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Wyoming Riparian Management

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WYOMING RIPARIAN MANAGEMENT
ACTIVITY GUIDE - 1989

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INTRODUCTION

The Bureau of Land Management (BLM) in Wyoming places a high priority on the proper management of riparian habitats. This guide is a synopsis of where we are and where we are headed in managing BLM's riparian habitats in Wyoming.

Riparian management is not a funded program within BLM. It is an initiative, a management concept which courses through all resource specialties and is funded within individual resource programs. Nevertheless, with continued strong national emphasis on riparian management, BLM's efforts in Wyoming have increased backing and active encouragement from Washington.

BLM has approximately 11,561 miles of riparian stream habitat and 159,584 acres of riparian habitat associated with marshes, lakes, ponds, etc., in Wyoming as shown in Table 1. While this riparian acreage accounts for just less than 1 percent of the BLM lands in Wyoming, in many ways, it is the most valuable of the public lands. Besides the obvious values for vegetation production and as fish and wildlife habitats, riparian areas are an important factor influencing longer periods of streamflow, improved water quality, reduced erosion of bottom lands, improved aesthetics, and increased recreational opportunities.

In May 1987, the BLM initiated the "Wyoming Riparian Strategy" (Attachment 1). The stated purpose of the strategy was ". . . to establish a framework for guiding management of riparian areas on public lands in Wyoming." Part of the strategy was to prepare a State Director's Riparian Policy. That document (Attachment 2) was finalized in December 1987 and continues to guide BLM's riparian management program in Wyoming. The goal of the riparian management effort, as stated in the policy, ". . . is to maintain, rehabilitate and improve riparian ecosystems to achieve maximum long-term benefits."

Both the Strategy and the Policy recognize the fact that riparian objectives in management and activity plans are the base upon which riparian management is going to move forward. Resource management plans are broad in scope. Activity plans, which are the focus of this guide, are detailed plans with specific objectives, management techniques, projects, and monitoring identified in the plan.

RIPARIAN MANAGEMENT OBJECTIVES

BLM's statewide riparian objectives as summarized in Fish & Wildlife 2000, Wyoming, are:

1. Identify and evaluate important riparian/wetland areas under management and other areas with identified conflicting uses through continuous habitat monitoring to maintain up-to-date inventory data.
2. Maintain and, where necessary, restore riparian areas via an interdisciplinary activity plan approach, implementing riparian management, protection, and restoration efforts so that at least 75 percent of riparian areas are in good or better ecological condition by 1997.

TABLE 1

TOTAL RIPARIAN AREAS

<u>District</u>	<u>Resource Area</u>	<u>No. of Miles (streams)</u>	<u>No. of Acres (lakes, marshes, etc.)</u>
Rawlins	Lander	---	---
	Great Divide	---	---
	Total Rawlins	4,594	85,632
Rock Springs	Pinedale	437	3,395
	Kemmerer	2,975	4,966
	Green River	569	42,288
	Total Rock Springs	3,981	50,649
Casper	Newcastle	100	1,178
	Buffalo	65	846
	Platte River	190	2,650
	Total Casper	355	4,674
Worland	Grass Creek	1,067	1,640
	Washakie	630	470
	Cody	934	16,519
	Total Worland	2,631	18,629
TOTAL WYOMING		11,561	159,584

The statewide goal and objectives are carried through to on-the-ground activity plans. It is these plans which form the backbone of riparian management in BLM. Attachment 3 lists specific plans, objectives, projects, and costs for each BLM Resource Area throughout the State. Table 2 summarizes that list. Implementation of current and planned management on the BLM riparian acreage in Wyoming is projected to require \$8,700,100 through FY 1994.

PLANS AND PLANNING

\$2,716,800

An interdisciplinary systems approach must be used in planning riparian management. Activity plan developers must consider cause and effect relationships, soils, geologic and vegetative potentials, land use management, and project maintenance. The 203 activity plans listed in Attachment 3 include a number of different types of plans:

- Habitat Management Plans (HMPs)
- Allotment Management Plans (AMPs)
- Coordinated Resource Management Plans (CRMPs)
- Areas of Critical Environmental Concern (ACECs)
- Cooperative Management Agreements (CMAs)
- Recreation Activity Management Plans (RAMPs)
- Off Road Vehicle Plans (ORV Plans)
- Forest Management Plans
- Herd Management Plans
- Cooperative Agreements

These plans may be signed cooperatively with lessees, public/private organizations, or other agencies; individually or together. During activity plan development, an effort must be made to solicit the participation and cooperative support of all interested parties. In many cases, this includes other landowners, both upstream and downstream. Planning for the management of a riparian area should not be isolated from management of the entire watershed. Regardless of the type of plan, each one goes through a BLM multidisciplinary evaluation to assure consistent multiple resource management planning.

Implementation of these plans may include management techniques involving livestock grazing, forestry, or wildlife management.

The "Draft Technical Reference on Grazing Management in Riparian Areas" printed by BLM's Service Center (SC) discusses a variety of livestock management techniques which can be used in activity plans. Techniques which have been used in established plans in Wyoming include:

- Low intensity
- Short duration
- Seasonal use
- Sheep use or cattle use only
- Wild horse management
- Herding
- Trailing only

TABLE 2

PROJECTED RIPARIAN FUNDING NEEDS

<u>District</u>	<u>Resource Area</u>	<u>No. of Plans</u>	<u>FY 1989 to 1994 Funding (\$000's)</u>			
			<u>Planning</u>	<u>Develop.</u>	<u>Maint.</u>	<u>Monit.</u>
Rawlins	Lander	11	128.5	260.0	36.0	68.8
	Great Divide	47	510.5	1478.75	113.7	349.7
	(Rawlins Others)	5	---	16.8	47.8	---
Total Rawlins		63	639.0	1755.55	197.5	418.5
Rock Springs	Pinedale	10	85.0	20.0	4.0	119.0
	Kemmerer	23	228.3	401.2	38.6	150.75
	Green River	15	55.0	11.5	8.5	18.0
Total Rock Springs		48	368.3	432.7	51.1	287.75
Casper	Newcastle	1	33.0	200.0	15.0	15.0
	Buffalo	3	7.5	33.0	12.0	22.5
	Platte River	13	34.0	114.0	49.0	59.0
Total Casper		17	74.5	347.0	76.0	96.5
Worland	Grass Creek	22	917.8	344.0	59.5	184.2
	Washakie	24	584.0	222.0	12.5	325.0
	Cody	28	82.2	869.6	23.1	120.6
	(Worland Other)	1	51.0	78.0	15.0	67.2
Total Worland		75	1635.0	1513.6	110.1	697.0
TOTAL WYOMING		203	2716.8	4048.85	434.7	1499.75
GRAND TOTAL - \$8,700,100						

- Rest rotation
- Deferred rotation
- Utilization limits
- Riparian pastures
- Exclosures
- Combinations of these

Livestock can be a very effective tool in vegetation management; this includes riparian management. Most BLM riparian lands are an important part of livestock grazing allotments. The wise use of livestock can actually enhance riparian management in many ways such as seed trampling, increasing plant vigor, selective vegetative control, etc. Proper riparian management can complement the use of upland vegetation by livestock. Furthermore, the condition of the upland watershed will influence the condition of associated riparian areas. This is all tied to well-planned and managed activity plans.

Herd management plans prepared cooperatively with the Wyoming Game and Fish Department focus on wildlife impacts on the land; riparian concerns are becoming an important part of those plans. Intensive beaver management has been a useful tool in riparian management in Wyoming since the late 1970's. Wyoming BLM biologists have successfully pioneered the reintroduction of beavers into severely degraded drainages to help reestablish riparian habitats.

Management techniques, as well as project development, maintenance, and monitoring, are directly tied to allotment categorization which is an ongoing, dynamic planning process. Because of the extreme values of riparian areas, special recognition must be given to those values in the categorization process. With a riparian objective set for 1997, both nationally and statewide, it may be necessary to reevaluate a number of allotments to assure that riparian values were given appropriate weighting in the categorization process. This is a focusing of attention to the fact that properly managed riparian areas are a crucial factor in well-planned activity plans.

DEVELOPMENT AND MAINTENANCE \$4,483,550

Various types of projects aimed at achieving riparian objectives are integral parts of activity plans throughout Wyoming. The following is a list of the types of projects identified in Attachment 3:

Livestock water developments

- Reservoirs
- Pits
- Artesian wells
- Wells
- Pipelines
- Springs
- Potholes

Plantings

- cottonwoods
- Willows
- Other trees and shrubs

Vegetation manipulations

- Prescribed burns
- Revegetations/seedings
- Dikes
- Canals
- Waterspreaders

Instream structures

- Check dams
- Gabion deflectors
- Spawning structures
- Fish migration barriers
- Bank riprap

Wetland developments

Island construction

Waterfowl nest structures

Beaver guards

Fences

- Pasture
- Riparian pasture
- Exclosures
- Electric fences

Roads

- Road closures
- Stream crossings
- Waterbars

Signing

Realty actions

MONITORING

\$1,499,750

Monitoring of objectives is a necessary and important part of any activity plan. That is why measurable, quantitative objectives are also an important part of every plan. Those specific objectives listed in Appendix 3 range from excellent (measurable and achievable) to poor (not measurable). Where activity plan objectives are not well defined, Resource Area and District riparian teams must reevaluate individual objectives and should recommend activity plan revisions where necessary.

Monitoring techniques can be as site-specific as objectives. The SC is preparing a manual of monitoring techniques which are commonly used in riparian habitats. Field offices will continue to have the flexibility to choose the monitoring method applicable to the individual activity plan.

BENEFITS

The numerous benefits of proper riparian management have been documented in a multitude of scientific publications during the last few years. Benefits resulting from various riparian improvement projects throughout the west have included:

- Improved water quality
- Reduced sediment transport
- Increased sediment storage
- Increased phosphorus storage in sediments
- Removal of excess nitrogen from the water
- Increased life of downstream reservoirs
- Increased water filtration
- Increased water storage
- Increased hydrologic residence time
- Extended annual streamflow periods
- Restoration of perennial streamflows
- Raised watertables
- Increased aquifer recharge
- Reduced peak flows downstream
- Reduced flood damage downstream
- Increased streambank stability
- Increased livestock and wildlife forage
- Reduced hay costs for livestock operators
- Increased livestock and wildlife protective cover
- Improved fish and wildlife habitats
- Improved fish spawning habitat
- Enhanced fish rearing habitat
- Increased use by wildlife
- A greater diversity of wildlife species
- Increased recreational opportunities
- Enhanced aesthetics

Each of these benefits came from a specific plan, project, or site. With the continued implementation of activity plans with riparian objectives and with continued management support of those plans, these same benefits will accrue to the BLM riparian lands throughout Wyoming.

PERSONNEL AND FUNDING

A projection of additional position requirements at District and Resource Area Offices through FY 1994 to meet our 1997 objective are as follows:

Range Conservationist	5
Range Technician	4
Engineering Technician	4
Maintenance Worker	4
Fisheries Biologist	3
Wildlife Biologist	3
Biological Technician	4
Hydrologist	<u>2</u>

TOTAL 29

These personnel would be involved in developing plans, designing and constructing projects, project maintenance, monitoring, and public relations. Each of these individuals would be working on riparian issues as part of his or her total workload.

Funding for riparian related activities would come from various subactivities and has been projected as follows:

Range	48%
Soil, Water and Air	12%
Wildlife	38%
Wild Horses	2%

These percentages apply to the grand total in Table 2, not to the cost of individual activity plans. With the very recent increased emphasis in our recreation program, it can be expected that some funding and manpower may now be available in that program to accommodate the recreational involvement with riparian habitats. In this document, the recreation values have been covered primarily with projected wildlife funding.

TRAINING

There is a continuing emphasis on training to improve the understanding of riparian systems and their management. In August 1989, Wyoming hosted the Phoenix Training Center Course 1737-1B, Coordinated Riparian Area Management. Of the 57 participants, 27 were managers and resource specialists from Wyoming BLM. In addition, about a dozen other Wyoming BLM personnel sat in on individual segments of the course.

Riparian Aquatic Information Data Summary (RAIDS) is the designated data storage system within BLM. In FY 1990, tentative training plans call for a 1 or 2 day session on the use of the RAIDS computer program for storage of riparian data. This will be made available to all Wyoming resource specialists working with riparian data. The course will be sponsored by the Wyoming State Office with assistance from the Service Center. Also planned are 1 or 2 day on-the-ground workshops at each District, and possibly some individual Resource Areas, in channel classification.

In addition to these specific training plans for next year, there are numerous training opportunities annually listed in the Phoenix Training Center Catalog.

WHERE ARE WE?

Wyoming BLM is moving forward in its riparian management initiative. As of mid-1989, activity plans accounted for 2,246 miles of streams and 44,872 acres of wetlands, marshes, etc., under management with specific riparian objectives. There are still at least 87 activity plans to be developed or revised which are projected to require riparian objectives.

The State of Wyoming, Department of Environmental Quality, is working on a comprehensive set of Best Management Practices for Wyoming in compliance with the Federal Clean Water Act. BLM personnel have worked on committees and

reviewed drafts of the BMP document. It should be a guide or format to any additional document prepared by this office; it should be ready by September 30, 1989. The standard and still excellent guide for riparian management techniques is the 1982 Western Division of the American Fisheries Society's publication, "The Best Management Practices for the Management and Protection of Western Riparian Stream Ecosystems."

ACTIONS

1. Continue with on-the-ground development, implementation, and monitoring of activity plans with sound riparian objectives.
2. Review existing riparian objectives to insure that they are quantifiable and attainable.
3. Prepare a summary flyer of this Wyoming Riparian Management Activity Guide for widespread public distribution.
4. Continue participation and coordination with all interest groups.
5. Monitor this plan in FY 1991 through an official statewide riparian initiative technical procedures review to be conducted in June 1991.

WYOMING RIPARIAN STRATEGY

INTRODUCTION

The BLM in Wyoming has set about the task of developing a statewide strategy for managing riparian areas in accordance with Washington Office (WO) annual work plan (AWP) advices and the bureauwide directives. We view this strategy as an opportunity to set forth a firm, positive, course of management action for the future of public land riparian areas in Wyoming.

In developing a statewide strategy a need was felt to establish the basic constraints, or parameters, under which any riparian management effort would be conducted. These constraints, or assumptions, are as follows:

1. The Wyoming statewide riparian strategy would supplement and support the WO policy and guidance.
2. The statewide strategy would be implemented within the context of the existing/ongoing multiple use resource programs and their respective funding levels.
3. Riparian management in Wyoming would employ a holistic (ecosystem) approach, but would not necessarily preclude the ability to respond to specific, single resource, needs.
4. Development and implementation of the strategy would utilize an interdisciplinary approach.
5. Development and implementation of the statewide riparian strategy would solicit comprehensive District and Resource Area input and review.
6. The statewide riparian strategy would establish management "standards" (i.e., performance criteria, ecological condition levels, etc.), leaving flexibility and innovative application of management techniques to the individual field offices.
7. Both short-term (next 2 years) and long-term (beyond 2 years) timeframes, priorities, and objectives would be assigned, as appropriate, by the riparian strategy implementation.
8. The riparian strategy would encourage cooperative management efforts by all parties (Federal, State, and private sectors).
9. Encouraging volunteerism and positive public relations (i.e., Project Pride) would be key considerations in our riparian management efforts.

STRATEGY

For the purposes of this effort, a "strategy" was defined as the "game plan," or the outline, of our approach for focusing attention on riparian management in Wyoming.

The purpose, or goal, of the strategy is to establish a framework for guiding management of riparian areas on public lands in Wyoming.

RIPARIAN ISSUES/FUNCTIONS

1. Policy

a. Current Status

The Bureau currently manages riparian areas under a variety of directives and other guidance. At the national level these include, among others, two Presidential Executive Orders (11988 - Floodplains, and 11990 - Wetlands), coal unsuitability criteria, Departmental Manual Part 700, Bureau of Land Management (BLM) Manuals 6740 and 7221, and the final Bureauwide Riparian Policy Statement. At the regional level guidance includes Solicitor's opinions regarding land disposals and planning for riparian areas, and at the Wyoming level we currently have standard surface protection stipulations which address riparian areas. Some of our Districts have issued specific District guidance for riparian related functions.

We do lack, however, a comprehensive multi-resource, statement of direction, or commitment (i.e., priorities, emphasis, etc.) at the State level.

b. Action Items

(1) A list of riparian "authorities" (i.e., statutes, instruction memoranda, manuals, etc.) will be prepared as a handy reference for staff. (See table.)

(2) A State Director's Riparian Policy Statement will be prepared which outlines, as a minimum, the following items: a State Director's statement of commitment; State Director's priorities; implementation timeframes; and management by objectives or special attention items. (See table.)

2. Inventory

a. Current Status:

The BLM in Wyoming has conducted some riparian inventories of various types, levels of intensity, and areal coverage throughout the State during the last two decades. Some of these inventories are of excellent quality and others are of lesser degrees of quality. Several of these inventories are no longer current. The methodology used varies, but most of the work has been conducted using accepted methods.

There presently are no statewide statistics compiled on the condition status of riparian areas, or the occurrence and classification of riparian areas in Wyoming. Some of the Wyoming State agencies (State Engineer, Game and Fish Department, etc.) do keep limited basic resource data on riparian and water related natural resources.

Current guidance for conducting riparian inventories varies. Several BLM technical notes and manuals outline methodology for conducting water quality, stream, and reservoir surveys. BLM and Soil Conservation Service methodology has been, and is still, being used to inventory riparian vegetation and soils. Some techniques from other agencies and independent sources have been applied on specific riparian inventories. Additionally, the Bureauwide Riparian Task Force is currently in the process of developing, or suggesting, riparian area inventory guidelines and methodology.

b. Action Items

(1) A statewide riparian inventory statistical base (report) will be developed and maintained to serve as a foundation document for directing future riparian inventory efforts. (See table.)

(2) Wyoming BLM presently has a stream survey manual, in draft form. This manual may be finalized to provide inventory guidance to our field offices for conducting stream surveys, if need be. We will wait for the Riparian Task Force to complete its recommendations and products before pursuing any further manual development in Wyoming. If the task force develops a riparian inventory manual (handbook) that meets our needs in Wyoming, we may simply adapt that guidance. (See table.)

3. Land Use Plans

a. Current Status

Riparian issues are addressed in various degrees in the existing BLM land use plans in Wyoming. Most of the older vintage land use plans (pre-1980 management framework plans (MFPs)) simply do not address riparian matters. Many of the MFPs and resource management plans (RMPs) from 1980-1984 imply some form of riparian area management, although it is often not explicit. Some of the most recent RMPs have explicit riparian issues stated in the RMP. Many of the recent RMPs also contain standards and guidelines incorporating riparian considerations in a fashion which could be interpreted as a listing of riparian "best management practices" (BMPs).

Guidance in the BLM 1600 Manual series does address riparian/wetland concerns in several resource topics. The capability also exists in the Bureau planning system to incorporate riparian concerns in the planning process.

We currently have no statistical compilation in Wyoming of the status of riparian considerations in our land use plans, although this information could be obtained relatively easily.

b. Action Items

(1) A statewide statistical base, or status report, will be established to serve as a reference base for monitoring the progress of riparian considerations in RMPs and other land use planning documents. (See table.)

(2) State Director guidance will be issued regarding the incorporation of explicit riparian considerations (objectives and BMPs) in any new land use planning efforts or amendments. This guidance may be incorporated in the Wyoming State Director's policy statement. (See table.)

4. Activity Plans

a. Current Status

The status of riparian objectives in activity plans throughout Wyoming varies considerably. As with the land use plans, many of the older activity plans completely ignore riparian areas as a management function. Many of the more recent activity plans include explicit riparian objectives as an integral part of the plan, including the incorporation of riparian areas as "key areas" in the plan.

Most of the resource activities have some form of manual guidance that allows the flexibility to incorporate riparian objectives in activity plans. Some of the manual guidance actually displays examples of riparian objectives. There currently is no manual guidance for the preparation of exclusive, independent, riparian activity plans; and this is probably not necessary if the other activity plans are properly prepared.

There currently is no statewide statistical base showing the status of riparian considerations in activity plans in Wyoming, although it is felt the information could be compiled relatively easily.

b. Action Items

(1) A statewide statistical base (report) will be developed and maintained to indicate the status of riparian considerations in our activity plans. This compilation will serve as a reference for monitoring the status, or progress, of our riparian efforts. (See table.)

(2) An instruction memorandum (IM) will be issued from the Wyoming State Office (WSO) directing the incorporation of riparian objectives and planned actions in activity plans in the State, as appropriate. This direction may be incorporated in the State Director's Riparian Policy Statement. (See table.)

5. Project Implementation

a. Current Status

Riparian project implementation in Wyoming is a "mixed bag." We currently have some excellent riparian management and development efforts, and we have some that have not been well administered. We suspect this situation is not unique to Wyoming.

We feel the Bureau currently has adequate procedures in place for processing project proposals. The job documentation report (JDR) procedures, environmental assessment procedures, and procurement/contracting procedures are well designed and documented, and only require proper application. Where

breakdowns have occurred, they are usually local, and we consider them internal administrative/management problems that can be easily resolved. Aside from the JDR process and the financial management system (FMS) procedures, there is currently no mechanism in Wyoming for documenting riparian management accomplishments. These two systems may not provide all the information needed to adequately track workload accomplishments of a riparian nature.

Several Bureau manuals (i.e., 6740, etc.) and other Government agencies and non-Government organizations (i.e., American Fisheries Society, etc.) have published sets of BMPs for management of riparian areas. We feel current technology is probably adequate to at least initiate a strong riparian management program.

b. Action Items

Current systems for reporting workload accomplishment (i.e., JDR, FMS, etc.) need to be investigated to ascertain their adequacy for tracking riparian accomplishments. If these systems prove inadequate for this purpose, a more appropriate and functional mechanism will be developed and maintained for tracking riparian area efforts. (See table.)

6. Monitoring

a. Current Status

Riparian monitoring is currently being conducted in Wyoming, mostly in conjunction with activity plans or "I" category range allotments. Various types of studies are being conducted related primarily to the specific monitoring goals and objectives. Problems have occasionally arisen in the conduct of specific studies, but these are generally perceived as being local administrative problems rather than program problems.

To date, the only statewide effort that is being made to "track" monitoring efforts is a quarterly report tied to the range monitoring program. This report does not isolate, or identify, specific riparian monitoring studies.

Guidance for conducting riparian monitoring varies, but has not been identified as any major problem in Wyoming at this point. BLM handbooks, at both the bureauwide and Wyoming levels, have addressed range monitoring studies, including some riparian methodologies. Stream and reservoir survey/monitoring methods and water quality studies are manualized. Accepted methodologies currently exist for conducting channel geometry and alluvial groundwater and soil moisture monitoring studies. In addition, some of our Districts have developed their own techniques for monitoring riparian parameters. The Riparian Task Force is also working on selected methodologies for conducting riparian monitoring studies.

b. Action Items

A statewide compilation (report) will be made and maintained of the existing and future riparian monitoring efforts so that our riparian management progress may be "tracked." (See table.)

7. Research and Studies

a. Current Status

The Bureau in Wyoming has participated in various forms of riparian "research" for a number of years. We are currently funding two major riparian research studies (i.e., 15-Mile Creek, Muddy Creek) with the Wyoming Water Resource Center at the University of Wyoming. Other BLM States and the Denver Service Center (DSC) have also prepared numerous riparian research efforts over the years. In addition, several other Federal agencies (Forest Service, U.S. Geological Survey, National Park Service, Environmental Protection Agency, and the Fish and Wildlife Service) and State agencies (Wyoming Game and Fish Department and Wyoming Department of Environmental Quality) to mention a few, have sponsored various types of riparian research in Wyoming.

The WSO has a research review committee which entertains and reviews proposals from the field offices, including riparian research proposals. This committee functions in a reactive fashion, however, and does not attempt to direct, or coordinate, specific needs.

Listings of current and past riparian research can be obtained from the CORDATABASE (Washington Office) and the library research service at the DSC.

b. Action Items

A State level riparian research committee will be established to identify any riparian research needs for Wyoming and coordinate this research in an effective and cost-efficient manner. It may be possible for this function to be performed by the existing research review committee. If not, the riparian research committee will need to closely coordinate their efforts with the research review committee. (See table.)

8. Training and Information Transfer

a. Current Status

Several training courses and workshops directed at riparian concerns are currently sponsored or endorsed by the Bureau. The Bureau sponsored courses are listed in the BLM Training Catalog (i.e., 6000-7, 7000-8, etc.) and the Bureau endorsed workshops are either listed in the preliminary AWP directives or announced locally through the regular mail system.

Our riparian management efforts are sold or at least announced, although somewhat limited, through various media including technical notes, video cassette presentations, etc. WESTFORNET has become an excellent information dispersal media. There remains, however, a paucity of technical information exchange from District to District and Resource Area to Resource Area within the State.

We currently have a number of riparian areas throughout the State under some form of special management. Several of these areas have, and are, being used as demonstration areas. We do not presently have a comprehensive statewide compilation of these sites to use as a ready reference.

b. Action Items

(1) A compilation of existing demonstration areas will be made and maintained as a ready reference for monitoring the progress of the riparian efforts. (See table.)

(2) An annual summary status report will be developed for distribution to our field offices detailing the major work accomplishments in the riparian realm throughout the State during the past year. (See table.)

(3) State Director guidance will be issued encouraging the preparation of technical information (technical notes) for dispersal to other users, and the active participation of our "riparian staffs" in professional meetings where they can share their management experiences. This guidance may be incorporated with the State Director policy statement. (See table.)

(4) Criteria for establishing and managing demonstration areas will be issued out of the State Office in accordance with guidance from Washington presented in WO IM No. 86-588, and changes. (See table.)

(5) A multimedia public relations initiative will be undertaken to promote the positive riparian efforts the BLM in Wyoming has, and is, doing to manage riparian areas. This program will be incorporated in the "Project Pride" effort. (See table.)

(6) A statewide riparian workshop will be planned to orient and update our key staff to the latest "state-of-the-art" techniques and other riparian issues. (See table.)

(7) Intra-State coordination meetings will be held periodically hereafter to coordinate riparian functions and exchange information. The meetings will target program leaders and resources chiefs. (See table.)

9. Funding Options

a. Current Status

Riparian projects and other efforts in the Bureau in Wyoming have traditionally been funded by a variety of program subactivities and outside entities. Since 1980, there has been an increased interest in "outside" (non-Bureau) investments in the public lands. Several WO IMs have encouraged "outside" investments (including riparian areas) on the public lands, and a recent task group report from the WO entitled "Investing in the Public Lands" outlined several recommendations for increasing outside contributions.

There is no consistent, or centralized, mechanism currently used in Wyoming for either soliciting alternative funding options, or reporting on them.

b. Action Items

(1) A listing of the funding sources of the various riparian actions undertaken will be made and maintained annually. This action could probably be combined with the annual tracking of riparian accomplishments or other statistical reports, if so desired. (See table.)

(2) State Director guidance will be issued regarding the utilization of all appropriate funding sources in the implementation of riparian management efforts. This guidance may be incorporated in the Wyoming State Director's policy statement. (See table.)

(3) A source list of potential riparian funding will be prepared and distributed to the field offices to assist them in the implementation of riparian management efforts. (See table.)

TIMETABLE

The items listed above indicate the Wyoming BLM riparian strategic objectives (see table). We recognize that for any effort of this nature to be effective requires a long-term commitment and dedication of time and manpower, as well as monetary resources. Therefore, we expect our riparian efforts to evolve in the years ahead and adjust to accommodate future changing situations.

TABLE
Wyoming Riparian Strategy
TIMETABLE

Action Item	a/ Priority	b/ Lead Responsibility	c/ Est. Level of Effort (WMs)	c/ Est. Cost (\$000's)	Target Date (FY)				
					Long-Term				
					Short-Term		Long-Term		
					1987	1988	1989	1990	Beyond 1990
Authorities	1	State Office	1	3	→				
Policy	1	State Office (detail)	2	6	→				
Inventory Statistics	2	State Office (DO, RA)	d/ 1	d/ 3					→
Stream Survey Manual	3	State Office (detail)	3	9			e/ →		
LUP Riparian Statistics	2	State Office (DO, RA)	d/ 1	d/ 3					→
LUP Riparian Guidance	1	State Office	1	3	→				
AP Riparian Statistics	2	State Office (DO, RA)	d/ 1	d/ 3					→
AP Riparian Guidance	1	State Office	1	3	→				
Accomplishment Tracking	2	State Office (DO, RA)	d/ 1	d/ 3		→		e/ →	→
Monitoring Report	2	State Office (DO, RA)	d/ 1	d/ 3					→
Research Committee	2	State Office	d/ 2	d/ 6			e/ →		→
Demo. Area List	2	State Office (DO, RA)	d/ 1	d/ 3					→

TABLE
Wyoming Riparian Strategy
TIMETABLE

Action Item	a/ Priority	b/ Lead Responsibility	c/ Est. Level of Effort (WMs)	c/ Est. Cost (\$000's)	Target Date (FY)				
					Short-Term		Long-Term		
					1987	1988	1989	1990	Beyond 1990
Annual Status Report	2	State Office (DO, RA)	d/ 1	d/ 3					
Technical Note Guidance	1	State Office (DO, RA)	1	3					
Demo. Area Guidance	1	State Office	1	3					
Public Relations Presentation	2	State Office (DO, RA)	3	10					
Riparian Workshop	2	State Office (DO, RA)	3	20					
Coordination Meetings	3	State Office (DO, RA)	d/ 1	d/ 5					
Funding Source Tracking	2	State Office (DO, RA)	d/ 1	d/ 3					
Rip. Fund. Guid.	1	State Office	1	3					
Source List	2	State Office (DO, RA)	1	3					
T O T A L =			f/ 29	f/ 101					

Footnotes:

a/ Ranking of 1 (highest), 2, and 3 (lowest) is relative importance and/or urgency.

b/ DO = District Office; RA = Resource Area.

c/ Cumulative for the foreseeable future (i.e., 5 years).

d/ This is a continuing effort. The figures shown here portray only the initial period.

e/ This item is indefinite, and may not be conducted.

f/ These totals are additive; some of the items listed overlap, and this is not reflected in the totals.

WYOMING RIPARIAN MANAGEMENT POLICY

The BLM is continuing to increase its emphasis on riparian area management. In line with this increased emphasis, the BLM in Wyoming is reemphasizing its program to define, identify, and manage, under the concept of multiple use, those areas that fall into the riparian area classification.

Riparian areas are unique and among the most productive ecosystems on the public lands. These wetland areas display a greater diversity of wildlife species and vegetation structure than adjoining ecosystems. Riparian areas are not only important for grazing, wildlife, and recreation, but are necessary to the well-being of watershed resources.

The following Wyoming policy statement supplements bureauwide policy and establishes a Wyoming definition for riparian areas, a riparian management goal, and policy directives to guide riparian management on public lands in Wyoming.

Definition

The term "riparian area," or wetlands, refers to those lands that are dependent upon surface or ground water to support a prevalence of aquatic life or vegetation requiring saturated or seasonally saturated soil conditions for growth and reproduction. These wetland areas include stream zones, ponds, reservoirs, lakes, springs, seeps, swamps, marshes, bogs, sloughs, potholes, wet meadows, and canals.

Goal

The goal of riparian management is to maintain, rehabilitate, or improve riparian ecosystems to achieve maximum long-term benefits.

Statements of Policy

1. Each District shall define riparian responsibilities for their respective jurisdictions. A District interdisciplinary team shall be established to provide consistent riparian guidance and to evaluate management effectiveness.
2. Each District shall address riparian management objectives in land use and activity plans to ensure that all uses are evaluated for their effect on riparian areas. These plans shall describe existing riparian physical data or other riparian site information, identify riparian data needs, establish a schedule for obtaining needed information, identify priorities for any riparian areas needing improvement, and schedule action(s) necessary to improve those areas.
3. Each District shall inventory and determine the condition of riparian areas under their jurisdiction, then classify each area in accordance with the National Wetlands Classification System (Cowardin, et al., 1979).

4. The Wyoming State Office shall develop monitoring and best management practice (BMP) directives to guide riparian management. Appropriate use will be made of the wetland classification system and existing technology and procedures in developing these directives.
5. Each District shall establish riparian demonstration areas to illustrate effectiveness of various land management practices.
6. The Wyoming State Office shall sponsor periodic workshops to facilitate the exchange of riparian management information, address management actions and experiences in riparian areas, and discuss procedures for resolving riparian management issues.

References

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. FWS/OBS-79/31. USDI - Fish and Wildlife Service, Washington, D.C., 103 pp. and Regional Supplements.

TIMETABLE

Policy Implementation Targets

<u>"Statement of Policy" Number</u>	<u>Action Items</u>	<u>Lead Responsibility</u>	<u>Completion Date</u>
1.	Establish District interdisciplinary team and define riparian management responsibilities.	DM	June 30, 1988
2.	Land use plans, activity plans, and CXs/EAs/EISs.	DM/AM	Continuous
3.	Inventory and classify riparian areas.	DM/AM	September 30, 1993
4.	Prepare guidance for monitoring and BMPs.	WSO	September 30, 1989
5.	Establish riparian demonstration areas.	DM	September 30, 1988
6.	Periodic workshops to discuss riparian management.	WSO	Continuous

RAWLINS DISTRICTLANDER RESOURCE AREARED DESERT HMP

OBJECTIVES: Identify and monitor aquatic/wetland habitat for waterfowl and shorebirds.

PROJECTS: 22 plantings
4 artesian well/wetland developments
3 riparian fences
10 reservoir developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$15,000	\$75,000	\$6,000	\$18,000

SOUTH DEEP CREEK CRMP

OBJECTIVES: Maintain or improve ecological condition within 10 years of plan implementation. Establish deeper and narrower channels and extend streamflow length within 10 years.

PROJECTS: 2 wells
1 pipeline

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$24,000	\$11,000	\$2,100

BEAVER AMP

OBJECTIVES: Complete riparian pasture fences and water developments by September 1990. Establish riparian trend plots in each riparian pasture. Increase average stream depth (120%) and decrease average stream width (50%) by FY 2000.

PROJECTS: 2 fences
2 wells or pipelines

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$88,000	\$9,000	\$2,600

SALISBURY AMP

OBJECTIVES: Improve condition of riparian communities.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,500	---	---	\$2,100

WHISKEY PEAK CRMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 prescribed burn (1,000 acres)

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$18,000	\$7,000	---	\$24,000

BIG PASTURE AMP

OBJECTIVES: Plan not completed.

PROJECTS: Long Creek Exclosure
prescribed burn (3000 acres)
2 electric fences (20 miles)

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,000	\$36,000	\$5,200	\$5,000

SLINGERLAND AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,000	---	---	\$4,000

GRANITE MOUNTAIN OPEN AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,000	---	---	\$6,000

RIM PASTURE AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,000	---	---	\$5,000

CARMODY LAKE CRMP

OBJECTIVES: Plan not completed.

PROJECTS: 2 exclosures
shrub plantings
wells/reservoirs

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$9,000	\$64,000	\$4,800	---

SOUTH PASS HMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$18,000	---	---	---

GREAT DIVIDE RESOURCE AREA

BAGGS HMP

OBJECTIVES: Maintain/improve woody canopy cover and age class of riparian habitats. Evaluate condition and trend of cottonwood habitat type. Improve streambank condition on Colorado River cutthroat trout (CRCT) stream. Improve pool rating for CRCT by 10%. Monitor aquatic habitat conditions and trend for CRCT. Improve average streambank stability by 15%, shading by 10%, and trout carrying capacity by 50% by 1994.

PROJECTS: 8 artesian well/wetland developments
4 reservoir exclosures
15 plantings
30 waterfowl nest structures
3 riparian fences

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$57,000	\$40,000	\$10,000	\$51,000

SAVERY CREEK HMP

OBJECTIVES: Same as Baggs HMP (above).

PROJECTS: 2 fish migration barriers
60 instream structures
2 fences
6 gabion deflectors
2 plantings
12 spawning structures

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$57,000	\$28,000	\$14,000	(Included in Baggs HMP)

SUN STEWARDSHIP CRMP

OBJECTIVES: Plan not completed.

PROJECTS: instream structures
road closures
revegetation
stream crossings
waterbars

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	\$102,000	\$10,000	---

JELM MOUNTAIN HMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$18,000	---	---	---

SOUTH DESERT HMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$24,000	---	---	---

SARATOGA VALLEY HMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$24,000	---	---	---

LARAMIE PEAK HMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$30,000	---	---	---

SAGE CREEK BASIN HMP

OBJECTIVES: Improve and maintain, in good to excellent condition, 35 miles of willow/waterbirch riparian habitat.

PROJECTS: 30 instream structures
16 plantings
11 fences
5 waterfowl nest structures
3 reservoir developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$36,000	\$70,000	\$12,000	\$18,000

FERRIS-SEMINOE HMP

OBJECTIVES: Improve and maintain, in good to excellent condition, 35 miles of Cherry Creek. Increase cover of willow, waterbirch, cottonwood, and aspen within the riparian zone. Maintain and enhance riparian habitat along the North Platte River. By 1990, stabilize stream channels and establish cottonwood/willow on 1.5 miles of stream. Improve condition of 2 fishery ponds to increase production of trophy trout. Improve waterfowl nesting habitat on existing reservoirs.

PROJECTS: 15 instream structures
6 fences
20 waterfowl nest structures
4 reservoir developments
3 plantings

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$33,000	\$55,000	\$12,000	\$36,000

SHIRLEY BASIN RESERVOIR HMP

OBJECTIVES: Eliminate winterkill of salmonids in Shirley Basin Reservoir.
Develop riparian/wetland vegetation along reservoir shorelines.

PROJECTS: 1 planting
1 fence
1 riprap project

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$12,000	\$6,000	\$4,000	\$9,000

RED DESERT HMP

OBJECTIVES: Plan not completed.

PROJECTS: SEE
LANDER RESOURCE AREA
RED DESERT HMP

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$51,000	---	---	---

SHIRLEY MOUNTAIN HMP

OBJECTIVES: Improve riparian habitat with special emphasis on T&E species, sport fisheries, and nongame. Protect springs and water developments. Improve wetland/riparian habitats for waterfowl. Improve riparian conditions where livestock conflicts occur. Reduce erosion to enhance fisheries.

PROJECTS: 30 instream structures
4 plantings
4 fences
12 waterfowl nest structures
3 reservoir developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$36,000	\$35,000	\$12,000	\$18,000

GEORGE DEW CRMP

OBJECTIVES: Plan not completed.

PROJECTS: waterspreaders
5 instream structures

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$21,000	\$344,000	---	---

LEO AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 fence

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$2,500	---	\$5,000

D.O. HMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$900	---	---	\$1,300

BEAVER CREEK HMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 prescribed burn

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$900	\$1,000	---	\$1,300

SULLIVAN AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 fence
1 prescribed burn

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,000	\$20,000	---	\$5,000

SEMINOE AMP

OBJECTIVES: Plan not completed.

PROJECTS: 2 fences
1 prescribed burn

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	\$19,000	---	\$5,000

CENTENNIAL CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 livestock enclosure

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	\$2,500	\$300	\$5,000

ANTELOPE DRAW AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 livestock water

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	\$6,000	---	\$5,000

SAULCY AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	---	---	\$5,000

MIDDLEWOOD HILL AMP

OBJECTIVES: Plan not completed

PROJECTS: 1 prescribed burn
1 livestock exclosure
1 fence

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	\$13,500	\$1,100	\$5,000

LONG CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: livestock exclosure

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	---	\$700	\$5,000

POLE CANYON AMP

OBJECTIVES: Plan not completed.

PROJECTS: livestock exclosure

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	---	\$700	\$1,800

MINER CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: 19 prescribed burns

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	\$1,500	---	\$1,800

JUNK CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	---	---	\$5,000

BUZZARD AMP

OBJECTIVES: Plan not completed

PROJECTS: 1 exclosure
27 instream structures

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$5,000	\$5,800	\$600	\$5,000

MORGAN-BOYER AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 well
6 reservoirs
5 pits
7 fences
2 prescribed burns

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$104,000	---	\$5,000

FILMORE AMP

OBJECTIVES: Plan not completed.

PROJECTS: 4 livestock waters

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	\$43,500	---	\$5,000

DEEP GULCH AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 enclosure
4 livestock waters
2 fences
2 prescribed burns

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	\$66,500	---	\$9,000

SAGE CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 enclosure
4 livestock waters
1 fence
3 prescribed burns
15 instream structures

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$5,000	\$45,700	\$700	\$6,000

MORGAN RANCH AMP

OBJECTIVES: Plan not completed.

PROJECTS: 2 riparian pastures
6 livestock waters
1 fence
3 prescribed burns

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$83,000	---	\$6,500

DALEY RANCH AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 enclosure
3 livestock waters
2 wells
1 fence

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$59,000	\$300	\$5,000

GRIZZLEY AMP

OBJECTIVES: Plan not completed.

PROJECTS: 2 enclosures
8 livestock waters
2 fences
4 prescribed burns
25 instream structures

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$105,750	\$1,300	\$9,000

DRY CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 livestock water reservoir
1 spring

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$5,000	\$4,000	---	\$9,000

STEWART CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 fence
livestock waters

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,500	\$48,000	\$30,000	\$9,000

FERRIS INCOMMON AMP

OBJECTIVES: Plan not completed.

PROJECTS: 2 livestock waters
1 prescribed burn
1 fence

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$5,000	\$37,000	---	\$5,000

PLATTE RIVER AMP

OBJECTIVES: Plan not completed.

PROJECTS: 4 livestock waters

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,500	\$10,000	---	\$2,500

SULPHUR SPRINGS AMP

OBJECTIVES: Plan not completed.

PROJECTS: 3 livestock waters
1 prescribed burn
25 instream structures
1 riparian vegetation planting
livestock exclosures

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,500	\$11,250	\$1,600	\$5,000

CHEROKEE AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 fence
10 livestock waters

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,500	\$145,000	---	\$9,000

SHAMROCK HILLS AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 wetlands development
3 livestock waters
exclosures

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$45,000	\$600	\$10,000

BAR ELEVEN AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 fence
8 livestock waters
25 instream structures
livestock exclosure

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$23,250	\$1,200	\$9,000

EAST MUDDY AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 seeding

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,500	\$5,000	---	\$5,000

WEST WILD COW AMP

OBJECTIVES: Plan not completed.

PROJECTS: 2 livestock waters

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,500	\$12,000	---	\$2,500

WILD COW AMP

OBJECTIVES: Plan not completed.

PROJECTS: 1 prescribed burn
2 livestock waters

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,500	\$18,000	---	\$45,000

HARTT CREEK AMP

OBJECTIVES: Increase vegetation along streambanks. Increase density of grasses and forbs in wet meadows from 70-85%. Halt invasion of sagebrush into wet meadows.

PROJECTS: 1 prescribed burn

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$1,500	---	---

DOTY MOUNTAIN AMP

OBJECTIVES: Plan not completed.

PROJECTS: 2 prescribed burns
riparian vegetation planting
exclosure

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,500	\$8,000	\$600	\$9,000

RAWLINS DO - OTHER PROJECTS

ATLANTIC CITY EXCLOSURE - \$700 MAINTENANCE

GILLESPIE EXCLOSURE - \$700 MAINTENANCE

RIPARIAN EXCLOSURES - \$3,200 MAINTENANCE

ANTELOPE SPRINGS EXCLOSURES - \$7,800 DEVELOPMENT, \$800 MAINTENANCE

WILLOW CREEK STREAM CROSSINGS - \$9,000 DEVELOPMENT, \$1,000 MAINTENANCE

ROCK SPRINGS DISTRICT

PINEDALE RESOURCE AREA

EAST FRONT AQUATIC HMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$9,000	---	\$3,000	\$24,000

UPPER GREEN RIVER HMP

OBJECTIVES: Plan not completed.

PROJECTS: 3 fences
5 island constructions
1 boulder placement

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,000	\$20,000	\$1,000	\$9,000

ROCK CREEK ACEC

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	---	---	\$9,000

BEAVER CREEK ACEC

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	---	---	---

SOUTH LABARGE AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	---	---	\$14,000

UPPER NORTH LABARGE AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	---	---	\$15,000

BENCH CORRAL IND. AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	---	---	\$15,000

NORTH LABARGE AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,000	---	---	\$18,000

DEER HILLS IND. AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	---	---	\$6,000

SPADE AMP

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,000	---	---	\$9,000

KEMMERER RESOURCE AREA

THOMAS FORK HMP

OBJECTIVES: Increase numbers of Bonneville cutthroat by 100%, attain 50% of channel stability potential, attain 40% riparian shade canopy on selected creeks, and attain 60% Habitat Quality Index potential for trout.

PROJECTS: 95 instream structures
1 riprap
7 potholes
1 willow planting
1 beaver management project

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$16,000	\$9,600	\$21,000

OVERTHRUST HMP

OBJECTIVES: 100 miles of baseline inventory, 100 miles resurvey for trend, maintain 30 miles of stream in good condition, and improve 70 miles of stream.

PROJECTS: 100 instream structures
exclosures
plantings

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$70,000	\$6,000	\$120,000

SMITHFORK AMP

OBJECTIVES: To effect an upward change in ecological status of certain key riparian areas of one-half seral stage in 10 years.

PROJECTS: fences
prescribed burns
water developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$2,850	\$30,000	\$4,000	\$750

SLATE CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: fences
water developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$30,000	\$50,000	\$5,000	---

CUMBERLAND AMP

OBJECTIVES: Plan not completed.

PROJECTS: fences
prescribed burns
water developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$21,000	\$200,000	\$10,000	---

ROCK CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: fences
prescribed burns
water developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
<u>\$9,000</u>	<u>\$20,000</u>	<u>\$2,000</u>	<u>---</u>

TRAIL CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: fences
prescribed burns
water developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
<u>---</u>	<u>\$25,000</u>	<u>\$2,000</u>	<u>---</u>

KEMMERER RA - OTHER PROJECTS

COAL CREEK AMP - 3 INSTREAM STRUCTURES, \$200 DEVELOPMENT

AUSTIN TRIANGLE AMP - \$17,500 PLANNING

BEAVER CREEK AMP - \$12,500 PLANNING

PREACHER HOLLOW AMP - \$12,500 PLANNING

SUBLETTE AMP - \$15,000 PLANNING

HOO DOO AMP - \$15,000 PLANNING

TOM GORE AMP - \$15,000 PLANNING

PINE CREEK AMP - \$15,000 PLANNING

ALBERT CREEK AMP - \$15,000 PLANNING

LYMAN CATTLE/COTTONWOOD BENCH AMP - \$725 PLANNING

WADSWORTH AMP - \$725 PLANNING

KEMMERER RA - OTHER PROJECTS (Continued)

POISON CREEK AMP - \$3,000 PLANNING

SOUTH HORSE CREEK AMP - \$2,500 PLANNING

BRIDGER AIRPORT AMP - \$12,500 PLANNING

CARTER LEASE AMP - \$10,000 PLANNING

CROOKED CANYON AMP - \$12,500 PLANNING

GREEN RIVER RESOURCE AREA

TEN-MILE MARSH CMA

OBJECTIVES: Plan not completed.

PROJECTS: wetland management

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	\$1,500	\$1,000	---

BITTER CREEK CMA

OBJECTIVES: Plan not completed.

PROJECTS: 2 riparian restorations

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	\$3,000	\$1,500	---

ANTELOPE CREEK CMA (ACEC)

OBJECTIVES: Plan not completed.

PROJECTS: 2 wetland/riparian restorations

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$1,000	\$7,000	\$1,000	---

SANDY GRAZING AMPs

OBJECTIVES: Plans not completed.

PROJECTS: 18 riparian management areas

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$21,000	---	\$3,500	---

PACIFIC CREEK AMP

OBJECTIVES: Plan not completed.

PROJECTS: 3 wetland developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	---	\$1,500	---

SALT WELLS/PILOT BUTTE AMPs

OBJECTIVES: Plans not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$33,000	---	---	---

WEST RED DESERT HMP

OBJECTIVES: Specific objectives?

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	---	---	\$6,000

PROSPECT MOUNTAIN HMP

OBJECTIVES: Specific objectives?

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	---	---	\$12,000

GREEN RIVER RA - OTHER PROJECTS

WT ACORN AMP

LITTLE PROSPECT AMP

GOLD CREEK AMP

LITTLE SANDY AMP

PINE MOUNTAIN AMP

MELOR MOUNTAIN AMP

RED CREEK AMP

CASPER DISTRICT OFFICE

NEWCASTLE RESOURCE AREA

NEWCASTLE WETLANDS HMP

OBJECTIVES: Specific objectives have not yet been established.

PROJECTS: 1 major reservoir
15 - 50 silt retention structures
15 - 25 potholes in existing reservoirs
5 cottonwood establishments in existing riparian areas

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$33,000	\$200,000	\$15,000	\$15,000

BUFFALO RESOURCE AREA

BUFFALO WETLANDS HMP

OBJECTIVES: Improve nesting and rearing habitat for ducks and/or geese on 5 sites a year, for a total of 50 wetland sites. Create sport fish habitat in at least two reservoir sites through modifications of existing sites or new construction. Create or improve wetland habitat for various wildlife species by constructing at least one new reservoir or modifying two existing wetland sites annually.

PROJECTS: 6 fences
2 instream structures
3 potholes

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$2,500	\$23,000	\$6,000	\$10,000

SOUTH BIGHORNS HMP

OBJECTIVES: Manage riparian, wetland, and fish habitat on public land to improve areas that are in less than good condition to good or better condition. Provide forage, cover, and water to support important big game populations.

PROJECTS: fences

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$2,500	\$5,000	\$3,000	\$10,000

MIDDLEFORK HMP

OBJECTIVES: Protect and improve all riparian vegetation and aquatic habitat along the Middle Fork of the Powder River and Bachus Creek. Increase the high shade cover along streambanks by 50%. Provide an increase of streamside overhanging grasses, woody species, forbs, and general ground vegetative cover by 50% of existing conditions along controlled portions of streams. Assure compliance with State water quality standards by developing water quality and quantity data and operating stream survey gauges on a schedule necessary to evaluate effects of management.

PROJECTS: fences

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$2,500	\$5,000	\$3,000	\$2,500

PLATTE RIVER RESOURCE AREA

BOLTON CREEK HMP

OBJECTIVES: Trap 10-20 tons of sediment per mile yearly during 1988-93. Raise the level of the water table to enhance riparian vegetation establishment. Reduce peak flows. Increase cottonwood trees from 30 trees per mile to 50 trees per mile by 1993 and increase to 100 trees per mile by 2003. Establish willow, cattail, and bullrush stands along an additional 200 yards of the stream by 1993. Increase the diversity of trees and shrubs by 1993. Control salt cedar so that it remains infrequent (less than 10 plants per mile) within the enclosure. Additional upland objectives to increase percent of grass cover.

PROJECTS: 8 check dams
2 prescribed burns
archaeological report

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$12,000	\$2,000	\$6,000

BUMP-SULLIVAN HMP

OBJECTIVES: Provide 100 recreation days of nonconsumptive use by 1990. Provide nesting habitat for six pairs of Canada geese by 1990. Provide nesting and brooding habitat for 20 pairs of ducks by 1992.

PROJECTS: 1 fence
1 canal
6 goose nest structures

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$23,000	\$4,000	\$6,000

TABLE MOUNTAIN AMP/HMP

OBJECTIVES: Provide 500 recreation days of nonconsumptive use by 1990.
Provide year-round habitat for 150 pairs of Canada geese by 1990. Provide nesting/brooding habitat for 200 pairs of ducks by 1992.

PROJECTS: dams
goose nest structures
planting of dense nesting cover
canals
fences

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$10,000	---	\$8,000

BATES CREEK RESERVOIR AMP/HMP

OBJECTIVES: Provide nesting habitat for 6 pairs of Canada geese by 1995.
Provide nesting/brooding habitat for 50 pairs of ducks by 1995.

PROJECTS: manage grazing

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	---	\$2,000	\$2,000

33-MILE RESERVOIR HMP

OBJECTIVES: Provide 100 recreation days of waterfowl hunting and nonconsumptive use by 1995. Provide nesting habitat for two pairs of Canada geese by 1995. Provide nesting/brooding habitat for eight pairs of ducks by 1995.

PROJECTS: maintain the enclosure

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	---	\$5,000	\$4,000

TEAL MARSH RESERVOIR HMP

OBJECTIVES: Provide 100 recreation days of waterfowl hunting and nonconsumptive use by 1995. Provide nesting habitat for two pairs of Canada geese by 1995. Provide nesting/brooding habitat for eight pairs of ducks by 1995.

PROJECTS: maintain the enclosure

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
---	---	\$6,000	\$3,000

GOLDENEYE RESERVOIR RAMP

OBJECTIVES: Provide 1,000 recreation days of fishing, nonconsumptive use, and waterfowl hunting by 1994. Provide nesting habitat for two pairs of Canada geese by 1994. Provide nesting/brooding habitat for 30 pairs of ducks by 1994.

PROJECTS: 3 fences

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$8,000	\$6,000	\$3,000

GARRET AMP

OBJECTIVES: Improve livestock distribution in summer pastures and reduce utilization of the riparian areas to 50% by 1995. Improve range trend ratings to "upward" on all spring/summer/fall pastures within 5 years. Improve the numeric (condition) rating of six riparian areas by one unit within 3 years. Increase the cover and vertical height of willows from 0-50% cover and to 75-90% cover at 4 vertical feet within 3 years of implementing the AMP.

PROJECTS: 3 spring developments
2 fences
2 headcut control structures
3 checkdams

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$2,000	\$10,000	\$10,000	\$5,000

BATES CREEK AQUATIC HMP

OBJECTIVES: Improve the density and height of grass cover to improve shade, shelter, and protective cover for trout. Stabilize streambanks to prevent further bank sloughing. Increase the fish carrying capacity of Bates Creek. Provide for 200 recreation days of fishing and nonconsumptive use annually.

PROJECTS: 1 fence
2 trash catchers
1 gabion deflector dam
2 checkdams

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$5,000	\$9,000	\$2,000	\$4,000

CAJUN AMP

OBJECTIVES: Plan has not been written.

PROJECTS: fences
water developments
checkdams

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$6,000	\$2,000	\$5,000

MARTON AMP

OBJECTIVES: Plan has not been written.

PROJECTS: fences
water developments
checkdams

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$6,000	\$2,000	\$5,000

CLEAR CREEK AMP

OBJECTIVES: Plan has not been written.

PROJECTS: fences
water developments
checkdams

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$6,000	\$2,000	\$5,000

MUDDY MOUNTAIN RAMP

OBJECTIVES: Provide 1,000 recreation days of camping and nonconsumptive use by 1994. Improve vegetative cover and height at two beaver complexes by 1994. Livestock grazing must be controlled.

PROJECTS: 8 miles of fence

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$3,000	\$24,000	\$6,000	\$3,000

WORLAND DISTRICT

BIG HORN RIVER HMP (Includes all three Resource Areas)

OBJECTIVES: Maintain or improve the quality and quantity of riparian (streamside) habitat for wildlife along the Bighorn River.

PROJECTS: fences
potholes
nesting structures
beaver guards
realty actions
reseeding
signing

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$51,000	\$78,000	\$15,000	\$67,200

GRASS CREEK RESOURCE AREA

GRASS CREEK RESERVOIRS HMP

OBJECTIVES: Increase duck and goose production, create additional fish habitat, and improve habitat for all wildlife species that utilize reservoir sites.

PROJECTS: fencing
 water developments
 vegetative plantings

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$15,000	\$108,000	\$31,000	\$23,000

GRASS CREEK STREAMS HMP

OBJECTIVES: Maintain, improve, and reestablish trout habitat and restore and/or maintain riparian vegetation and channel stability for improvement of wildlife habitat, watershed condition, and livestock production.

PROJECTS: fences
 plantings
 water developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,400	\$35,000	\$7,000	\$18,000

ABSAROKA FRONT HMP

OBJECTIVES: Manage riparian areas to improve and expand habitat to support fish and wildlife.

PROJECTS: spring and seep development

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$6,400	\$58,000	\$2,000	\$12,000

GRASS CREEK AMPs (16 Individual Plans)

OBJECTIVES: Improve range condition to good or better in key areas.

PROJECTS: fencing
 water developments
 burns
 grazing systems

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$790,000	\$25,000	\$500	\$46,000

ORV PLAN - (Temporarily delayed until completion of Grass Creek RMP)

OBJECTIVES: Plan not completed.

PROJECTS: ---

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$20,000	---	---	\$18,000

FOREST MANAGEMENT PLAN

OBJECTIVES: Maintain and/or enhance riparian zones to improve habitat quality and water resource values through changes in vegetative diversity and actions designed to minimize impacts from timber sales.

PROJECTS: treatments designed to maintain desirable species composition
 conservation practices incorporated into timber sales

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$45,000	\$20,000	\$2,000	\$9,000

FIFTEEN-MILE HERD MANAGEMENT AREA PLAN

OBJECTIVES: Improve the range condition on all key areas to a good condition rating within 20 years.

PROJECTS: fencing
 water developments
 grazing systems

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$4,000	\$20,000	\$2,000	\$9,000

WASHAKIE RESOURCE AREA

WEST SLOPE HMP

OBJECTIVES: Improve and/or maintain stream and reservoir habitat in the desired condition class.

PROJECTS: fences
water developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$24,000	\$57,000	\$3,500	\$18,000

WASHAKIE FOREST MANAGEMENT PLAN

OBJECTIVES: Maintain and/or enhance riparian zones to improve habitat quality and water resource values through changes in vegetative diversity and actions designed to minimize the impacts from timber sales.

PROJECTS: treatments designed to maintain desirable species composition
conservation practices incorporated into timber sales

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$60,000	\$25,000	\$3,000	\$9,000

EXISTING AMPs (7 Individual Plans)

OBJECTIVES: Maintain, improve, protect, and develop riparian areas to provide habitat and water resource values.

PROJECTS: fences
grazing systems
water developments
burns

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$80,000	\$65,000	\$3,000	\$96,000

PLANNED AMPs (15 Individual Plans)

OBJECTIVES: Maintain, improve, protect, and develop riparian areas to provide habitat and water resource values.

PROJECTS: fences
off-site waters
water developments

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$420,000	\$75,000	\$3,000	\$202,000

CODY RESOURCE AREA

CODY WETLANDS HMP

OBJECTIVES: Restore natural wetlands conditions to benefit all affected natural resources.

PROJECTS: fences
plantings
grazing management

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$12,600	\$324,000	\$5,000	\$12,800

YELLOWTAIL COOP. AGREEMENT

OBJECTIVES: Protect and manage all public land wildlife habitats for the benefit of all native and introduced wildlife species.

PROJECTS: fences

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$12,600	\$52,600	\$7,500	\$17,000

RATTLESNAKE MOUNTAIN FOREST MANAGEMENT PLAN

OBJECTIVES: Maintain and/or enhance riparian zones to improve habitat quality and water resource values through changes in vegetative diversity and actions designed to minimize impacts from timber sales.

PROJECTS: treatments designed to maintain desirable species composition conservation practices incorporated into timber sales

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$9,000	\$6,600	\$2,000	\$9,000

CODY AMPs (25 Individual Plans)

OBJECTIVES: Maintain, improve, protect, and develop riparian areas to provide habitat and water resource values.

PROJECTS: grazing management
fences
reservoir development
vegetative treatments
plantings

FY 1989 TO 1994 FUNDING

<u>Planning</u>	<u>Development</u>	<u>Maintenance</u>	<u>Monitoring</u>
\$48,000	\$115,500	\$11,100	\$86,400