management actions are effective in meeting management direction and objectives. For example, determining whether a standard for retaining a certain amount of wood debris on the site is effective in maintaining

soil productivity and reducing erosion. The question being asked in this type of monitoring is: "Did the management practice do what we wanted it to do?"

□ Validation Monitoring, which often occurs through research projects, determines if the assumptions underlying key elements of planning and analysis (including computer models) are correct. The question being asked here is: "Are the assumptions correct that are being used to make resource predictions and decisions?"

Evaluation is the analysis and interpretation of monitoring results. Evaluation will assist in the review of the conditions on the land covered by the Forest Plan as required at least every 5 years by the National Forest Management Act Regulations. Actions resulting from evaluation are reported in the Plan Amendments and Action Items (Appendix) sections of this report. Evaluating the results of implementation monitoring can lead to immediate changes in the operation of a project, whereas evaluating the effectiveness or validation monitoring can be a basis for changes in future planning or management.

Monitoring and evaluation focus on those facets of land and resource management, which could most critically affect Forest Plan implementation. Monitoring elements include:

- Items on which implementation may have a potentially significant effect;
- Items where achievement of a relevant goal or objective is going to be difficult;
- □ Item where projected effects may or may not occur as predicted; and
- ☐ Items where accomplishment of an objective or meeting of a standard determines the ability to achieve another goal or objective.

Forest Plan management activities were monitored and evaluated as outlined in the Forest Plan Monitoring Requirements section of the Forest Plan, pages 6 and 7, Table V-1, and Appendix O to determine how well objectives were met and how closely management standards were applied. Informal and formal field reviews were also conducted on a variety of projects during fiscal year 1999. These are documented in various ways, including daily diaries, file notes, and letters. These reviews are often conducted as routine inspections of timber sales, road contracts, mining operations, or while planning or implementing other projects. A summary of the key field reviews can be seen in Section II-D – Other Monitoring.

This report summarizes results of Forest Plan monitoring and evaluation conducted from October 1, 1998, through September 30, 1999. In some instances, it is difficult to determine how well the Forest Plan objective, outputs,

and standards are being met. For some items, data is insufficient to evaluate trends. We are continuing to develop methodologies for data acquisition and interpretation useful for evaluation. This report is organized into six main sections, plus an appendix:

Monitoring and Evaluation Results and Trends

This section compares planned outputs and services with the actual accomplishments and discusses budget and expenditure history and future projections. It also includes a detailed summary of monitoring findings for each of the required Forest Plan Monitoring Elements, subdivided by resource emphasis, i.e. wildlife, timber, recreation, etc.

- Research Needs
- Forest Plan amendment summary as of September 30, 1999
- List of Preparers
- □ Forest Supervisor Approval Page
- The Appendix

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MONITORING AND EVALUATION RESULTS AND TRENDS

A. WERE OUTPUTS AND SERVICES PROVIDED AS PREDICTED

Table 1 compares the levels of activities and outputs projects in the Forest Plan (Page II-9, Table II-1) with assigned targets for these schedules of work, and with actual accomplishments for these activities and outputs for fiscal year 1999.

Project outputs and activities published in the Forest Plan (Page II-9, Table II-1) are shown in the columns labeled "Forest Plan Projection."

The targets represent the levels of work assigned to the Forest by the Regional Forester and have been adjusted from projected levels in the Forest Plan to reflect actual funding levels.

Accomplishments shown the amount of work actually completed in each fiscal year.

Even though the reporting period for some monitoring items may be two or more years, information from all monitoring items is reported annually. This annual monitoring data will be evaluated at the end of the stated reporting period.

TABLE 1

LAND MANAGEMENT PLANNING (NFPN)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
EM-LRMP-M&E		Forest Plan Monitoring/Evaluation	Reports	N/A	1	1
EM-LRMP-UW	ET121	Forest Plan Revisions Underway	Plans	N/A	0	0
EM-AMEND-UW	ET121	Significant Forest Plan Amendment Underway	Amendments	N/A	0	0
EM-LRMP-COMP	ET121	Forest Plan Revision Completed	Plans	N/A	0	0

INVENTORY AND MONITORING (NFIM)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	FY99 Target	FY 99 Accomplishment
EM-RIVSS-INV	EM111	Riverine Vly Sgmt Scale Inv.	Miles	N/A	0	0
EM-RIVSR-INV	EM111	Rvrn Strm R/C Unit Scale Inv.	Miles	N/A	0	0 .
EM-LL-TY-INV	EM111	Lacustrine Lk Type Scale Inv.	Acres	N/A	0	0
EM-LL-ZO-INV	EM111	Lestrn Lk Zone/Site Scale Inv.	Acres	N/A	0	0
EM-ECOREG-AS	EM113	Eergn Sci-D/D/P Assessment	Assessment-	N/A	0	0
EM-SUB-RVR-A	EM113	Eesrgn Setn RvB/s Assessment	Assessment	N/A	1	0
EM-LN-WTR-AS	EM113	Lndscp/Wtrshd Sci Assessment	Assessment	N/A	2	0
EM-ESUB-A-UW	EM113	Eergn Sci-D/D/P Assessment	Assessment	N/A	0	0
EM-ESUB-R-UW	EM113	Eesrgn Setn RvB/S Assessment	Assessment	N/A	1 ,	- 1
EM-LN-WTR-UW	EM113	Lndscp/Wtrshd Sci Assessment	Assessment	N/A	3	3
EM-FOR-R-INV	EMI11	Forest Res. Inventory	Acres	N/A	0	0
EM-RG-R-INV	EM111	Rangeland Res. Inventory	Acres	N/A	0	*9. O
EM-WL-HAB-IN	EM111	Wildlife Habitat Inventory	Acres	N/A	2	2
EM-TES-INV	EM111	TE&S Habitat Inv.	Acres	' N/A	0	950
EM-S-AQBIO-I	EMIII	Stream Aquatic Biota Inv.	Miles	N/A	0	51
EM-L-AOBIO-I	EMIII	Lake Aquatic Biota Inv.	Acres	N/A	0	12
EM-TEUI-ESR	EM111	Eco-subrgn (set/sbset) Scale	Acres	N/A	0	0
EM-TEUI-LPS	EMI11	Landscape Scale Inventory	Acres	N/A	0	0
EM-TEUI-LUS	EM111	Land Unit Scale Inventory	Acres	N/A	. 0	26,000
EM-HERT-INV	EM111	Heritage Inventory	Acres	10,000	1	1
EM-AQR-INV	EM121	AQRVs Inventory & Monitor	Aqıv	N/A	1	1 , , ,

RECREATION MANAGEMENT (NFRM)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
RM-PAOTS-TOT	OM	Seasonal Capacity Available	PAOT Days	N/A	600,000	700,000
RM-TRAIL-SYS	OM	Recreation Trails on System	Miles	N/A	0 -	1,479
RM-SU-ADMIN	OM	Rec Spel Use Permits Total	Permits	N/A	35	61
RM-REC-USE-T	OM	Recreation Use Total	M Visits	N/A	0	1,804,000
XXXX	OM	Trail Maintenance	Miles	N/A	0	0

WILDERNESS MANAGEMENT (NFWM)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
RM-WLDTR-SYS	OM	Wilderness Trails on System	Miles	N/A	0	1,427
XXXX	OM	Trail Maintenance	Miles	N/A	606	647.9
RM-HERT-EVAL	OM	Heritage Sites Evaluated	Sites	N/A	13	16
RM-HERT-INTP	OM	Heritage Sites Interpreted	Sites	N/A	5	5
RM-HERT-P&P	OM	Heritage Sites Preserve/Protect	Sites	N/A	45	32

WILDLIFE HABITAT MANAGEMENT (NFWL)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
WL-STRUCTURE	<5000 IN >=5000RP	Wildlife Structures	Structures	N/A	0	46
WL-THAB-RES		Terrestrial Wild. Habitat Restored/Enhanced	Acres	175	200	200

INLAND FISH HABITAT MANAGEMENT (NFIF)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
WL-IF-STR-RE		Inland Fish Stream Restored/Enhanced	Miles	N/A	14	14
WL-IF-LAK-RE		Inland Fish Lake Restored/Enhanced	Acres	N/A	0	0

ANADROMOUS FISH HABITAT MANAGEMENT (NFAF)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
WL-AF-STE-RE		Anadromous Fish Stream Restored/Enhanced	Miles	N/A	20	20
WL-AF-LAK-RE		Anadromous Fish Lake Restored/Enhanced	Acres	N/A	0	0

TE&S HABITAT MANAGEMENT (NFTE)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	FY99 Target	FY 99 Accomplishment
WL-TES-STRUC	<5000 IN >=5000 RP	TES Structures	Structures	N/A	0	0
WL-TE-AQ-SRE	<5000 IN>= 5000 RP/IN	TE&S Aquatic Stream Habitat Restored/Enhanced	Miles	N/A	0	0
WL-TE-AQ-LRE		TE&S Aquatic Lake Habitat Restored/Enhanced	Acres	N/A	0	0
WL-TES-HAB	OM	TES habitat Restored/Enhanced	Acres	60	60	60
WL-BIO-A&E	OM	Bio Assess/Evaluation	Tasks	N/A	0	300
WL-CON-PLANS	OM	Recovery & Conserv. Plan	Tasks	N/A	0	0
WL-SP-RECLAS	OM	Species Delisted/Reclassified	Species 1/	N/A	0	1
WL-SP-DNLIST	OM	Sensitive Species Downlisted	Species 1/	N/A	0	1

GRAZING MANAGEMENT (NFRG)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	FY99 Target	FY 99 Accomplishment
RG-STRUC-IMP	<5000 IN >=5000 RP	Range Structural Improvements	Structures	N/A	8	8
RG-GZ-ADM-ST	OM	Grazing Allotments Administered to Standard	Permits	N/A	22	22
RG-GZ-ADM-T	OM	Grazing Allotments Administered – Total	Allotments	N/A	0	0
RG-GZ-NEPA	OM	Grazing Allotments Analyzed/Implemented	Allotments	N/A	0	0
RG-GZ-SH-GTS	OM	Grazing - Sheep & Goats	Hd Months	N/A	0	0
RG-GZ-CA-HOR	OM	Grazing - Cattle & Horses	Hd Months	N/A	. 0	0
RG-RLRP-NEPA	OM	Range Restored/Protected NEPA Decisions	Acres	N/A	0	0

RANGELAND VEGETATION MANAGEMENT (NFRV)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	Construction Committee	FY 99 Accomplishment
RG-NOX-WD-TR	OM	Noxious Weed Treatment	Acres	500	300	1,047
RG-N-STR-IMP	IN	Range Non-Structure Imp.	Acres	0	0	0
RG-MON-EVAL	OM	Rangeland Monitored/Evaluated	Acres	N/A	3,000	3,000

TIMBER SALES MANAGEMENT (NFTM)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	FY99 Target	FY 99 Accomplishment
FM-FUELS-BD	OM/PF242	Fuels Treatment - BD	Acres	N/A	750	654
FM-VOL-OFF-B	ET1143	Volume Offered, New	MBF	N/A	7.8	0
FB-VOL-SSS-B	ET1143	Volume Offered, SSF	MBF	N/A	20	00
FM-VOL-OF-N	ET1143	Volume Offered, New	CCF	N/A	13,884	0
FM-VOL-OFF-S	ET1143	Volume Offered, SSF	CCF	N/A	35,600	0
FM-VOL-SLD-B	ET1143	Volume Sold	MBF	N/A	0	0
FM-VOL-SOLD	ET1143	Volume Sold	CCF	N/A	4.95	0
FM-VOL-HV-TB	ET12FS/PP/TC	Volume Harvested - Total	MBF	N/A	0	0
FM-VOL-HAR-T	ET12FS/PP/TC	Volume Harvested - Total	CCF	N/A	0	0

FOREST VEGETATION MANAGEMENT (NFFV)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	M	FY 99 Accomplishment
FM-REF-APPR	ET24	Reforestation	Acres	400	888	0
FM-REF/KV	ET24	Reforestation-KV	Acres	450	518	0
FM-TSI-APPR	ET25	Timber Stand Improvement	Acres	500	0	0
FM-TSI-KV	ET25	Timber Stand Improvement - KV	Aeres	0	400	0

SOIL, WATER, AIR OPERATIONS (NFSO)

MAR Code	Work Activity	Definition		Forest Plan Projection		FY 99 Accomplishment
SW-PSD-APP	OM	PSD Permit Applications Reviewed	Applications	NA	0	0

WATERSHED IMPROVEMENTS (NFSI)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
SW-RES-IMP	<5000 IN >=5000 RP	Soil & Water Resource Imp.	Acres	200	80	81
SW-WS-CL-I		Class I Watersheds	Watersheds	N/A	0	0
SW-WS-CL-II	OM	Class II Watersheds	Watersheds	N/A	0	0
SW-WS-CL-III	OM	Class III Watersheds	Watersheds	N/A	0	0

NON-ENERGY RESOURCES (NFMG)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	FY99 Target	FY 99 Accomplishment
MG-N-BNE-OP	GL1/GR1	N-Bond N-Energy Ops	Operations	N/A	0	0
MG-BNE-OP-PR	GL1/GR1	Bond N-energy Ops	Operations	N/A	90	90
MG-T-BNE-OP	GL1/GR1	Total Bond N-Energy Ops	Operations	N/A	0	0
MG-BNE-OP-AD	GL1/GR1	Bond N-energy Op Adm To Stud	Operations	N/A	0	0
MG-NE-AC-PR	GE1	N-Energy Acres Processed	Acres	N/A	0	0
MG-ABAN-SI-R	<5000 IN >=5000 RP	Abandoned Sites Reclaimed	Sites	N/A	0	0
MG-GEO-MA-AD	OM	Geologic Mgmt Areas Admin.	Areas	N/A	0	0
MG-GEO-PER	GL1	Geologie Permits/Reports Comp.	Reports	N/A	0	0
MG-ENG-OP-AD	GL1/GR1	Energy Operations Adm. – Std.	Operations	N/A	25	25

REAL ESTATE MANAGEMENT (NFLA)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	FY99 Target	FY 99 Accomplishment
LN-LND-CLASS	OM	Landownership Admin	Cases	N/A	0	0
LM-SU-APPL	JL122	Gen Special Use Applications Processed	Permits	N/A	27	13
LM-SUP-STD	OM	Auth Administered to Standard	Permits	N/A	116	114
LM-SUP-TOT	OM	Auth Administered - Total	Permits	N/A	0	0

ACQUISITION OF LANDS (LALW)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
LA-OWNER-ADJ	IN	Ownership Adjustment	Acres	N/A	0	0
LA-EXCH-FEE	JL263	Land Exchange - Fee	Acres	0	30	0
LA-EXCH-PART	JL263	Land Exchange – P/Interest	Acres	N/A	141	0
LA-ROW-ACQ	IN	Rights-of-Way Acquired	Cases	N/A	2	0

LAND LINE LOCATION (NFLL)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	11	FY 99 Accomplishment
LM-LL-NEW	IN	Land Line Location	Miles	N/A	4	4
LM-LL-MAINT	OM	Land Line Maintenance	Miles	N/A	0	0
LM-S-BOUNDRY	IN	Special Area Boundary Location	Miles	N/A	0	0

ROAD MAINTENANCE (CNRM)

MAR Code	Work Activity	Definition	A CONTRACTOR OF THE PARTY OF TH	Forest Plan Projection		FY 99 Accomplishment
RD-DECOMM	OM	Roads Obliterated	Miles	N/A	29.7	22.3
RD-FUL-MAINT	OM	Roads Fully Maintained	Miles	N/A	45	45

LAW ENFORCEMENT OPERATIONS (NFLE)

MAR Code	Work Activity	Definition	101	Forest Plan Projection	11	FY 99 Accomplishment
LE-INCIDENTS	PL133	Incidents	Incidents	N/A	0	0
LE-COOP-AGRE	PL121	Cooperative Agreements	Agreements/1	N/A	0	0

FOREST ROAD RE/CONSTRUCTION (CNRD)

MAR Code	Work Activity	Definition	EL CONTRACTOR DE	Forest Plan Projection		FY 99 Accomplishment
CR-RD-RECONS	RP	Road Reconstruction	Miles	0-20	13.7	27.5

FOREST TRAIL CONSTRUCTIN (CNTR)

MAR Code	Work Activity	Definition		Forest Plan Projection		FY 99 Accomplishment
CR-TR-CNST-R	10000 111	Trail Construction/ Reconstruction	Miles	15	53	56.2

FOREST SERVICE FIRE PROTECTION (WFSU)

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection		FY 99 Accomplishment
FP-CAPABILITY	PF111	Fire Protection Capability	Dollars	N/A	0	0
FP-FUELS-APP	OM, PF242, PF243	Fuels Treatment	Acres	8,000- 15,000	7,114	8,803

HUMAN RESOURCES

MAR Code	Work Activity	Definition	Unit of Measure	Forest Plan Projection	FY99 Target	FY 99 Accomplishment
HR-YCC-PART		YCC Participation	Enrollee Weeks	N/A	0	0
HR-SCSEP		SCS Participation	Enrollee Hours	N/A	0	0
HR-VOLN-NF		NFS Program Volunteers	Enrollee Years	N/A	0	0
HR-HOSTED-PR		Hosted Program/Other HRT	Enrollee Years	N/A	0	0

B.ARE THE DOLLARS AND WORKFORCE COSTS OF THE PLAN IMPLEMENTED AS EXPECTED

Table 2 shows the amount of funds allocated to and expended by the Forest for the last three fiscal years (1996-1998).

Table 3, "Projected Forest Funding Level," displays the actual FY 99 and projected FY 2000 Forest budget by resource function. Dollars have been adjusted to constant 1998 values for Tables 2 and 3.

Throughout this report various types of funding are mentioned. Much of the Forest's funding is obtained directly through congressional appropriations. Additional funding comes from trust funds that include deposits made to the Forest Service by timber purchasers and range permittees to cover the cost of resource protection. Other funds are derived through partnerships with organizations and private parties on a cost share or matching fund basis. The following sections describe these different funding types.

APPROPRIATED FUNDS FOR NATIONAL FOREST SYSTEM LANDS

These are dollars appropriated by Congress to provide for the protection. management, and utilization of national forest lands.

RANGE BETTERMENT FUNDS

A portion of grazing fee receipts finances the range betterment program on national forest lands. Fifty percent of grazing fee receipts are returned to the Forest to fund installation of structural and nonstructural range improvements such as seeding, fence construction, weed control, water development, and fish and wildlife habitat enhancement. It is regional policy that the range permittee cooperates by splitting the cost of labor and supplies. Often the permittee cooperates in these activities by supplying the labor needed to implement and maintain the improvements.

PERMANENT AND TRUST FUNDS

Brush Disposal (BD)

After timber harvest operations, it is often necessary to dispose of brush and logging slash to protect and maintain national forest resources. Timber sale contracts require that the timber purchaser complete this work when economical or expedient, or make a deposit to cover the cost when it is more practical for the Forest Service to complete the brush disposal work.

Timber Salvage Sales

Timber Salvage Sale funds are used for the design, engineering, and supervision of road construction for salvage sales, for sale preparation, and for administration of salvage timber harvest. These funds are used to salvage insect infested, dead, damaged, or down timber, and to remove associated trees for stand improvement. Part of the receipts from timber salvage sales are deposited in this account and used to prepare and administer future salvage sales.

COOPERATIVE WORK, KNUTSON-VANDENBERG (KV) FUNDS

These funds are deposited by timber purchasers and used primarily for resource activities which improve the future productivity of the renewable resources on timber sales (i.e. reforestation, timber stand improvement, etc.)

Cooperative Work, Other (CWFS-Other) Funds

CWFS-Other funds are derived from deposits received from cooperators for protecting and improving resources as authorized by trust agreements. These deposits are used for the construction, reconstruction, and maintenance of roads, trails, and other improvements, and for timber scaling services, fire protection, and other resource purposes. Cooperative road maintenance deposits are made by commercial users of the forest road system in lieu of actually performing their commensurate share of road maintenance. The Forest Service uses these deposits in conjunction with the congressional appropriated funds to provide maintenance for system roads.

CHALLENGE COST SHARE DOLLARS

Challenge cost share agreements are federal funds matched by various states, and private non-profit organizations to jointly develop, plan, and implement projects to enhance specific resource improvement activities. These funds are currently permitted for use in recreation, wildlife, and fish cost-share programs.

TABLE 2

COMPARISON OF PROJECTED FUNDING LEVELS, ALLOCATIONS,
AND EXPENDITURES

	Fiscal Y	ear 1997	Fiscal y	ear 1998	Fiscal y	Fiscal year 1999		
Funding Description Year of \$\$ (Factor)>	Allocation (FY 1999\$) 1.026483**	Expenditures (FY 1999\$) 1.026493**	Allocation (FY 1999\$) 1.014459**	Expenditures (FY 1999\$) 1.014459**	Allocation (FY 1999\$) 1	Expenditures (FY 1999\$) 1		
General Administration	\$1,437	\$1,518	\$1,275	\$1,433	\$1,039	\$1,120		
Recreation, Trails Mtc. And Wilderness	\$1,542	\$1,554	\$1,630	\$1,641	\$1,659 \$1,005	\$1,721 \$1,075		
Wildlife and Fish	\$ 949	\$ 961	\$ 969	\$ 984	\$1,005	\$1,075		
Range - Range - Noxious Weeds	\$ 320 124	\$ 358 104 \$ 307	\$ 359 56 \$ 320	\$ 240 209 \$ 393	\$ 387 105 \$ 285	\$ 221 267 \$ 323		
Soil, Air and Water	\$ 314	\$ 366	\$ 334	\$ 354	\$ 296	\$ 331		
Minerals	\$ 367	9 200	9 334	Q 304	, <u>2</u> 00			
Timber - Timber Management - Vegetative Imp - KV Reforest/TSI/ Other - CWFS Other-Trust Fund	\$1,220 770 2,062 52 2,062	\$1,152 763 1,294 49 1,908	\$ 954 862 1,395 451 2,435	\$1,011 788 1,099 534 \$1,973	\$ 882 228 1,706 175 2,100	\$ 922 453 1,001 126 1,743		
- Timber Salv. Sales	2,062	1,300	2,100	Ç.1,070				
Protection - Fire Protection & Fuels - Law Enforcement - Brush Disposal	\$2,942 117 412	\$2,931 107 283	\$3,840 130 406	\$3,866 128 192	\$3,565 110 220	\$1,044 79 146		
Lands - Special Uses/Land	\$ 110	\$ 153	\$ 152	\$ 217	\$ 161	\$ 597		
Exchanges - Landline Location	106	92	107	111	85	87		
Facilities - Facility Mtc Road Mtc Facility Const-Forest	\$ 173 667 18	\$ 178 655 28	\$ 167 675 13	\$ 173 666 21	\$ 180 661 70	\$ 185 868 177		
Adm - Pre Const-Capital Inv.	320	356	256	357	232	455		
Roads - Trail Const/Reconst	33	371	345	340	50	343		
Ecosystem Management	\$ 550	\$ 627	\$ 565	\$ 529	\$ 647	\$ 626		
Totals	\$16,603	\$16,114	\$17,695	\$17,260	\$15,848	\$16,820		

TABLE 3
FOREST FUNDING LEVEL FOR FY 2000 AND TENTATIVE FY 2001

Funding Description	FY 2000	FY 2001		
General Administration	\$ 710	\$		
Recreation, Trails Mtc.		0 0 1		
And Wilderness	\$1,543	\$ \$		
Wildlife and Flsh	\$1,123	\$		
Range	1115			
- Range	\$ 203	\$		
- Noxious Weeds	162	\$		
Soil, Air and Water	\$ 235	\$ \$		
Minerals	\$ 261	\$		
Timber				
- Timber Management	\$ 578	\$		
- Vegetative Imp	712	\$		
- KV Reforest/TSI/ Other	1,305	\$		
- CWFS Other-Trust Fund	100	****		
- Timber Salv. Sales	2,100	\$		
Protection				
- Fire Protection & Fuels	\$3,621	\$ \$		
- Law Enforcement	86	\$		
- Brush Disposal	220	\$		
Lands				
- Special Uses/Land	\$ 119	\$		
Exchanges				
- Landline Location	79	. \$		
Facilities		1000		
- Facility Mtc.	\$ 218	\$		
- Road Mtc.	779	\$		
- Facility Const-Forest Adm	60	\$ \$ \$		
- Pre Const-Capital Inv.	184	\$		
Roads				
- Trail Const/Reconst	362	\$		
Ecosystem Management	\$ 528	\$		
Totals	\$15,288	\$		

C. FOREST PLAN MONITORING REQUIREMENTS

Monitoring and evaluation results are summarized and discussed on the following pages. Each monitoring item lists:

- What is being measured;
- ☐ Frequency of measurement:
- $\hfill\Box$ Reporting period:
- ☐ The monitoring results; and
- \Box The evaluation of the monitoring results.

The items are arranged by resource and follow the requirements in the Nez Perce Forest Plan (Table V-1).

WILDLIFE

ITEM 1c: BIG-GAME HABITAT CARRYING CAPACITY

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: Significant trend deviations (evaluated at 5-year intervals) from planned or expected forage-generating activities or events (timber harvest, prescribed fire, and wildfire).

Forage Production

Monitoring Results:

Timber harvest (i.e., clear-cut, seed tree, and shelter wood), prescribed fire, and wildfire acreages are used as forage production indices. Forage production for elk and deer in the coniferous forests of north central Idaho is related primarily to shrub, grass, and form stages of forest plant succession. Creating openings in forest stands by timber harvest and fire typically increases elk and deer forage. The Forest Plan projected an annual average of 4,585 acres of regeneration timber harvest and 5,000 acres of prescribed fire for elk and deer winter range. The Forest Plan also estimated wildfire acreage (based on a running 10-year average) to be approximately 4,700 acres per year.

Projected acreages for each variable identified in the Forest Plan, and their FY 99 target and accomplishments, are depicted on the following tables.

Big Game Forage Produced by Timber Harvest

Fiscal Year	Forest Plan Projection	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Thousands of Acres	4,585	2,911	2,544	2,521	2,931	2.616	2,304	2,554	1,454	2,419	489	721	495

Big Game Winter Range Enhanced by Resource Benefit Fires (in thousands of acres)

Fiscal Year	Forest Plan Projection	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Annual Target	5000	3,800	2,000	3,500	3,000	2,375	1,150	1,500	550	1,500	980	400	4,850
Accomplished		1,000	2,000	6,898	2,600	2,325	690	620	550	1,500	2,530	400	4,850

Evaluation of Monitoring Results:

Since Forest Plan implementation, timber harvest that increased big game forage has averaged about 2,133 acres per year (46 percent of the Forest Plan projection). Prescribed fire projects for big game winter range have averaged about 1,919 acres per year (38 percent of projection). Though timber harvest and big game winter range prescribed fires have fallen short of planned acreages, wildfires have helped to compensate for these shortfalls.

Big Game Forage Produced by Wildfire & Wildland Fire Used for Benefits

Fiscal Year	Forest Plan Projection	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Acres Burned	4,683	105,943	8,888	643	2,207	44,966	4,700	9,118	26	40,132	29	233	1,278

Summer Elk Habitat

The Forest Plan identified approximately 1.887,000 acres of elk summer range on the Nez Perce Forest. Of this amount, approximately 866,000 acres (46 percent) of elk summer range are within the Forest's three designated wildernesses. The Forest Plan designated elk summer range effectiveness objectives at 25 percent on approximately 2.07,132 acres; 50 percent on approximately 463,372 acres; 75 percent on approximately 274,033 acres; and 100 percent on approximately 942,258 acres. The "Guidelines for Evaluating and Managing Elk Habitat in Northern Idaho" are used to determine if land management activities meet the elk summer habitat effectiveness objectives depicted in the Forest Plan.

Monitoring Results:

Compliance with summer objectives for projects implemented in FY 99 has been excellent.

Evaluation of Monitoring Results:

Current compliance with Forest Plan elk objectives is excellent, however a few areas remain below objective for a variety of reasons. Assessment of forest-wide elk summer range conditions continues to indicate:

- 1. Elk habitat effectiveness objectives are not being met or exceeded on about 78 percent of the Forest's elk summer range; and
- 2. Needed adjustments to meet Forest Plan elk objectives may conflict with motorized vehicle access more than originally anticipated.

The Forest completed a Forest Plan minor amendment (Forest Plan Amendment #23) process to correct original Forest Plan analysis unit errors and resolve many incompatibilities created by original objective assignments.

Moose Winter Range (MA 21)

Grand fir and pacific yew canopy cover and yew browse are important components of moose winter habitat. Timber harvest on moose winter range is limited to 5 percent of MA 21, per decade. No acres of MA 21 were harvested in FY 99. The acreage harvested was well below the 5 percent limit.

Monitoring Results:

No site-specific or MA 21 specific monitoring was done on the Forest in FY 99. The acres harvested in FY 99 are well below the 5 percent per decade limit and within Forest Plan standards. The reduction in clear-cut/burn prescriptions used in recent years in timber management have virtually eliminated risks to moose habitats.

Evaluation of Monitoring Results:

Forest Plan direction to limit timber harvest to 5 percent per decade has been followed for projects initiated under the Forest Plan. Lack of funding has precluded gathering management data or conducting research to better describe preferred moose winter range characteristics. Reasons related for limiting the clear cut/burn harvest acres deal with yew's susceptibility to fire. Other vegetation treatments are not considered as harmful to winter moose habitat.

ITEM 1d: NON-GAME HABITAT

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999 Reporting Period: 5 years (FY 1992)

Variability Which Would Initiate Further Evaluation: Significant deviation from Forest standards on a project-by-project basis triggers further evaluation.

Old Growth (MA 20)

The Forest Plan states that no timber harvest will be considered in designated old growth forest until decade 10 and/or in replacements stands until decade 16. Recognition of risks from stand replacing fires in ponderosa pine habitat types have led to proposals to partially harvest some ponderosa pine old growth. No harvest occurred in MA 20 sites in FY 99, but site-specific Forest Plan Amendments may allow selective harvest in low elevation, dry site forest types as needed to protect and help prevent losses due to high-intensity fires. See Forest Plan Amendment #25.

Monitoring Results:

No field reviews of compliance with Forest Plan old growth standards were done in FY 99. Database review of acres harvested in FY 99 found that no stands designated as old growth were harvested. Increased awareness of stand replacement fire risks in ponderosa pine and dry Douglas fir habitat types may stimulate future changes in how these dry conifer habitats are managed. The South Fork Clearwater River Landscape Assessment proposed interim recommendations (page 209) for better meeting old growth needs. Analysis would be required to see if these recommendations would be appropriate at a finer scale.

Evaluation of Monitoring Results:

Compliance with Forest Plan standards for retention and protection of old growth from harvest has been accomplished throughout Forest Plan implementation. Improved criteria for determining old-growth sites is being used. These new criteria have promoted field surveys and interpretation resulting in improved determinations of old growth forests.

The effects of overstocked stands and drought stress leading to stand replacing forest fires, especially where retention of old growth is desired, continues to be a concern in ponderosa pine and some Douglas fir cover types. The use of fire or some form of silvicultural treatment to thin under story trees which act as "ladder fuels" is needed to protect designated old growth forests from unnatural fuel buildups and stand replacing fires.

Snag Habitats

Monitoring Results:

Maintaining adequate numbers and size classes of snags on some sites throughout the managed landscape has been a challenge. Inventorying existing numbers of snags on a landscape scale is proving to be a similar challenge. Maintaining snags in some managed, particularly developed, areas is complicated by fuel wood gatherers, prescribed fire slash treatments, and wind throw, particularly in developed areas.

Threatened and Endangered Species Habitats

Monitoring Results:

Management and protection of threatened, endangered, and sensitive (TES) wildlife and habitats are routinely evaluated in biological assessments/evaluations. In FY 99, no instances of formal consultation were required for terrestrial species. Three hundred fifty (350) acres of terrestrial TES habitats were inventoried. One hundred fifty (150) acres of TES habitat were improved.

Gray Wolf: One report of a wolf-dog hybrid occurred on the Forest. Unverified reports of wolves just north of Grangeville and 12 miles from Keuterville were documented. Reintroduced wolves with radio collars occupied the Forest in 1999. and included wolves B5, B7, B10, B11, and B33. There is no evidence of livestock depredation reported on the Forest to date, as has occurred in Montana, central Idaho, or Yellowstone Park. The 4-23-99 FWS wolf report (Helena, MT) claimed that in Idaho at this time as many as 13 wolf groups could produce pups in the spring.

Grizzly Bear: No observations of grizzly bears were reported in FY 99. One video was reported taken, but could not be obtained for professional review and verification. To date no confirmation of permanent grizzly occupation exists on the Forest.

Peregrine Falcon: The peregrine falcon was delisted on August 25, 1999. Monitoring will continue for 5 years. The Shingle next exhibited one observed visitation by a peregrine falcon in June, but was declared inactive and unoccupied in June after direct investigation by biologists. The Sheep Gulch nest was apparently active in FY 99, but no chicks were fledged. Failure of this nest occurred for known reasons. No peregrines were observed in the Papoose or Slate Creek areas.

Bald Eagle: The bald eagle was down-listed to threatened status in August 1995. by the U.S. Fish and Wildlife Service. Bald eagles have been monitored through the Forest's participation in the annual bald eagle mid-winter census. Transects and counts are shown below.

Survey Route		River: White Inegar Creek	Farren	learwater: s Creek to sed River	M.F. Cl Clear Se	Grand Total	
Age	Adult	lininature	Adult	Immature	Adult	Immature	
1984	1	0	3	1	9	0	14
1986	2	0	0	0	6	2	10
1987	1	0	1	0	5	2	9
1988	2	1	2	0	10	2	17
1989	2	0	0	0	4	3	9
1990	5	0	0	0	1	1	7
1991	3	0	1	1	4	4	13
1992	2	0	3	0	12	4	21
1993	10	5	0	0	7	1	23
1994	2	1	3	1	9	3	19
1995	6	0	3	6	15	3	33
1996	4	0	2	0	3	1	10
1997	3	0	3	0	5	1	12
1998	11	1	2	1	No data	No data	. 15
1999	3	0	3	0	5	1	12

Evaluation of Monitoring Results:

The winter survey routes located on the Forest yielded 11 adult birds and 1 immature bird. This was similar to recent years, though not as high as 1995 (33 birds). Weather trends, including the recent El Nino event, may partially explain such variances. Bald eagles are considered stable or increasing in the U.S. in general.

Forest Service Sensitive Animal and Plant Species Program

Monitoring Results:

Inventories of Neotropical migratory bird habitats at previous sampling sites were done in FY 99. Funding constraints limited the Forest's potential to monitor other sensitive animal populations extensively.

In FY 98 the Canadian lynx was proposed for federal listing. Federal listing was deferred and is now anticipated for January 2000.

Conservation assessments and/or strategies have been developed on broad, landscape scales for the lynx, white-headed woodpecker, black-backed woodpecker, Coeur d'Alene salamander, pine martin, fisher, lynx, wolverine, mountain quail. Townsend's big-eared bat, flammulated owl, and boreal owl. These assessments are being used on the Forest to help assess project impacts and provide supplemental guidance in habitat planning for future years.

Review of biological evaluations and conservation assessments suggest that increased harvest removal of firs from overstocked ponderosa pine sites along lower elevation river corridors could improve habitats for white-headed woodpecker and flammulated owls. Increased application of prescribed fires in selected forest stands could help improve habitats for several species including black-backed woodpeckers, lynx. and possibly mountain quail. Continued reductions in open road densities may help improve habitat quality for lynx, fisher, and wolverine. Thinning and selective harvest of firs in dry forest types could help restore habitats for some sensitive wildlife species.

ITEM 1e: ACRES OF BIG-GAME HABITAT IMPROVEMENT

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: More than one year of variability from planned improvement acreages, excepting variances due to extreme fire conditions.

Wildlife Habitat Improvement

Monitoring Results:

In FY 99, the Forest accomplished a total WL/TE habitat target of 260 acres. Prescription burning accounted for the improvements. Some 335 acres were burned or treated for noxious weeds using partner funds and 20 acres were improved with KV funds.

Cumulative Acres of Big Game Habitat Improved (Prescribed Fire, Timber Harvest, Wildfire, and Wildland Fire Used for Benefits)

Fiscal Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Acres	109.854	13.432	10.062	7,738	49,907	7,284	12,847	2,030	44,351	3,048	3,055	6,623

Evaluation of Monitoring Results:

Approximately 20,713 acres of elk and deer winter range have been improved: using only prescribed fire, since implementation of the Forest Plan. The average annual accomplishment is 2.071 acres per year. This falls short of the annual target of 5.000 acres by 41 percent. The cumulative shortfall over 10 years is approximately 29.287 acres below Forest Plan projections.

ITEM 10: POPULATION TRENDS OF INDICATOR SPECIES - WILDLIFE

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999 Reporting Period: FY 99

Variability Which Would Initiate Further Evaluation:

Variability thresholds which will trigger further evaluation for each species must be tailored to each species based on the amount of existing data on a given species, natural population fluctuations; and for game species, impacts of harvesting on populations. Evaluation for big-game species will be done cooperatively with Idaho Department of Fish and Game.

Variability thresholds for non-game and Threatened and Endangered species for which data is currently limited, can only be determined after sufficient baseline population data is collected. Several years of population data must be collected and sample sizes must be adequate before variability thresholds can realistically be estimated.

Discussion: This section covers those Management Indicators Species that were not previously discussed in this report in the Threatened. Endangered, or Sensitive wildlife species categories.

Elk

Elk herds are the product of habitat quality, influenced by the effects of weather, hunting, and predation. Forest management practices directly affect habitat quality and hunter access. To determine trends in elk herds within a managed forest environment, the Idaho Department of Fish and Game routinely conducts elk winter census surveys.

To address weaknesses in elk herd productivity, the Nez Perce and Clearwater national Forests have partnered with Idaho Department of Fish and Game and other interested parties to help improve conditions through the Clearwater Elk Initiative.

Monitoring Results:

Elk surveys were not completed on any Nez Perce National Forest hunt units (except units 16A and 17) in FY 99. Winter census surveys since 1988 have yielded the following results:

Elk Population¹

Unit ²	15	16	16A	17	19	20
1988			1028 +/- 261	4506 +- 535		(1/1)
1989				A	1467 +/- 37	1044 +/- 48
1990	856 +/- 81	818 4/- 122				
1991		+-4	961 +/- 201	3783 +/- 279		
1992					1497	1237 +/61
1993	1236 +/-310	1432+/- 156	HAY.		***	MAN
1994						1115
1995	71.70.70		475 +/- 114	4995 +/- 555		111
1996	1544	1148			1566	1277
1997	No data	No data	No data	No data	No data	No data
1998	17.5 +/- 7.5	No data	No data	No data	No data	No data
1999	No data	No data	539	3188	No data	No data

Bull:Cow Ratios

Unit	15	16	16A	17	19	20
Objective ³	>20	>20	>25	>25	>25	>25
1988			35 +/- 14	26 +/- 5		***
1989			Y		21 +/- 2	26 +/-4
1990	20 +/- 5	10 +/- 5	/			
1991	***	/	23 +/- 8	22 +/- 3	221	
1992					17 +/- 2	31 +/- 5
1993	11 +/05	22 +/- 4		1222	***	
1994						19
1995		224	19.6 +/- 20.6	20.9 +/- 3.7	***	
1996	9.6	11.9	11		15.0	21.4
1997	No data	No data	No data	No data	No data	No data
1998	17.5 +/- 7.5	No data	No data	No data	No data	No data
1999	No data	No data	12.7	16	No data	No data

 $^{^{1}}$ Represents total population estimate of animals on the winter range of each unit.

² Idaho Department of Fish and Game, Big Game Management Unit

Idaho Department of Fish and Game, 5-year Elk Management Plan Objective (1991 to 1995); expressed as number of bulls per 100 cows. Note: Hunting regulations and season structure changes implemented beginning in 1998 by IDFG were designed to help address bull:cow ratios.

Calf: Cow Ratios (Calves per 100 Cows)

Unit	15	16	16A	17	19	20
1988			32	27	\	
1989					24	22
1990	39	16				***
1991			30	24		
1992		177.00			32	34
1993	43 +/- 17	21 +/- 4				
1994					11.1.	24
1995			14.7 +/- 5.1	22.2 +/- 3.2	A 122	
1996	32.4	17.9			20.1	15.2
1997	No data	No data	No data	No data	No data	No data
1998	32.8 +/- 10	No data	No data	No data	No data	No data
1999	No data	No data	21.5	11.9	No data	No data

Evaluation of Monitoring Results:

Reduced budget levels allowed for Idaho Department of Fish and Game to winter count unit 16A and 17 in FY 99. The Idaho Department of Fish and Game is very concerned.

Mild winters, varying degrees of hunter success (influenced largely by hunting season weather conditions) can significantly affect population data within any given hunting unit.

Moose

Monitoring Results:

Moose populations are not surveyed on the Nez Perce Forest by the Department of Fish and Game with any techniques capable of making accurate population estimates.

Evaluation of Monitoring Results:

Moose populations appear to be relatively stable based on incidental information and sightings. Hunter permit numbers have increased substantially in recent years.

Bighorn Sheep

Monitoring Results:

Bighorn Sheep Total Counts

Unit 17		19	20		
1991	52	000	000		
1992		52	106		
1993		60	66*		
1994	28	rs one Who	87		
1995	43				
1996	No data	56	78		
1997	No data	No data	No data		
1998	No data	No data	No data		
1999 No data		No data	No data		

Evaluation of Monitoring Results:

No data was collected by the Idaho Department of Fish and Game in FY 99, thus evaluation is not possible at this time.

Pileated Woodpecker

Monitoring Results:

Due to inadequate funding and other priorities, including Neotropical bird habitat sampling, no permanent transects were sampled in FY 99. A summary of six years of data is displayed below for pileated woodpecker from the Green Creek Point transect.

Pileated Woodpecker Relative Abundance Index (Green Creek Point Transect Only)

Unit	Total		
1988	9		
1989	9		
1990	6		
1991	13		
1992	6		
1993	No survey		
1994	No survey No survey 5		
1995			
1996			
1997	No survey		
1998	No survey		
1999	No survey		

Evaluation of Monitoring Results:

Available data from previous year counts suggest that pileated woodpecker numbers are relatively stable, especially in the Green Creek Point area. Routine observations of pileated woodpeckers in many habitats across the Forest suggest populations remain stable. Dramatic declines in clear-cutting of late seral and over mature grand fir stands since 1990 on the Forest have helped reduce pressure on this bird's preferred habitats substantially.

Pine Marten/Fisher/Lynx

Monitoring Results:

A marten/fisher monitoring survey was conducted on the 18-mile loop beginning at Erickson Ridge Road (283) to O'Hara Saddle thence to Roads 464-472 and 1199. This is the original survey loop. Fresh tracks of marten (4 sets) were observed. No fisher tracks were observed. Other animal tracks observed included: bobcat, weasel, mice, moose, snowshoe hares, and red squirrel.

In addition, tracks were examined to detect if lynx were present along the Erickson Ridge transect. None were found.

Lynx denning habitat was evaluated in the Upper Swiftwater Timber Sale. It did not exhibit significant dead and down to afford adequate cover. Lynx/snowshoe hare track surveys were done along two routes: 1) Roads 492 and 478 to Golden Eagle mine, 2) Road 9804 to gravel pit then 9805 and 9805A (4 miles). No lynx tracks were observed, but nearly 300 sets of hare tracks were observed during three separate survey dates.

Goshawk

Monitoring Results:

No new nests were reported in FY 99. Only two sightings of goshawks were reported in FY 99. One flew from a tree in a partial cut unit near road 1103 on the Clearwater Ranger District. Dramatic overall declines in regeneration timber harvest, but particularly in late seral and over mature stands since the mid-1990's has substantially reduced pressure on this bird's nesting habitats. Goshawks remain relatively common on the Forest. Monitoring of the Upper Swiftwater and Tahoe Cabin nests found the nests inactive for the second year. Goshawks use from two to nine alternate nests for predator protection.

Numerous other goshawk call-playback tape surveys for goshawks and nests were done in the Jack Timber Sale, proposed Starbuck Sale area, Newsome Creek drainages, and 806 timber sale areas from June 15-September 1, 1999. One

goshawk was observed in the Starbuck area and responded east of Buckhorn Creek about one mile east of Ten-Mile Creek near the old Golden site. Follow-up surveys did not detect nest activity there. Approximately 180 call stations and nearly 2000 acres were surveyed.

ITEM 11: VALIDATION OF RESOURCE PREDICTION MODELS: WILDLIFE

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999 Reporting Period: 2 to 6 years (FY 1998 to 1999)

Variability Which Would Initiate Further Evaluation: Major or significant refinements to wildlife models will be determined through coordination with other agencies including the Nez Perce Tribe and should be supported by research findings and will require Forest Plan amendment. Local biologist judgment and experience is currently being used to supplement and temper the elk guidelines model in specific management situations as recommended in the current guidelines.

Discussion:

Evolving elk management issues and the influences of popular new off-road access vehicles are not addressed by the current summer elk habitat effectiveness guidelines.

The Forest has completed a cooperative effort to evaluate and offer recommendations to update the elk summer habitat guidelines. Wildlife biologists and agency managers from the Idaho Department of Fish and Game, Nez Perce Tribe, Clearwater national Forest, and Nez Perce National Forest completed the tasks explored by the Venture 20 effort. Biologists reviewed the elk model methodology for applicability and consistency.

Λ Forest Plan amendment or revision process with public input must be used if considered elk modeling modifications resulting from the Venture 20 exercise or similar coordination are formally proposed to update the Forest Plan.

FISH

ITEM 1f: FISH HABITAT IMPROVEMENTS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: +/- 10 percent of Plan

targets within a decade.

This section reports the annual accomplishments in fish habitat improvement on the Forest. These accomplishments are measured as miles of stream improved. This accounts for both the direct instream improvements and improvement activities upstream or upslope of the fish habitat that result in the improvement of fish habitat condition.

The projects that contribute to fish habitat improvement include a wide variety of activities, from direct instream work to projects that address ecosystem conditions or processes that result in the deterioration of fish habitat, such as sediment contributions. The projects that contribute to fish habitat improvement often contribute to other management accomplishments. These projects are often cofunded and reported based on the funding proportions. Fish habitat improvement is reported as those that contribute to anadromous fish (species that migrate to the ocean such as Chinook and steelhead), and inland fish (resident fish species that remain in inland waters such as west slope cutthroat trout and bull trout). Project accomplishments are reported based on their contribution to these groups and the relative funding proportions.

In FY 99 the Forest accomplished 20 miles of anadromous fish habitat improvement and 14 miles of inland fish habitat improvement. Examples of projects that contributed to this accomplishment include: the Deadhorse obliteration, road decommissioning in O'Hara Creek, and restoration projects in the Mill Creek and Johns Creek watersheds.

ITEM 2e: FISH HABITAT TRENDS BY DRAINAGE

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)
Reporting Period: 1 to 5 years (FY 1988 to 1992)
Variability Which Would Initiate Further Evaluation: A measured decrease

of 10 percent or more below established objectives.

This monitoring item reports the trend in fish habitat condition based on evaluation of 24 permanent monitoring stations across the Forest. These stations are measured 3 years out of 5 in order to evaluate the habitat trend over long periods. Assessment of the data collected at these monitoring stations is ongoing. At this point, results of this monitoring are not available.

ITEM 2p: IMPLEMENTATION OF PACFISH AND EFFECTS OF MANAGEMENT ACTIVITIES ON ANADROMOUS FISH

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: Annually

The Nez Perce Forest Plan was amended by PACFISH (Amendment 20) in response to the need for increased focus on at-risk fish species. Additionally, because some of these species are listed under the Endangered Species Act (ESA), ongoing and proposed management activities are evaluated in Biological Assessments (BA) to determine the effect of these management activities on these listed species. In FY 99, the Forest completed a set of sub-basin BA's that evaluated all of the ongoing and proposed activities within a 4th code hydrologic unit. Biological Assessments were completed on the South Fork Clearwater, Lower Salmon (White Bird to Riggins), Main Salmon (Riggins to Sabe Creek), Lower Selway, and the Middle Fork Clearwater. By completing these BA's on these larger areas, a broader perspective of cumulative effects to these species can be considered, along with an increase in the efficiency of analysis.

TIMBER

ITEM 1h-1: ALLOWABLE SALE QUANTITY (ASQ) SOLD BY COMPONENTS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: Any change in ASQ achievement altering the implementation of the long-term goals and objectives displayed in Forest Plan Chapter 2 (Forest-wide Management Direction) and Chapter 3 (Management Area Direction) may necessitate a Forest Plan Amendment.

Discussion:

The allowable sale quantity (ASQ) is defined as the maximum timber value that may be sold during the planning period from the suitable land base. The ASQ is a sold-volume ceiling, and is monitored yearly against the average annual ceiling of chargeable volume for the decade. We are not in the second decade since the Forest Plan Record of Decision (ROD) was signed.

The ASQ increases from 1,080 MMBF in the first decade to 1,380 MMBF in the second decade (see page 6 of the ROD). In the past, the chargeable volume was divided into two components: regular (green live and recently dead resulting from insect/disease or fire) and non-interchangeable (pulp/cedar products and endemic mortality). Non-chargeable volume is not considered as part of the ASQ when it is sold, since this component was not used in calculating the ASQ, but is used to calculate accomplishments for Management Attainment Report (MAR) targets. Products that are included in the non-chargeable component include: firewood volume removed from unsuitable lands and volume too small or defective to meet regional utilization standards such as post and poles.

The Forest Plan does not identify how the additional 30 MMBF second decade volumes would be distributed to the regular and non-interchangeable components of the ASQ. For reporting purposes, we are assuming that the entire amount will be added to the regular portion; giving the Forest a 1,330 MMBF regular components and 50 MMBF of non-interchangeable ASQ. In addition, the Forest Plan does not identify which management areas will provide the extra volume.

Although this item is monitored on an annual basis, actual ASQ achievements will be based on the decade total. Yearly figures may be above or below the Forest Plan average annual ASQ figure of 138 MMBF per year (133 MMBF regular and 5 MMBF non-interchangeable).

The Forest Service reports accomplishments in hundreds of cubic feet (ccf). To maintain consistency and assure past figures are comparable, this report will continue to display volume in terms of MMBF. To convert MMBF to ccf, simply divide the MMBF values by .562, which is the Forest's average conversion factor. This cubic foot to board foot conversion factor is dependent on the height and diameter of the trees that are sold. On a yearly basis, some slight variability can be expected from the average Forest conversion of .562 which is used to convert the ASQ MMBF to ccf as indicated on the following table:

138 MMBF = 245,640 ccf
133 MMBF = 236,740 ccf
5 MMBF = 8,900 ccf

Monitoring Results:

CHARGEABLE VOLUME SOLD IN FY 1988-1999*

(Volume Credited Toward ASQ on an Annual Basis)

Components		Volume (MMBF)										
	FY88	FY89	FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Regular	104.8	68.9	70.2	94.3	1.3	32.1	6.6	7.5	25.6	21.1	24.5	12.9
Non-Interchangeable (NIC) - Pulp - Cedar Products	1.3 2.4	7.6 1.1	10.3 2.7	4.8 3.5	14.2 0.1	10.2 0.1	6.4	6.4	2.5	0.3 0.2	0.2 0.2	0.9
Total	108.5	77.6	83.2	102.6	15.6	42.4	13.0	13.9	28.1	21.6	24.9	13.8

^{*}The ASQ accomplishment breakdown was based on the Nez Perce Periodic Timber Sale Accomplishment Report accumulated as of September 30, 1998 (fiscal year summary).

The Forest continues to sell well below the Forest's ASQ, with this year's accomplishment being 10 percent of the regular component and 18 percent of the non-interchangeable component. In FY 99, the Forest sold 2.2 MMBF of the non-chargeable component (not counted as part of the ASQ). This was preliminary firewood (both commercial and personal use) and post/pole material.

ASQ VOLUME SOLD TO DATE

Average Annual ASQ (2 nd Decade)	1999 Chargeable Volume Sold	Total Chargeable Volume Sold to Date	% of Average Annual ASQ Sold for First 2 Years	
133.0/year (saw logs)	12.9 MMBF	37.4 MMBF	14	
5.0 MMBF/year (pulp/cedar products)	0.9 MMBF	1.3 MMBF	13	
Total 138.0 MMBF	13.8 MMBF	38.7 MMBF	14	

^{% =} Percent of average annual ASQ Sold for first 2 years of second decade.

ITEM 1h-2: FINANCED VOLUME OFFERED ATTAINMENT BY COMPONENTS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: Annually

Discussion:

Each year congress appropriates funding to accomplish annual timber targets. Given the fluctuation in funding from year to year, these annual "timber targets" are not necessarily the same as the Forest's average annual ASQ. The achievement of financed "timber targets" differs from ASQ achievement in the following ways:

- 1. Accomplishment of "timber targets" takes place when a sale is <u>offered</u>, as opposed to ASQ accomplishment credited when a sale is <u>sold</u>. Normally, 45-60 days elapse between sale <u>offering</u> (advertisement in the local paper) and sale <u>selling</u> (signing contract). Sales offered near the end of the fiscal year may be credited toward the "timber target" in one fiscal year and credited toward ASQ in the next fiscal year.
- 2. Non-chargeable offered volume (firewood and posts/poles) may be included in "timber target" achievement. The ASQ volume does not include non-chargeable volume.

Monitoring Results: All volume offered in FY99 was sold in FY99.

CHARGEABLE AND NON-CHARGEABLE VOLUME OFFERED IN FY99*

	Volume (MMBF) – FY 99
Assigned Target	27.8
Accomplishment (Volume Offered)	12.9
% of Target	46%

^{*}Target accomplishment based on year-end Periodic Timber sale Accomplishment Report (PTSAR) taken from the stars database year-end summary.

Evaluation of Monitoring Results:

In FY 99 the Forest failed to meet its financed timber target by 14.9 MMBF. Due to reductions in timber funding in FY 99, the financed timber target on the Nez Perce National Forest is 22.2 MMBF.

ITEM 1i: ACRES TIMBER HARVESTED BY METHOD (INCLUDES PRECOMMERCIAL THINNING)

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: Unacceptable results of

an interdisciplinary review.

Monitoring Results:

Harvest took place on just over 2,000 acres in FY 99. This was an increase from FY 98 of approximately 650 acres. By far the majority was uneven-aged management (almost 55 percent). Even-aged management was implemented on 526 acres, or 26 percent of the harvest acres. The remainder, 19 percent of harvest acres, was various kinds of cuts that removed only portions of the stands, leaving fully stocked stands in place.

Harvest Type	vest Type Acres			
Precommercial Thinning	48	2.4%		
Clear-cut	52	2.6%		
Seed Tree Cut	474	23.5%		
Final Removal	56	2.8%		
Selection	1,099	54.6%		
Salvage	254	12.6%		
Intermediate	31	1.5%		
Total	2,014	100.0%		

w .	Even-Aged Harvest	Uneven-Aged Harvest	Ratio	
Planned Annual Harvest	4,815	125	38.52	
FY99 Actual Harvest	526	1,099	0.48	

Evaluation of Monitoring Results:

The Forest Plan envisioned the mix of harvest types to be weighted toward even-aged management. The current **mix** is a deviation from that planned mix. Because the "total acres harvested" is below the maximum shown in the plan, the **actual acres** of uneven-aged harvest are within the planned acres for the decade. This deviation from the planned mix of harvest will not result in serious consequences.

ITEM 2f: VEGETATIVE RESPONSE TO TREATMENTS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: 5 years (FY 1998)

Variability Which Would Initiate Further Evaluation: Data and analysis which would indicate that projected yields from regenerated stands are in error.

Monitoring Results:

Permanent Growth Plots provide a means to assess and predict the forest growth response to silvicultural treatments. They specifically are used to assess the accuracy of managed stand yield tables used in the forest planning models. The Forest has a number of permanent growth plots, installed over the years. Generally a few are remeasured each year, but in FY 99 none were on the schedule.

Evaluation of Monitoring Results:

No permanent growth plots were re-measured during FY 99. For sampling accuracy, the plots from several years need to be combined and then compared to the managed stand yield tables. That comparison will be made when there are sufficient numbers of re-measured plots by forest type and productivity class to make statistically valid samples. At this point, for individual stands, growth seems to be near the projected rates.

ITEM 4: ACRES OF HARVESTED LAND RESTOCKED WITHIN 5 YEARS

Frequency of Measurement: Annual for 1-, 3-, and 5-year old regenerated stands (October 1, 1998 – September 30, 1999)

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: Significant deviation from 5-year regeneration period after data is reviewed by an interdisciplinary team.

Monitoring Results:

This item is monitored using the Regional Reforestation Indices. Data is stored in the Timber Stand Management Record System. For FY 99, 89 percent of stands planted in the past five years are successfully reforesting. Eighty-one percent of stands

planned for natural regeneration are successfully reforesting. First year plantation success for FY 99 is at 93 percent. Those not progression satisfactorily are scheduled for additional treatment to increase stocking to acceptable levels.

Evaluation of Monitoring Results:

With first year success rates at 93 percent, the lower 5-year average reflects the hot, dry summers with dry conditions extending into fall that occurred recently. Animal damage, primarily pocket gopher damage, also contributes to reduced plantation success.

ITEM 5: SITE-SPECIFIC EXAMINATION TO DETERMINE SUITABILITY OF LAND FOR TIMBER MANAGEMENT

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)
Reporting Period: 10 years (FY 1998)

Variability Which Would Initiate Further Evaluation: Significant changes in suitable acres.

Monitoring Results:

The Forest Plan identified suitable lands when it was approved in 1987. As stands are examined, suitability is evaluated and recorded in the timber stand database. No unsuitable lands have become suitable.

Evaluation of Monitoring Results:

Since the Plan was approved, there have been individual stands that did not meet the suitability requirements set in NFMA. These minor changes in suitability do not warrant a wider review until the Plan is revised.

ITEM 6: MAXIMUM SIZE OPENING FOR HARVEST UNITS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)
Reporting Period: Annual

Variability Which Would Initiate Further Evaluation: Unacceptable results of an interdisciplinary team review.

Discussion:

Openings, as addressed in the Northern Region Guide, apply to all even-aged silvicultural systems, which include clear-cut, shelterwood seed cuts, and seed tree

seed cuts. For timber management purposes, these are openings until they have adequate stocking that averages 2-1/2 feet or more in height. For wildlife and watershed purposes, they are no longer openings when the total woody vegetation (including shrubs) is adequately stocked and at least 15 feet high.

Monitoring Results:

One unit was sold that was over 40 acres (90 acres, on Honker II Timber Sale). It will not, however, create an opening, as it will be the final removal cut for an older shelterwood unit that has a new stand already established.

ITEM 11: VALIDATION OF RESOURCE PREDICTION: TIMBER

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: If validation efforts

show a need for changes to existing resource predictions.

Validation Monitoring:

The Forest Plan contains estimates of the following four elements for the acres contained in timber sales scheduled to be sold during the first decade. These estimates were used to help derive the Forest's allowable sale quantity (ASQ) ceiling.

- $\hfill \square$ Net volume per acre by silvicultural system
- Total acres by silvicultural system
- □ Distribution of total acres (%) by Silviculture system
- □ Total acres by Management Area (MA)

The following four tables display the actual FY 98 data taken from sales sold during this period. Sales contained in the actual FY 98 sold data include all sales of chargeable (Λ SQ) volume having an appraisal (Forest Supervisor and District Ranger authority sales). Sales offered that did not sell are not included.

Table 11-a - Sold Net Volume/Acre by Silvicultural System

Silvicultural System	FY 99 Volume/Acre (MBF)	Weighted Average* FY 99 (MBF)
Clear-cut (Units)	15.3	15.3
SW Prep Cut ¹	12.0	12.0
SW/ST Seed Cut ²	15.3	15.3
SW/ST Final Cut ³	3.9	3.9
Sanitation/Salvage	1.2	1.2
Commercial Thin		
Selection Cut ⁴		
Totals	8.6	8.6

^{*}Weighted by acres sold.

Table 11-b - Distribution of Sold Acres by Silvicultural System

Silvicultural System	FY 99 Distribution %	Weighted Average FY 99 Distributed %		
Clear-cut (Units)	22	22		
SW Prep Cut	23	23		
SW/ST Seed Cut	10	10		
SW/ST Final Cut	19	19		
Sanitation/Salvage	26	26		
Commercial Thin				
Selection Cut				
Totals	100	100		

Table 11-c - Total Acres Sold by Silvicultural System

Silvicultural System	FY 99 Acres Sold	Average FY 99 Acres/Year
Clear-cut (Units)	102	102
SW Prep Cut	106	106
SW/ST Seed Cut	44	44
SW/ST Final Cut	90	90
Sanitation/Salvage	122	122
Commercial Thin		
Selection Cut		
Totals	464	464

¹ First entry in a 3 or 4 step shelter wood. The goal is to open up the canopy to improve seed production.

 $[\]frac{1}{2}$ Regeneration cut, where the trees left will provide the seed for the next stand of trees.

³ Final harvest of a SW/ST...commonly called an "overstory removal". Figures shown in the actual sold volume/acre include both final harvest of "managed stands" and liberation harvest (overstory removal in natural stands).

⁴ This refers to an uneven aged management...either group or individual tree selection.

Table 11-d - Distribution of Sold Acres by Silvicultural System

MA Code	le Management Emphasis FY 99 Acres Sold		Average Acres/Yea		
10	Riparian				
12	Timber	464	464		
16	Elk/Deer Winter Range				
17	Visual/Scenic	111224 - EDWS-17 - 2017			
20	Old Growth		The second second		
21	Moose Winter Range		T.		
	Totals	464	464		

The following acres and timber volume sold on the Nez Perce NF were within inventoried roadless areas in the second decade.

Roadless Volume and Acres Sold by Fiscal Year

Fiscal Year Roadless Volume Sold (MMBF)		Roadless Cutting Units & Road Right-of-Way Acres
1999	57	0 9010
Total	57	0

Roadless Acres Sold by Roadless Area

Number	Name	District	Sold Acres	Percent of Total Roadless Sold Acres
1-851	Beartoes	Salmon River RD	47	100%

SOIL AND WATER

ITEM 1j: SOIL AND WATER REHABILITATION AND IMPROVEMENTS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: If the Forest did not achieve its

assigned target for the fiscal year.

Implementation Monitoring:

The Forest was assigned, and funded for, a target of 80 acres of soil and water improvements using appropriated funds in FY 99. The Forest reported 81 acres of accomplishment using NFSI and NFES funds and additional 60 acres using road-related funds, for a total annual accomplishment of 141 acres. The Forest Plan goal is 200 acres per year.

Summary of Improvements Accomplished in Fiscal Years 1989-1999

-	Funding Source	Soil and Water (NFSI & NFES)	Knutsen- Vandenberg (KV)	Roads	Other Funding	Total
	1989	131	93	57	147	428
	1990	159	82	76	3	262
	1991	120	85	25	32	262
Acres	1992	214	79	82	12	387
Improved	1993	244	108	90	63	505
	1994	243	79	77	43	442
	1995	314	74	54	5	447
	1996	190	46	2	1	239
	1997	143	4	24	19	190
	1998	85	4	n de la composition (composition (compositio		89
	1999	81	0	60		141

The following is a brief summary of 1999 watershed improvement projects by ranger district.

Salmon River Ranger District: The District reported six acres of accomplishment using NFSI and NFES funds. This was follow-up planting on the East Fork John Day road obliteration project.

<u>Clearwater Ranger District</u>: The District reported 21 acres of accomplishment using NFSI funds. Projects included road obliteration in the Hungry Mill area, riparian fencing in the Silver Meadow area, revegetation of 7 sites in the Otter Wing area, and hydro-mulching along Highway 14.

Red River Ranger District: The District reported six acres of accomplishment using NFSI and NFES funds. Projects included stabilization of the Cedar Placer Mine, drainage improvement in the Elk Summit area, and road stabilization in the Prospector Bunny area.

Moose Creek Ranger District: The District reported 48 acres of accomplishment using NFSI and NFES funds. Projects included decommissioning and obliteration of roads in the O'Hara and Hamby Fork watersheds, stabilization of abandoned trails in the Copper butte, Fog Mountain, and Bear Creek areas, revegetation of a salt lick site in North Moose Creek, continued erosion control work at an old Forest Service remount station on Coolwater Ridge, and continued revegetation work on the Wart Creek rock pit.

Hells Canyon National Recreation Area: The Forest road crew completed 60 acres (15 miles) of road decommissioning on the Nez Perce National Forest in the Kirkwood Creek area of the Hells Canyon National Recreation Area. This area is administered by the Wallowa-Whitman National Forest.

Red River Wildlife Management Area: The Forest participated in this stream and riparian improvement project, located on land managed by the Idaho Department of Fish and Game in the Red River watershed. The project is a multi-agency partnership, with primary funding through the Bonneville Power Administration.

Effectiveness Monitoring:

The East Fork John Road Obliteration project was reviewed by an interdisciplinary team. The results of this review are summarized under item 2i.

Evaluation of Monitoring Results:

From 1988 through 1996, the Forest exceeded its Forest Plan watershed improvement goal of 200 acres per year. This goal has not been achieved for the past 3 years. An overall evaluation of the watershed improvement program has not been conducted. In recent years, the nature of improvement projects have changed, with larger projects being developed to decommission unneeded roads. This has resulted

in relatively high unit cost projects and lower total acres accomplished. However, per unit area treated, the on-the-ground effects of such projects are probably more significant and long lasting than many earlier approaches.

ITEM 2g: IMPACTS OF MANAGEMENT ACTIVITIES ON SOILS

Frequency of Measurement:

Reporting Period:

Variability Which Would Initiate Further Evaluation:

1999 Soil Monitoring:

Soil monitoring is conducted during project planning, implementation, and following completion of management activities to determine how closely Forest Plan management standards are being followed.

Implementation Monitoring determines if the potential for soil damage was evaluated during project development and if designated best management practices (BMPs) were applied.

Effectiveness Monitoring determines if the implemented practices were adequate to:

- 1) Maintain 80 percent of an activity area in a productive condition, without detrimental compaction, displacement of surface soil, or puddling (loss of soil structure), and
- 2) Minimize erosion and sloughing on road cuts and erosion on other activity areas.

This report documents results of a soil monitoring study implemented in 1987-88.

Validation Monitoring determines whether the data, assumptions, and coefficients used in soil and vegetation response models are correct.

Results:

Implementation Monitoring:

Most environmental analyses and watershed assessments completed in 1999 used soil information to describe soil limitations and opportunities within assessment area, evaluate impacts of past management, and develop recommendations for avoidance, restoration or mitigation.

Soil information was consistently used to predict sediment production. Predicted sediment was used to help select number, location, and scheduling of activity areas.

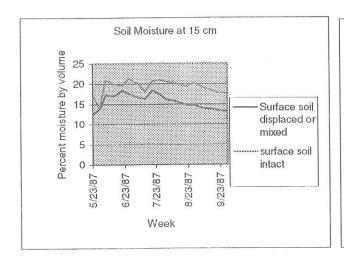
Landform, stream, slope, and soil information was used with watershed historic files and photos to delineate landslide prone terrain for watershed assessments and most timber sale analyses. Field reviews were used to refine those delineations, avoid areas of risk, or adjust project designs to minimize risk. Watershed staff, sale layout foresters, marking crews, and sale administrators have become increasingly skilled at hazard identification and marking or harvest unit adjustment to minimize tasks.

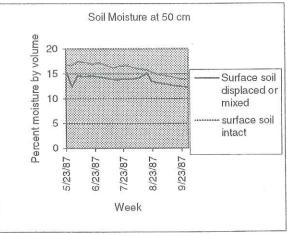
Effectiveness Monitoring:

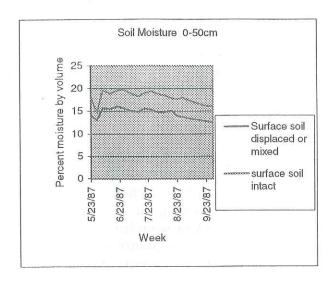
Effectiveness monitoring was documented for a study implemented in 1987-1988. This study measured soil moisture on a tractor logged and dozer piled harvest unit at 6 paired stations, 2 soil depths: 6 and 20 inches, and 2 soil conditions: mixed or displaced surface soil (from dozer piling or skidding), and intact surface soil. Obvious skid trails were not included in sampling. Sampling sites were located on the ridge to avoid effects from upslope. All plants were kept weeded out from around the sampling sites to minimize differential transpiration loss.

Where the volcanic ash cap had been displaced or mixed with underlying material, soil water retention was very significantly lower throughout the growing season at both depths for the period of study, and for the soil profile as a whole from 0-20 inches (p=0.000). Mean difference between impacted and unimpacted surface soils was 3.4 percent for surface soil. 1.5 percent for subsoil, and 2.9 percent for the weighted average. This probably translates into lower moisture availability during the growing season and poorer plant growth. Transects within the harvest unit indicated that an average of almost 80 percent of this unit had soils similarly mixed or displaced by skidding or dozer piling. Recovery of native forbs and shrubs may be more highly affected by such disturbance because of their reliance on vegetative propagation in the surface soil. This magnitude of soil disturbance has been frequently observed to result in vigorous colonization by non-native plant species adapted to soil disturbance, and prolonged early seral conditions favorable to gopher activity.

The following graphs show trends in soil moisture for the growing season of 1987 for the surface soil, subsoil, and weighted average for the rooting zone.







Effectiveness monitoring of a spring prescribed burn on the South Fork Clearwater indicated no areas of observable soil erosion. However, burning in annual grasslands may promote expansion of annuals or noxious weeds, with consequent losses of surface litter and below ground organic matter that contribute to soil aggregation and stability over the long term. To address this issue, monitoring plots were installed on the 1999 Pinchot fire in the Selway Bitterroot wilderness to evaluate expansion of knapweed after fire, and changes in ground cover and rill or gully erosion.

Ten monitoring plots were also established on the Blanco prescribed burn to evaluate watershed response. About 97 percent of the area burned at low intensity. Bar soil averaged less than 5 to 10 percent. No rill or gully development was observed. Draws did not show evidence of increased erosion.

Continued informal monitoring of road cut and fill revegetation has reaffirmed the need to develop sources of native, site-adapted seed or planting stock for this and other revegetation work.

Validation Monitoring:

Data from the 1997 landslide inventory has not been compiled and analyzed, because of other forest priorities. (It has since been compiled in FY 2000 with the help of a high school volunteer.)

Monitoring Evaluation:

Use of soil information in risk assessment, project analysis and design, and better understanding and mitigation of soil impacts associated with road construction, logging, and site preparation is improving.

Effectiveness monitoring has not been done at a level to validate compliance with Forest Plan soil standards, because of funding limitations and other priorities. The soil moisture study demonstrates the need to reduce impacts from machinery operation, including effects of mixing the volcanic ash cap with subsoil.

Completion of the landslide inventory project needs continued emphasis. A consistent protocol for delineation of landslide prone terrain, with use of site specific information and application of expertise proportional to risk has been developed and is being implemented to ensure that slope stability hazards are identified and addressed as part of project design.

The development of native, site-adapted seed supplies and planting stock is increasing in importance with the increased emphasis on restoration. Fire, weed and non-native annual plant invasions, and mechanical or natural storm or flood disturbance in grasslands, forested lands, non-forest riparian areas result in this need.

ITEM 2h: IMPACTS OF MANAGEMENT ACTIVITIES ON SOILS

Frequency of Measurement:

Reporting Period:

Variability Which Would Initiate Further Evaluation:

Effectiveness and Validation Monitoring:

As in previous years, the Forest collected stream flow and water quality data at eight gauging stations (Rapid River, Little Slate Creek, Johns Creek, Upper Red River, South Fork Red River, Trapper Creek, Main Horse Creek, and East fork Horse Creek). Variables sampled included stream discharge, suspended sediment, bedload sediment, water temperature, and conductivity.

Watershed personnel also maintained seven storage precipitation gauges, five recording precipitation gauges, five hydrothermographs, and two snow courses. Additional weather monitoring was conducted by fire personnel.

Water temperature data are collected at about 50 sites across the Forest, using electronic recording thermographs. Data collection under this program began about 1990 and has continued each year since then. The period of record varies by station.

Physical stream channel morphology measurements are taken at about 20 permanent stations across the Forest. Each of these was initially measured during the period of 1988-1990. About half of the stations have been remeasured, with the remainder planned for remeasurement within the next 2 years.

The Northern Region continued evaluation of high mountain lakes for sensitivity to long-term deposition of atmospheric sulfate, nitrate, and ammonium. On the Nez

Perce National Forest, Shasta Lake, located in the Selway Bitterroot Wilderness, was selected as a long-term study site. Field data were collected at Shasta Lake in 1996, 1998, and 1999.

Evaluation of Monitoring Results:

Analysis of stream flow and sediment yield data from the gauged water quality monitoring stations is ongoing. From 1995 through 1999, particular emphasis was given to data analysis pertaining to instream water rights claims filed under the Snake River Basin Adjudication.

In 1998, a computer database named Aquatemp was set up for storage and retrieval of the Forest's water temperature data. In 1999, analysis of water temperature data for the Selway River sub-basin and the Slate Creek watershed were initiated.

Until FY 91, the Forest issued an annual technical report entitled "Hydrologic Data Summary and Monitoring Analysis." This report summarized stream flow and climatic data collected on the Forest during the previous water year. It also provided more detailed analysis of water quality and related monitoring results than the annual Forest Plan monitoring report. There is no plan to resurrect the annual report format, but the data are available upon request, both in paper copy and electronic format.

ITEM 2i: WATER QUALITY - PROJECT LEVEL ADMINISTRATION REVIEWS AND FIELD STUDIES

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: If the reviews or studies discover violations of Forest Plan standards or Idaho Water Quality Standards.

Monitoring Results:

Implementation and effectiveness monitoring was accomplished on several types of activities in 1999. The monitoring was conducted primarily by interdisciplinary teams of Nez Perce National Forest personnel with assistance from the Clearwater National Forest, Payette National Forest, Bureau of Land Management, Idaho Department of Water Resources, and the public. The following activities were reviewed with respect to their effects on water quality:

- □ East Fork John Day Road Obliteration, on June 18, 1999;
- □ South Fork Clearwater Prescribed Fire, on September 21, 1999; and
- □ Prospector Bunny Timber Sale, on September 24, 1999.

In addition to monitoring Forest Plan implementation, these field reviews also meet the Forest's obligation under a Memorandum of Understanding with the State of Idaho to monitor a target of ten percent of activities which fall under the Idaho Forest Practices Act Rules.

East Fork John Day Road Obliteration

This project is located in the East Fork of John Day Creek on the Salmon River Ranger District. The project was initiated after storms in 1995 triggered about 13 road and slope failures, some of which combined to cause a debris torrent down the East Fork. Instream resources and downstream water quality were heavily impacted. Subsequent evaluations determined that high-risk failure sites remained on the road system after the failures and that a number of roads were not needed as a part of the long-term transportation system. A project was designed with the primary emphasis to provide long-term stabilization of the at-risk roads.

An environmental assessment and a biological assessment were completed in June 1996. Project implementation occurred in 1997 and 1998. A total of 4.8 miles of road were treated with a variety of techniques, including scarification, partial recontouring, and full recontouring. The field review was held on June 18, 1999, and included personnel from the Forest headquarters, Salmon River Ranger District, Clearwater National Forest, Payette National Forest, Bureau of Land Management, Idaho Department of Water Resources, and the project contractor.

Stream crossing removal sites were an area of emphasis in the contract and during the monitoring review. Seven crossings were reviewed, with four having experienced two spring runoff seasons and three having experienced one season. There were some minor amounts of adjustment and erosion noted, but all the crossings were deemed to meet the primary objective of reducing the risk of road failure while minimizing impacts of the removal. At one site, a stream channel was intentionally relocated. This work required an Idaho Stream Channel Alteration Permit, though none was obtained. The other crossings did not require a permit. The stream channels were restored as close to original channel elevation, stream gradient, and side slope gradient as possible. In one case, additional planting of shrubs and trees was recommended for long-term stabilization of the channel.

Road prism treatments ranged from scarification to full contouring. Specific applications were discussed and deemed to be appropriately designed for site conditions. In some cases, material was end=hauled to avoid placement on naturally unstable slopes. One unstable area was drained and buttressed with a boulder wall. It was recommended that a geotechnical engineer review this site to assess long-term stability. The merits of ripping the compacted road surface prior to replacement of fill were discussed. This was done on this project to improve hydraulic conductivity and infiltration, but the effectiveness of the treatment is unknown. This was identified as a research need.

Revegetation consisted of seeding, planting, and natural recovery. Since the project area is an open south exposure, considerable effort was expended to assist the natural

recovery. Revegetation was considered to be proceeding well. Some weeds were noted, but the revegetation consisted largely of desirable native plants. The contractor voluntarily transplanted some trees and shrubs and this was deemed to be a cost-effective and useful treatment for future projects. Photo points to monitor long-term recovery were established in August 1999.

The project was reviewed relative to current and proposed Idaho Forest Practices Act Rules pertaining to abandoned roads. It was found to meet all applicable rules. Some of the mitigation measures specified in the biological assessment were felt to be too prescriptive. It was recommended that future mitigation measures be worded to clearly state intent, but not necessarily specify methods. The operating season (July 1 – September 30) was also felt to be unduly restrictive, though mechanisms for operating outside the season are available.

Recreation and visual concerns were also reviewed. Although access to the area is somewhat more difficult due to the project, it was felt that this would contribute to a higher quality hunting experience. The affected roads did have seasonal closures to motorized vehicles in place. Visual resources were little affected by the project, but the recontoured roads are expected to better blend in with the natural landscape over time.

South Fork Clearwater River Prescribed Fire

Prescribed fire in the lower South Fork Clearwater River area was initiated in 1985. The initial objective was fuel reduction to reduce risk of wildfire, but wildlife habitat improvement has become a secondary objective. To date, about 18,000-20,000 acres have been burned with maintenance burns scheduled at 7 to 12 year intervals in any given area. On April 15-17, 1999, about 2,200 acres were burned in the Nelson and Sheep Creek areas. A field review of this burn was conducted on September 20, 1999, by an interdisciplinary team consisting of personnel from the Forest headquarters, Clearwater National Forest, Clearwater Ranger District, and Red River Ranger District.

The burn was low severity and moderate intensity throughout the area. Riparian areas were not ignited, but fire was allowed to move into these areas. Vegetative recovery was well underway at the time of the review. No mortality of over story trees and minimal impact to riparian vegetation was noted during the review. No evidence of soil erosion was noted during the field review, which occurred five months after the burn. During this period, rainfall at Grangeville (about 9 air miles northwest of the site) totaled 10.09 inches, or about 2.96 inches below normal. August was the only month with above-average rainfall.

The interdisciplinary team was satisfied that water quality impacts were negligible by the time of the review and that risks of future impacts from this burn were low. There was some discussion about the role that spring burning plays in weed invasion, which could affect long-term soil erosion rates. It was recommended that improved coordination occur between fire and weed management objectives, especially on low elevation, grass-dominated slopes. The relative effects of spring versus fall burning

were discussed, with a general recommendation that additional consideration be given to fall burning in similar situations. There was also a recommendation for a coordinated monitoring effort focused on prescribed fire.

The team reviewed the Idaho Forest Practices Act Rules pertaining to prescribed fire and found that all provisions were met on this project.

Prospector Bunny Timber Sale

The Prospector Bunny Timber Sale is located on the Red River Ranger District in the Santiam Creek watershed. It was awarded in late 1996, with road reconstruction taking place in 1997 and logging in 1998 and 1999. The sale consisted of about 0.9 miles of specified road reconstruction, 0.6 miles of temporary road reconstruction, and 1.03 million board feet of timber harvest. The field review was conducted on September 24, 1999, by an interdisciplinary team consisting of Forest headquarters and Red River Ranger District personnel.

Road #492 (Santiam-Sourdough) was used as a timber haul route. The team noted that though the road is in good, drivable condition, considerable need and opportunity exists to further reduce cutslope and ditch line erosion. Recommendations were made for additional seeding, fertilization, planting, ditch rock, ditch relief culverts, and surface rock replacement. It was recommended that this work be evaluated under the Starbucky Environmental Impact Statement, which is currently under development. It was also noted that an abandoned mine site was contributing sediment from above Road #492. It was recommended that this site be evaluated for stabilization needs.

Road #9823 was reconstructed and used as a haul route. It is also used to access a mining claim. The field review concentrated on the 0.6 miles of #9823 that was designated a temporary road in the timber sale contract. The work completed under the timber sale contract was done to specifications, but subsequent review by district personnel indicated the need for additional sediment mitigation measures. These were completed outside of the timber sale contract. The environmental assessment had stipulated that the reconstruction was expected to reduce ongoing sediment yield from the road. However, it was concluded during the field review that short term sediment yield would probably increase as a result of the reconstruction and timber haul. There may be long term sediment yield reductions from having better control of water drainage. The current condition of the road was deemed adequate for erosion control. Follow-up monitoring was recommended to occur in the spring of 2000. Improved documentation of road management objectives is also warranted.

The review team visited Unit 5 of the timber sale. There were some minor boundary adjustments to this unit made during the contract to reduce impacts to riparian areas. Erosion control work appeared to be adequate and successful. There were some sections of excavated skid trail that were not recontoured and covered with slash. It was recommended that this be done in future cases. The skid trails were seeded and fertilized, but the team felt this was not necessary except in critical

locations where no slash is available to cover the trails or soil erosion and/or noxious weed invasions could be expected.

The areas covered during the field review were deemed to meet all applicable provisions of the Idaho Forest Practices Act Rules.

ITEM 2j: IMPACTS OF MANAGEMENT ACTIVITIES ON RIPARIAN AREAS

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: If the reviews or studies discover violations of Forest Plan standards or Idaho Water Quality Standards.

1999 Riparian Monitoring Report:

Riparian area monitoring is conducted during project planning, implementation, and following completion of management activities to determine how closely Forest Plan management standards are being followed.

Implementation Monitoring determines

- 1. If riparian areas are delineated and evaluated during project design:
- 2. If preferential consideration is given to riparian-area-dependent resources in cases of irresolvable conflict;
- 3. If appropriate provisions of the Idaho Forest Practices Act (BMPs) are applied, or a variance sought; and
- 4. If effects on wetlands and floodplains are considered in project development.

In addition, monitoring determines if PACFISH standards that constitute Forest Plan amendments, or additional guidance from the regional aquatic conservation strategy are being followed.

National wetland inventory maps are consistently used for initial wetland delineation and riparian area, but site-specific projects usually result in identification of numerous additional wetlands and small streams. Preferential consideration of wetland resources now occurs very consistently, due to PACFISH standards, and consultation requirements under the Endangered Species Act.

Monitoring of road obliteration projects during contract inspection maintains quality of stream alignment and gradient, and soil stabilization at the crossing sites.

Effectiveness Monitoring determines

- 1. If management practices have caused detrimental changes in water temperature or chemical composition, blockages of water courses, or deposits of sediment that seriously and adversely affect water conditions and fish habitat; and
- 2. If cover and security for riparian-dependent species have been maintained.

Headwaters stream surveys were used above and below road crossings in O'Hara, Hamby, and Goddard Creeks to detect road effects on channels and riparian conditions.

Monitoring of the Selway River road construction has been done to evaluate potential effects of construction machinery in riparian areas.

Monitoring of one prescribed burn detected no detrimental fire effects in riparian areas. Fires were not ignited in the riparian zone, and little fire backed into the streamside areas.

Effectiveness monitoring for livestock grazing was initiated in 1997. The purpose of this type of monitoring is to determine if grazing strategies are providing for an upward trend in key riparian parameters or is maintaining the desired conditions. Six stream reaches were sampled in 1997, three reaches were sampled in 1998, and seventeen (17) reaches were sampled in 1999. The focus is unconfined low-gradient stream channels that are sensitive to livestock grazing. The parameters that were sampled included stream bank stability, stream bank angle, and stream bank plant community. These riparian attributes were selected because they appear to respond to changes in livestock grazing. Fifty-meter segments were randomly chosen along selected stream reaches. The segments were then sampled for the key riparian attributes. The results for the initial sampling are shown in the results section below.

River/Creek	Number of Reaches Sampled
Fish Creek	2
American River	2
American Creek	2
North Fork of Slate Creek	2
Corduroy Creek	1
South Fork Whitebird Cr.	1
Pinnacle Creek	1
Cold Spring Creek	1
Flint Creek	1
Baldy Creek	1
Haysfork Creek	1
West Fork American River	1
Newsome Creek	1

Validation Monitoring is used to describe riparian dependent resources, their values, and predict effects of management (Forest Plan II-12). No validation monitoring occurred.

Monitoring Results:

Implementation Monitoring:

Riparian areas are consistently delineated during integrated resource analysis using National Wetland Inventory maps and field observation. This delineation is based on identification of perennial and intermittent streams and areas of soils with high water tables and water loving vegetation. Estimated acres of riparian areas and wetlands are calculated from these delineations during the management area validation process.

Good design and administration of road obliteration projects is critical to restoration of riparian characteristics. A long-term administrative study to evaluate stream and watershed response to road obliteration has been initiated in FY 2000.

Inventory to assess riparian condition in headwater streams now has a standard protocol, but no standard data storage or synthesis capability.

Effectiveness Monitoring:

No effects from prescribed burning were detected in monitoring.

Range riparian monitoring of 17 reaches across 13 streams documented the following conditions in 1999:

	2	(3)	4			7/	3		10		12	13
91%	76%	60%	96%	92%	62%	27%	81%	57%	80%	85%	92%	87%
115	102	92	98	105	80	117	81	98	109	101	92	97
2%	1%	1%	0%	0%	2%	5%	0%	0%	0%	0%	1%	1%
50%	51%	21%	3%	66%	38%	46%	58%	65%	21%	33%	3%	17%
0%	8%	17%	1%	3%	17%	0%	14%	5%	8%	15%	6%	13%
3%	9%	7%	0%	10%	8%	15%	2%	10%	3%	2%	7%	1%
2%	1%	0%	0%	0%	0%	0%	0%	0%	3%	5%	7%	7%
12%	4%	4%	19%	3%	17%	12%	8%	8%	22%	11%	51%	37%
16%	10%	2%	35%	3%	0%	0%	0%	2%	0%	2%	0%	2%
5%	14%	5%	40%	15%	18%	0%	14%	2%	9%	32%	8%	22%
10%	2%	43%	2%	0%	0%	22%	4%	8%	34%	0%	17%	0%
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^{1.} Fish Creek, 2. American River, 3. American Creek, 4. North Fork Slate Creek, 5. Corduroy Creek, 6. South Fork Whitebird Creek, 7. Pinnacle Creek, 8. Cold Springs Creek, 9. Flint Creek, 10. Baldy Creek, 11. Haysfork Creek, 12. West Fork American Creek, 13. Newsome Creek

This information will be compared with subsequent sampling along the same reach in the future. These first year samples are considered baseline information from which additional monitoring will be compared. The comparison will provide managers with an analysis of changes in the riparian attributes over time. Additional monitoring sites will be added in 2000.

Validation Monitoring:

Valley gradient/stream order information was used with landforms to predict probability of certain aquatic habitat elements, with good results. Reaches derived from this information will be used in 1999 to assess historic fire effects in riparian areas stratified by reach, landform setting, and potential vegetation.

Monitoring Evaluation:

A data structure and synthesis capability for headwater stream surveys and riparian condition surveys are needed.

Field reviews and monitoring will continue to be needed to ensure that an accelerated prescribed fire program results in predicted and acceptable effects to riparian areas. Additional monitoring is proposed in FY 2000.

ITEM 11: VALIDATION OF RESOURCE PREDICTION MODELS – WATER QUALITY AND FISH

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: 2-5 years

Variability Which Would Initiate Further Evaluation: If validation efforts show a

need for changes to existing predictive models.

The Forest uses NEZSED, an adaptation of the R1/R4 Sediment Yield Guidelines (USDA Forest Service, 1981), to estimate average annual sediment yields. NEZSED model tests were done on natural sediment yield for several first and second order streams in 1987. In 1994, an evaluation of NEZSED on eight 3rd to 5th order streams was completed through a master's thesis. In 1995, NEZSED was tested against sampled data from two larger sub-basins. An effort to summarize and compare results from the model tests on three scales of watersheds was initiated, but not completed, in 1999.

RANGE

ITEM 1g: ANIMAL UNIT MONTHS GRAZING PERMITS

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: +/- 10 percent of Forest Plan

Estimate.

Monitoring Results:

The Forest permitted approximately 29,800 animal unit months (AUMs) during the 1999 grazing season. The Forest authorized through the yearly billing process approximately 27,600 animal unit months. Actual use information indicated that permittees in general placed less than the authorized level of livestock on the allotments. Forest-level actual stocking on the allotments was approximately 10 percent less than the current permitted levels.

ITEM 11: RANGE ANALYSIS AND ALLOTMENT MANAGEMENT PLAN UPDATES

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: +/- 10 percent of Forest Plan

Estimate.

Discussion:

On July 27, 1995, President Clinton signed into law the 1995 Rescission Bill (PL 104-19). A portion of the Bill, Section 504, pertained to grazing on National Forest Lands, specifically allotment NEPA analysis, and grazing permit issuance. Under the Rescission Bill, the Forest is directed to issue new term grazing permits as they expire even if the required NEPA analysis has not been completed. The Forest is to schedule the needed and required analysis. All allotments without current or needed analysis must be scheduled within the next fifteen years.

The information contained in the schedule reflects the best information available at this time and is based on current and expected funding levels. The schedule may be updated to reflect changes in resource information, Forest management priorities as a result of Forest Plan Revision and funding. At current funding level and Forest priority, all allotments that need revising will be updated by the year 2010. The schedule identified four allotments that NEPA decisions were planned for 1998. Due

to the work necessary to complete consultation under the Endangered Species Act (ESA) the planning effort for the four allotments was postponed to future years. Once consultation is completed for all active allotments, the Forest will review the update schedule and make necessary adjustments based on ESA requirements, monitoring requirements, and current budgets.

Grazing Allotment Analysis Update Schedule

Allotment Name 1	Analysis Status	Time Period	Key Resource Values
Race Creek	Revision Complete	1992	Riparian
Blacktail	Revision Complete	1992	Big Game
Allison Berg	Revision Complete	1996	Riparian
Hungry Ridge	Revision Complete	1996	Riparian/Wildlife
Meadow/Lightning Creek	Revision Complete	1996	Riparian/Big Game
Papoose	Postponed	1998	Riparian
American River	Postponed	1998	Riparian
Elk Creek/Lick Creek	Postponed	1998	Riparian
East Fork	Postponed	1998	Riparian
Cannonball	Needs Revision	99-01	Wilderness/Recreation
Peter Ready	Needs Revision	99-01	Riparian
Butte Gospel	Needs Revision	99-01	Riparian
Hanover	Needs Revision	99-01	Wilderness/Riparian
Florence	Needs Revision	99-01	Riparian
Whitebird/Cove	Needs Revision	99-01	Riparian
Christie Creek	Needs Revision	02-04	Riparian
River View	Needs Revision	02-04	Timber Management
Newsome Creek	Needs Revision	02-04	Timber Management
Elk Summit	Needs Revision	02-04	Timber Management
Hamby	Needs Revision	02-04	Timber Management
Corral Hill	Needs Revision	02-04	Big Game
Fiddle Creek	Needs Revision	05-07	Timber Management
Tahoe-Clear Creek	Needs Revision	05-07	Riparian/Timber Management
Mallard Creek	Needs Revision	05-07	Riparian
Earthquake	Needs Revision	08-10	Big Game/ Reforestation
Kirks Fork	Needs Revision	08-10	Riparian

Implementation Monitoring

The following grazing guidelines were incorporated into the Annual Operating Instructions for grazing allotments. The grazing guidelines are used to manage livestock and to estimate the time when animals need to be rotated away from sensitive stream reaches. The goal of grazing management is to maintain desirable riparian conditions and achieve recovery of streams not in satisfactory condition.

- 1. Forage Utilization: 40 percent or less of the current growth by weight, measured during the grazing period.
- 2. Shrub Utilization: 40 percent or less of the available current year's growth, measured as a percent of the leader length browsed.
- 3. Bank Disturbance: 10 percent of the bank distance.

Forest personnel monitored along stream reaches that were accessible to livestock. Forage utilization, shrub browsing and bank disturbance were estimated as the inspector walked along the designated stream reaches. The percentages represent the average levels found along the stream reaches where monitoring took place.

The table below summarizes the implementation monitoring conducted along key riparian areas during the 1999 field season.

Allotment Name • Riparian Area	Forage Utilization	Shrub Utilization	Stream Bank Disturbance
Allison-Berg Allotment			and the last
Allison Creek	10%	0%	0%
Butte-Gospel	, 10		
 Mill Creek (Lower meadow) 	20%	0%	NM
 Mill Creek (Upper meadow) 	40%	0%	NM
Cannonball			
Rapid River	10%	0%	1%
West Fork Rapid River	5%	0%	1%
Bridge Creek	10%	0%	1%
Christie Allotment			
Rhett Creek	35%	0%	6%
Christie Creek	40%	0%	2%
 Johnson Creek 	25%	0%	8%
Deer Creek	35%	0%	10%
Cow Creek Allotment			
Bean Creek	30%	0%	NM
Cow Creek	10%	0%	1%
Kessler Creek	25%	0%	NM
Cold Spring	30%	0%	NM
Corral Creek	25%	0%	3%

Allotment Name	Forage	Shrub	Stream Bank
Riparian Area	Utilization	Utilization	Disturbance
Papoose Creek Allotment		And the second second	
Shingle Creek	15%	0%	2%
Papoose Creek	25%	0%	3%
Squaw Creek	5%	0%	1%
Fire Camp Saddle (uplands)	30%	0%	
Peter Ready Allotment			
Little Whitebird Creek	25%	0%	0%
Peter Ready Creek	25%	0%	3%
North Fork Slate Creek	40%	0%	5%
South Fork Whitebird Creek	10%	0%	1%
Race Creek Allotment			
West Fork Race Creek	35%	0%	2%
Bean Creek	40%	NA NA	NM
Sherwin Creek Allotment	1070	1471	14141
Sherwin Creek Sherwin Creek	40%	0%	1%
American River Allotment	10/0	U /0	1 /0
	5%	0%	0%
American River (Upper)	5%	0%	5%
American River (Lower)	3 /6	0%	3%
Blacktail Allotment	ro/	007	00/
Schwartz Creek	5%	0%	3%
Corral Hill Allotment	111 1 1 1	020	
Kay Creek	5%	0%	1%
Hondoo Creek	5%	0%	2%
Lost Mule Creek	5%	0%	2%
Earthquake Allotment			
Earthquake Creek	15%	0%	10%
Edgewood Creek	5%	0%	3%
East Fork Allotment	11		.,
Flint Creek	5%	0%	1%
Five Mile Creek	5%	0%	2%
Elk Summit Allotment			
Viceroy Creek	5%	0%	1%
Allison Creek	5%	0%	2%
Hamby Allotment			
Hamby Creek	0%	0%	0%
Hungry Ridge Allotment			
Merton Creek	5%	0%	1%
Lower Mill Creek	1%	0%	0%
Deer Creek	0%	0%	0%
Big Canyon	30%	0%	10%
Dry Gulch	5%	0%	1%
Grouse Creek	5%	0%	0%
Buck Meadows	12%	0%	4%
Meadow/Lightning Allotment			
	40%	0%	10%
Lightning CreekNorth Meadow Creek	20%	0%	10%
North Meadow Creek	20/0	1 0/0	1076

Allotment Name • Riparian Area	Forage Utilization	Shrub Utilization	Stream Bank Disturbance
Orchard Creek	5%	0%	2%
 Meadow Creek 	10%	0%	10%
Peasley Creek	5%	0%	1%
Rock Creek	5%	0%	6%
Whitman Creek	35%	0%	10%
Tahoe/Clear Creek Allotment			
 Swiftwater Creek 	10%	0%	1%
 Lodge Creek 	0%	0%	0%
Brown Spring Creek	20%	0%	1%
Pine Knob Creek	0%	0%	0%
Whitebird Creek Allotment			
Tolgate Creek	35%	5%	2%
Corduroy Creek	35%	0%	8%

Evaluation of Monitoring Results

Monitoring suggests that, in general, permittees were successful in meeting the grazing standards stated in the annual operating instructions. Fifty-nine riparian areas were monitored for forage utilization, riparian shrub browsing, and stream bank disturbance. Monitoring by Forest personnel found that 90 percent, 100 percent, and 95 percent of the riparian areas inspected were within the forage utilization, shrub browsing, and stream bank disturbance standard, respectively. At the few locations where use/disturbance met allowable standards, the permittee herded animals to less sensitive areas. Each time this occurred the permittees were notified and the livestock were promptly removed from the problem area. Grazing along many streams was far below the allowable levels prescribed in the annual operating instructions for 1999. Monitoring results and grazing management were reviewed and discussed with the Fish and Wildlife Service and National Marine Fisheries Service to ensure that allotment management was in compliance with the biological assessments.

RECREATION

ITEM 1a: RECREATION VISITOR DAYS

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999)

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: If the Forest did not achieve its

assigned target for the fiscal year.

Discussion:

The Forest Service is in the process of replacing the old Recreation Information management (RIM) system with a new data base system known as infrastructure or INFRA for short. Meaningful Measures (a sub-database of INFRA) was completed in the fall of 1999.

Monitoring Results:

Baseline recreation use on the Forest was established through the use of traffic counters, fee campground user information, river permits, trail head cards, and observation by field personnel. Since then annual updates have been primarily accomplished through observations and comparison by field personnel. Through the use of field observation we are able to identify recreational trends, hover, we cannot generate statistically accurate recreation use numbers from this technique.

Observation of 1999 use indicates a general increase in recreation activities on the Forest. Activities such as camping, picnicking, swimming, hiking, horseback riding, hunting, and fishing are increasing, but at a slower rate than river use, ATV use, winter use (particularly snowmobiling), and viewing wildlife and scenery – which exhibit the most dramatic increases. Wilderness use also appears to be increasing during the summer. A rough estimate would put recreation growth at one to three percent for camping, picnicking, etc. and fit to ten percent for river use, viewing wildlife and scenery, ATV use, etc.

Campground parking areas: The size of vehicles and towing units have increased, exceeding designed spur lengths for recreational vehicles. If these increases continue, sites will need to be modified to provide for the use.

Traffic surveillance was reactivated along the roaded recreation corridors of the Selway and Salmon Rivers, as well as the Grangeville-Salmon Road. These checks were activated to record and document use, in addition to increasing accuracy in visitor numbers used in recreation planning and budget calculations.

Evaluation of Monitoring Results

Due to declining budgets and a priority on maintaining service and maintenance of recreation facilities, less emphasis was placed on gathering visitor use information. Accuracy of recreation use estimates will improve when gathering such information increases in priority and funds are allocated accordingly.

Currently, Forest recreation use numbers are updated annually based on observations, comparisons or estimates by field personnel. Development and implementation of a more accurate monitoring system would provide better recreation use estimates.

ITEM 1b: ACRES OF RECREATION OPPORTUNITY SPECTRUM (ROS) CATEGORY

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: following a 5-year period, variation which would indicate that Forest Plan direction requiring a full range of recreation opportunities is not being met, or if the semi-primitive classes are being lost more quickly than specified in the Plan.

Discussion:

The Recreation Opportunity Spectrum (ROS) is used to evaluate the recreation potential of the Forest. This spectrum defines six classes of recreation opportunities on a continuum ranging from primitive (where human disturbance is minimal) to urban (where sights and sounds of people are predominant). These classes are defined in relation to physical settings, recreational activities, and experiences. The Forest has been inventoried, mapped, and divided into four Recreation Opportunity Spectrum (ROS) classes. Currently, the Forest has no rural or urban class settings.

Monitoring Results:

ROS mapping for the existing situation was completed in 1979. No subsequent mapping has since been done on a Forest-wide basis. Such an effort would be necessary to update ROS categories or to determine changes in ROS classifications due to the implementation of management activities such as timber harvest. A comprehensive review of ROS changes would also be needed prior to completing the Forest Plan Revision and Plan Area analysis, and to determine if Forest Plan direction is being met.

Evaluation of Monitoring Results

Upon review of what has been completed using ROS, it is evident that another category, **roaded modified**, needs to be formally adopted. **Roaded modified**, used throughout the Pacific Northwest Region of the Forest Service, has been used in some Nez Perce National Forest analyses. It best describes the recreation spectrum characterized by timber harvest units and road systems, but little in the way of recreation oriented developments. It falls between the **semi-primitive roaded** and **roaded natural** categories.

There is a need to review and update Forest ROS maps; along with modifying our existing database to track ROS acreage changes.

ITEM 2a: OFF-ROAD VEHICLE IMPACTS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: Unacceptable impacts caused by

off-road vehicle use.

Monitoring Results:

The development of a systematic method to monitor Off-Road Vehicle (ORV) use and impacts has not been a high priority for the Forest. It is generally felt that such use (particularly that of four-wheelers and snowmobiles) is increasing in several areas. The need to develop consistent methodology to monitor uses was recognized at the spring Access Coordinators' Meeting. However, significant progress has not yet been achieved.

An opportunity to evaluate off-road impacts exists as part of watershed analysis. It is recommended that an ORV monitoring plan consider watershed analysis. The Newsome Creek Watershed Analysis team is assembling an initial inventory of off-road use areas and trails.

ORV impacts were documented in the Crooked River drainage as part of Forest Plan monitoring. Due to logistics, this was not a comprehensive review of ORV impacts within the drainage, but did highlight some of the concerns with off-road use. Specifically, several informal trail sections that exhibited significant localized surface erosion were reviewed.

Evaluation of Monitoring Results

A study of ORV impacts has not been completed and the need for understanding is increasing. Inventory of uses and impacts should be addressed as part of a

comprehensive ORV monitoring plan. It is recommended that evaluation of ORV impacts be included as part of any watershed analysis.

ITEM 2b: ADEQUACY OF CULTURAL RESOURCE PROTECTION, IMPACTS ON CULTURAL RESOURCES

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999)

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: A change in Section 106 of the National Historic Preservation Act of 1966 or other pertinent cultural resource laws and regulations could necessitate altering the cultural resource monitoring procedure to comply with the changes.

Monitoring Results:

During FY 99, 27 projects were inventoried for compliance with Section 106 of the National Historic Preservation Act, as specified in the Forest Plan. As a result, 1,010 acres were inventoried for cultural resources and 21 new archaeological sites were recorded.

Since implementation of the Forest Plan, several American Indian religious rites areas have been identified on the Forest.

Cultural Resource Inventory Results

Fiscal Year	Number of Projects Inventoried	Number of Acres Inventoried	New Archaeological Sites Recorded
1988	50	3,753	36
1989	22	2,600	17
1990	35	3,137	37
1991	33	4,286	29
1992	33	3,664	37
1993	22	2,290	24
1994	42	3,429	34
1995	71	7,044	42
1996	40	4,605	62
1997	24	1,876	9
1998	34	2,365	23
1999	27	1,101	21

In addition to the new sites recorded, 50 previously recorded sites were revisited.

Adequacy of Cultural Resource Protection

Fiscal Year	Sites Inventoried	Evidence of Vandalism/Damage
1988	10	0
1989	28	3
1990	7	0
1991	42	2
1992	22	0
1993	32	0
1994	28	0
1995	53	0
1996	71	0
1997	66	0
1998	57	0
1999	50	0 .

Evaluation of Monitoring Results:

None of the 50 sites monitored were impacted. Monitoring of the 50 sites revealed that the recommended protection measures were effective.

One current method being used to monitor cultural resources includes resurveying sites and recording any visible effects or changes. This information is documented in site report amendments or updates.

For Forest projects or undertakings with cultural sites, measurements were established for accurately monitoring sites eligible for the National Register of Historic Places. This was accomplished by identification of a permanent datum or controlled mapping point for each site. Recording bearing and distance measurements from the site datum to its boundaries and associated features allowed us to detect and document any changes or effects on a site during monitoring.

With the current cultural Resource Management funding level, it is not feasible to implement this procedure for all known cultural sites (including the ones outside of proposed project areas). An increase in the Heritage budget will be needed in order to develop a systematic procedure for more precise monitoring of sites. This is particularly needed for sites that are surrounded by ongoing management activities or are located along highly used areas such as the Salmon and Selway Rivers.

Heritage Projects

The following were projects undertaken by the Heritage Department of the Nez Perce National Forest. These projects demonstrate the Forests adherence to Section 110 of the National Historic Preservation Act of 1966.

Nez Perce National Forest Heritage personnel conducted a Passport in Time project at the National Register of Historic Places (NRHP) eligible Square Mountain Lookout. Fifteen enthusiastic, skilled, hard working volunteers contributed 675 hours of work. The project provided an opportunity for volunteers to work with heritage personnel as well as historic preservation specialists while sharing knowledge and developing an appreciation for heritage resources.

During Idaho Archaeology Week, a display illustrating Passport In Time (PIT) projects conducted on the Forest over the past several years was made available for public viewing at the Forest Headquarters Office. The display contained photographs and a short explanation of work done during each project.

A brochure titled "Ancient People of the Nez Perce National Forest" was completed in 1999 with the help of a volunteer. The brochure contains general information about Native Americans and their presence on the Nez Perce National Forest. The brochure is available to the public at local Forest Service offices.

Heritage personnel assisted the Idaho County Historic Preservation Commission with the nomination of the Elk City Wagon Road and the Gold Point Mill to the National Register of Historic Places.

During 1999, Heritage personnel on the Nez Perce, Bitterroot, and Clearwater National Forests began work on a plan for the preservation of cultural resources along the Selway River corridor. This plan will ultimately lead to more efficient and effective management of heritage resources in the Selway River corridor. Heritage staff from the three Forests will continue work on this important project in FY 2000.

ITEM 2d: ACHIEVEMENT OF VISUAL QUALITY

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: After 5 years of monitoring, an assessment indicates visual quality objectives are not being met.

Monitoring Results:

Visual Resource Management (VRM) classes were mapped forest-wide over 12 years ago, prior to the development and implementation of the Nez Perce National Forest Plan. The major task remains to review the inventoried and interim VRM objectives and adopt them to meet current on-the-ground conditions and Forest Plan direct.

An important step toward achieving visual quality direction occurred in 1989 with the approval of Forest Plan Amendment #4. This amendment added definitions to aid in understanding the terms "adopted", "inventoried", and "interim" Visual Quality Objectives (VQO's). It modified existing standards to remove inconsistencies in

VQO's, to make the standards more attuned to procedures described in United States Department of Agriculture Handbook 462 – The Visual Management System, and to specify a methodology for documenting visual quality objective decisions. VQO's are now "adopted" for all or part of 34 USGS 7.5 min quadrangles (wilderness are mapped on all or part of 52 quads). These maps are filed at the Forest Headquarters Office.

Visual quality is being considered and documented in most on-the-ground activities. The Forest continues to use paraprofessionals to provide assistance on a project-by-project basis. Documentation of updates/revisions to VQO's should be more consistent.

The VRM system will be replaced with a new system called Scenery Management System (SMS). Some of the concepts of the new system are being incorporated into different types of analysis, however, the VRM system was still the primary program used for analyzing scenic resources. The landscape character, scenic integrity, and recreation opportunity spectrum chapters of the SMS handbook were used for the South Fork Assessment project.

Evaluation of Monitoring Results:

Progress in understanding and achieving adopted VQO's is being made on most districts. The scenic resources inventory will use the SMS Handbook. Monitoring and evaluation efforts should be organized and outlined as to type and process.

ITEM 2n: MANAGEMENT OF DESIGNATED OR ELIGIBLE WILD, SCENIC OR RECREATIONAL RIVER SEGMENTS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)
Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: Following a 5-year period, information which would indicate management direction for designated or eligible wild, scenic, or recreational rivers is not being followed.

Introduction:

The Forest leadership team identified river recreation as one of the high priority programs for FY 98. In 1994, the Forest was included in the Wild River country subcategory of the Northern Region's Recreation Strategy with a primary focus on river dependent uses. This attention is understandable recognizing that the Nez Perce National Forest is responsible for management of four classified rivers (Selway, Rapid River, Clearwater, and Main Salmon) and lies adjacent to other classified rivers (Snake River in Hells Canyon, Lochsa, and Middle Fork of the Salmon). In addition, suitability studies have been conducted on ten Forest rivers for possible inclusion into the classified rivers systems and six others have been identified as eligible.

Current Situation:

These rivers provide a wide spectrum for public use and enjoyment. The Selway and Middle Fork of the Salmon are truly wilderness rivers. The Selway is more pristine and only one launch per day is allowed, while the Middle Fork provides opportunities to float over 100 miles within the Frank Church Wilderness. The Lochsa offers exceptional kayaking and is easily accessed from US Highway #12. Rapid River was classified primarily to protect water quality for anadromous fish and is popular with hikers and stock groups. The Middle Fork of the Clearwater, which also parallels U.S. #12, provides unlimited access to floaters and power boaters. The Snake and Main Salmon River flow through Wildernesses and present the public with opportunities for floating and power boat experiences. Many portions of both rivers are accessible by motor vehicles, aircraft, hikers, and via horseback. In addition, private inholdings along all of these rivers present challenges and opportunities to Partnerships have been successfully used in collaborative river managers. management of resources and preventing or minimizing degradation of the natural setting.

Following is a list of the classified rivers the Nez Perce National Forest is partially responsible for managing. This list is broken down by length, Wild and Scenic River Designation, ROS, and activities associated with the river.

Classified Rivers on the Nez Perce National Forest

Attribute	Salmon River	Rapid River	Upper Selway River	Lower Selway River	Middle Fork Clearwater River
Length	79 miles	13 miles	42 miles	19 miles	10 miles
Wild & Scenic Designation	Wild	Wild	Wild	Recreation	Recreation
ROS	Semi-Primitive Motorized to Roaded Natural	Primitive to Semi- Primitive	Primitive	Roaded Natural	Roaded Natural
Resource Values and Activities Associated with River	Motorboats, rafting, private property (including scenic easements), trails, several miles of primitive roads, airstrips.	Grazing, trails, outstanding water quality.	Rafting, trails, some private property, outstanding water quality.	Developed recreation, roads, rafting, and private lands.	Roads, developed recreation, powerboats, private lands.

Accordingly, river management on the Nez Perce National Forest must be viewed in a regional and national context considering how our rivers contribute socially and ecologically to the Wild and Scenic River system.

Needs:

Social and ecological pressures on the Forest and adjacent rivers are mounting. The demand to use and enjoy these waterways is increasing. On the Main Salmon for example, floating has been increasing at an annual rate of 2 percent and jet boat use is becoming much more popular during the fall period. Spring trail use at Rapid River has increased significantly, creating congestion at the Rapid River Fish Hatchery.

Levels and types of use have increased on the Selway Recreation River, and change in private landownership has made scenic easement administration more difficult. Public interest surrounding the recent Hells Canyon management decision and Frank Church River of No Return Draft Environmental Impact Statement readily demonstrates the complexity and controversy associated with river management issues. In addition, ecological impacts such as noxious weed invasion and private land subdivision threaten the character and integrity of our classified river corridors.

Following are specific issues or threats to Nez Perce National Forest and adjacent area rivers.

Social

- □ Loss of Agency credibility with members of the public interested in river management.
- □ Increased use/demand for use of rivers administrated by the Nez Perce National Forest. Demand for use is the result of management decisions in other areas (i.e. increased user fees on Colorado River, recent Hells Canyon decision).

Ecological

- □ Increased use of ecologically sensitive, unregulated rivers and tributaries (South Fork of Clearwater, Meadow Creek, Rapid River, etc.).
- Expanding noxious weed populations.

Administrative

- □ Development of unprotected private lands situated in classified river corridors.
- □ Lack of policy and management consistency between districts, forests, and regions; and with other agencies.

Clearly, river management poses unique challenges and opportunities. Managers need to be proactive rather than reactive. There is a need for the Nez Perce Forest to:

- 1. Secure sufficient resources to accomplish at least base level management functions.
- 2. Enhance opportunities to secure additional resources.
- 3. Improve efficiency in accomplishing our tasks.

Goals

In order to fulfill our needs the following goals should be strived for:

- Secure sufficient resources to accomplish base level management.
- Secure additional resources through partnerships and other collaborative approaches.
- ☐ Improve efficiency through sharing resources with other districts/forests/regions.

Program Components

Important elements needed for a successful forest rivers program:

- 1. Provide for full Forest Service presence within the river corridors during entire period when use is significant (control and shoulder seasons). Such a presence would result in:
 - a. Promotion of low impact river use and deliver wilderness ethics messages.
 - b. Assurance that all river corridor users have the necessary trip permits and equipment and are otherwise complying with requirements for use during the control seasons.
 - c. Maintaining the river corridors in clean, natural condition yearround through monitoring, inventories, inspections, and clean-ups of the riverbanks, campsites, and other high-use areas.
 - d. Routine visits and development of positive relationships with land owners, user groups, and special interest groups.
 - e. Be available to assist the public in any safety situation on the river, and to assist the Idaho County Sheriff's search and rescue operations as needed.
- 2. Close cooperation with other authorities responsible for managing the River Corridors, especially the North Fork Ranger district (Region 4): West Fork Ranger District (Bitterroot NF); Lochsa Ranger District (Clearwater NF):

- Red River and Clearwater Ranger Districts (Nez Perce National Forest); and Bureau of Land Management.
- 3. Assist with implementation of the Frank Church River of No Return Wilderness Noxious Weed Environmental Impact Statement.
- 4. Continue involvement with wilderness planning, implementation, and monitoring (Frank Church River of No Return Wilderness Environmental Impact Statement, Selway Bitterroot Plan, and Hells Canyon Management Plan including Rapid River).
- 5. Work closely with users, user groups, and private landowners to cooperatively accomplish projects within the river corridors.
- 6. Administer existing land easements to ensure compliance with agreements.
- 7. Increase other USFS personnel's familiarity with the Nez Perce Forest Classified Rivers and associated Wilderness. Facilitate involvement with forest, regional and Washington D.C. office program managers, specialists, and researchers.
- 8. Pursue acquiring (easements or title purchases) additional private lands within the river corridors.
- 9. Provide historic and prehistoric cultural resources interpretation.
- 10. Provide logistical support in transporting necessary goods to and from field stations and for special projects involving individuals or groups needing to do research, inventories, management reviews, etc.

Accomplishments

- ☐ Maintained Forest Service presence (primarily through river patrols) on Salmon and Selway Rivers during and outside of control seasons. Selway river patrols were extended beyond the control season to monitor increased floating use resulting from favorable late season water levels and to assess visitor impacts on campsites. Extensive late season monitoring and public contacts were continued in September on the Main Salmon.
- Continued cooperative management between various river managers for numerous activities and projects (Selway, Slate Creek, the Clearwater Forest, North Fork on Salmon/Challis, Payette National Forest, BLM, Idaho Fish and Game, and Idaho Department of Parks and Recreation). Nez Perce National Forest river rangers assisted the Clearwater national Forest in early season river patrols on the Lochsa River. Nez Perce Forest river rangers assisted the Salmon and Challis National Forests with patrols on the Middle Fork of the Salmon. The Salmon and Challis National Forest reciprocated and assisted with a Selway River management awareness trip.

- □ Continued public contacts using information/educational framework to ensure river users apply low impact camping techniques, to ensure compliance with the laws and regulations to reduce user conflicts. Approximately 2,450 people were contacted on the Main Salmon and several hundred visitors contacted on the Selway River. The number of public contacts in FY 99 was less than the previous year.
- Maintained the river corridor in excellent condition through routine inspections and campsite cleanups. The Selway River beaches continued to be found in pristine conditions. About 340 pounds of garbage, primarily resulting from early and late use, were removed from the Main Salmon.
- Noxious weed management: River patrols, with assistance from many volunteer groups pulled 22 acres of noxious weeks (primarily spotted knapweed and rush skeleto weed) on the Main Salmon River. Over the years such projects have freed up dozens of previously infested campsites. During September 1999, extensive ongoing inventories of the high elevation drainages occurred. On the Selway River, spotted knapweed biocontrol insects were monitored as part of a cooperative project with Rocky Mountain Elk Foundation. In addition, extensive weed inventories were initiated and pulling occurred on several campsites. Several on-site meetings concerning development and implementation of a noxious weed environmental impact statement were held with various wilderness interests including wilderness groups, private landowners, power boaters, backcountry pilots, conservation foundations, and recreational manufacturers.
- □ The Forest successfully administered implementation of the Salmon River Recreation Fee Demo program.
- □ River patrols supported and assisted the scenic easement and fisheries programs.
- □ River managers frequently visited private landowners/managers who live within the river corridors, maintaining the working relationships necessary for effective management of the river canyons.
- □ Forest river managers continued their assistance with the Frank Church River of No Return Supplemental Draft Environmental Impact Statement public involvement process.

Summary:

Management of the classified rivers administered by the Nez Perce National Forest continues to move toward a multi-forest/multi-region approach. The Forest is coordinating with the Clearwater, Wallowa Whitman, and Salmon-Challis National Forests to maximize efficiency, provide continuity, and minimize redundancy. Public demand for river access continues to grow, particularly during the spring and fall. In addition, ecological issues, such as exotic plan invasion and development of private

lands within the river corridors, continue to be a concern. In FY 99, information was again collected on the extent, type, and timing of river use and inventories of noxious weeds continued throughout the year with the assistance from partners and private landowners. Information from these inventory/monitoring efforts will support the ongoing analysis projects where decisions on river management issues will be made.

FIRE, INSECTS, & DISEASE

ITEM 1k: ACRES AND NUMBERS OF WILD AND PRESCRIBED FIRES

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: 5 years (FY 1996)

Variability Which Would Initiate Further Evaluation: Unusual number of personcaused fires over the 10-year average indicating a trend of specific cause(s). Unusual number of acres burned is unexplainable, such as unusually severe fire danger based on the burning index and the energy release component. Unusually high cost of fire suppression (over the 10-year average). Inability to meet expectations contained in the National Fire Management Analysis for the Forest as per budget level allocated for current year.

Monitoring Results:

The winter and spring period saw the accumulation of above average snow pack: the result was fire season began slowly with relatively few fire starts prior to late July. The energy release components rose above the 97^{th} percentile for a 10-day period in late July and early August 1999. Rainfall amounts in August 1999 were above normal and inhibited new fire starts and fir spread. September and October 1999 were generally dry with the energy release components rising above the 90^{th} percentile for 12-days in late September.

Within the 3 Wildland fire use areas on the Nez Perce Forest (Gospel Hump, Frank Church River of No Return, and Selway Bitterroot) 31 fires were managed for benefits, burning 1,271 acres in FY 1999.

All Wildland fires on both the Nez Perce and Clearwater National Forests were managed by internal resources; with the assistance of some tactical resources provided by off-Zone units. Two prescribed fires exceeded the burn plan parameters and suppression action was taken as directed by the incident Wildland fire situation analyses.

The most significant project work areas involved timber preparation support to the Idaho Panhandle National Forests, prescribed fire support to many national forests in region 8, and climbers for the Chicago Longhorn Asian Beetle project. Personnel from both the Clearwater and Nez Perce National Forests provided extensive suppression support to fire incidents in California, Nevada, Montana, Alaska, and many forests in the South Region.

Number of Fires

Type of Fire	1995	1996	1997	1998	1999	10-Year Average
Lightning Fires	81	301	69	189	145	187
Person-caused	5	18	5	5	16	16
Wildland Fire Use	20	17	17	19	31	14
Total	86	319	74	194	161	203

Acres Burned by Wildland Fire 1995-1999

Type of Fire	1995	1996	1997	1998	1999	10-Year Average
Lightning Fires	24	41,077	26	2,344	49	8,704
Person-caused	1	1,549	3	1	1,752	661
Wildland Fire Use	14	28,150	16	1,734	1,272	6,237
Total	25	42,626	29	2,345	1,801	9,365

The Forest's fire management program was not funded at the most efficient level (MEL) as described by the National Fire Management Analysis System (NFMAS). The Forest was budgeted about 30 percent below MEL. Preparedness Reviews were conducted on the Forest helicopter program and all of the district management organizations.

Revision of the Selway Bitterroot Prescribed Fire Guidebook was completed by representatives from the three participating forests and was edited to reflect current policy and update operational procedures. The Red River District took the lead in a review of the Rainey Point Fire, which occurred in 1998. The review team focused on how well the response to this fire met Wilderness Management objectives, new federal fire policy, and fire fighter safety objectives.

The second year of planning on the Salmon River Canyon Project concluded with the proposed action identifying 214,000 acres for prescribed burning treatment. Four alternatives are currently being analyzed, with the project scheduled to be completed by the end of 1999. The Bureau of Land Management, 2 Forest Service regions, and 4 national forests are participating in this planning effort to analyze 1.8 million acres.

The Nez Perce National Forest accomplished 7,513 acres of hazardous fuel treatment and 654 acres of brush disposal. This exceeded the MAR and expected Forest Plan outputs for hazardous fuels and feel slightly short of the assigned BD target. Year-end review of BD (trust fund) balances showed adequate funding available to complete all planned work.

Fire management sponsored a review of the Southfork Prescribed Fire by the Forest Interdisciplinary Team.

The Nez Perce National Forest, along with other federal, state, and private agencies of the North Idaho Airshed Group, continued their dialogue and cooperation to minimize or prevent the accumulation of smoke in Idaho to meet state and federal ambient air quality standards. (See the air quality discussion.)

A total of 178 fire jumps on 57 fires were made from the Grangeville Smokejumper Base. Two injuries were reported.

Grangeville smokejumpers accomplished over 12,340 hours of project work in 1999 in fuels management, timber sale preparation, trail maintenance, and cone harvesting.

Twenty-nine (29) percent of the fire crews and 30 percent of the smokejumper permanent positions are comprised of women and minorities.

Helicopter flight hours totaled 493 hours, 371 hours for fire suppression and 122 hours for non-fire projects. Most of this activity was on the Nez Perce and Clearwater National Forests.

Over 45,428 gallons of retardant were pumped by the Grangeville tanker base during 1999. Approximately 8,000 gallons were dropped on the Nez Perce National Forest. Support was also provided on Nez Perce National Forest fires by the Idaho Department of Lands out of Craigmont, and the Missoula and McCall Air Tanker bases.

ITEM 7: INSECT AND DISEASE ACTIVITY

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)
Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: Significant increases in population or damage levels of insects or diseases.

Monitoring Results

<u>Douglas-fir bark beetle</u>: As in 1998, populations of Douglas-fir bark beetle continued to rise. Aerial Detection Surveys completed and analyzed by Forest Health Protection staff show a steady increase in populations since 1995. Faded trees are grouped, and the number of trees in each group has increased as has the total number of groups. Populations generally decline after two or three years, but this outbreak has been unusually long-lived. We have assisted with ongoing research being done by a scientist from Oregon State.

Mountain pine beetle: Forest Health Protection specialists conducted a field review to monitor mountain pine beetle conditions on the Red River Ranger District. A majority (52 percent) of the mountain pine beetle activity in lodgepole pine has been on the Red River District over the past 4 years. Mountain pine beetle is also affecting white bark pine forests. An assessment of mountain pine beetle on the entire forest was also conducted. Forest Health Protection personnel recommended continued monitoring at this point.

Western balsam bark beetle: Mortality from this beetle and from the balsam wooly adelgid is difficult to distinguish from aerial surveys. Both are part of a larger complex of pests responsible for a general decline in subalpine fir throughout its range. Aerial surveys on the Nez Perce National Forest show intermingled patches of mortality from both his beetle and the adelgid. The effects of the two insects, together with other unidentified pests, have resulted in widespread mortality in subalpine fir here. Mortality attributed to the bark beetle is concentrated in the higher areas of the Forest, across the headwaters of Newsome Creek and American River, and the Orogrande Summit/Dixie area.

Balsam wooly adelgid: This insect was first detected in Idaho in the early 1980s. It infests true firs and is particularly destructive to subalpine fir, which it can kill in as few as three years. Higher areas of the Forest, across the headwaters of American River and Newsome Creek, and on Coolwater Ridge, have been experiencing annual mortality attributed to this insect. The recommendation from Forest Health Protection is to establish impact plots in areas with ongoing mortality in order to assess the effects of the adelgid.

<u>Root rots</u>: In combination with various bark beetles, root rots are causing a pervasive loss of canopy cover. *Armillaria* root disease is affecting both Douglas-fir and grand fir. *Schweinitzii* root rot is affecting Douglas-fir. *Annosus* root disease is affecting large, old ponderosa pines and Douglas-firs and contributing to their decline.

<u>White pine blister rust</u>: Whitebark pine is being severely affected by blister rust, and is a major contributor to a precipitous decline in whitebark pine populations.

Anthracnose: This fungus continues to affect the coastal disjunct population of Pacific dogwood in the Selway River drainage. Mortality has been high, and surviving plants are in poor condition. Monitoring plots have been established and are checked periodically as funding permits. No change in the downward trend is evident.

Evaluation of Monitoring Results

- ☐ Mortality in subalpine fir, affecting forest composition, structure, and density, could have long term effects on lynx habitat.
- □ While losses from bark beetles and root rots are not at a critical level yet, continued losses could reduce canopy levels to the point that watersheds are affected. Concentrations of dead trees are certainly a risk factor for Wildland fire ignition.

- □ Large, old ponderosa pines, a unique resource, are at risk from a combination of *Annosus* root disease, stem decay (predisposes the tree to being killed even by small ground fires), and bark beetles.
- □ Whitebark pine forests are continuing to disappear due to the combined effects of blister ruse, mountain pine beetle, and a lack of regeneration opportunities.

Subbasin and watershed assessments have recognized these disturbance processes, and their role in the ecosystem. Project analyses and subsequent vegetation treatments address them as they occur in project areas. Silvicultural prescriptions will incorporate a further step-down of the broad scope of ecosystem processes to individual stands, so that treatments are consistent with ecosystem functioning. Annual monitoring of insect and disease conditions will continue, and contribute to our understanding of disturbance trends.

FACILITIES

ITEM 2k: MITIGATION MEASURES USED FOR AND IMPACTS OF TRANSPORTATION FACILITIES ON RESOURCES

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999)

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: If reviews or studies indicated that mitigation was not being implemented as specified or if effectiveness was not near the levels predicted.

Discussion:

Facilities on the Nez Perce National Forest include buildings, administrative sites, property boundaries, and the Forest road and trail transportation system. Construction and maintenance of all facilities improves the safety and health of both Forest employees and the visiting public.

Buildings and Administrative Sites

Monitoring the health and safety of Forest buildings and administrative sites is not a monitoring requirement of the Forest Plan. Federal, state, and local laws and regulations govern the construction, maintenance, and use of structures, potable water systems, and sewage treatment systems.

Due to a program of regular annual inspections and forest-wide prioritization of maintenance projects, all Forest buildings, water systems, and waste water systems that are in use meet basic structural and public health and safety standards. When new research reveals potential hazards to employees and Forest visitors, testing and monitoring is done and mitigation or removal is completed to prevent human exposure to hazardous materials such as lead, radon, and asbestos in buildings, air, and water. Results of long-term radon monitoring on a regular basis across the Forest show that radon levels are acceptable except in the Slate Creek Office, where further radon mitigations measures are scheduled for implementation in 2000.

Construction work completed in 1999 included interior storage construction at the fire warehouse at the Slate Creek Ranger station and replacement of a carport at the Red River ranger Station.

Major repair and maintenance projects included siding replacement at the Grangeville Air Center and the Clearwater Ranger Station; roofing replacements at Fenn Ranger Station, Moose Creek Wilderness Station; security fencing and signing at all lookout towers and Red River Ranger Station; and flooring replacements at several residences across the Forest.

The Forest has three "public community" water systems that serve the Fenn, Red River, and Slate Creek Ranger Stations. There are also two seasonal work center systems and ten seasonal use lookout and recreation water systems currently operating. One system is operated by a recreation site permittee. Bacteriological monitoring of all operational water systems is completed monthly. Due to problems with aging water collection and distribution systems along the Selway River, four small campground water systems were closed and will remain closed until funding is obtained to rehabilitate the systems. This year, extensive chemical testing was required for all our public community systems. These tests were completed and showed no water quality problems. If any systems fail quality requirements, the problems must be corrected or the system closed to use.

The Forest maintains three sewage treatment plants, one each at Fenn, Red, River, and Slate Creek Ranger Stations. Effluent from these plants is tested monthly in accordance with each site's National Pollution Discharge Elimination System (NPDES) permit requirements. The information from these tests is forwarded to the Environmental Protection Agency.

Property Boundaries

There are approximately 450 miles of boundary between Forest land and private landowners. Three hundred forty nine (349) miles have been retraced and posted to standard with approximately 113 miles remaining to be posted. In addition to the property lines, there is an estimated 330 miles of wilderness boundaries on the Forest. Maintenance of the existing posted boundaries continues at about 25 miles per year. Due to more difficult terrain and areas where corners have not been reestablished for nearly 100 years, the rate of boundary location is now about 4 miles per year.

With the advent of the new IBM computer system, the Land Net is being loaded into Automated Lands Program (ALP) for a GIS layer.

Right of Ways

Although no new roads or trails are planned across private property, the Forest has a substantial backlog of roads and trails, which have been managed under prescriptive/appropriate rights. In FY 99, the Forest resolved on trial right of way (Shepp Ranch). The Forest is actively working on three to five rights of way and two trail rights of way.

Transportation System (Roads and Trails)

Monitoring is conducted during project planning, implementation, and throughout the duration of use. Project planning provides rationale for required mitigation. Upon implementation, monitoring is continuous during contract administration as documented in contract daily diaries and during program management as documented in the facility maintenance records.

Monitoring is also performed during interdisciplinary project reviews and in the annual program review.

Mitigation is accomplished using a combination of practices and specified measures. Five specific practices are:

- 1. <u>Transportation Planning</u>, which is a detailed office effort using maps, photos, historical data, GIS data, land hazard information, and geotechnical information to identify and avoid possible stability problems and mass hazard areas and to hold road mileage to the lowest possible.
- 2. <u>Route location</u>, which ground-truths the results of the planning, refines locations, and provides further information on possible problem areas.
- 3. <u>Contract preparation</u>, which assures that mitigation measures are incorporated into drawings and specifications to be followed when the facility is built.
- 4. Administration, which assures compliance with the contract.
- 5. <u>Maintenance</u>, which assures that the facility continues to function and provide the level of mitigation originally intended.

In addition to Best Management Practices and the practices listed above, specific design measures can be employed to reduce effects of facilities on resources. Some of these measures are:

- 6. <u>Designed and controlled cut slopes, fill slopes, road width, and road grades.</u> These effectively reduce sediment production by fitting the roads to the land.
- 7. Designed and controlled ditches, cross drain spacing, and culvert discharge. These prevent water from running long distances over exposed ground. Dewatered (dry) culvert installations and special drainage such as rock filter blankets and rock buttresses were demonstrated to be effective in the Horse Creek study.
- 8. <u>Stabilization of road surface and ditch lines with competent rock</u> (rock that does not rapidly disintegrate). The effectiveness of this measure in reducing surface erosion from these sources is dramatic, often over 90 percent.
- 9. <u>Slash filter Windrows.</u> This measure was developed on the Nez Perce Forest as part of the Horse Creek study. It consists of placing logging slash at the base of fill slopes and below culverts where fish passage is not required. It is very effective treatment; sediment leaving fill slopes is reduced by 80 to 90 percent.
- 10. Seeding and fertilizing cut slopes, fill slopes, and other disturbed areas. The objective is to reduce soil erosion from these sources after one growing season. Effectiveness has been rated at 85 percent or better once vegetation has become established.

Some of these measures are immediately effective, such as culvert dewatering. Slash filter windrows are effective immediately and during the first few years; after that they may become near capacity and in some instances begin to decompose. By that time though, revegetation becomes established and more effective.

Additional mitigation, in the form of project design in consultation with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service through the Level 1 consultation process, is not an integral part of every project. This process has been established in response to requirements of the Endangered Species Act. As a result of this process, each project receives joint evaluation and assessment of potential impacts and site specific mitigations are selected to address potential for resource impacts.

Monitoring Results:

Implementation Monitoring

All engineering projects for FY 99 included specific mitigation measures to reduce the impact of facilities on resources. The following mitigation measurers were used (not all were used one very project).

Windrowing of construction slash at the toe of fill slopes.
Rock surfacing of the entire road or at contributing areas.
Layer placement and compaction of major fills.
Grass seeding and fertilizing of cut/fill slopes and disturbed areas.
Rocking of ditch lines.
Straw bales to control erosion.
Temporary waterbars to control erosion.
Special project specification 204 (SPS 204) to control timing of installation of mitigation measures.
Installation of gates and/or barriers to control traffic.
Permanent waterbars (for trails).
Controlled Timber haul.
Placement of durable pit run rock blanket on fillslopes at major culvert installations to control erosion.
Installation of drop inlets at critical locations to control erosion.

Construction of rock buttress retaining structures.

Mitigation Measures Implemented on Project Awarded in FY 1999

Project	1	2	3	4	5	6	7	8	9	10
Salmon River Road Emergency Repairs	N/A	N/A	X	N/A	X	X	Х	N/A		
Salmon River Road Reconditioning	80%		X	х	X	Х	X	N/A		
Selway Surfacing Phase I	N/A	N/A	Х		Х		Х	N/A		
Hungry Ridge Road Repair	N/A	N/A	X		х	Х	X			
Deadhorse Road Obliteration	80%		Х		Х	Х	Х	N/A	X	X
Berg Obliteration	N/A	N/A	N/A	N/A	X	X	X	N/A		N/A
O'Hara Obliteration	N/A	N/A	N/A	N/A	Х	Х	X	N/A		N/A
2021 Restoration and Obliteration	N/A	N/A	N/A	N/A	X	Х	X	N/A		N/A
263B Road Obliteration	N/A	N/A	N/A	N/A	X	Х	X	N/A		N/A

Table Key

- 1 Planned Sediment Mitigation (%)
- 2 Windrow Slash
- 3 Asphalt/Rock Surfacing
- 4 Rock Ditches
- 5 Grass Seeding Fertilization
- 6 Straw Bales/Mulch
- 7 SPS 204
- 8 Layer Place Fills
- 9 Temporary Waterbars
- 10 Gates, Traffic Control

Road Construction Levels - Nez Perce National Forest (MAR)

Year	Reconstruction (Miles)	Construction (Miles)	Obliteration (Miles)
Forest Plan	30	53	N/A
1988	53	53	
1989	152	37	
1990	91	49	
1991	144	84	711 -7
1992	101	30	2
1993	77	30	2
1994	. 5	14	0
1995	2	9	5
1996	4	5	3
1997		0	10
1998	21	0	18
1999	27.5	0	22.3

Road Maintenance

The level of maintenance varies by road. Level 1 maintenance is applicable to roads with no motorized traffic and addresses priority items to prevent resource damage. Level 2 maintenance is applicable to roads maintained for high clearance vehicles. Maintenance levels 3 through 5 are performed on the open road system maintained to provide for passenger car travel. One thousand eight hundred eighty (1,880) miles were fully maintained to standard. A total of 4,018 miles were maintained in FY 99.

ITEM 21: ADEQUACY OF TRANSPORTATION FACILITIES TO MEET RESOURCE OBJECTIVE AND USER NEEDS

Frequency of Measurement: Continuous

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: If public opinion is significantly against the Nez Perce National Forest access management program or the program shows serious negative impacts upon resources.

Discussion:

The monitoring of this item is continuous. Due to the nature of transportation systems, their impacts upon management and use of the Forest, monitoring is both important and complex. Consequently, monitoring information comes from a variety of sources: Facility maintenance records, environmental assessment documents, public letters and requests, and biological evaluations. The Nez Perce Access Management Guide also contains methodology and documentation designed to assist in monitoring.

Monitoring Results:

Access Management

Road System

• <u>Inventory</u>:

The current Forest inventory (October 1999) shows 3,908 miles of road in the Forest Development Road System. Of this, 1,037 miles are open and the remaining 2,871 miles are either closed to all vehicular traffic or have use and vehicle restrictions on them.

In 1999, the Forest updated the "1999 Access Guide" (an itemized listing of access prescriptions for Forest roads). This was produced as a complement to the Forest Visitor Map in an effort to provide more complete information to Forest visitors.

Access for Hunters with Disabilities:

Policy and guidance have been provided by the Regional Office in Missoula in the form of Forest Service Manual and Handbook direction for providing access to hunters with disabilities. The Red River Ranger District continues to manage a program that provides access to hunters with disabilities.

Trail Systems

The Forest Plan did not project the trail miles to be maintained each year. The present Forest trail inventory includes 2,906 miles of Forest Development Trails.

- 1) 648 miles of our 1,427 miles of wilderness trails were maintained in 1999 (45%).
- 2) 796 miles of our 1,479 miles of non-wilderness trails were maintained in 1999 (54%).

For the motorized trail users, the Forest has many areas available, but now has two areas that have been developed specifically for this use:

- 1) McComas-Cougar Creek with 39 miles of OHV trails.
- 2) Florence Front Country with 120 miles of motorized trails which includes the newly finished Bullion section of the Idaho Centennial Trail. This segment connects the State's south routes by trail across the Salmon River at Wind River Bridge.
- <u>Trail Reconstruction</u>: The Forest Plan projected 20 miles of trail would be reconstructed every year. In 1999, 29 miles of trail on the Forest were

reconstructed to meet design standards, and address safety and resource issues.

- The Forest also provides the following additional miles:
 - 1) Through the cooperative efforts of local organizations. Idaho County Commissioners, the State of Idaho Department of Parks and Recreation, and the Nez Perce National Forest, we currently have two snowmobile programs providing groomed trail systems from December 1 to April 1.
 - a) State Unit 25A: Centered out of Fish Creek Recreation Area, this is a 120 miles groomed snowmobile trail system on the Clearwater and Salmon River Ranger Districts (with the Clearwater District having the lead). This system is sponsored and groomed by the Sno-Drifters Snowmobile Club of Grangeville, Idaho.
 - b) State Unit 25B: Serving the Kooskia/Clearwater, Elk City, and Dixie, Idaho areas, this is a 180-360 mile system of groomed snowmobile trails (depending on snow conditions). These routes are located on the Clearwater, Selway, Elk City, and Red River ranger districts (with the Elk City District having the lead). This system is sponsored and groomed by Valley Cats Snowmobile Club Kooskia, Idaho; Timberliners Snowmobile Club Elk City, Idaho; and Ridge Runners Snowmobile Club Dixie, Idaho.

Funds supporting this grooming come from two sources:

- (1) An 85 percent return annual snowmobile registration fee to Idaho County.
- (2) The largest percentage is from moneymaking events sponsored by the local sponsors.
- 2) The Clearwater Ranger District, in cooperation with the State of Idaho Department of Parks and Recreation, and the Idaho County Commissioners, offer opportunities for Nordic skiing. This consists of 22.1 kilometers of groomed trails at various levels of difficulty and 15.2 kilometers ungroomed/"most difficult" trail. These trails are located at the Fish Creek Recreation Area.

The system is part of the State Park 'N Ski program, which provides most of the funding for grooming.

Evaluation of Monitoring Results:

Approximately 70 percent of the Forest's roads are restricted. Maintenance of restriction devices and information is ongoing.

MINERALS

ITEM 2m: ADEQUACY OF MINING OPERATING PLANS AND RECLAMATION BONDS

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: 5 years

Variability Which Would Initiate Further Evaluation: Operating plans which need to be updated, modified; bonds which need to be increased, decreased or returned; or case files which can be closed out.

Monitoring Results:

In order to meet Forest Plan direction in minerals, it is necessary to have Plans of Operations that contain adequate measures to protect surface resources. It is also important that mining operations be implemented in accordance with the approved plans. Reclamation bonds must be adequate to cover reclamation of areas disturbed by mining. However, once the operator completes reclamation work, the bond needs to be released. This item measures how well the Forest is implementing the Forest Plan in these areas. Monitoring data is obtained from case files, routine inspections by district employees, and interdisciplinary team field reviews.

Out of 34 active Plans of Operation, 5 need modification or updating to more accurately describe existing surface disturbance and/or changes in the operation. This is a decrease of 20 from 1998. A review of bonds being held by the Forest indicates that 5 need to be revised or released. Many of these bonds are associated with operations that have had minimal activity for a number of years. If the bond is still active, the Plan of Operations is considered to be active.

The following table displays this data.

Ranger District	Active Plans of Operation	Plans Needing Modification	Bonds Needing Revision	Bonds Needing Release
Salmon River	11	1	1	0
Clearwater	0	0	0	0
Red River	23	4	4	0
Moose Creek	0	0	0	0
Total	34	5	5	0

The Forest Plan management direction for minerals states, "Exploration and development of mineral resources will be facilitated by providing timely responses to Notices of Intent and Operating Plans." In recent years issues concerning cultural

resources, threatened and endangered fish species, in addition to greater analysis needs relating to watersheds and riparian areas, have greatly slowed response times to mining proposals. Regulation timeframes are not met. The minerals budget is down from previous years, that combined with a smaller workforce means we will probably not be able to correct this problem.

In FY99 the Forest continued to monitor and administer recreational suction dredging to prevent conflicts with ESA listed fish species. Also NFMA and NEPA work on four commercial suction dredging proposals was emphasized in the last quarter. Administration of existing plans of operations was highest priority throughout the year.

The following table compares the above figures with those from previous years. Zero percent in each category would indicate the lowest degree of variation from Forest Plan direction.

Year	Plans Needing Modification (% of total plans)	Bonds Needing Revision (% of total plans)	Bonds Needing Release (% of total plans)
1998	13%	11%	Unknown
1989	6%	15%	7%
1990	9%	9%	8%
1991	7%	15%	3.5%
1992	4%	6%	0%
1993	20%	54%	23%
1994	6%	121%	50%
1995	1%	64%	24%
1996	<1%	39%	13%
1997	15%	37%	4%
1998	44%	44%	0%
1999	7%	6%	0%

There are still some instances of unnecessary disturbance to surface resources due to unauthorized mining operations. In FY 99, we saw a reduction in interest by large mining companies, but a continued interest by recreational miners.

ECONOMICS

ITEM 3: COST OF IMPLEMENTING RESOURCE MANAGEMENT PRESCRIPTIONS

Frequency of Measurement: Annually (October 1, 1997 – September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: Changes in appropriations and expenditures to the degree that accomplishment of the Forest Plan's long-term goals and objectives are affected will necessitate a Forest Plan Amendment.

Discussion:

The Forest's future program is reviewed and updated annually. Future program planning is no longer an attempt to project costs of fully implementing the Plan. Instead, the Forest redistributes funds among resource areas to show current priorities, but with a total similar to past funding levels.

Monitoring Results:

Table 2, found in the beginning of this report, displays budget allocations and actual expenditures for the fiscal years 1997, 1998, and 1999. Dollars have been adjusted to constant FY 99 values.

Table 3 displays projected annual costs for FY 2000.

Corresponding activities and outputs for the year 1997, 1998, and 1999 are displayed in Table 1.

Evaluation of Monitoring Results:

Past monitoring has shown that funding received has consistently been less than full Forest Plan funding levels. This situation will likely continued. It is unclear what effect these decreased budgets will have on the long-term goals and objectives of the Forest Plan. However, the activity and output levels of some resources projected at full Forest Plan funding levels have not been attained and will likely not be attained in the future.

\$ Implementation Funding (in Millions of Dollars) FY 1988-1999

Fiscal Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Expenditures	16.7	18.3	19.3	19.1	17.3	19.6	20.0	23.3	18.7	16.1	17.3	16.8	
Planned													15.2

The previous table displays funding levels expended by the Forest over the past 12 years and the projected funding level for FY 2000. Dollars for all years have been adjusted to 1999 dollars. The effects of this funding level can be seen in the sections of this report describing individual resource areas.

ITEM 3a: FOREST RESOURCE-DERIVED REVENUES

Frequency of Measurement: Annually (October 1, 1997 - September 30, 1999)

Reporting Period: 10 years

Variability Which Would Initiate Further Evaluation: Any change in resource-derived revenues altering the implementation of Forest Plan long-term goals and objectives will necessitate a Forest Plan Amendment.

Discussion:

Resource outputs to which dollar values were assigned constitute the priced benefits included in the FORPLAN PNV (Present Net Value) calculations. While both market and non-market benefits were used in the Forest Plan to determine total price benefits, only certain resource benefits were used to determine the allocation and scheduling of prescriptions in FORPLAN. Only timber and range revenues are used in calculating returns to the government.

Monitoring Results:

Timber and Range Revenues

(All figures are in 1999 dollars)

Fiscal Year	Timber	Range
FP Projection	\$ 16,630,133	\$ 58,000
1988	\$ 5,898,659	\$ 44,660
1989	\$ 9,155,697	\$ 48,013
1990	\$ 8,302,890	\$ 50,644
1991	\$ 5,393,408	\$ 43,412
1992	\$ 9,021,693	\$ 42,495
1993	\$ 9,811,613	\$ 42,547
1994	\$ 17,265,672	\$ 45,480
1995	\$ 5,749,149	\$ 35,681
1996	\$ 6,397,138	\$ 27,879
1997	\$ 2,892,845	\$ 28,518
1998	\$ 5,903,158	\$ 27,014
1999	\$ 2,630,471	\$ 26,202

Timber Revenues:

The differences between project Forest Plan timber revenues and actual timber revenues in FY 88 – FY 93 were due to two factors. First, we were not experiencing stumpage values as high as predicted in the Forest Plan. Stumpage values used in developing the Forest Plan were approximately \$235/MBF in constant FY 97 dollars. The actual experienced stumpage values were considerably lower. Second, timber harvest acres in FY 88 – FY 93 were considerably lower than the predicted average annual harvest displayed in the Forest Plan (Table 1).

Prior to the completion of the Forest Plan, sensitivity analysis was performed examining the effect of lower stumpage values on land allocation. Appendix D of the Forest Plan Final Environmental Impact Statement (EIS) discusses this analysis. The analysis illustrated that while there would be significant changes in revenues, there would be little change in the programmatic allocation of the Forest Plan.

The revenue decrease from 1990 to 1991 was largely a result of the use of different accounting methods. In particular, established purchaser credits for roads were used in 1990, while charged purchaser credits for roads were used in 1991. The method of depreciating roads also changed in 1991.

The revenue increase from 1992 to 1994 was due to the higher volume of timber harvested, higher prices, and an evening out of the accounting method used for Purchaser credit Roads which was changed in the previous year.

The revenue decrease form 1994 to 1995 was due to fewer acres being harvested in 1995. This trend continued through 1995, 1997, and 1999. The revenue increase in 1998 was due to the extremely high value of the timber in a single sale.

The following table displays gains or losses from timber harvesting and related activities for fiscal years 1988 through 1997. The information to calculate this value for fiscal years 1998 and 1999 is not available at this time. When it becomes available it will be provided to those interested. Payments to States have not been included in this analysis, because it has been determined that Payments to States is not a legitimate cost to the timber program. Payments to States are shown in item 8: Effects of National Forest Management on Lands, Resources, and Communities Adjacent to the Forest.

Gain or Loss of the Timber Program (before payments to states)

(All figures are in 1999 dollars)

Fiscal Year	\$ Amount		
1988	370,505		
1989	1,796,751		
1990	821,982		
1991	<2,357,983>		
1992	<110,310>		
1993	1,081,204		
1994	6,147,975		
1995	<1,873,672>		
1996	<354,585>		
1997	<2,218,478>		

Range Revenues:

Differences between projected Forest Plan range revenues and actual range revenues are attributed to changes in grazing fees and a change in how revenues are calculated.

The range revenues in the Forest Plan were incorrectly calculated by multiplying the 1986/87 grazing fee against the permitted Animal Unit Months (AUMs) instead of Authorized Head Months of use. Range revenues are correctly calculated by multiplying the current grazing fees against the Authorized Head Months of use. A "Head" is defined as a grazing animal, six months or older.

In Fiscal Year 1999, grazing fees were \$1,35 per head month for cattle and horses, and \$0.27 for sheep. In 1999, 17,238 cattle and horse head months and 8,351 sheep head months were billed.

Evaluation of Monitoring Results:

It is unclear what effect the difference in revenues received and expected will have on the Forest Plan's long-term goals and objectives.

EFFECTS ON OTHERS

ITEM 8: EFFECTS OF NATIONAL FOREST MANAGEMENT ON LANDS, RESOURCES, AND COMMUNITIES ADJACENT TO THE FOREST

Frequency of Measurement: Annually (October 1, 1998 – September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: Unacceptable effects determined

by the Forest Interdisciplinary Team.

Discussion:

The Nez Perce National Forest is managed to do what is best for the land and resources which we hold in trust for the American people. Often those most affected by this management direction are the communities and organizations adjacent to the Forest.

Most Idaho communities and agencies are affected to some degree by activities and management direction of the nearby national forest. One of the most obvious is payment in lieu of taxes (the 25 percent funds) generated from sale or lease of resources, permits, and other income generated on national forest lands. Other effects are wages from the federal work force, income from recreation and tourism, raw material to industry, cooperative agreements between agencies and the Forest Service, and demographic trends which may to some degree be attributable to activities on or condition of national forest lands.

Following are some examples of the effects of management on the Nez Perce National Forest on adjacent communities and agencies in FY 99.

- In FY 99, the Forest employed 382 seasonal and permanent people (compared to 540 in FY 95 and 352 in FY 96) and had a payroll of \$10,405,100 (excluding overtime). Nez Perce National Forest employees bring diversity to local communities. Some are American Indian and Hispanic Americans. Many employees donate their time and talent to a variety of local activities and causes. Nez Perce National Forest employees serve on local governing boards; school, church, and service club committees; and youth sports organizations.
- Payments to Idaho County from the sale of timber, grazing, fees, other income, etc. from the Nez Perce Forest total \$ 666,236.59 in FY 99. Payments to Idaho County from all national forests were \$1,003,248.83; which includes the Bitterroot National Forest (\$39,615.30) and the Clearwater National Forest (\$297,396.94). The majority of funds from the Nez Perce National Forest were from the sale of timber. The following table displays payments (all receipts) to Idaho County from the Nez Perce National Forest since 1988.

Payment to Idaho County From Nez Perce National Forest (all receipts)

Fiscal Year	Nominal Dollars	Constant 1998 Dollars
1999	\$ 666,237	
1998	1,461,044	\$1,461,044
1997	714,852	732,723
1996	1,576,746	1,606,407
1995	1,217,808	1,306,422
1994	3,872,891	4,258,311
1993	2,197,978	2,472,588
1992	2,042,981	2,358,744
1991	1,303,797	1,549,680
1990	1,276,546	1,582,713
1989	1,243,278	1,604,546
1988	995.846	1,339,622

• Primary lumber production facilities in the local area (Idaho, Lewis and Nez Perce counties) depend upon national forest logs for raw materials. For a sawmill to be viable it should maintain a two to three year supply of raw material under contract at all times. The following table shows the uncut volume remaining under contract compared to the volume sold and volume harvested each year since 1987 on the Nez Perce National Forest. Obviously the supply of raw material (volume sold) from the Nez Perce National Forest has declined since 1991. The effect likely could be added dependence on other BLM, State, Nez Perce Tribal, or private timberlands for raw materials.

Remaining Timber Volume Under contract And Timber Volume Harvested and Chargeable Volume Sold (all volume figures are in millions of board feet)

Fiscal Year	Timber Harvest	Timber Sold	Volume Under Contract
1987	89.1	92.6	235.9
1988	72.9	108.5	290.0
1989	99.5	77.6	243.6
1990	93.4	83.2	220.0
1991	72.8	102.6	255.0
1992	81.4	15.6	189.8
1993	69.2	42.4	162.1
1994	89.9	13.0	75.2
1995	38.8	13.9	60.7
1996	38.3	28.1	54.1
1997	19.4	21.6	63.3
1998	29.8	22.4	55.9
1999	14.7	13.8	64.9

- Total expenditures for fiscal year 1999 were \$17,694,000. These expenditures included funds based on annual appropriations to the Nez Perce National Forest by Congress, trust fund limitations, State and Private funding, emergency (flood, disaster, wildfire, and federal highway) allocations, and reimbursed funds. Beside salaries, rent, and other operational expenses, revenues are distributed to local economies through formal contracts (\$718,463) and small purchases (\$390,635).
- The cooperative effort called the Clearwater Basin Elk Habitat Initiative has begun pooling USFS resources and involvement by state, federal, and private entities to help restore local elk herds.
- The Forest provides the setting for a variety of recreation experiences. Over 500,000 recreation visitor days are estimated annually for such uses as camping, viewing scenery, boating, hunting, cross country skiing, snowmobiling, and fishing. The Forest is nationally known for the quality of big game hunting and white water boating. Winter sports and wildlife viewing are also increasing. The effects of these activities contribute to area economies and perhaps even real property values.
- Many rivers and streams on the Nez Perce National Forest flow onto adjacent ownerships. Management activities of watersheds on the Forest may affect water quantity and quality off the Forest. Some of these effects are monitored and reported in the Soil and Water section of this report under item 2h.

Evaluation of Monitoring Results:

The decrease in the quantity of timber offered and sold to industry seems to be one of the most obvious effects of present management of the Forest on adjacent communities and agencies. It has prompted support for turning management, especially timber management, over to the State of Idaho.

ITEM 9: EFFECTS OF OTHER GOVERNMENT AGENCIES' ACTIVITIES ON THE NATIONAL FOREST

Frequency of Measurement: Annually (October 1, 1998 - September 30, 1999)

Reporting Period: Annually

Variability Which Would Initiate Further Evaluation: Unacceptable effects determined by the Forest Interdisciplinary Team.

Monitoring Results:

- State of Montana and State of Idaho (Air Quality): The Forest joined the Montana/North Idaho Airshed Group in 1990. This group's objective is to minimize or prevent impacts from smoke in North Idaho and Western Montana and to meet national ambient air quality standards when conducting prescribed burning. The Airshed Group was effective in meeting the national ambient air quality standards in 1999. The Forest follows daily smoke management advisories provided by the monitoring unit (airshed) administrator and meteorologist.
- State of Idaho Department of Lands (IDL): The agreement of the State of Idaho and federal land management agencies was rewritten in 1996. One of the changes was to make the exchange of resources easier. This agreement remains in effect.

The Nez Perce Forest and Idaho Department of Lands are both covered under a Master Cooperative Fire Protection Agreement, and 1999 Statewide Annual Operating Plan. One of the key features of the current plan is the operation of an Interagency Dispatch Center in Grangeville.

Nez Perce Tribe: The Nez Perce National Forest was one of five forests that signed a one-year experimental Memorandum of Understanding (MOU) with the Nez Perce Tribe in 1998. This particular MOU exempts tribal members from paying campground fees at developed campgrounds, and from forest stay limits when the member is engaged in tribal hunting, fishing, or gathering activities. Forest Service law enforcement has coordinated with Tribal law enforcement to enforce the MOU and to deal with any protests by tribal or non-tribal members.

- □ Idaho Department of Health and Welfare (IDHW) Division of Environmental Quality (DEQ): The Forest coordinated with the Clearwater and Salmon River Basin Advisory Groups. These groups were formed by the State of Idaho primarily to coordinate activities pertaining to Water Quality Limited Streams and the Governor's Bull Trout Recovery Plan. In 1999, the Forest contributed to assessments in the Lower Selway and Middle Salmon/Chamberlain subbasins.
- Idaho Department of Water Resources (IDWR): Under provisions of the Stream Channel Alteration Act, the Forest consulted with the IDWR with respect to activities affecting stream channels. The Department is also involved in administering the Snake River Water Rights Adjudication.
- State of Idaho Outfitters and Guides Licensing Board: Through formal agreement, the Forest Service and the Board coordinate the permit and enforcement process for outfitters and guides providing public services on national forest system lands.
- □ Idaho Department of Fish and Game (IDFG): IDFG works with the Forest in both a collaborative role and a resource advocacy role. Their involvement in FY 99 included:
 - Elk mortality research and incidental wildlife information gathering:
 - Information and support to assessments of TES issues on the Forest;
 - Transplantation of mountain goats into wilderness lands to help maintain population viability;
 - Participation in developing various species conservation assessments and strategies;
 - Input/collaboration to provide updating and winter surveys for elk and bighorn sheep populations,
 - Continuation of the interagency bull trout inventory work in the South Fork Clearwater Subbasin; and
 - High lake baseline surveys to inventory fish populations and physical lake characteristics.

IDFG activities in big game monitoring, research, collaboration in species conservation assessments provide added support and help eliminate duplicated work. Also, IDFG scrutiny of Forest programs may at times complicate and expand the level of detailed planning required to implement management actions.

- □ Idaho Soil Conservation District (ISCD): The ISCD is the lead agency on a meadow restoration project in Red River. The project is located on lands administered by the Idaho Department of Fish and Game and potentially on private lands. The Forest provided technical and administrative assistance on the project in 1999.
- □ Idaho State Historical Preservation Office (SHPO): The Idaho State Historic Preservation Office (SHPO) monitors the Nez Perce National Forest's compliance with Section 106 of the National Historic Preservation Act of 1966. This office reviews all cultural resource reports and site record forms. If a cultural resource is to be impacted by a Forest activity, the impact is mitigated through consultation with SHPO.
- □ <u>Idaho Department of Parks and Recreation</u>: The Forest cooperated in the following grants administered by the State of Idaho.
 - <u>Waterways Improvement Fund</u>: Provide larger toilet facility with changing wings at Spring Bar Boat Ramp.
 - <u>Off-Highway Motorized Vehicle Grants</u>: Centennial Trail reconstruction of 14 miles of ATV trails, providing drainage structures in Florence area.
 - Recreation Trails Program Grants:
 - Rackcliff Trail #702 Reconstruct 2.5 miles of motorized trail.
 - <u>Elk City Wagon Road</u> Provide directional signing along the route.
- □ <u>Idaho Division of Aeronautics</u>: The Division periodically inspects backcountry airstrips on the Forest and remains involved in new proposals and management of backcountry airstrips.
- Idaho Conservation Data Center (ICDC): The Forest cooperates with ICDC in developing conservation strategies and conducting presence/distribution surveys for sensitive plants. ICDC also provides numerous data queries about rare species sightings for biological evaluation. Each year ICDC provides the Forest the State rare element occurrence database. The database simplifies needed data gathering and analysis required during NEPA analyses.
- □ Idaho County and Highway Districts: The Forest works to cooperate on road maintenance with the Highway Districts on selected road sections. Idaho County provides fiscal cooperation with snowmobile funding in support of the snowmobile trail grooming program as well as cooperating with snow plowing services for local Park and Ski and snowmobile programs.

- Idaho County Weed Control: The Forest works in close cooperation with Idaho County Weed Control in the management of noxious weeds and other exotic plants. The Forest and Idaho County Weed Control share resources and skills in implementing an integrated weed program across Idaho County and work together to improve the coordination and integration of weed programs.
- Commissioners appointed the Federal Lands Taskforce to examine alternative ways to manage federal land in Idaho. In July, 1999 the Taskforce concluded their work when they published "New Approaches for Managing Federally Administered Land". In September, 1999, the Land Board appointed the Federal Lands Taskforce Working Group. The Working Group was authorized to develop one or more pilot proposals using the mechanisms outlined in the publication. The pilot proposals are expected to be finalized in FY 2000.
- Idaho County Sheriff's Office (ICSO): The Forest Service provides funding to the ICSO to patrol national forest roads and campgrounds. The ICSO also assists the Forest Service during illegal protest activities on national forest lands by providing personnel and jail facilities as needed. The ICSO provides radio-dispatching service to Forest Service law enforcement officers. The two agencies cooperate in search and rescue missions, and the Forest Service provides available equipment and personnel during other county emergencies, such as fires and flooding. Forest Service law enforcement officers are authorized to assist Idaho County in enforcement of state law violations occurring within the Forest boundary.
- Perce Tribe, as in previous years, assisted the Forest in cultural awareness, recruitment, and training activities. This assistance was of value in helping diversify the workforce and accomplish resource management objectives. The Nez Perce Tribe is sponsoring a young horsemen's program called Appaloosa. This group will concentrate on learning packing skills through an outfitted educational trail ride program. The Forest Service is supporting this activity by teaching packing skills with both Forest and 9 Mile Pack Train teams.
- U.S. Army Corps of Engineers (COE): The COE was consulted on projects involving wetlands and stream channels under provisions of Section 404 of the Clean Water Act.
- Species Act, section 7, informal consultation support and/or concurrence on biological assessments for listed and proposed species on the Forest. In addition, the USFWS provided technical assistance and support in the development of conservation assessments and strategies for several species found on the Nez Perce National Forest. This data will be provided for a statewide repository of information related to wolf, peregrine falcon, bald eagle, grizzly bear, and bull trout recovery efforts. USFWS activities and processes

required by law at times may further complicate and temporarily delay forest activity decision processes.

Bureau of Land Management (BLM): The BLM and Nez Perce National Forest were involved in cooperative cadastral surveys. This was very beneficial to both agencies, with excellent results. An annual coordination meeting takes place. Activities coordinated include timber, range, mining, recreation, and water monitoring.

The Nez Perce Forest and Cottonwood BLM are both covered under a Master Cooperative Fire Protection Agreement, and 1999 Statewide Annual Operating Plan. One of the key features of the current plan is the operation of an Interagency Dispatch Center in Grangeville.

- Bonneville Power Administration (BPA): The Forest has continued working with BPA funds and several agencies and landowners to improve fish habitat, stream channel stability, and riparian conditions. Projects include channel restoration along several miles of Red River that is located on state and private lands, continued restoration work with the Nez Perce Tribe in McComas Meadows, and operation of the sediment trap below the Haysfork gloryhole.
- National Marine Fisheries Service (NMFS): The NMFS provided Endangered Species Act, section 7, informal consultation support and/or concurrence on biological assessments for listed and proposed species on the Forest. In addition, NMFS provided technical assistance and support for the development of several conservation assessments and strategies for Forest species. The Forest continues working with NMFS in the Level 1 consultation process.
- □ Idaho Department of Transportation (DOT): The Nez Perce Forest works with the DOT on certain aspects of managing State Highway 14.
- Federal Highway Administration (FWHA): The Nez Perce Forest works with the FWHA in matters related to the Forest highway program and ERFO (Emergency Repair Federally Owned) Program.
- University of Idaho: Each year the Forest and U of I cooperates on weed management projects and other research opportunities such as McComas Meadows.

D.OTHER MONITORING

This section addresses monitoring information that is not identified as a requirement in the Nez Perce National Forest Plan (Table V-1). The Forest feels this information is important to monitor as part of Forest Plan implementation.

Nez Perce National Forest Accessibility for People with Disabilities.

Discussion:

The Architectural Barriers Act (ABA) of 1968 requires that all public buildings, facilities, and programs funded in whole or part with federal funds be accessible to and usable by physically disabled person. Section 504 of the Rehabilitation Act of 1973, as amended in 1978, states, "No otherwise qualified handicapped individual in the United States, shall solely by reason of his handicap, be excluded from the participating in, be denied the benefits of, or be subject to discrimination under any program or activity conducted by federal financial assistance or by any Executive Agency." The Americans with Disabilities Act (ADA) of 1990 provides standards – even when no federal funds are involved – for addressing discrimination against individuals with disabilities in employment, transportation, telecommunications, and services operated by private entities.

In 1991, the Nez Perce Forest Human Resources Team identified the need to evaluate accessibility of Forest facilities to people with disabilities. In June 1991, a survey was initiated using the newly developed Forest Service accessibility survey tool to determine the accessibility of Forest campgrounds/picnic areas. In addition, the need was identified to evaluate Forest Service facilities. A special emphasis program was created in 1992 to deal with issues concerning people with disabilities. During the initial monitoring stages of facilities we realized the need for TDD (Telecommunication Devices for the Deaf) to allow better communication with our publics. TTDs have been installed in five district offices and the Forest Headquarters. To access these phone lines, use the following phone numbers:

Forest Headquarters (208) 983-2280 Salmon River Ranger District (208) 839-2328 Clearwater Ranger District (208) 983-0696 Moose Creek Ranger District (208) 926-7725 Red River Ranger District (208) 842-2233

General Description of the Different Levels of Accessibility (A Design Guide/Universal Access to Outdoor Recreation)

Accessible/Easy	Moderate	Difficult			
The general level of expected access to elements and spaces integrated into developed recreation sites or portions of sites. These are typically in: urban/rural settings; at sites managed to provide urban/rural recreation experiences; or at sites managed to provide an easy level of accessibility as defined by these guidelines.	integrated into moderately developed recreation sites or portions of sites. These are typically in: roaded natural settings; at sites managed to provide roaded natural recreation experiences; or at sites management to provide	access to elements and spaces integrated into lesser developed recreation sites or potions of sites. These are typically insemi-primitive settings; at sites managed to provide semi-primitive settings; at sites managed to provide semi-primitive recreation experiences;			

Monitoring Results:

Mobility Accessibility by Accessibility Levels

Facility	Easy/Accessible Moderate		Difficult	
Fish Creek Pavilion 1994 100 People	Will accommodate 75 people	Will accommodate an additional 25 people	0	
Fish Creek Campground Sites: 11 total	9 campsites	2 campsites	0	
Blackerby Picnic Area Sites: 2 total	0	2 picnic sites	0	
Castle Creek Campground Sites: 9 total	0	8 campsites	0	
South Fork Campground Sites: 9 total	6 campsites	2 campsites	1 campsite	
Slims Camp Campground	0	0	Accessible at this level*	
Selway Falls Campground	0	0	Accessible at this level*	
Selway Fish Pond	Accessible at this level			
O'Hara Bar Campground Sites: 35	0	5 campsites	10 campsites	
Spring Bar Campground Sites: 17	0	6 campsites	3 campsites	
Allison Creek Picnic Area Sites: 2 total	0	0	1 picnic site	
Wildhorse Campground	0	0	Accessible at this level*	
Florence Cemetery			Accessible at this level*	
McAllister Picnic Area			Accessible at this level*	
Johns Creek Trailhead			Accessible at this level*	
Cougar Creek Trailhead			Accessible at this level*	
Trapper Creek Trailhead			Accessible at this level*	

Facility	Easy/Accessible	Moderate	Difficult
14 Mile Tree Trailhead	Department of Assessment of the		Accessible at this level*
Rocky Bluff Campground	dr at G least till and		Accessible at this level*
Meadow Cr. Campground	Si factofacia		Accessible at this level*
Nelson Creek Campground			Accessible at this level*
Red River Campground			Accessible at this level*
Wild Horse Campground			Accessible at this level*
Johnson Bar Campground			Accessible at this level*
CCC Campground			Accessible at this level*
Sing Lee Campground			Accessible at this level*
Iron Phone Junction			Accessible at this level*
Leggett Creek	100		Accessible at this level*
5-Mile Pond			Accessible at this level*
Slate Creek Ranger District Office	Accessible at this level		
Clearwater Ranger District Office	Accessible at this level		
Nez Perce National Forest Headquarters Office	Accessible at this level		
Red River Ranger District Office	Accessible at this level		
Moose Creek Ranger	Not Accessible at this	Not Accessible at this	Not Accessible at this
District Office	level	level	level
Elk City Ranger District Office	Accessible at this level		Trail

^{*}Depending on weather

Evaluation of Monitoring Results:

Accessibility surveys have been completed at the Supervisor's Office, Clearwater District Office, and Fenn Ranger Station. Physical site transition plans are nearly completed at the Supervisor's Office and Clearwater District Office. By the end of 2001, it is intended that all surveys and most transition plans for our administrative sites will be complete.

The Forest Headquarters and all district offices (except the Moose Creek Ranger District building at Fenn Ranger Station) are accessible to everyone. Moose Creek and Selway Ranger Districts have combined at the historic Fenn Ranger Station and are in the planning stages for providing accessible services there. A preliminary design was completed in 1996 for a new building at the site which would provide accessible offices and visitor services. That project is the number two priority for Capital Improvement funding on the Forest, scheduled for fiscal year 2002.

The number one priority for capital improvement on the Forest is an accessible warehouse at the Grangeville Air Center, which will include office space for the helitack operations, a pilot's lounge, office and shop space for the tanker base manager, and restrooms with showers as well as storage space. Funding for this building will be available in 2000.

A triplex apartment building, our first fully accessible residences for employees, was completed at the Elk City Ranger Station in 1996. An accessible family housing duplex is also planned at the Elk City Ranger Station. It is the Forest's number three priority for Capital Improvement funding, and is scheduled for fiscal year 2003. Plans are on file for renovating a family residence at the Fenn Ranger Station for accessibility and work has begun on conceptual plans for renovating a bunkhouse and a family residence for accessibility at each ranger station. This work is prioritized on the Forest's NFFA work planning/funding list. Renovation will be undertaken when a need arises, or as other funding becomes available, whichever comes first.

Environmental Analysis Accomplishments Related to Timber Monitoring Results:

The following table and discussion summarize Forest Supervisor authority environmental analysis accomplishments between FY 88 and FY 99. Beginning in FY 93, District Ranger authority environmental analysis accomplishments are also included.

Fiscal Year	Number of Decisions	Included Number of Sales	Total Acres Analyzed	Proposed Harvest Acres	Average Harvest Volume (MMBF) per Timber sale	Proposed Harvest Volume (MMBF) ¹
88	3	3	24,400	1,662	9.0	27.0
89	8	15	164,480	5,908	6.8	102.1
90	2	7	38,296	4,677	6.0	42.1
91	3	11	81,964	6,164	8.0	88.5
92	1	1	4,034	351	10.4	10.4
93	4	5	25,716	2,461	4.1	20.5
94	4	35	11,230	319	0.04	1.3
95	9	11	6,730	386	0.4	4.1
96	8	13	11,480	1,160	0.9	12.1
97	4	6	45,775	4,509	3.26	22.3
98	3	3	15,075	4,675	4.44	13.3
99	2	2	4,553	362	1.3	2.6
11 year average	4.25	9.3	36,138	2,720	3.1	28.8
Total	51	112	433,611	32,634		345.8

¹ Proposed harvest volume figures in this table are different than those exhibited on Table 1 because of rounding off of numbers.

Two new timber related decisions signed in FY 99 included 2021 Project (Clearwater Ranger District) and Elkard/Peterson Blowdown Salvage (Moose Creek Ranger District)

Evaluation of Monitoring Results:

Many National Environmental Policy Act (NEPA) documents require more than one year to complete. This results in high variability from year to year with respect to the number of decisions and acres analyzed. During the year, analysis was ongoing for three other timber related NEPA documents.

As of the end of FY 99 (12 years since the Forest Plan went into effect), the Forest had completed site-specific analysis of 48 percent of the total suitable land base of 911,669 acres.

Noxious Weed Management

Noxious weeds and invasive exotic plants are a rising concern on federal land across he western states. Many invasive exotics can invade healthy ecosystems, displace native vegetation, effect species diversity and wildlife habitat. Wide spread infestations may lead to soil erosion, reduce quality of recreation for visitors and threaten the long term viability of rare plants. Invasive exotics have been identified as a major threat to our native biodiversity.

The Nez Perce National Forest continues to implement a proactive management program for noxious weeds. The program is an integrated approach to managing the weeds on the Forest and includes: education/awareness, inventory, prevention/early detection, treatment and monitoring.

Management priorities for the Nez Perce are: 1) to prevent the establishment of potential invaders; 2) the eradication of new invading noxious weeds; 3) the control of satellite infestations including the treatment of transportation corridors and areas of concentrated human activities; and 4) the containment of large established infestations.

The noxious weeds of great concern on the Forest continue to be dyer's woad, rush skeletonweed, yellow starthistle, diffuse knapweed, Russian knapweed, toothed spurge, leafy spurge, sulfur cinquefoil, spotted knapweed, Scotch thistle, orange and yellow hawkweed, and common crupina.

The Forest Service across Idaho restricted the use of hay and feed to only those products that were certified weed seed free or weed free, as part of a statewide prevention program. The Forest continued to work with Idaho County to ensure that a local supply of certified products was available. Machinery and equipment are washed as part of timber sales and equipment contracts to prevent the spread of weed seed.

During the FY 99 season, district and forest personnel have worked with many user groups and interested parties in the identification and risks of invasive exotic plants. District personnel lead field trips to review infestation and risk levels in sensitive areas such as wilderness and wild and scenic rivers. Displays were set up at the Idaho County Fair and Idaho Horse Expo to educate forest users of the risks of weed invasions. Fifteen road signs were established on main portals to alert users of the need for certified hay. Many user groups were contacted to discuss the risk of weed invasion to their interest areas. The Nez Perce National Forest and Idaho County organized and conducted a noxious weed tour for representatives from the Department of Agriculture (Washington DC). The tour included congressional staff, congressional committee staff, federal and state agencies, conservation organizations and private landowners.

Each district has a noxious weed coordinator who directs inventory, control, and monitoring activities. Noxious weeds were addressed in analyses for ground disturbing or habitat altering activities. Weed susceptibility was modeled in watershed and Subbasin assessments.

The Forest used a variety of tools to treat approximately 1,250 acres, during the 1999 field seasons. Weeds were treated by the release of biological control agents (4,000 insects over 22 sites), manual pulling of isolated infestations, mowing, seeding of disturbed sites, and herbicides. Volunteer groups were active in manual control of spotted knapweed along the beaches of the Wild and Scenic sections of the Salmon River. Bio-control insects were released as treatment for yellow starthistle, spotted knapweed, Canada thistle, and goatweed. The treatments are consistent with the estimated level outlined in the Forest Plan.

The Forest is involved in the implementation of the Salmon River Weed Management Area. The management area encompasses 500,000 acres in the lower Salmon River Canyon where a collaborative plan has been developed between Idaho County, private landowners, and federal and state land management agencies. The intent of the weed management area is to bring together those responsible for weed management within the Salmon River drainage, to develop common management objectives, facilitate effective treatment and coordinate efforts along logical geographic boundaries with similar land types, use patterns and problem species. The result of this effort is the integration of the Forest weed program with the county and state efforts.

A similar effort is ongoing in the Clearwater River Basin. The Forest is part of a coordinating committee of county, federal, state, and private representatives. The committee was established to coordinate weed management activities across the entire Clearwater basin. The committee finalized the strategic weed management plan for the Clearwater basin. The plan will require the cooperators to realign their individual weed management priorities to accomplish basin priorities and to ensure that the work is coordinated across the watershed. The Forest program in the Clearwater drainage will become increasingly integrated with the county, state, and other federal agency efforts.

The Forest was involved in the planning of weed treatments in the Frank Church River of No Return Wilderness. An environmental impact statement and weed treatment decision were completed in the summer of 1999, with treatment beginning in FY 2000.

The Forest received grants for cooperative weed management from the National Fish and Wildlife Foundation and from the Chief's Natural Resource Agenda Program. These funds were used in the Salmon River canyon as part of the coordinated partnership. Many of the funds were used across property lines to treat and manage high priority weeds, such as yellow starthistle and rush skeletonweed, important to the partnership.

The Forest, working with the University of Idaho, Forest Health Protection Group, and Clearwater National Forest, co-developed a field guide for the management and monitoring of biocontrol agent for yellow starthistle. This work includes the distribution, release and monitoring of five different insects that have been approved for release. It also incorporates vegetation monitoring as part of the management of the release sites. The results of the fieldwork will be a protocol guide edited and published through the University of Idaho. The guide was published in the summer of 1999.

RESEARCH NEEDS

The following research needs have been identified during implementation of the Forest Plan. The will be recommended to the Regional Forester for inclusion in the Regional research program proposal

1. The Elk Guidelines Habitat Suitability Index (HSI) model represents a composite of factors and variables affecting elk behavior from all over the west. There is a need for cooperative research to help refine the Northern Idaho Elk Guidelines H.S.I. Model so variables characteristic of Northern Idaho will be more properly represented and the model better tailored to local conditions.

An interagency team of elk habitat technical specialist comprised of Status: biologists from Idaho Department of Fish and Game, Nez Perce and Clearwater National Forests, and the Nez Perce Tribe, organized through the "Venture 20" effort, have completed a technical review and proposed edits/improvements to the existing Guidelines for Evaluating and Managing Summer elk habitat in Northern A draft of this updated proposal titled, "Interagency Idaho (Leege 1984). Guidelines for Evaluating and Managing Elk Habitats and Populations in Central Idaho" (Servheen, 1997; Wildlife Bulletin No. 11) was prepared. The 1997 draft proposal resulted in adjustments to the 1984 model, including: removal of the security area variable, incorporation of trails into access calculations, addition of elk vulnerability model, and other less significant changes. interdisciplinary review of these draft 1997 updates to the 1984 model resulted in the preliminary conclusion that a significant Forest Plan amendment may be Rationale behind this preliminary required prior to forest-wide application. conclusion included the following:

- a. Replacing the Nez Perce Forest Plan's Appendix B implies a change to Forest Plan direction.
- b. Cumulative effects of implementing the 1997 version have not been evaluated or publicly displayed.
- c. Elk and elk habitat management are significant public issues on the Forest.
- d. Public input from recreation, hunting, and motorized user publics relative to the 1997 changes have not been solicited or reviewed.
- e. The 1984 elk model in Appendix B of the Forest Plan did not address application of an elk vulnerability model. Site-specific incorporation and adoption of the 1997 adjustments to the 1984 elk model will be encouraged for application on a site-by-site basis following appropriate NEPA, but Forest-wide application of the 1997 version will require incorporation into the Forest Plan

Revision Process. <u>1999 Update:</u> The Forest Plan Revision process has not formally been initiated with a Notice of Intent to do the EIS as of this date.

- 2. Moose winter range questions need to be addressed:
 - What silvicultural system best maintains the yew component in the grand fir/pacific yew association?
 - How can fuels be managed and still retain Pacific yew?
 - What is the optimum spatial arrangement of yew throughout the Forest?
 - What is the optimum stand size for yew?
 - How many acres of the grand fir/Pacific yew association exist on the Forest?
 - Does the Forest Plan adequately address the definition and protection of key moose winter habitat that has no Pacific yew component?
 - 1999 Update: With dramatic changes in both the extent and methodologies of timber harvesting used on national forests throughout the U.S. in recent years, most of the questions and concerns pertaining to maintenance of moose/yew habitats have disappeared. Due to these dramatic changes, the driving need to answer these questions has fallen in priority and no research is currently pending to address these issues at this time.
- 3. The <u>consequences of repeated burning</u>, and of maintenance of Forest ecosystems in prolonged seral brush stages, need to be evaluated. <u>1999 Update</u>: Dramatic shifts in forest management philosophy and recognition of soil maintenance needs as well as the practices of managing to emulate "natural disturbance regimes" and "historical ranges of variability" have begun to replace outdated approaches aimed at maintaining seral brush stages on a given site indefinitely. For this reason, the practice of repeated intensive burning for such purposes is used less and as a result, levels of concern over this practice are declining. No research is pending at this time.
- 4. Determine the relative effectiveness of <u>fertilization compared to burning</u> for improving wildlife habitat. <u>1999 Update:</u> Fertilization costs versus those of prescription burning are comparatively high. Dramatic reductions in appropriated funds and other revenue sources in recent years have placed greater emphasis on cost-effectiveness of land treatments. For this reason, the practicality of using fertilization as an economical approach to habitat improvement has virtually been eliminated. No research is planned or pending at this time.
- 5. Determine and define <u>corridor attributes needed to link old growth stands</u>. <u>1999</u> <u>Update:</u> Dramatic changes in forest management philosophy and practices in recent years have virtually eliminated the application of broad-scale clear-cut and burn treatments which tend to isolate forest stands and fragment overall

landscape conditions. Current philosophy emphasizes consideration for maintaining and increasing late-seral forest conditions and arrangement of habitats including connectivity and habitat continuity, such that the need to link old growth stands is fast becoming a declining issue in forest issues of the future. For this reason, no research is planned or pending at the local scale at this time.

- 6. Natural stand dynamics and disturbance regimes for riparian habitat types are poorly described. Silviculturists need to be able to predict effects of timber management on stand regeneration, competition, future stand composition, and insect and disease patters, as well as factors affecting riparian and stream function including shading, bank stability, and large woody debris inputs. Methods need to be developed to monitor the effects of timber harvest and other activities on riparian areas. 1999 update: These research needs are being addressed to some degree with local investigations of patterns of fire and modeled watershed response in the Selway River Subbasin (see accomplishment section). Work on the Bitterroot Ecosystem Management Project is being done that may also address these issues, but research findings may need local calibration.
- 7. <u>Habitat relationships and limiting factors for most sensitive and federally listed species</u> (plant and animal) are poorly understood. Research is needed to better define critical habitat components for these species and risk posed by Forest management activities.

Accomplishment Status: Minimal research on habitat relationships of sensitive and federally listed plants has occurred over the last few years. Progress is slow because the research must be conducted across multiple forests and agencies. Idaho Conservation Data Center has began modeling potential habitat for a few rare plants in Idaho. There is opportunity in the near future for National Forests to fund work on habitat relationships of rare plants.

- 8. Watershed and reach response to natural fire disturbance and rates of recovery are not well described in watershed models currently in use. Research is needed to describe debris torrent and water yield effects on channel attributes, and watershed recovery rates in terms of temperature, sediment and substrate condition, and channel morphology. 1999 update: these remain critical unmet research needs. Forest level studies have been in place since the 1988 fires and provide some information.
- 9. There is a lack of published data concerning the <u>effects of operating a suction dredge in streams occupied by threatened, endangered, and sensitive aquatic species.</u> The Forest is in the process of completing analysis of four non-recreational suction dredge proposals, which will result in an increased understanding of the effects of these activities on aquatic species. Additionally, these analyses will assist in the identification of the specific research and monitoring needs that will contribute to increased understanding of this relationship.

10. An accurate way of <u>quantifying the short-term and long-term effects of road decommissioning on sediment production</u> needs to be developed. 1999 update: Research coordinated by the Rocky Mountain Research Station has been proposed in Horse Creek to evaluate the effects of road decommissioning on sediment production, channel morphology, water yield and stream macroinvertebrate populations. NEPA analysis is scheduled for 2001 and decommissioning for 2002, with sampling through 2005. Other road decommissioning projects are being monitored at the forest level for changes in stream cross-sections and substrate above and below restored stream crossings.

Accomplishment of Research Needs

Riparian Disturbance Regimes: In 1995-1997 detailed fire history mapping and field sampling occurred in the wilderness portion of the Selway River basin. These data are being analyzed to characterize natural fire disturbance patters in riparian areas at watershed and reach scales. 1999 update: This research has described watershed scale patterns of fire disturbance and sediment and water yield response, but no long-term field sampling has been done. Analysis scheduled for 2000-2001 will investigate reach level patterns of fire disturbance in reaches stratified by fish habitat potential and reach response units.

PLAN AMENDMENTS

Amending the Nez Perce National Forest Plan is a normal process of improving our ability to care for the land. The need to amend the Plan was anticipated at the outset. Twenty-five amendments and one revised amendment have been issued.

Following are summaries of those amendments made to date. A copy of any amendment(s) can be obtained by contacting the Nez Perce National Forest's Supervisor's Office.

Amendment #1:

Clarifies our intent to protect potential Wild and Scenic Rivers upon their inclusion into the National Wild and Scenic Rivers system, by providing more detailed forest-wide standards.

Proposed changes in the management standards were developed following guidance contained in the Wild and Scenic River Evaluation section of the Forest Service Land and Resource Management Planning Handbook (FSH 1909.12, Chapter 8). [10/88]

Amendment #1 (REVISED):

Revised Forest Plan Amendment #1 is exactly the same as the original amendment except that the following statement has been removed. The amendment was necessary to settle and appeal of Amendment #1. [1/91]

"Boundaries may include adjacent areas needed to protect the resources or facilitate management of the river corridor."

Amendment #2:

Clarifies the Forest's definition and management of motorized recreation on the Nez Perce National Forest. [10/88]

Amendment #3:

Modifies standards listed in Chapter II (Forest-wide Management Direction) and Chapter III (Management Area Direction). Clarification is provided in changes to the minerals section of Chapter VI (Summary of the Analysis of the Management Situation) and the glossary and monitoring items.

The specific standards modified are those relating to minerals, wildlife, fish, and riparian area management; and to provide clarification that will not alter the multiple use goals and objectives as identified in the Forest Plan.

The need for changes and clarification in management standards was the result of negotiations with the Independent Miners Association's appeal of the Nez Perce National Forest Plan. An interdisciplinary team developed the settlement agreement that addressed then appellant's concerns and a proposal for correcting the Plan. [3/89]

Amendment #4:

Modifies standards listed in Chapter II (Forest-wide Management Direction), modifies the visual resource standards in Chapter III (Management Area Direction), and modifies specific monitoring requirements in Forest Plan Appendix O dealing with visual resource management.

The need for changes and clarification in management standards was the result of environmental analysis of proposed timber sales and road construction in the Wing Creek-Twentymile area. During the comment period of the Wing Creek-Twentymile Draft Environmental Impact Statement, concern was expressed on conflicting Forest Plan language pertaining to visual resource management. An interdisciplinary team was used to analyze the concerns and develop a proposal for correcting the Forest Plan. [3/89]

Amendment #5:

Corrects errors displayed in the Nez Perce National Forest Plan Appendix A, Forest Fishery/Water Quality Direction by Prescription Watershed. These objectives provide management direction in terms of the maximum estimated increase in sediment over baseline conditions that can be approached or equaled for a specific number of years per decade.

Some of the changes are planning errors made in identifying sediment yield and entry frequency guidelines. Site-specific analysis and stream surveys have also revealed that some streams were incorrectly identified as not supporting anadromous fish. The errors were identified through environmental analysis of proposed timber sales and road construction. An interdisciplinary team was used in identifying the needed changes and proposing the corrections. [3/89]

Amendment #6:

Corrects errors in Forest Plan Chapter II (Forest-wide Management Direction), Chapter III (Management Area Direction), Chapter V (Implementation), Chapter VII (Glossary), and Appendix A (Fishery/Water Quality Direction).

The corrections made in this Forest Plan amendment provide clarification that will not alter the multiple use goals and objectives as identified in the Forest Plan.

An error was identified through environmental analysis of a proposed timber sale and associated road construction and habitat improvement project. Forest Plan Appendix

A describes current fishery habitat quality in the West Fork of Red River (Prescription Watershed 17060305-04-18) as 50 percent of potential habitat quality. The West Fork of Red River is in a pristine natural condition. This watershed is roadless and no management activities are known to have occurred in either the watershed or the stream. The stream is, therefore, in a pristine, natural condition and it is appropriate to display it at 100 percent of potential habitat quality.

The Forest Interdisciplinary Monitoring Team identified additional typographical errors in the Forest Plan. This Forest Plan amendment includes the correction of those errors. [7/89]

Amendment #7:

Clarifies language founding the following sections:

Chapter II (Forest-wide Management Direction)

Chapter V (Implementation)

Chapter VI (Summary of the Analysis of the Management Situation)

Appendix O (Forest Plan Monitoring)

The specific items modified provide clarification that will not alter the multiple use goals and objectives as identified in the Forest Plan.

The need for changes and clarification in management standards was the result of negotiations with the Nez Perce Indian Tribe on their appeal of the Nez Perce National Forest Plan. An interdisciplinary team was used in developing the settlement agreement that addressed the appellant's concerns and developed a proposal for correcting the Forest Plan. [1/90]

Amendment #8:

The purpose of the Forest Plan Amendment #8 is to clarify language in Appendix O (Forest Plan Monitoring Requirements).

During this past year the Forest Interdisciplinary Monitoring and Evaluation Team identified some items in the Forest Plan Monitoring Requirements Appendix that need correction or clarification.

These items focus on fish and wildlife monitoring. Specifically, the changes relate to forage production, wildlife population trends, and fisheries/watershed monitoring station costs.

The corrections made in this Forest Plan amendment provide clarification that will not alter the multiple use goals and objectives as identified in the Forest Plan. [1/89]

Amendments #9 and #10:

These amendments deal with management practices specific to the Cove and Mallard Timber sales as described in the Final Environmental Impact Statements for those sales. Amendment No. 9 was formally adopted in the Mallard Record of Decision, and Amendment No. 10 was formally adopted in the Cove Record of Decision. Both of these amendments correct oversights in the Forest Plan.

These two amendments apply only to the timber sales analyzed in the Cove and Mallard Environmental Impact Statements. They do not apply to other timber sales on the Forest.

The two amendments will allow clear-cutting and sanitation/salvage harvesting within Management Areas 12 and 17. (11/90)

Amendment #11:

Forest Plan Amendment No. 11 makes adjustments in the Forest-wide moniforing program and updates the fish/water quality objectives in Appendix A to the Plan. The Forest Interdisciplinary Monitoring Team in the Nez Perce National Forest Monitoring and Evaluation Report recommended the changes in the monitoring program for Fiscal Year 1989; the objective was to make the program more comprehensive. The revised fish/water quality objectives are based on recent stream surveys. Specific changes in both the monitoring program and the fish/water quality objectives are listed in the Decision Memo for Amendment No 11. (1/91)

Amendment #12:

Amendment 12 makes minor changes to the Wall Creek Municipal Watershed direction (Management Area 22) contained in the Nez Perce Forest Plan. These changes relate to improving the range of management practices identified in the Forest Plan, and specifically to items such as notifying the water district if a fire occurs in the watershed and taking special precautions with machinery and chemicals. (2/91)

Amendment #13:

Amendment 13 brings the Plan into compliance with legal requirements and Forest Service directives dealing with animal damage control. It should be noted that the amendment does not authorize any specific projects. (4/91)

Amendment #14:

This (3/91) amendment would partition the allowable sale quantity (ASQ) by separately showing the ASQ that came from inventoried Roadless areas and roaded areas. Thirteen Forest Plans in the Northern Region were amended. The decision was appealed to the Chief of the Forest Service who affirmed the decision. The Secretary of Agriculture opted to review the Chief's appeal decision and reversed the

decision in October 1991, thereby vacating and voiding Amendment 14 of the Nez Perce Forest Plan.

Amendment #15:

Amendment 15 amends the Frank Church-River of No Return Wilderness Management Plan and the Forest and Land Management Plans for the Bitterroot, Boise, Challis, Payette, Nez Perce, and Salmon National Forests.

The amendment changes wording in the Wilderness Management Plan related to reducing the storage of items and removal of plumbing fixtures from the wilderness. The amendment only modifies the schedule of implementation. (6/91)

Amendment #16:

Amendment 16 adopts programmatic changes in management direction for the Selway-Bitterroot Wilderness. These changes should enable wilderness managers to better meet both the letter and the intent of the Wilderness Act. (2/92)

Amendment #17:

Amendment 17 allows salvage timber harvest within Management Area 20 (old growth wildlife habitat) following the Scott Fire. Analysis showed that salvage harvest would help to speed up the achievement of old-growth vegetative characteristics in the burned area. This amendment is specific to the Scott Fire salvage sale and will not apply to other areas on the Forest. (4/93)

Amendment #18:

Amendment 18 brings the Forest Plan into compliance with a court order that addresses outfitter and guide operations in the Frank Church-River of No Return Wilderness. (7/94)

Amendment #19:

Amendment 19 adds more specific management direction for vegetation in the Selway-Bitterroot Wilderness General Management Direction. It establishes goals, objectives, standards and guides, and monitoring elements for vegetation within ecosystem management principles. It addresses such issues as: noxious weeds, rare plant protection, vegetative diversity, and management of pack and saddle stock. (2/95) [Note: Based on negotiations with appellants, the decision was rescinded in May 1995. A new amendment/decision, which provides additional clarification, is expected in FY 95.]

Amendment #20:

The Nez Perce Forest Plan was amended by the Chief of the Forest Service to incorporate an interim strategy for managing anadromous fish producing watersheds (PACFISH). (2/95)

Amendment #21:

This was a project specific amendment based on the analysis contained in the Hungry-Mill Final Environmental Impact Statement. The amendment changed the summer elk habitat potential objective from 50 percent to 25 percent on 2,838 acres within the Hungry-Mill analysis area. (3/97)

Amendment #22:

This was a project specific amendment based on the analysis contained in the Berg Timber Sale Environmental Analysis. The amendment allows timber harvest within Management Area 20 (old-growth wildlife habitat) in order to improve and maintain the long-term sustainability of the ponderosa pine communities in designated areas of the Berg Timber Sale. The amendment is only valid for the contract life of the timber sale and does not apply to future actions in this area or elsewhere on the Forest. (1/97)

Amendment #23:

This amendment corrects summer elk analysis units and objectives that were mismatched in the original Forest Plan. (7/97)

Amendment #24:

This was a project specific amendment based on the analysis contained in the Hungry-Mill Final Environmental Impact Statement. The amendment updated Forest Plan Appendix A information for several watersheds in the Hungry-Mill analysis area to account for new information on the species of fish that exist in these watersheds. (8/97) The amendment was challenged in court and subsequently withdrawn in (5/98)

Amendment #25:

This was a project specific amendment based on the analysis contained in the Middle Fork Final Environmental Impact statement. The amendment updated forest Plan Appendix A information for three watersheds in the Middle Fork analysis area to account for new information on the species of fish that exist in these watersheds. (10/97)

Amendment #26:

This was project specific amendment based on the analysis contained in the Middle Fork Final Environmental Impact Statement. The amendment allows timber harvest within Management Area 20 (old-growth wildlife habitat) in order to improve and maintain the long-term sustainability of the ponderosa pine communities in unit F Middle Fork Timber Sale. The amendment is only valid for the contract life of the timber sale and does not apply to future actions in this area or elsewhere on the Forest. (10/97)

LIST OF PREPARERS

The following individuals contributed to the development of the Monitoring and Evaluation Report for the Nez Perce National Forest for fiscal year 1999. Members of the Forest Interdisciplinary Monitoring Team are **highlighted in bold type.**

Name	Area of Expertise
Nick Gerhardt	Hydrology and Watershed
Mike McGee/Raenette Didier	Timber
Leonard Lake	Range, Botany, and Noxious Weeds
Raenette Didier	Minerals
Kris Hazelbaker	Silviculture, Insects, and Disease
Dave Green	Economics
Dave Johnson	Budget and Finance
Randy Borniger, Laurie Doman	Recreation, Wilderness, Trails
Bruce Anderson	Rivers
Cindy Schacher	Heritage Resources
Steve Harbert	Fire and Air
Pat Green	Ecology and Soils
Dick Artley	Land Management Planning
Steve Blair	Wildlife
Scott Russell	Fisheries
Joe Bonn	Facilities
Kathie Snodgrass	Disabled Persons Access
Daryl Mullinix and Jennifer Stephenson	Lands and Special Uses
Monica McGee	Technical Support
Laura Smith	Public Affairs

The following monitoring program coordinators coordinated district review of the draft report. The district review involved appropriate staff and resource specialists.

Bill Shields	Salmon River Ranger District	
David Harper	Clearwater Ranger District	
Heather Berg	Moose Creek Ranger District	
Gene DeLimata	Elk City Ranger District	

In addition, the following individuals reviewed the report:

Bruce Bernhardt	Forest Supervisor
Ihor Mereszczak	Ecosystem Planning & Operations Staff Officer
Michael Cook	Lands, Admin, Trails, Engineering, & Recreation Staff Officer
Byron Bonney	Fire Staff Officer
Phil Jahn	Heritage, Watershed, Ecology, and Biology Staff Officer
Laura Smith	Public Affairs Officer
Randy Doman	Deputy Fire Staff Officer
Jack Carlson	District Ranger, Salmon River Ranger District
Darcy Pederson	District Ranger, Clearwater Ranger District
Joe Hudson	District Ranger, Moose Creek Ranger District
Kevin Martin	District Ranger, Red River Ranger District

APPROVAL

I have reviewed the annual Forest Plan Monitoring and Evaluation Report for Fiscal Year 1999 for the Nez Perce National Forest that was prepared by the Forest Interdisciplinary Team. I am satisfied that the Monitoring and Evaluation effort meets the intent of both the Forest Plan (Chapter V) and 36 CFR 219. I have also considered the recommendations of the Interdisciplinary and Leadership Teams on proposed changes to the Forest Plan and will process the necessary Amendments after appropriate notification.

This report is approved:

BRUCE E. BERNHARDT

Forest Supervisor

APPENDIX

Status of Action Items Identified in Prior Years

The action items shown below were identified between Fiscal Years 1988-1998. The current status of action to resolve these concerns is summarized below. Action items with an "incomplete" or "ongoing" status will be included in next year's report, together with an update of the resolution status. Actions items that are "complete" or "resolved" will not be repeated in future reports.

ACTION ITEM RELATED TO TIMBER	
Item #1	Continue to maintain expertise for the remeasurement of permanent growth plots. The data from such plots will be used to help develop yield tables in the revised Forest Plan.
Fiscal Year when Action Item identified:	Fiscal Year '95
Current Status:	Ongoing
Discussion:	Progress is occurring as funding and personnel permit. This task remains a high priority on the Forest. The Regional Office is currently evaluating permanent plots region-wide to determine which should have continued measurement and which should not. This should reduce costs and duplication.

ACTION ITEMS RELATED TO WILDLIFE	
Item #1	The Forest needs to determine how fire or silvicultural prescriptions might be used to protect designated old growth from stand replacing fire.
Fiscal Year when Action Item identified:	Fiscal Year '93
Current Status:	Ongoing
Discussion:	Appendix F, Old Growth, in the So. Fk. Clearwater River Landscape Assessment speaks directly to the old growth protection issue. Several management themes were developed in the assessment to meet ecosystem management objectives including old growth protection and maintenance in various habitat types. The answers to this question will only emerge from trials and longer term monitoring.

ACTION ITEMS RELATED TO WILDLIFE	
Item #2	Concise snag identification and marking directions to timber marking crews must be included in marking guidelines. Consistent timber sale contract clauses (which do not contradict each other) are needed to help retain snags and trees for replacement snags.
Fiscal Year when Action Item identified:	Fiscal Year '93
Current Status:	Ongoing
Discussion:	Resolution of this issue will require greater attention and involvement by biologists and timber markers in the future. Site-specific decision-making involving reduction of safety hazards will often have to weigh competing values.
Item #3	The Forest needs to continue to discuss with the Nez Perce Tribe alternatives to prescribed fire in achieving big game winter range improvements.
Fiscal Year when Action Item identified:	Fiscal Years '93, '94, and '95
Current Status:	Ongoing
Discussion:	The natural fuels/hazardous fuels reduction program exceeded the Forest Plan projected output of 6,265 acres for 1998 to 2007 period by accomplishing 7,032 acres this year. This also met our MAR target of 6,085 acres. Current hazardous fuels accomplishment by prescribed burning meets a number of ecosystem management objectives including big game winter range improvements.
	Fuel treatment from all funding sources increased by 32 percent over 1997, the second year of program increase. Rocky Mountain Elk Foundation contributed funding to prescribed burning projects. The trend of accomplishments over the last three years shows improvement in meeting Forest Plan projected outputs.
	An Interdisciplinary Team established for the Salmon River Canyon Project continued an interagency and multi-forest effort to increase fire use in support of ecosystem management. This large planning effort will increase the number of acres treated by prescribed burning.

ACTION ITEMS RELATED TO WILDLIFE		
Item #4	Fisher/pine martin transects need to have consistent annual readings to produce more useful data.	
Fiscal Year when Action Item identified:	Fiscal Years '93, '94, and '95	
Current Status:	Incomplete	
Discussion:	In FY 96, consistent annual readings of winter track count transects were precluded by erosion of funding, Budget priorities (such as Neotropical migratory bird monitoring) and a reduction in available personnel contributed to this weakness. The need to monitor fisher populations is greater than for pine marten. This is due to the scarcity and difficulty in monitoring the fisher versus the relative abundance of pine marten track sign. In FY '99, budget shortages and other priority work pre-empted making much progress in resolution of this issue.	
Item #5	The Forest should reinitiate Pileated woodpecker surveys with an increase in both sample size and regularity in order to improve data reliability.	
Fiscal Year when Action Item identified:	Fiscal Year '95	
Current Status:	Incomplete	
Discussion:	Work dependant on funding and personnel availability.	
Item #6	As funding permits, the Forest should gather management data to better describe preferred moose winter range characteristics.	
Fiscal Year when Action Item identified:	Fiscal Year '94	
Current Status:	Incomplete	
Discussion:	Reductions in available budgets along with shifting priorities and reduced staff time continue to reduce the Forest's ability to clarify and better describe moose winter range characteristics. The forest-wide yew wood inventory (from FY 93) remains available for review and to assist in conflict resolution when and if funding and personnel resources can be diverted to the task.	

ACTION ITEMS RELATED TO WILDLIFE	
Item #7	The Forest needs to concentrate on completing more accurate inventories of snags before and after timber harvest.
Fiscal Year when Action Item identified:	Fiscal Year '95
Current Status:	Ongoing
Discussion:	Work remains dependent on greater funding and personnel availability.

ACTION ITEMS RELATED TO RECREATION	
Item #1	Develop criteria for evaluating impacts of off-highway vehicle (OHV) use. Determine what is unacceptable change on a transportation system or land base as a result of these uses and user types.
Fiscal Year when Action Item identified:	Fiscal Years '89-91, '94, and '95
Current Status:	Not completed
Discussion:	Continued lack of funding and the low priority assigned to this task compared with other recreation related work has resulted in very little work in this area. The development of a systematic method to monitor off-road motor vehicle (ORV) use and impacts has not been a; top priority on the Forest. As a result, specific instances of detrimental effects of ORV use continue to be handled on a case-by-case basis. Recreation, particularly motorized recreation, continues to be used as a principle mitigator for timber harvest. This is having significant effects on the long-term potential for recreation use and opportunities on the Forest.
Item #2	Implement the national system called Infrastructure, which will be used to improve the gathering and documentation of visitor use information.
Fiscal Year when Action Item identified:	Fiscal Year '94 and '95.
Current Status:	Ongoing

ACTION ITEMS RELATED TO RECREATION	
Discussion:	The Nez Perce Forest has replaced the Recreation Infrastructure with Meaningful Measures. This is an ongoing database that will show what is needed to maintain the Forest's recreation and trail program.
Item #3	Review and revise recreation opportunity spectrum (ROS) forest-wide, incorporate ROS analysis into all environmental analyses and develop a mechanism for updating ROS acreages in the database.
Fiscal Year when Action Item identified:	Fiscal Year '94 and '95.
Current Status:	Incomplete
Discussion:	The review, revision and acreage updating of the Recreation Opportunity Spectrum (ROS) forest-wide was submitted as a projected proposal for ecosystem management funding. It was the third priority project submitted for recreation and was not funded.
Item #4	Establish a system of measurements for more precise monitoring of sites eligible to the National Register of Historic Places.
Fiscal Year when Action Item identified:	Fiscal Year '94 and '95.
Current Status:	Ongoing
Discussion:	In accordance with the Region One Programmatic Agreement with the Idaho State Historic Preservation Officer, National Register of Historic Places (NRHP) eligible sites are currently being monitored before, during and after the implementation of specific projects. This monitoring documents any site changes which may have occurred due to potential project related impacts, vandalism, or the forces of nature.
Item #5	Continue to replace substandard signs in the wilderness.
Fiscal Year when Action Item identified:	Fiscal Year '94.
Current Status:	Ongoing
Discussion:	The Forest is continuing to replace substandard signs in wilderness as funding levels allow.

ACTION ITEMS RELATED TO RECREATION	
Item #6	The Middle Fork of the Clearwater River Management Plan needs to be updated and the administration of scenic easements needs more emphasis.
Fiscal Year when Action Item identified:	Fiscal Years '94 and '95.
Current Status:	Incomplete
Discussion:	There continues to be a need to update the Middle Fork of the Clearwater River Management Plan. A shared Scenic Easement Administrator position was established between the Nez Perce and Clearwater National Forests to provide consistent Wild & Scenic River easement administration on the Selway, Moose Creek and Lochsa Ranger Districts.
Item #7	Formally adopt a new "roaded modified" Recreation Opportunity Spectrum (ROS) class for the Forest.
Fiscal Year when Action Item identified:	Fiscal Year '95.
Current Status:	Ongoing
Discussion:	Work continues in this area as funding allows.

ACTIO	ACTION ITEMS RELATED TO FISHERIES	
Item #1	Fish and water quality objectives for the South Fork of Clear Creek should be consistent with objectives for similar Chinook habitat on the Forest. Also, one-half mile of stream in the Clear Creek drainage does not have an assigned water quality objective.	
Fiscal Year when Action Item identified:	Fiscal Year '90	
Current Status:	Incomplete	
Discussion:	This situation will be corrected through the Forest Plan amendment process. Other higher priority work has delayed progress on this amendment. Given recent budget reductions and the pending Forest Plan revision work already underway, it is unlikely that an amendment will be made before the revised Plan is complete.	

ACTION ITEMS RELATED TO FISHERIES		
Item #2	Monitoring of fish habitat condition needs to be adequately funded, staffed and given a higher priority for accomplishment.	
Fiscal Year when Action Item identified:	Fiscal Years '93 and '94	
Current Status:	Ongoing	
Discussion:	In FY 2000, the Forest will complete a workforce analysis in order to prioritize the work and match with existing and projected skills.	

ACTION ITEMS RELATED TO SOIL AND WATER	
Item #1	Additional work is needed to improve the quality of placer mining operations in some cases. The lack of specific mandatory "best management practices" is a limitation in achieving this.
Fiscal Year when Action Item identified:	Fiscal Year '94
Current Status:	Ongoing
Discussion:	Work continues as funding and personnel permit.
Item #2	Continued development of the NEZSED model and improvements in the reliability of observed sediment yield estimates are needed to improve future land management decisions.
Fiscal Year when Action Item identified:	Fiscal Year '94
Current Status:	Ongoing
Discussion:	The Forest is involved in efforts at the regional and national levels to assess and update sediment-modeling technology.
Item #3	To maintain soil productivity, water quality and maintain viable populations of native species, increased emphasis needs to be given to accomplishing integrated landscape and site-specific assessments.
Fiscal Years when Action Item identified:	Fiscal Years '93 and '94

ACTION ITEMS RELATED TO SOIL AND WATER		
Current Status:	Ongoing	
Discussion:	In FY '99, the Forest worked on two Ecosystem Analysis at the Watershed Scale: Slate Creek and Newsome Creek. Also, in FY '99, the Forest worked on the second of 3 landscape assessments at the 4 th code HUC scale (750,000 – 1,000,000) acres in preparation for Forest Plan revision. This first landscape assessment covered the South Fork Clearwater River drainage. The second such landscape assessment, in the Selway River drainage, is to be completed in FY 2001. In FY 2000 work was begun on the Salmon River landscape assessment.	
Item #4	Analyze the effectiveness measures being taken to promote riparian recovery in McComas Meadows in light of the effects to the meadows of the 1995 storm event.	
Fiscal Year when Action Item identified:	Fiscal Year '95	
Current Status:	Ongoing	
Discussion:	Meadow conditions were evaluated in 1996 and 1997. A restoration plan is being refined with implementation ongoing in cooperation with the Nez Perce Tribe.	

REFERENCES

The Nez Perce National Forest Headquarters can be contacted in regard to locating copies of the following cited material referred to in this report:

- Burroughs Jr., Edward E., John G. King, 1989. Reduction of Soil Erosion on Forest Roads. U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station, General Technical Report INT-264.
- Idaho Department of Fish and Game. 1984. Guidelines for Evaluating and Managing Summer Elk Habitat in Northern Idaho. Wildlife Bulletin No. 11.
- Nez Perce National Forest. 1988. Nez Perce Access Management Guide.
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- U.S. Congress. 1977. Clean Water Act of 1977.
- U.S. Congress. 1968. The Architectural Barriers Act of August 12, 1968.
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- U.S. Congress. 1966. National Historic Preservation Act of 1966.
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- USDA, Forest Service, Nez Perce National Forest. 1978. Fire Management Plan Selway-Bitterroot.
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- USDA, Forest Service, Northern Region and Intermountain Region. 1981. Guide for Predicting Sediment Yields from Forested Watersheds.