RESOURCE MANAGEMENT PLAN

GRANT-KOHRS RANCH NATIONAL HISTORIC SITE

JANUARY, 1995

Recommended by: Anthony J. Schetzsle **Date** 1/3/95
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Superintendent

Approved by: _____ **Date** 1/3/95
John E. Cook
Regional Director
Rocky Mountain Region

To the Reader:

The project statements contained in this plan are reviewed annually, which may result in revisions and updates. It is also possible that new project statements may be added periodically as needed, or deleted upon completion of a project. Such changes will alter the summary data found in Table 2 and in Programming Sheets 1 and 2. In addition, any changes in park staffing or resource management work distribution will be reflected in Table 1. If current information is required regarding project statements or Table 1 (NPS Resource Personnel), please contact the park directly.

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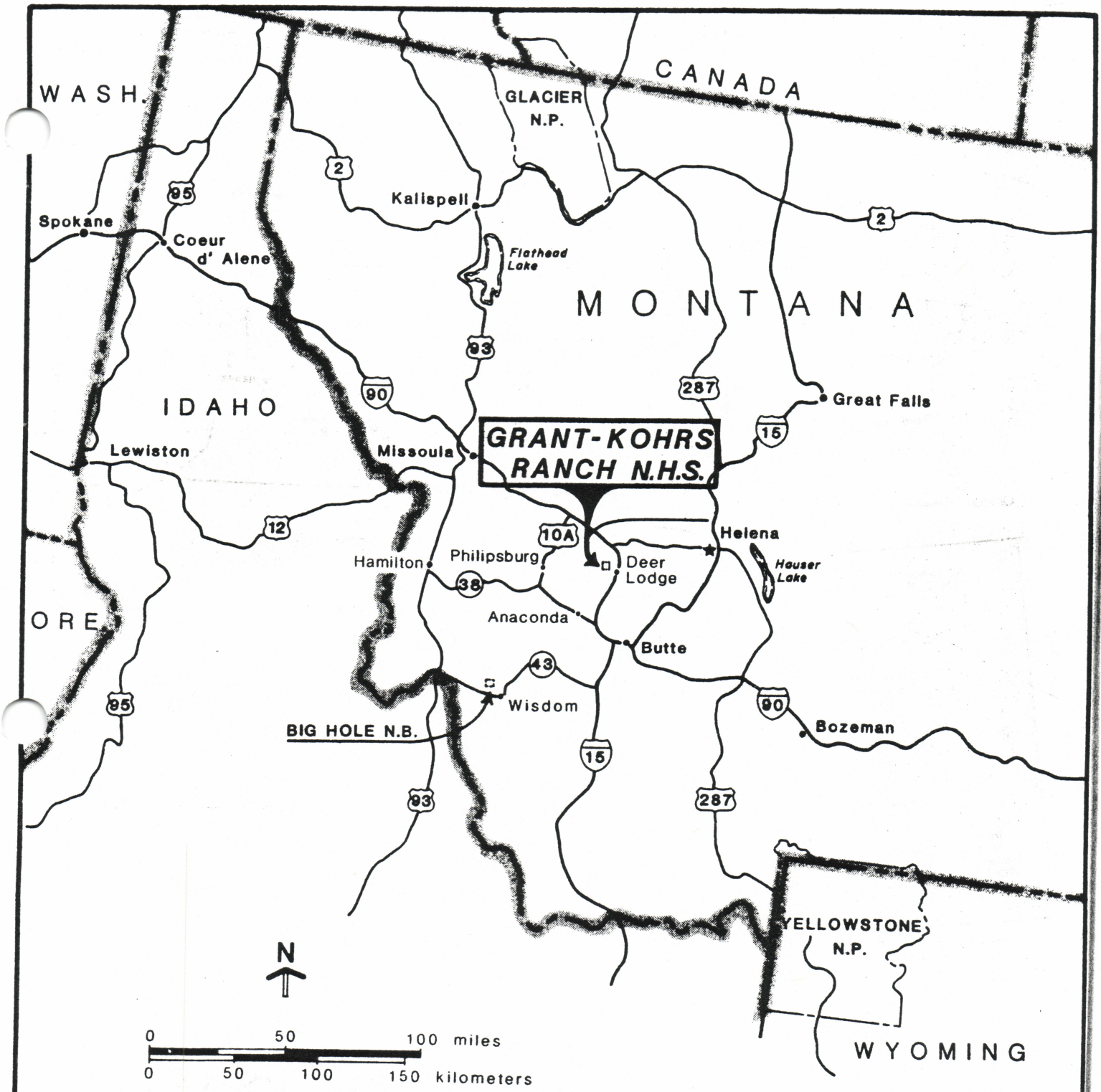
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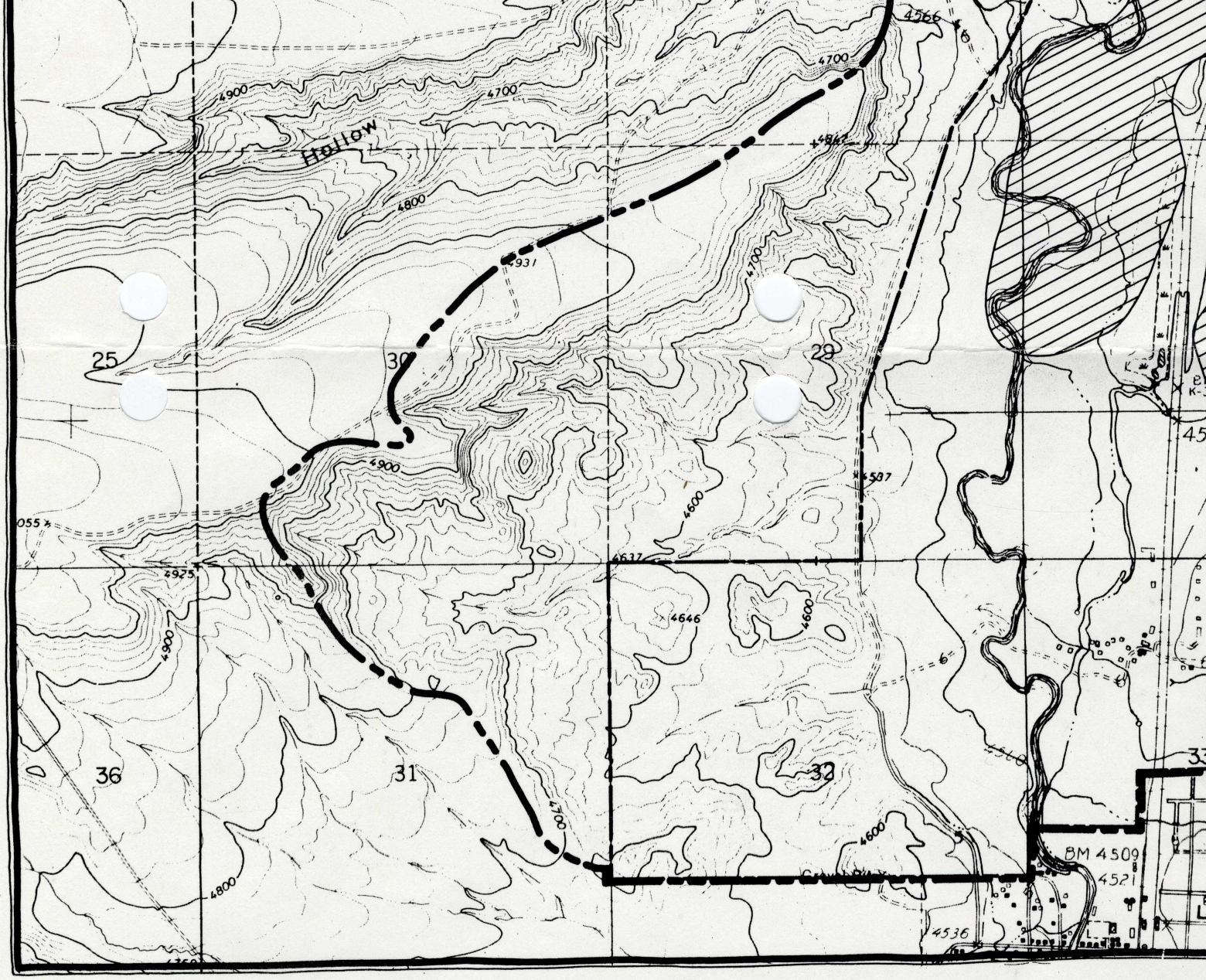


Vicinity Map

Grant-Kohrs Ranch National Historic Site

U.S. Dept. of the Interior - National Park Service

451	80,017
Sept. '83	RMRO



CULTURAL LANDSCAPE STUDY AREA

CULTURAL LANDSCAPE ANALYSIS

Grant-Kohrs Ranch National Historic Site - Montana

United States Department of the Interior - National Park Service

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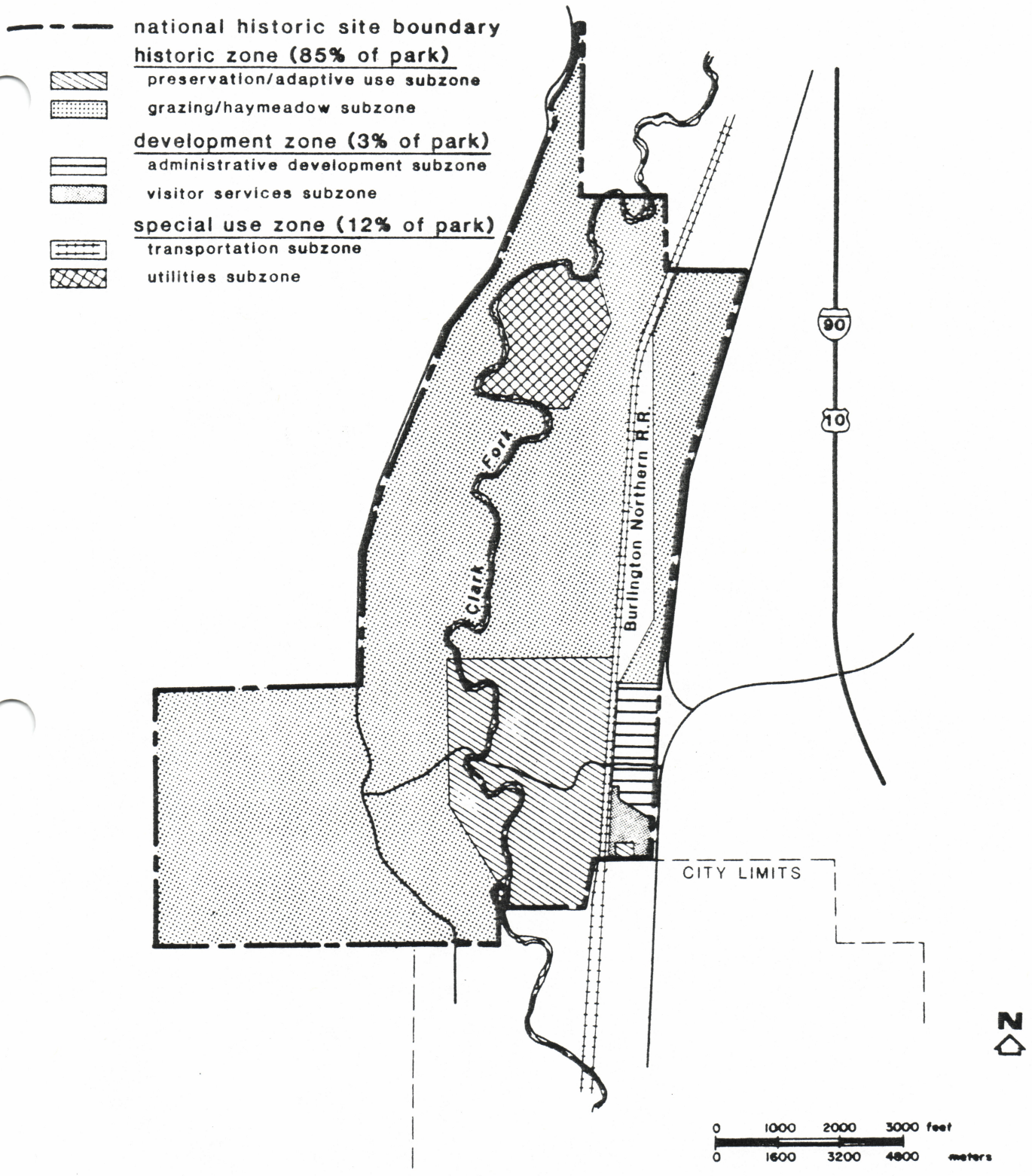
existing national hist

study area boundary

land unseen from the

N

0 800 1600 2400 feet



Existing Management Zoning Map

Grant-Kohrs Ranch National Historic Site - Montana

United States Department of the Interior - National Park Service

451	80,018-A
Oct '84	RMRO

PLAN UPDATE

This Resources Management Plan has been updated each year since it was drafted. It needs major revision to include recent and upcoming changes.

The Plan needs to be updated into the current RMP format. Special emphasis sections, such as ecosystem management and the recommendations from the inventory process R-Map, need to be included. Some project statements should be broken into sub-projects to reflect the progression of steps necessary to complete the overall project and to be compatible with the Maintenance Management System.

In FY95, the new Superintendent and Division Chiefs will complete a parkwide basic operations inventory and establish priorities based on park and cluster needs.

In January, it is anticipated future research needs for the Superfund project will be identified by funding source categories.

A Management Assessment is scheduled in February.

The Superintendent anticipates completing a reorganization by the end of FY95. At that time the staff needs chart will be updated.

It is anticipated the major revision will be a priority in FY 95 or FY 96.

I. INTRODUCTION

HISTORIC SITE PURPOSE AND SIGNIFICANCE

"...to provide an understanding of the frontier cattle era of the Nation's history, to preserve the Grant-Kohrs Ranch, and to interpret the nationally significant values thereof for the benefit and inspiration of the present and future generations..."; Public Law 92-406, 86 Stat. 632, August 25, 1972.

Canadian John Francis Grant settled at the present site of Grant-Kohrs Ranch NHS in 1861. He traded livestock with travelers along the Oregon Trail and pastured cattle in the Deer Lodge Valley. Grant also operated a trading post at his ranch. In 1866, he sold the ranch to Conrad Kohrs to enable his return to Canada.

Conrad Kohrs came to the Deer Lodge Valley in 1862 as a penniless young man, seeking his fortune in the gold fields of the west. He soon realized that any wealth to be had lay not in mining, but in the miners themselves; whereupon, he entered the business of selling beef to miners. He prospered following one gold rush after another. In 1866, he paid $19,000 for John Grant's ranch. In partnership with his half-brother, John Bielenberg, he built a ranching empire that eventually controlled over 10 million acres of grazing land in four states and Canada.

Kohrs became one of the most prominent and influential men of his day in Montana. He was one of the founders of the Montana Stockgrowers Association and a member of the territorial and state legislatures. With homesteading encroaching on the open range and their fortunes made and secure, the Kohrs and Bielenberg began winding down operations. When the two men died (Kohrs in 1920 and Bielenberg in 1922), Conrad Kohrs's wife, Augusta, cared for the 1,000 or so remaining acres of the home ranch, which was officially operated and controlled by a corporation, the Kohrs Company. Augusta died in 1945.

In 1932, Kohrs' grandson, Conrad Kohrs Warren, was employed as a foreman at the ranch, and a new phase of expansion began. In 1934 Warren moved into the house east of the railroad tracks, which had been a wedding gift to him and his wife, Nell Warren, from Augusta Kohrs. He bought the ranch holdings of the Kohrs Company in 1940, and the ranch became known for its registered Hereford cattle and Belgian horses. In 1952, Warren moved the operations east of the railroad tracks to the upper bench of the ranch. The registered Herefords were dispersed in 1958, but ranching continued under Warren's direction with a commercial

herd, even after purchase by the National Park Foundation in 1970.

In 1980, Warren began leasing his remaining lands to local ranchers, until the 1988 purchase by the National Park Service. It was Warren and his wife who recognized the importance of the site, and through their efforts it was preserved intact. The National Park Service purchased the acreage and buildings at the center of the current property from the National Park Foundation in 1972. The Warren family donated original furnishings, objects, and archival material associated with the site. This combination of an almost unaltered site, with a large associated collection make it unique to the NPS.

The resources associated with the ranch as a result of its operation by Grant, Kohrs, and Warren are maintained and interpreted in such a way that a visitor will gain an understanding and appreciation for the evolution of the cattle industry in the U.S. Operating the site as a working cattle ranch is a means of preserving the cultural landscape and historic context of the site's resources.

ADMINISTRATION AND MANAGEMENT

Grant-Kohrs Ranch National Historic Site is administered by a superintendent. Grant-Kohrs Ranch NHS directly adjoins the north edge of the city of Deer Lodge, Montana just off Interstate Highway 90. (See Vicinity Map on page 1) The entire site (including natural resources) is considered a cultural landscape. (See Cultural Landscape Inventory and Analysis Map on page 2)

Grant-Kohrs Ranch is an historic site operated under the appropriate management policies of the National Park System and is on the National Register of Historic Places. Management and development decisions and actions must be in accordance with the provisions of Section 106 Compliance with the National Historic Preservation Act of 1966, E.O. 11593, and the National Environmental Policy Act of 1969. Because the site is on the National Register, any alterations to structures or grounds require Section 106 Compliance. None of the development proposed in the Site's General Management Plan is within the 100-year or 500-year floodplain.

The manager of the site's resources needs to be intimately familiar with the reserved rights, easements, rights-of-way grants and permitted uses in the historic site. These are discussed in some in some detail in the "Legislative and Administrative Requirements" and "Land Use Trends" sections of the historic site's Statement for Management (National Park Service, 1990).

The historic zone is the largest and most significant, comprising about 87 percent of the park. It is managed primarily to preserve cultural resources and settings and to provide public appreciation of their values. Two subzones have been designated within the historic zone. The preservation/adaptive use subzone includes the home ranch area west of the railroad tracks as well as the mechanized feed operation area to the east. The grazing/hay meadow subzone includes the grazing lands and meadows north and west of the main ranch complex.

The development zone is a small parcel of land, about eleven acres in size, near the park's southeast boundary.

The special use zone, about 12 percent of the park's acreage, includes improvements used by other interests. It includes two subzones: a utility subzone in the north part of the park which contains the sewage lagoons owned and maintained by the City of Deer Lodge; and a transportation subzone composed of the Burlington Northern Railroad rights-of-way. (See Existing Management Zoning Map on page 3)

In 1993 visitation reached 26,987. Visitors experience the Ranch through a self-guided tour, guided house tour, ranch related demonstrations and an interpretive nature trail. The park brochure contains a self-guiding map of the major historical buildings in the home-ranch complex. To protect the original furnishings, the historic house is accessible only through guided tours of up to twelve people. At this time, visitors seldom venture beyond the home ranch core of buildings.

PURPOSE OF THE RESOURCE MANAGEMENT PLAN

This Resource Management Plan describes the cultural and natural resources preserved within the park, and ongoing as well as potential management activities for preserving those resources. The plan provides priorities, a timetable, and project statements for the management of the park's resources.

MANAGEMENT OBJECTIVES FOR HISTORIC SITE RESOURCES

The 1993 General Management Plan states that the following objectives have been established for planning and management at the National Historic Site:

> --To provide opportunities for the visitor to understand the cattle industry and its evolution from the open range of the mid-1860s, to mechanized feedlot operations that began in the 1930s and extended until establishment of the park in the 1970s.

--To maintain historic structures, buildings, objects, and landscapes in such a manner as to complement the ranch's primary purpose and enhance visitor understandings and appreciation of cattle ranch operations.

--To manage natural resources in such a manner as to complement the historic context of the ranch and cattle ranching operations.

II. PRESENT STATUS OF RESOURCES

This section is an overview of the significant cultural and natural resources and gives an assessment of the general condition of these resources.

Today the ranch comprises 1,618.38 acres. The status of lands is as follows:

	Within Boundary	Outside Boundary
Federal (Fee)	1,205.83	120.00
Federal (Less than Fee)	165.63	
Total Federal	1,371.46	
Non-Federal	126.92	
Gross Acreage	1,498.38	120.00

From 1972 to 1988, the site contained less than 250 acres with 59 historic structures dating from the late 1850's into the 1930's. In 1988 the additional acreage and 31 structures were acquired. The 120 acres outside of the authorized boundary were acquired with this purchase to avoid having to split water rights and ditch shares and to facilitate management of the area. With the 1988 acquisition the site now represents the development of the cattle industry up through 1970. The historic scene to the west is essentially intact.

CULTURAL RESOURCES BASELINE INFORMATION

The 90 historic buildings and other structures and the cultural landscape along with the large collection of 23,000 artifacts, documents, and photographs relating to the Grant-Kohrs Ranch, are the site's chief resources.

The status of cultural resources is summarized in the Appendices under "Cultural Resources Documentation Checklist" and "Summary Charts for Cultural Resources".

CULTURAL RESOURCES

Archeological Sites

The first archeological work was conducted in 1973 by Floyd Sharrock. Four Late Prehistoric sites were recorded including a tepee ring site and three open sites with scatters of lithic and ground stone material. The most recent work was by Ralph Hartley

who evaluated these prehistoric sites for National Register significance. The three sites he was able to find were determined to be ineligible. The location of the few archeological sites is not made widely known.

Work prior to construction or restoration projects has been completed by various individuals. Significant information regarding ranch and family life has been gained from this work.

Structures

Most of the structures on-site are directly related to livestock and the development of the cattle industry. There are various barns and corrals, sheds, and a scale house for horses and cattle. The garage/blacksmith shop, granaries, dairy barn, sales barn, feed lot complex and bunkhouse provided support activities. Fences, gates and irrigation systems run throughout the cultural landscape. The 23-room Victorian house clearly shows that the people associated with the site were outstanding rather than typical examples of players in the development of the cattle industry. The Warren house is more typical of the later ranching periods.

The maintenance responsibilities consist of 90 historic buildings and structures, includes grounds, bridges, a section of railway, fences, roads, an entrance and interpretive nature trails, Visitor Center, two public restrooms, and a parking lot. During the initial long-range planning for the site, it was decided that reconstruction of nonextant buildings will not be undertaken. Some buildings will be used adaptively and not be open to the public. Most of the home ranch buildings have received critical stabilization work. Preservation maintenance is required on a continuing basis. Since visitation is concentrated around the historic buildings, most maintenance activities are performed within the public view.

Objects (Museum Collections)

The original Grant-Kohrs Ranch NHS collection, which was obtained with the acquisition of the site in 1972, was supplemented in 1988 and in 1993 by the acquisition of the Conrad Kohrs Warren collection. The Warren Collection consists of approximately 600+ historic objects (all of which have been accessioned) plus approximately 20 linear feet of archival material (est 38,000 records).

The original Grant-Kohrs Ranch museum collection consists of approximately 23,000 objects of which approximately 95% are site-specific. Overall documentation is good with over 14,000 objects cataloged, 12,350 of which are entered into the Automated

National Catalog System, although 1500 of those records contain registration data only. General condition of the collection is good. A Collection Condition Survey was competed on objects stored and exhibited in the Historic Ranch House (HS-1). No survey has been completed on the 1988 or 1993 Warren Acquisition objects. Storage conditions are contributing to the deterioration of objects.

The museum collection contains objects dating from the 1860s to the 1990s. It includes ranch equipment, building furnishings, horse-drawn and motorized vehicles and equipment, personal gear, archaeological material, natural history specimens, archival material and a collection of architectural elements. It is unique because it is very complete and site specific. The archives contains park administrative history related records.

The collection is utilized primarily for exhibit. The potential for scholarly research is great, but is not realized at this time. There are limited facilities for carrying out this type of work.

Current emphasis of the collection management program centers on improving storage and exhibit environment and security, increasing accountability, controlling museum pest populations, processing the 1988 and 1993 Warren acquisitions, eliminating deficiencies from the Special Directive 80-1. Checklist and deaccessioning objects which do not fit the Scope of Collections Statement.

Substandard storage and exhibit space are the greatest threat to the collection. Collections are housed in at least ten structures on-site. The Historic Ranch House (HS-1) is the primary storage and exhibit area. Other buildings used for storage are HS-5 (Icehouse), HS-12 (Machine Shed), HS-13 (Cow Shed), HS-18 (Granary), HS-19 (Stallion Barn), HS-58 (Warren Residence) and HS-64 (Warren Red Barn). Some of this space is open to the elements and is shared with other divisions.

Objects are exhibited in HS-1 (Ranch House), HS-2 (Bunkhouse Row), HS-3 (Garage/Blacksmith Shop), HS-5 (Ice House), and HS-15 (Thoroughbred Barn). Only HS-1 has fire and intrusion alarms. It is the only building with a fire suppression system and this system does not extend throughout the building. Most of the staff has access to storage areas in HS-1 (Ranch House), HS-12 (Machine Shed), HS-13 (Cow Shed), and HS-64 (Red Barn). Other deficiencies include mixing of curatorial and other work functions with storage areas, little or no environmental control and lack of curatorial work space and supply storage.

Ethnographic Resources

The Deer Lodge Valley has probably been used by humans for 10,000 years. However, there have been very few archaeological sites recorded. Early historic records note that at least seven Indian tribes migrated through the valley while hunting for big game. In the late 1850's the first year-round settler in the valley was John Francis 'Johnnie' Grant, who established a trading post. Early historical accounts and sketches document tepees in front of the ranch house, along the river and other nearby open areas.

Areas in the Deer Lodge Valley are reported to have religious significance for some Native American tribes. None have been documented to be at the Ranch Site.

CULTURAL CONTEXT/THEME

The context theme listed in History and Prehistory in the National Park System and the National Historic Landmarks Program (1987) lists Grant-Kohrs Ranch National Historic Site under:

X. WESTWARD EXPANSION OF THE BRITISH COLONIES AND THE UNITED STATES, 1763-1898

G. The Cattlemen's Empire

3. Ranches

The 1977 Historic Resource Study states, "The major historical theme concerns the range cattle industry in Western America. This is the focus of the entire site, and the reason for its inclusion into the National Park Service managed areas." Thus, the park's interpretive purpose centers on the cattle industry, from its beginnings in the frontier cattle era in the mid-1860s through mechanized feed operations, with emphasis on the open range era. (1992 General Management Plan)

NATURAL RESOURCES BASELINE INFORMATION

Because the park was established as an historic site, natural resources are managed to support the cultural landscape and complement a working cattle ranch. The most significant natural resource issues stem from the park's containing a portion of the nation's largest Superfund site. Over 100 years of upstream mining and smelting operations have caused contamination of portions of the park with deposits of mine tailings.

The first natural resources baseline study was completed in 1984 for the then 216 acre site. In addition to fauna and flora inventories, toxic metal distribution and density was analyzed. These studies need to be updated and similar research carried out on the 1988 acquisition.

As preservation maintenance is completed on buildings and structures, the work is documented. Similar documentation was not completed for changes to gates, fences and irrigation systems and similar cultural landscape features. The Ranch has several staff who have worked at the Park since the 1970s and 1980s. Mylar sheets will be overlaid aerial photographs to document changes which are recalled by the staff.

NATURAL RESOURCES

Vegetation

Grant-Kohrs Ranch NHS lies within a diverse geographic area which includes fertile valleys, a river system and its tributaries, high, dry benchlands and mountain ranges.

A prominent feature of the Grant-Kohrs Ranch landscape is the Clark Fork River. It runs about two miles through the entire length of the Ranch and is bordered by thicket-woodlands composed primarily of cottonwoods and willows interspersed with grassy areas. Parallel to the river are irrigated meadows used for hay production and cattle grazing. The terrace above the river pastures is generally hilly and uneven, and is used as dryland pasture.

Vegetation on most of the site consists of exotic species of grasses and forbs. These occur as introduced hay species and pasture grasses, and as weedy species such as knapweed, leafy spurge, and thistle. Over 200 species of vascular plants have been identified in the park.

The dry uplands in the western portion of the 1988 acquisition contain a variety of native shortgrass prairie species. In addition, there is a parcel of land within the authorized boundary presently held by the Burlington Northern Railroad Company. This 35.76 acre inholding is a dry, benchland field dominated by native wheatgrasses and forbs. It lies within a short walk of the Warren Ranch Complex and Home Ranch core.

Although no legal delineation work has been done for wetlands in the park, there are many areas that would qualify. The park's largest single wetland is situated in the northern portion of the site in a former Milwaukee Railroad gravel borrow. The water table along the Clark Fork River is high, and the river bottom

contains wetlands associated with meanders, old channels, and sloughs. In addition, continuous operation of the Kohrs-Manning Ditch has created wetlands in several areas just below it.

Animal Species

Most wildlife is associated with the Clark Fork River bottomland. Over 160 species of terrestrial vertebrates have been documented in the park. Ducks are common, and other migratory birds are frequently seen on the city sewage lagoon north of the ranch. Magpies, ravens, robins and other birds are common on the ranch and raptor populations appear to be increasing throughout the valley since the Anaconda Smelter was closed in the early 1980s. Several mammals, including skunk, rabbit, fox, muskrat, deer and beaver are frequently seen. Some of these species have been the targets of poachers.

Beaver are gradually removing an historic visual screen of cottonwoods along the ranch's boundary with the city. Beaver dams must be frequently removed from irrigation ditches. Columbian ground squirrel burrows are taking some acreage on the west side out of hay production. Occasionally, raccoons and fox kill ranch fowl that are left out at night. In the last ten years the population of the white-tailed deer herd which frequents the ranch appears to have increased. In the late summer, the deer sometimes raid neighbors' yards and gardens.

The number of reptiles and amphibians is limited due to the prior Anaconda smelter pollution. Mosquitoes, grasshoppers, and beetles are so numerous that they become a problem at times.

To maintain an active ranching scene, the park owns and markets livestock through a reimbursable living history account. The livestock herd averages about 35 head of cattle, and four Belgian and several saddle horses. Usually, some livestock are kept in a pasture or corral close enough to the historic buildings for visitors to see. The rancher is often scheduled to meet with groups. However, his ranch work is routine and may or may not be visible to visitors (i.e., grooming horses is, but irrigating in the distant fields is not).

Freshwater Aquatic Resources

Fish of the Clark Fork River include brown trout, whitefish, suckers, and rainbow trout. Today, fish populations are estimated to be 10 percent of their potential because of pollution from upstream mining. Flood events have the potential to erode tailings deposits into the stream, causing fish kills. Another threat to the fishery is low instream flow in summer due to a prolonged drought and diversion of river water for agriculture.

Recreation on the site is generally limited to the area adjacent to the Clark Fork River with fishing and floating being the primary activities. There have been problems in the past with campfires being built and left unattended by fishermen and children playing along the river.

Irrigation water is supplied by subirrigation from springs, by flood irrigation from Johnson Creek, by the Kohrs-Manning Ditch, and by the West Side Ditch. Two pumps are used to supply irrigation systems; one from the Clark Fork and one from the Kohrs-Manning Ditch.

The City of Deer Lodge pumps its domestic water from wells. It is considered to be good quality water and is not chlorinated at this time. The Warren residence and associated barn complex use a well.

Geologic Resources

The area surrounding the ranch is a land of rugged extremes. The grassland valley gives way to mountain ranges. The Flint Creek Range west of Deer Lodge contains jagged peaks with elevations over 10,000 feet, while the mountains of the Continental Divide to the east are lower and more rounded. The eastern mountains are formed of Cretaceous sedimentary and volcanic rock. The western mountains are formed of Precambrian to Cretaceous sedimentary rocks with a core of Lower Tertiary granitic rocks. The Continental Divide forms the eastern border of the valley and the Clark Fork River flows west into the Columbia River Basin.

Soil Resources

Grant-Kohrs Ranch NHS is situated in an alluvial area dating to the Pleistocene period. This is an unconsolidated stream/glacio-fluvial/slope-wash deposit of poorly sorted silt, sand, and gravel. The flood plain soil is poorly drained loam.

The riparian zone of the River displays vividly the effects of mining and smelter wastes on soils and vegetation. In some places, called "slickens", metals are so concentrated no vegetation grows. Soil microbial enzyme activity is reduced by 82% in these areas. Soil metal concentrations in the meadows and hayfields are also significantly elevated over clean control areas and check plots. Large portions of the Ranch have metal contamination levels (primarily cadmium, copper, zinc, and arsenic) up to 32 times greater than areas of the Deer Lodge Valley not subject to river-deposited pollutants.

Climate

The Deer Lodge Valley is sheltered from the worst effects of stormy weather by the surrounding mountains. Its climate is classified as semiarid with total annual precipitation averaging 10.6 inches. An average of nine days a year are 90 degrees or warmer. The length of the growing season (frost-free days) averages 95 days a year. An average of 21 days per year have maximum temperatures of 32 degrees or less.

Air Resources

Grant-Kohrs Ranch has a Class II air quality designation. Overall, present air quality is good. The valley has a relatively small population and is wide enough that the inversions which plague other communities in Southwest Montana are not a problem.

The State Air Quality Bureau maintains sampling stations in the area so an active monitoring program is not thought to be necessary at the Ranch at this time. In the early 1980s sulphur samples were collected for a baseline inside and outside the historic house until the Anaconda smelter closed.

At the present time, the main sources of pollution are motorized vehicles and trains, wood-burning stoves in the winter and forest slash burning and field clearing in the spring.

In the past there have been a variety of air pollution sources. At the turn of the century, Conrad Kohrs joined other ranchers and farmers in a suit against the Anaconda Company. In the late 1970s through the early 1980s, a phosphate processing plant in Garrison was frequently ordered closed because of excessive pollution. Northern winter winds carried some of the phosphate plant effluent in the direction of the Ranch.

Aesthetic Resources

Grant-Kohrs Ranch NHS is the only site set aside by Congress specifically to commemorate the frontier cattle industry and its history in America. If the National Park Service is to achieve this Congressional mandate, an adequate land base must be protected. A primary concern is the need to protect the cultural landscape in what remains of the undeveloped foothill lands immediately to the west of the Ranch complex. These lands make up the primary viewshed of the Ranch and are critical to the visitor's impression of the historic scene. This open-range character is vital to the mission of the ranch and to interpretation of the frontier cattle era. Development has already occurred along the other boundary sides.

Integrated Pest Management

Noxious weeds are a critical concern at the Ranch. These alien plant species, primarily spotted knapweed, leafy spurge and thistles, deteriorate the site's integrity and gradually decrease species diversity. The heaviest concentrations are along the two railroad rights-of-way, but they also thrive in other disturbed areas. In 1989, a strong complaint letter from a visitor crystallized the decision to use herbicide on the knapweed. From 1990-92 an aggressive contract spray operation was carried out which successfully reduced knapweed infestations.

In 1989, a 5-year Memorandum of Agreement with APHIS (Animal and Plant Health Inspection Service) in Bozeman was established for knapweed biological control agent studies at the ranch. Various combinations of established and new insects were tested in experimental cages. In the future, this restricted area will be used to produce insects to transplant in other locations. Agapeta zoegana, a small moth whose larvae attacks the roots of spotted knapweed, has proven to be especially effective on our dryland pasture area.

A major threat to the museum collection is an infestation of dermestids discovered in Spring, 1989. Non-chemical control attempts began immediately and continue. Vermiculite insulation in the attic of HS-1 (Ranch House) was removed in 1990 and has reduced the problem. If current control measures are insufficient, chemicals may have to be used.

Large concentrations of cluster flies invade the ranch house beginning in September and continuing through March. They are a threat to objects on exhibit and to the historic structure itself. They also pose a health/sanitation concern, contribute to a difficult work environment, and cause false security and fire detection alarms. Entry points are through the windows and roof. A window repair project has been undertaken by the park's maintenance mechanic as part of the Preservation and Skills Training (PAST) program. Foam is inserted into the spaces behind the window casing to prevent the entry of flies, dust, and weather. At least two upstairs windows have been identified as major routes of entry and remain to be sealed. The attic areas are also heavily infested and points of entry need to be identified and a strategy developed to reduce access. Fly carcasses are a food source for other pests, such as dermestid beetles, shrews, and mice. Control methods include pest strips and vacuuming.

Rare, Threatened, and Endangered Species

No known rare, threatened, or endangered species of animals or plants inhabit the Ranch.

Hazardous Waste

The Upper Clark Fork River is the largest EPA Superfund Cleanup site in the United States, extending over 100 miles from Butte to Missoula. Since 1990, the Field Solicitor's office has called for annual meetings of Interior agencies to see what extent of damage exists and what methods are proposed to prepare impact assessments from toxic waste contamination on their public trust lands.

Herbicides which were stored in the Warren Complex or in the museum collection have been removed since acquisition in 1988.

Public Health and Safety

Providing a safe environment for employees and visitors is a major concern at the site. Of primary concern are the hazards associated with ranch walking surfaces and livestock. Visitors and staff have fallen due to uneven and slippery surfaces, including loose gravel and ice. Many visitors are unfamiliar with ranch animals and may put themselves in danger by entering corrals, improperly feeding animals with fingers or through other actions. Staff working cattle or horses may be stepped on or kicked. While there is potential for serious injuries, none have occurred to date.

Park staff maintain an aggressive safety education program for employees and visitors.

Sound

The local community airport, located southwest of the Ranch, services single or twin engine airplanes and occasional helicopters.

The trains passing through the ranch are loud enough to interrupt interpretive talks, even inside the ranch house. However, this source of noise has been part of the historic scene since the 1890's. The house and objects inside vibrate noticeably as trains pass, which is a resource concern. The freeway is just over a mile from the site entrance. Traffic noise and voices from town is usually only noticeable in very cold weather when sound travels further.

III. OVERVIEW OF CURRENT RESOURCE MANAGEMENT PROGRAM AND NEEDS

CULTURAL RESOURCES

Resource management activities focus on preventing the loss or permanent deterioration of the site's resources. Grant-Kohrs Ranch NHS is listed on the National Register of Historic Places.

The ranch is unique in that it has one of the most intact collections of original ranch-related objects in the United States.

Archeological Sites

Not all of the site has been surveyed to meet standards. There are at least eleven historical occupation areas and trash heaps that are unexamined. One dump is on an actively eroding river bank and is in danger of being lost.

Structures

In June of 1988, additional land and 31 assorted structures were acquired. While most of the 59 Home Ranch site structures have been stabilized, these added structures have been scheduled for stabilization, but funding has not been received. The new structures have been only partially photographed and inventoried. In addition to extensive building restoration work, the utilities in the Warren complex need to be upgraded.

Preservation maintenance is required on a continuing basis as a result of deterioration caused by elements, livestock, staff and visitors. Some structure elements, such as barn floors, paint, roofing, and fences are subject to wear and are replaced as necessary, as was done historically.

Objects (Museum Collections)

Construction of an adequately sized, dedicated storage facility would provide environmentally-controlled space with fire detection and suppression systems and intrusion alarms. Access to the collection could be controlled. Efficiency of curatorial operations would be improved. Objects would be consolidated in a clean environment in stable conditions with less cleaning required and a slowed rate of deterioration. Damage to the collection by pests such as rodents, dermestids and flies would be greatly reduced or eliminated.

A dedicated object treatment area would allow objects to be treated on-site, reducing expensive off-site treatment. Adequate office and research space would allow room for curatorial records to be generated and filed in the area where they are used. More research into the collection would be possible, both by staff and visiting researchers.

The expense of building a storage area to house all the collection is too great. Less sensitive objects need to be relocated into an area with the greatest amount of protection and environmental controls possible. Microenvironments could also be created for large objects currently stored in HS-13.

Fire detection and suppression and security systems need to be upgraded in the Ranch House (HS-1) and installed in all exhibit areas. A security survey has been completed and its recommendations acted upon.

Present staffing is inadequate to complete the routine curatorial tasks and to correct the Special Directives 80-1 Checklist deficiencies. The collection grew significantly in 1988 and 1993 with no increase in staff.

The quantity of material available within the collection for formal museum exhibits is large. Most of this is inappropriate for use in the furnished historic structures or requires special care that precludes display there. These objects could be used in formal exhibits elsewhere, both long-term and short-term. Long-term exhibits would illuminate major themes of interpretation.

Additional site related research, furnishing plans, visitor use studies and microfilming of original records is needed. As part of this effort, a research plan should be created by park staff.

Ethnographic Resources

Publishing John Grant's memoirs, which includes his trading activities in the Deer Lodge Valley, would be a major contribution to this area, which lacks documentation. This information should be included in a site handbook.

NATURAL RESOURCES

Several management plans need to be developed to address the natural resource issues that came with the 1988 purchase of additional lands. A draft GIS Plan and a draft Water Resources Scoping Plan have been completed. Work has begun on an Agricultural Use Plan and on an update of the Fire Management

Plan which will include a management ignited prescribed fire component. The park does not have a current Integrated Pest Management Plan. All of these plans must be completed in final form. The Natural Resource Project Statements do not include enough proposals for water quality and assessing Superfund injury.

In October 1990, a separate Resource Management Division was created. The only reference material available in the park library at that time consisted of agriculture books from the 1940s - 1950s or NPS generated documents. A natural resource management reference library has been developed.

A nominal database of natural resources needs to be completed for the park. A faunal inventory and distribution map would be especially useful for park managers.

The park lies within the Clark Fork River Superfund Site. Several research studies have been done around the park by outside agencies. More site-specific historical data and research is needed to prepare a Natural Resource Damage Assessment for the site. Future research proposals (including baseline studies) will be oriented to include this need. A reference file of appropriate articles and manuscripts is being developed. More interagency networking needs to be done to build this reference base.

The riparian area of the park has been subjected to impacts from the metals contamination and agricultural use. A monitoring program needs to be established to determine how best to restore both the form and function of the area.

The 1988 acquisition needs to be surveyed and the problem of the 120 acres outside the authorized park boundary resolved. Protection of the open landscape in the primary park viewshed to the west needs to be accomplished. Acquisition of the native grassland parcel held by the railroad would provide a significant research site and add to interpretive information concerning the open range era.

INTERDISCIPLINARY (NATURAL AND CULTURAL) PROJECTS

Though there is overlap between natural and cultural resource issues for nearly every project, five were identified as both natural and cultural or interdisciplinary projects:

1. Update Integrated Pest Management Plan
2. Re-establish tree cover along south boundary
3. Protect historic scene west of ranch complex
4. Complete natural & cultural GIS data base
5. Complete aerial photography for GIS mapping

Most of these have been addressed earlier in this document.

Establishment of a Geographic Information System (GIS) program has many benefits for park managers as it can be applied to a wide variety of natural and cultural resource issues.

The grove of cottonwood trees along Cottonwood Creek at the park's south boundary provides a visual screen from development in the City of Deer Lodge. If we are to maintain this screen, existing trees need continued protection from beaver and regeneration encouraged and/or supplemented.

GRANT-KOHRS RANCH PRIORITY PROJECTS

Top Priorities Park-wide

--Complete visitor center, dedicated curatorial storage and administrative areas
--Build dedicated storage facility
--Complete documentation of Warren complex
--Relocate electricity service in older historic core underground and install electrical, water, and sewage in Warren complex
--Upgrade and install site fire/security/radio system in historic buildings
--Restore granary, HS-6, and dairy barn, HS-9
--Publish Grant memoirs
--Complete documentation of Warren complex

Cultural Resources

Maintenance

--Restore granary, HS-6, and dairy barn, HS-9
--Reroof Warren complex red barn, HS-64
--Repair sash and frames for HS-1, ranch house
--Restore HS-1, ranch house, landscape
--Reroof HS-1, ranch house, with terne plate and restore SW porch deck

Curatorial

--Manage pests in museum collection
--Bring museum accountability up to standards
--Hire full-time museum aid for housekeeping
--Write museum collection planning documents

Natural Resources

--Acquire native grassland parcel
--Survey new land acquisition to establish legal boundary and change authorized boundary to include 120 acres owned by NPS
--Complete vegetation mapping of the riparian zone
--Develop natural resource program and include inventory and monitoring component
--Develop Agricultural Use Plan

Interdisciplinary

--Complete aerial photography for GIS mapping
--Complete natural and cultural GIS data base
--Update IPM plan
--Protect historic scene west of ranch complex

STATUS OF RESOURCE MANAGEMENT CAPABILITIES

Staffing needs as projected in the 1993 General Management Plan:

PRESENT GRKO LEVEL:		**NEEDS:**
Superintendent		
Supt. GS-025-12	1.0	
Sec. GS-0318-5	.6	.4
Administration		
A.O. GS-0341-9	1.0	
Admin. Clerk GS-0303-4	.8	.3
Curatorial		
Curator GS-1015-9	1.0	
Mus. Tech. GS-1015-5	1.0	2.0
**Seasonals, Cyclic:		
Mus. Tech, GS-1015-4	.7	
Natural Resource Management		
Chief Ranger GS-025-9	1.0	
RM Specialist GS-401-9	1.0	
Pk. Ranger GS-025-5		1.0
Maintenance		
Mech. Foreman WS-4749-8	1.0	
Maint. Mech. WG-4749-9	1.0	
Maint. Wkr. WG-4749-7	1.0	
Rancher WG-5002-6	1.0	1.0
Maint. Hlp. WG-4749-5	.9	
**Seasonals, ONPS:		
2 Laborer WG-3502-3	.6	
**Seasonals, Cyclic:		
2 Laborer WG-3502-2	.2	
Maint. Wkr. WG-4749-5	.5	
YCC	.6	
Interpretation		

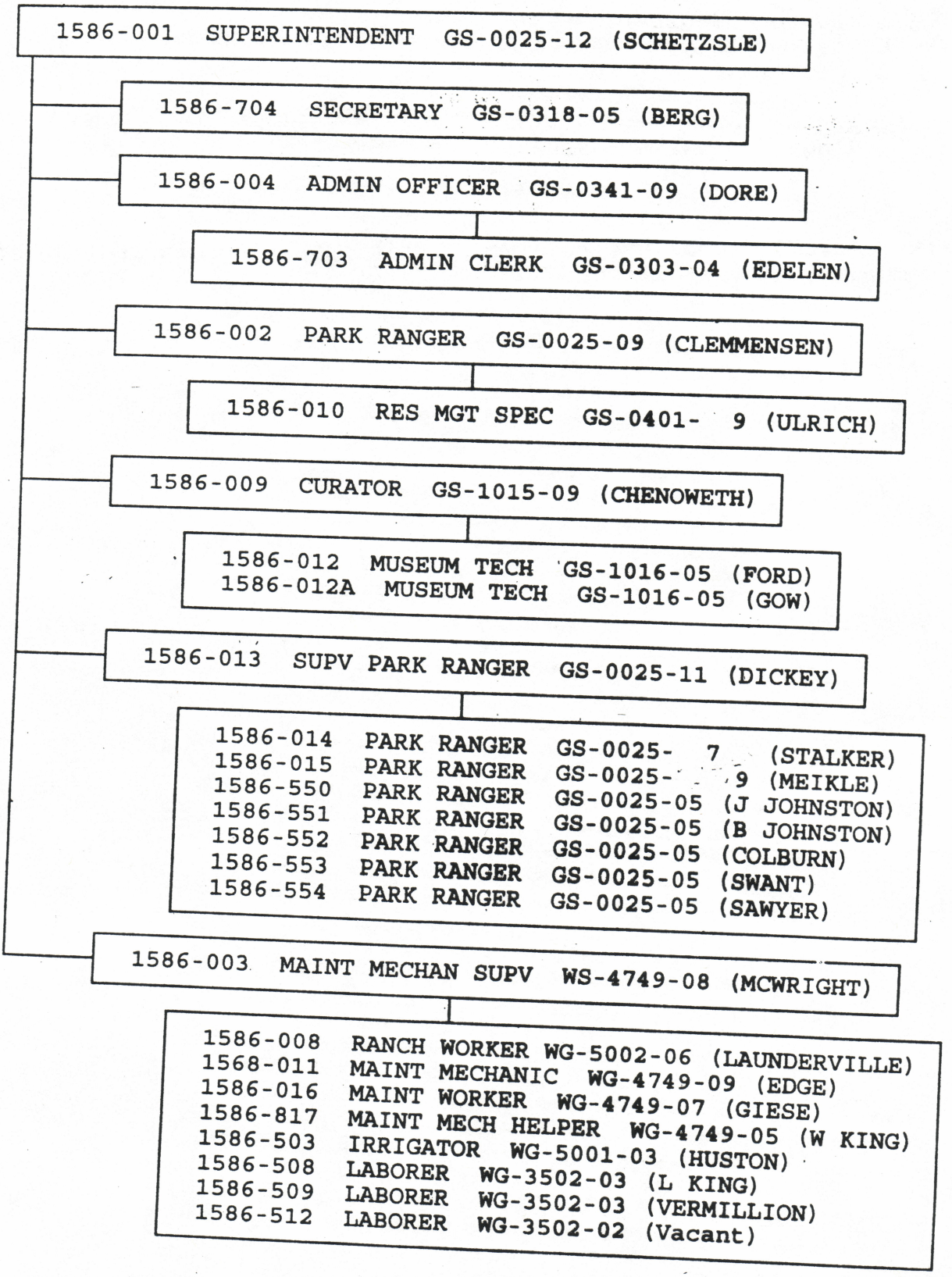
Chief Interp. GS-025-11	1.0	
Pk. Ranger GS-025-9	1.0	
Pk. Ranger GS-025-7	1.0	1.0

Seasonals:

5 Pk. Ranger GS-025-5	2.2	

**When cyclic funds are received, additional FTEs are requested from our regional office.

GRANT-KOHRS RANCH NATIONAL HISTORIC SITE ORGANIZATION CHART



REVISED AND CURRENT - August 29, 1994

12/31/94
13:06:35

TABLE 1
NPS RESOURCE PERSONNEL
(current year only)

FY: 94
PARK: GRKO
REGION: RMRO

TYPE OF NPS EMPLOYEE	FTEs OF RESOURCES WORK		
	Natural	Cultural	Total
Research Scientists	0.0	0.0	0.0
Resources Specialists	1.0	2.0	3.0
025 Park Rangers Res Mgmt	1.0	0.0	1.0
025 Park Rangers Res Prot	0.0	0.0	0.0
025 Park Rangers Res Interp	0.0	0.1	0.1
Maintenance Personnel	0.0	6.7	6.7
Total of RES Personnel	2.0	8.8	10.8
TOTAL PARK FTE: 20.0 PERCENT	10.0%	44.0%	54.0%

nd of data

FUNDING SOURCE	TOTAL	RES	MIT	MON	PRO	INT	ADM
PCR1	302.00	33.20	268.80	0.00	0.00	0.00	0.00
NSTA	22.30	4.50	14.80	0.00	0.00	0.00	3.00
NOTH	3.00	0.00	3.00	0.00	0.00	0.00	0.00
RCCM	66.00	5.00	61.00	0.00	0.00	0.00	0.00
RMCM	35.00	0.00	35.00	0.00	0.00	0.00	0.00
ROTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RMRR	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCR2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOTH	8.00	0.00	8.00	0.00	0.00	0.00	0.00
PNR1	99.80	0.00	11.10	0.00	0.00	0.00	88.70
RNSR	2.00	2.00	0.00	0.00	0.00	0.00	0.00
RNRM	8.00	8.00	0.00	0.00	0.00	0.00	0.00
TOTAL	546.10	52.70	401.70	0.00	0.00	0.00	91.70

End of data

PROGRAMMING SHEET 1
CULTURAL
CURRENT YEAR FUNDED ACTIVITIES
($ in thousands)

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
001.000	MAINTENANCE OF HISTORIC STRUCTURES		STRC C12		PKBASE-CR	MIT	231.50	5.5	0.0	0.0	0.0	0.0	0.0	0.0	231.50	5.5
002.000	MUSEUM COLLECTION MANAGEMENT		OBJC C12		PKBASE-CR	RES	33.20	0.9	0.0	0.0	0.0	0.0	0.0	0.0	33.20	0.9
					PKBASE-CR	MIT	33.00	0.8	0.0	0.0	0.0	0.0	0.0	0.0	33.00	0.8
					ST-LOCAL	MIT	2.40	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.40	0.2
					Subtotal		68.60	1.9	0.00	0.0	0.00	0.0	0.00	0.0	68.60	1.9
003.000	NEWLY ACQUIRED PROPERTY MANAGEMENT		COMB C12		NON-NPS-O	MIT	3.00	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.4
004.000	RESTORE GROUNDS OF HIST. RANCH HOUSE, HS-1		CULL C13		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
005.000	MAINTAIN IRRIGATION SYSTEM		C12		RG-REG-MT	MIT	35.00	0.6	0.0	0.0	0.0	0.0	0.0	0.0	35.00	0.6
006.000	RESTORE FENCING SYSTEMS		C13		RG-CR-MTN	MIT	18.00	0.2	0.0	0.0	0.0	0.0	0.0	0.0	18.00	0.2
007.000	CONTINUE USE OF HISTORIC STRUCTURES FOR LIVESTOCK		STRC C13		REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
008.000	ADAPTIVE USE OF HISTORIC BUILDINGS		COMB C13		REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
009.000	INSTALL FIRE/SECURITY SYSTEM IN HIST. BUILDINGS		STRC C20 C19		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
010.000	INSTALL ELECTRICAL WIRING IN WARREN COMPLEX		STRC C13		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
011.000	UPGRADE SITE RADIO SYSTEM		STRC C13		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0

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PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
012.000	MOVE AND INSTALL HOME RANCH ELECTRICAL SERVICE		STRC	C13	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
013.000	INSTALL WATER & SEWER AT WARREN COMPLEX		STRC	C13	RG-REG-MT	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
014.000	REROOF HISTORIC HOUSE, HS-1, WITH TERNE PLATE		STRC	C12	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
015.000	REROOF RED BARN, HS-64		STRC	C12	RG-CR-MTN	MIT	43.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.00	0.0
016.000	RESTORE SW PORCH DECK, HS-1, HISTORIC HOUSE		STRC	C13	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
022.000	INSTALL/REPLACE U.V. FILTERS IN HIST. BLDGS.		STRC	C13	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
023.000	RESTORE GRANARY, HS-23		STRC	C13	REP-REHAB	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
024.000	RESTORE 7 FEED HOUSES AND 8 COW SHEDS		STRC	C13	REP-REHAB	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
025.000	RESTORE METAL BARN, HS-65		STRC	C13	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
026.000	RESTORE GRANARY, HS-31		STRC	C12	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
027.000	REPAIR SASH AND FRAMES FOR HS-1, HISTORIC HOUSE		STRC	C13	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
028.000	DEVELOP V.C. AND 135 ADMIN. BUILDING		STRC	C12	REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0

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PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
028.001	DEVELOP V.C. AND ADMIN. BUILDING PREPARE PLANS	135	STRC C12		RG-CR-MTN	ADM	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
029.000	MUSEUM STOR. SUBSTANDARD AND ENDANGERING OBJECTS		COMB C12	C01	REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
030.000	CONSTRUCT NEW MAINT. FACILITY		COMB C02	C01	REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
031.000	RECORD AND EVALUATE HIST. ARCHEOLOGICAL SITES		COMB C14		TEMP$-CR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
032.000	ARCHEOLOGICAL EVALUATION FOR HS-1 RESTORATION		COMB C14		TEMP$-CR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
033.000	COMPLETE ARCH. SURVEY TO CURRENT STANDARD		COMB C14		TEMP$-CR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
034.000	COMPLETE HISTORIC BASE MAP AND CSI		STRC C14		TEMP$-CR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
035.000	COMPLETE AND UPDATE LCS DATABASE AND MAINT. HSPGS		STRC C01	C06	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
036.000	COMPLETE ICAP EVALUATION OF ALL BUILDINGS		STRC C12		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
037.000	COMPLETE ADMINISTRATIVE HISTORY		COMB C08		REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
038.000	COMPLETE NAT'L REGISTER NOMINATION		STRC C10		RG-CR-MTN	RES	5.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.00	0.1

continued...

PROGRAMMING SHEET 1
CULTURAL
CURRENT YEAR FUNDED ACTIVITIES
($ in thousands)

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
039.000	PUBLISH RANCH-RELATED BOOKLET		COMB C01		REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
040.000	PUBLISH GRANT MEMOIRS FOR ETHNOGRAPHIC OVERVIEW		STRC C01		REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
041.000	COMPLETE HABS RECORDATION OF WARREN RESIDENCE		STRC C01 C12		REP-REHAB	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
042.000	PHOTOGRAPHICALLY RECORD 26 WARREN COMPLEX STRUC.		STRC C01 C02		REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
044.000	CONTINUE CONSERVATION OF MUSEUM COLLECTION		OBJC C15		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
045.000	MUSUEM ACCOUNTABILITY NOT TO STANDARD OR LACKING		COMB C01 C02		PKBASE-CR	MIT	3.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.1
046.000	HIRE FULL-TIME MUSEUM AID FOR HOUSEKEEPING		COMB C24		REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
047.000	STUDY HISTORIC RANCHING OPERATION		COMB C10		REG-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
048.000	COMPLETE RANCH HOUSE INTERIOR RESTORATION		COMB C14 C01		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
049.000	RESTORE RAILROAD CARS		STRC C13		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
050.000	PREPARE FURNISHING PLANS				RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0

continued...

PROGRAMMING SHEET 1
CULTURAL
CURRENT YEAR FUNDED ACTIVITIES
($ in thousands)

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
051.000	LOCATE MISSING ARCH. RESOURCES		OBJC	C14 C01	PKBASE-CR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
052.000	WRITE MUSEUM COLLECTION PLANNING DOCUMENTS		COMB	C01 C09	RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
053.000	MANAGE PESTS IN MUSEUM COLLECTION		COMB	C16 N01	PKBASE-CR	MIT	1.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.1
054.000	MICROFILM HISTORIC RECORDS		OBJC	C09 C12	RG-CR-MTN	RES	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
055.000	ADAPTIVE/CONSUMPTIVE USE OF ARTIFACTS		STRC	C13	No data											
056.000	HISTORIC RESOURCE STUDY OF WARREN ERA		COMB	C08	REG-OTHER	INT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
057.000	VISITOR USE STUDY		COMB	C01 C18	REG-OTHER	INT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
058.000	RESTORE GRAINERY (HS-6) & DAIRY BARN (HS-9)			C13	PKBASE-CR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
059.000	COMPLETE ACCESSIBILITY PLAN				SVC-OTHER	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
060.000	PAINT HISTORIC STRUCTURES		STRC	C12	RG-REG-MT	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
55 projects printed																
					Grand Total		408.10	8.9	0.00	0.0	0.00	0.0	0.00	0.0	408.10	8.9

End of data

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
001.000	MANAGEMENT OF RESOURCE PROGRAM		CULL	N08	PKBASE-NR	ADM	73.90	1.4	0.0	0.0	0.0	0.0	0.0	0.0	73.90	1.4
					ST-LOCAL	ADM	3.00	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.3
					Subtotal		76.90	1.7	0.00	0.0	0.00	0.0	0.00	0.0	76.90	1.7
002.000	COMPILE BASELINE NATURAL RESOURCE INVENTORY		CULL	N20	RG-NS-RES	RES	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
003.000	COMPLETE VEGETATION IMPACT ASSESSMENT		CULL	N20	RG-NS-RES	RES	2.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.1
004.000	COMPLETE SOIL ANALYSIS OF HEAVY METALS ALONG RIVER			N20	RG-NS-RES	RES	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
005.000	DEVELOP AGRICULTURAL USE PLAN		CULL	N08 C01	PKBASE-NR	MIT	2.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.1
006.000	PREPARE FIRE MANAGEMENT PLAN			N07	PKBASE-NR	ADM	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
007.000	COMPLETE WATER RESOURCE MANAGEMENT PLAN			N11 N20	PKBASE-NR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
008.000	CONTINUE NOXIOUS WEED CONTROL PROGRAM		CULL	N05	PKBASE-CR	MIT	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0
009.000	STABILIZE STREAM BANKS		CULL	N12	RG-NS-RES	RES	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
010.000	EVALUATE POTENTIAL MINING AND MINERAL ISSUES			N10	PKBASE-NR	MIT	4.00	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.00	0.2
011.000	COMPLETE GEOLOGIC STUDY			N10	RG-NS-RES	RES	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0

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PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
012.000	ACCESS WHITE TAILED DEER POPULATION SITUATION			N01	RG-NS-RES	RES	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
013.000	COMPLETE ENTOMOLOGY STUDY OF ENTIRE RANCH SITE			N20	RG-NS-RES	RES	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
014.000	CARRY OUT NAT. RES. MGT. MONITORING PROGRAM			N20	PKBASE-NR	MIT	2.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.1
016.000	SURVEY NEW LAND TO ESTABLISH BOUNDARY			N20	ST-LOCAL	RES	1.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.1
017.000	UPDATE RIGHTS-OF-WAY			N24	PKBASE-NR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
018.000	CHANGE BOUNDARY TO ADD 120 ACRES OWNED BY NPS			N16 N08	No data											
019.000	COORDINATE SUPERFUND AND COMPILE PREVIUS RESEARCH			N20	PKBASE-NR	ADM	7.50	0.2	0.0	0.0	0.0	0.0	0.0	0.0	7.50	0.2
020.000	ACQUIRE NATIVE GRASSLAND PARCEL			N08	No data											
021.000	REMOVE PARKWIDE INVENTORY OF HAZARDOUS MATERIALS			N24	SVC-OTHER	MIT	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.00	0.0
					PKBASE-NR	MIT	3.10	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.10	0.1
					Subtotal		11.10	0.1	0.00	0.0	0.00	0.0	0.00	0.0	11.10	0.1
022.000	TOXICOLOGICAL EVALUATION OF FLOOD PLAIN "SLICKENS"				RG-RM-NAT	RES	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.00	0.0

continued...

PROGRAMMING SHEET 1
NATURAL
CURRENT YEAR FUNDED ACTIVITIES
($ in thousands)

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
023.000	COTTONWOOD CREEK NATURE TRAIL				ST-LOCAL	MIT	8.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.00	0.0
023.001	COTTONWOOD CREEK NATURE TRAIL--EDUCATIONAL OUTREACH				ST-LOCAL	RES	3.50	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.50	0.1
024.000	RESTORE COTTONWOOD CREEK		N12		PKBASE-NR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
025.000	LAND APPLICATION OF SEWAGE EFFLUENT		N11		PKBASE-NR	ADM	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
25 projects printed																
					Grand Total		126.30	2.7	0.00	0.0	0.00	0.0	0.00	0.0	126.30	2.7

End of data

PROGRAMMING SHEET 1
NATURAL and CULTURAL
CURRENT YEAR FUNDED ACTIVITIES
($ in thousands)

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	CURRENT YEAR 1994 $$	CURRENT YEAR 1994 FTE	OUTYEAR 1 1995 $$	OUTYEAR 1 1995 FTE	OUTYEAR 2 1996 $$	OUTYEAR 2 1996 FTE	OUTYEAR 3 1997 $$	OUTYEAR 3 1997 FTE	TOTAL $$	TOTAL FTE
001.000	UPDATE IPM PLAN		OBJC	N20 C16	PKBASE-NR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
002.000	REESTABLISH TREE COVER ALONG SOUTH BOUNDARY		COMB	N01 C18	PKBASE-NR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
003.000	PROTECT HISTORIC SCENE WEST OF RANCH COMPLEX			C18	No data											
004.000	DIGITIZE NATURAL AND CULTURAL GIS DATA BASE LAYERS			C01 N20	PKBASE-NR	ADM	7.30	0.2	0.0	0.0	0.0	0.0	0.0	0.0	7.30	0.2
					ST-LOCAL	MIT	4.40	0.4	0.0	0.0	0.0	0.0	0.0	0.0	4.40	0.4
					Subtotal		11.70	0.6	0.00	0.0	0.00	0.0	0.00	0.0	11.70	0.6
005.000	COMPLETE AERIAL PHOTOGRAPHY FOR GIS MAPPING			C01 N20	PKBASE-NR	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
006.000	PREPARE CULTURAL LANDSCAPE REPORT AND PLAN		COMB		RG-CR-MTN	MIT	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
6 projects printed																
					Grand Total		11.70	0.6	0.00	0.0	0.00	0.0	0.00	0.0	11.70	0.6

End of data

PROGRAMMING SHEET 2
CULTURAL
UNFUNDED ACTIVITIES
($ in thousands)

PK PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
0	001.000	MAINTENANCE OF HISTORIC STRUCTURES		STRC	C12	PKBASE-CR	MIT	0.0	0.0	250.00	6.2	270.00	6.2	300.00	6.2	820.00	18.6
0	002.000	MUSEUM COLLECTION MANAGEMENT		OBJC	C12	PKBASE-CR	RES	0.0	0.0	33.20	1.0	35.00	1.0	37.00	1.0	105.20	3.0
						PKBASE-CR	MIT	0.0	0.0	45.00	2.0	45.00	2.0	45.00	2.0	135.00	6.0
						Subtotal		0.00	0.0	78.20	3.0	80.00	3.0	82.00	3.0	240.20	9.0
0	003.000	NEWLY ACQUIRED PROPERTY MANAGEMENT		COMB	C12	NON-NPS-O	MIT	0.0	0.0	3.00	0.0	3.00	0.0	3.00	0.0	9.00	0.0
0	004.000	RESTORE GROUNDS OF HIST. RANCH HOUSE, HS-1		CULL	C13	RG-CR-MTN	MIT	30.00	1.0	0.0	0.0	0.0	0.0	0.0	0.0	30.00	1.0
0	005.000	MAINTAIN IRRIGATION SYSTEM			C12	RG-REG-MT	MIT	30.00	0.0	6.00	0.0	0.0	0.0	8.00	0.0	44.00	0.0
0	006.000	RESTORE FENCING SYSTEMS			C13	RG-CR-MTN	MIT	0.0	0.0	22.00	2.0	12.00	1.0	0.0	0.0	34.00	3.0
0	007.000	CONTINUE USE OF HISTORIC STRUCTURES FOR LIVESTOCK		STRC	C13	No data											
0	008.000	ADAPTIVE USE OF HISTORIC BUILDINGS		COMB	C13	No data											
0	009.000	INSTALL FIRE/SECURITY SYSTEM IN HIST. BUILDINGS		STRC	C20 C19	RG-CR-MTN	MIT	85.00	0.0	500.00	0.0	0.0	0.0	0.0	0.0	585.00	0.0
0	010.000	INSTALL ELECTRICAL WIRING IN WARREN		STRC	C13	RG-CR-MTN	MIT	35.00	0.5	0.0	0.0	0.0	0.0	0.0	0.0	35.00	0.5

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PR PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
		COMPLEX															
0	011.000	UPGRADE SITE RADIO SYSTEM		STRC	C13	RG-CR-MTN	MIT	30.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.00	0.0
0	012.000	MOVE AND INSTALL HOME RANCH ELECTRICAL SERVICE		STRC	C13	RG-CR-MTN	MIT	20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.00	0.0
0	013.000	INSTALL WATER & SEWER AT WARREN COMPLEX		STRC	C13	RG-REG-MT	MIT	65.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.00	0.0
0	014.000	REROOF HISTORIC HOUSE, HS-1, WITH TERNE PLATE		STRC	C12	RG-CR-MTN	MIT	45.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.00	0.0
0	015.000	REROOF RED BARN, HS-64		STRC	C12	No data											
0	016.000	RESTORE SW PORCH DECK, HS-1, HISTORIC HOUSE		STRC	C13	RG-CR-MTN	MIT	25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.00	0.0
0	060.000	PAINT HISTORIC STRUCTURES		STRC	C12	RG-REG-MT	MIT	10.00	0.0	10.00	0.0	10.00	0.0	10.00	0.0	40.00	0.0
0	028.001	DEVELOP V.C. 135 AND ADMIN. BUILDING PREPARE PLANS		STRC	C12	RG-CR-MTN	MIT	50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.00	0.0
0	022.000	INSTALL/REPL ACE U.V. FILTERS IN HIST. BLDGS.		STRC	C13	RG-CR-MTN	MIT	6.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.00	0.0

continued...

PROGRAMMING SHEET 2
CULTURAL
UNFUNDED ACTIVITIES
($ in thousands)

PR PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
0	023.000	RESTORE GRANARY, HS-23		STRC	C13	REP-REHAB	MIT	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	024.000	RESTORE 7 FEED HOUSES AND 8 COW SHEDS		STRC	C13	REP-REHAB	MIT	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	025.000	RESTORE METAL BARN, HS-65		STRC	C13	RG-CR-MTN	MIT	20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.00	0.0
						REP-REHAB	MIT	0.0	0.0	15.00	0.0	0.0	0.0	0.0	0.0	15.00	0.0
						Subtotal		20.00	0.0	15.00	0.0	0.00	0.0	0.00	0.0	35.00	0.0
0	026.000	RESTORE GRANARY, HS-31		STRC	C12	RG-CR-MTN	MIT	5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.00	0.0
0	027.000	REPAIR SASH AND FRAMES FOR HS-1, HISTORIC HOUSE		STRC	C13	RG-CR-MTN	MIT	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	028.000	DEVELOP V.C. 135 AND ADMIN. BUILDING		STRC	C12	REG-OTHER	MIT	3899.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3899.00	0.0
0	029.000	MUSEUM STOR. SUBSTANDARD AND ENDANGERING OBJECTS		COMB	C12 C01	REG-OTHER	MIT	2340.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2340.00	0.0
0	031.000	RECORD AND EVALUATE HIST. ARCHEOLOGICAL SITES		COMB	C14	TEMP$-CR	MIT	50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.00	0.0
0	032.000	ARCHEOLOGICAL EVALUATION FOR HS-1 RESTORATION		COMB	C14	TEMP$-CR	RES	15.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.00	0.0

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PROGRAMMING SHEET 2
CULTURAL
UNFUNDED ACTIVITIES
($ in thousands)

PK PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
0	033.000	COMPLETE ARCH. SURVEY TO CURRENT STANDARD		COMB C14		TEMP$-CR	MIT	24.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.00	0.0
0	034.000	COMPLETE HISTORIC BASE MAP AND CSI		STRC C14		TEMP$-CR	MIT	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	035.000	COMPLETE AND UPDATE LCS DATABASE AND MAINT. HSPGS		STRC C01 C06		RG-CR-MTN	MIT	20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.00	0.0
0	036.000	COMPLETE ICAP EVALUATION OF ALL BUILDINGS		STRC C12		RG-CR-MTN	MIT	20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.00	0.0
0	037.000	COMPLETE ADMINISTRATIVE HISTORY		COMB C08		REG-OTHER	MIT	40.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.00	0.0
0	038.000	COMPLETE NAT'L REGISTER NOMINATION		STRC C10		RG-CR-MTN	RES	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	039.000	PUBLISH RANCH-RELATED BOOKLET		COMB C01		REG-OTHER	MIT	50.00	0.5	0.0	0.0	0.0	0.0	0.0	0.0	50.00	0.5
0	040.000	PUBLISH GRANT MEMOIRS FOR ETHNOGRAPHIC OVERVIEW		STRC C01		REG-OTHER	MIT	50.00	0.3	0.0	0.0	0.0	0.0	0.0	0.0	50.00	0.3
0	041.000	COMPLETE HABS RECORDATION OF WARREN RESIDENCE		STRC C01 C12		REP-REHAB	MIT	20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.00	0.0

continued...

PROGRAMMING SHEET 2
CULTURAL
UNFUNDED ACTIVITIES
($ in thousands)

PK PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
0	042.000	PHOTOGRAPHICALLY RECORD 26 WARREN COMPLEX STRUC.			STRC C01 C02	REG-OTHER	MIT	5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.00	0.0
0	044.000	CONTINUE CONSERVATION OF MUSEUM COLLECTION			OBJC C15	RG-CR-MTN	MIT	11.00	0.0	8.00	0.0	8.00	0.0	8.00	0.0	35.00	0.0
0	045.000	MUSUEM ACCOUNTABILITY NOT TO STANDARD OR LACKING			COMB C01 C02	RG-CR-MTN	MIT	0.0	0.0	19.00	1.0	19.00	1.0	0.0	0.0	38.00	2.0
0	046.000	HIRE FULL-TIME MUSEUM AID FOR HOUSEKEEPING			COMB C24	REG-OTHER	MIT	20.00	1.0	20.00	1.0	20.00	1.0	20.00	1.0	80.00	4.0
0	047.000	STUDY HISTORIC RANCHING OPERATION			COMB C10	REG-OTHER	RES	50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.00	0.0
0	048.000	COMPLETE RANCH HOUSE INTERIOR RESTORATION			COMB C14 C01	RG-CR-MTN	MIT	150.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.00	0.0
0	049.000	RESTORE RAILROAD CARS			STRC C13	RG-CR-MTN	MIT	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	051.000	LOCATE MISSING ARCH. RESOURCES			OBJC C14 C01	PKBASE-CR	MIT	3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.0
0	052.000	WRITE MUSEUM COLLECTION PLANNING DOCUMENTS			COMB C01 C09	RG-CR-MTN	MIT	10.00	0.6	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.6

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PROGRAMMING SHEET 2
CULTURAL
UNFUNDED ACTIVITIES
($ in thousands)

PK PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
0	053.000	MANAGE PESTS IN MUSEUM COLLECTION		COMB	C16 N01	PKBASE-CR	MIT	0.0	0.0	11.00	0.4	11.00	0.4	11.00	0.4	33.00	1.2
0	054.000	MICROFILM HISTORIC RECORDS		OBJC	C09 C12	RG-CR-MTN	RES	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	030.000	CONSTRUCT NEW MAINT. FACILITY		COMB	C02 C01	REG-OTHER	MIT	506.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	506.00	0.0
0	050.000	PREPARE FURNISHING PLANS				RG-CR-MTN	MIT	40.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.00	0.0
0	055.000	ADAPTIVE/CONSUMPTIVE USE OF ARTIFACTS		STRC	C13	No data											
0	056.000	HISTORIC RESOURCE STUDY OF WARREN BRA		COMB	C08	REG-OTHER	INT	90.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0
0	057.000	VISITOR USE STUDY		COMB	C01 C18	REG-OTHER	INT	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	058.000	RESTORE GRAINERY (HS-6) & DAIRY BARN (HS-9)			C13	PKBASE-CR	MIT	0.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.1
0	059.000	COMPLETE ACCESSIBILITY PLAN				SVC-OTHER	MIT	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
	55 projects printed																
						Grand Total		7959.00	4.0	942.20	13.6	433.00	12.6	442.00	10.6	9776.20	40.8

End of data

PROGRAMMING SHEET 2
NATURAL
UNFUNDED ACTIVITIES
($ in thousands)

PK PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
0	001.000	MANAGEMENT OF RESOURCE PROGRAM		CULL	N08	PKBASE-NR	ADM	0.0	0.0	75.00	1.4	90.00	1.4	100.00	1.4	265.00	4.2
						PKBASE-NR	MIT	0.0	0.0	10.00	0.5	70.00	1.5	90.00	1.5	170.00	3.5
						Subtotal		0.00	0.0	85.00	1.9	160.00	2.9	190.00	2.9	435.00	7.7
0	002.000	COMPILE BASELINE NATURAL RESOURCE INVENTORY		CULL	N20	RG-NS-RES	RES	20.00	0.0	10.00	0.0	0.0	0.0	0.0	0.0	30.00	0.0
0	003.000	COMPLETE VEGETATION IMPACT ASSESSMENT		CULL	N20	No data											
0	004.000	COMPLETE SOIL ANALYSIS OF HEAVY METALS ALONG RIVER			N20	RG-NS-RES	RES	80.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.00	0.0
0	005.000	DEVELOP AGRICULTURAL USE PLAN		CULL	N08 C01	No data											
0	006.000	PREPARE FIRE MANAGEMENT PLAN			N07	No data											
0	007.000	COMPLETE WATER RESOURCE MANAGEMENT PLAN			N11 N20	WATER-RES	MIT	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
						PKBASE-NR	MIT	6.10	0.2	0.0	0.0	0.0	0.0	0.0	0.0	6.10	0.2
						Subtotal		7.10	0.2	0.00	0.0	0.00	0.0	0.00	0.0	7.10	0.2
0	008.000	CONTINUE NOXIOUS WEED CONTROL PROGRAM		CULL	N05	PKBASE-CR	MIT	0.0	0.0	0.30	0.0	0.40	0.0	0.0	0.0	0.70	0.0
0	009.000	STABILIZE STREAM BANKS		CULL	N12	RG-NS-RES	RES	10.00	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.2
0	010.000	EVALUATE POTENTIAL MINING AND			N10	No data											

continued...

PK PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
		MINERAL ISSUES															
0	011.000	COMPLETE GEOLOGIC STUDY		N10		RG-NS-RES	RES	2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.50	0.0
0	012.000	ACCESS WHITE TAILED DEER POPULATION SITUATION		N01		RG-NS-RES	RES	40.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.00	0.0
0	013.000	COMPLETE ENTOMOLOGY STUDY OF ENTIRE RANCH SITE		N20		RG-NS-RES	RES	40.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.00	0.0
0	014.000	CARRY OUT NAT. RES. MGT. MONITORING PROGRAM		N20		TEMP$-NR	RES	19.00	0.9	0.0	0.0	0.0	0.0	0.0	0.0	19.00	0.9
0	016.000	SURVEY NEW LAND TO ESTABLISH BOUNDARY		N20		RG-NS-RES	MIT	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.0
0	017.000	UPDATE RIGHTS-OF-WAY		N24		PKBASE-NR	MIT	3.00	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.2
0	018.000	CHANGE BOUNDARY TO ADD 120 ACRES OWNED BY NPS		N16	N08	No data											
0	019.000	COORDINATE SUPERFUND AND COMPILE PREVIUS RESEARCH		N20		PKBASE-NR	ADM	21.60	0.7	50.00	1.7	70.00	2.0	70.20	2.0	211.80	6.4

continued...

PROGRAMMING SHEET 2
NATURAL
UNFUNDED ACTIVITIES
($ in thousands)

PK PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
0	020.000	ACQUIRE NATIVE GRASSLAND PARCEL			N08	No data											
0	025.000	LAND APPLICATION OF SEWAGE EFFLUENT			N11	PKBASE-NR ADM		4.50	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.50	0.1
0	024.000	RESTORE COTTONWOOD CREEK			N12	PKBASE-NR ADM		3.80	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.80	0.1
						ST-LOCAL MIT		25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.00	0.0
						Subtotal		28.80	0.1	0.00	0.0	0.00	0.0	0.00	0.0	28.80	0.1
0	021.000	REMOVE PARKWIDE INVENTORY OF HAZARDOUS MATERIALS			N24	No data											
0	022.000	TOXICOLOGICAL EVALUATION OF FLOOD PLAIN "SLICKENS"				No data											
0	023.001	COTTONWOOD CREEK NATURE TRAIL--EDUCATIONAL OUTREACH				No data											
0	023.000	COTTONWOOD CREEK NATURE TRAIL				No data											
	25 projects printed																
						Grand Total		286.50	2.4	145.30	3.6	230.40	4.9	260.20	4.9	922.40	15.8

End of data

PROGRAMMING SHEET 2
NATURAL and CULTURAL
UNFUNDED ACTIVITIES
($ in thousands)

PK PRI	PROJECT NUMBER	PROJECT TITL	PKG NUM	CULT RES TYPE	SYSTEM-WIDE ISSUE	FUNDING SOURCE	ACT TYP	STARTING YEAR $$	STARTING YEAR FTE	OUTYEAR 1 $$	OUTYEAR 1 FTE	OUTYEAR 2 $$	OUTYEAR 2 FTE	OUTYEAR 3 $$	OUTYEAR 3 FTE	TOTAL $$	TOTAL FTE
0	001.000	UPDATE IPM PLAN		OBJC	N20 C16	PKBASE-NR	MIT	5.00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.00	0.1
0	002.000	REESTABLISH TREE COVER ALONG SOUTH BOUNDARY		COMB	N01 C18	PKBASE-NR	MIT	3.00	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.2
0	003.000	PROTECT HISTORIC SCENE WEST OF RANCH COMPLEX			C18	N08 No data											
0	004.000	DIGITIZE NATURAL AND CULTURAL GIS DATA BASE LAYERS			C01	N20 GIS	MIT	10.00	0.4	0.0	0.0	0.0	0.0	0.0	0.0	10.00	0.4
0	005.000	COMPLETE AERIAL PHOTOGRAPHY FOR GIS MAPPING			C01	N20 PKBASE-NR	MIT	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0
0	006.000	PREPARE CULTURAL LANDSCAPE REPORT AND PLAN		COMB		RG-CR-MTN	MIT	80.00	0.0	0.00	0.0	0.0	0.0	0.0	0.0	80.00	0.0
	6 projects printed																
						Grand Total		98.80	0.7	0.00	0.0	0.00	0.0	0.00	0.0	98.80	0.7

End of data

APPENDIX A: CONTRIBUTORS

Grant-Kohrs Staff:

Cheryl Clemmensen, Chief of Resource Management and Resource Management Plan Coordinator
Tom Ulrich, Resource Management Specialist
Randi Sue Bry, Past Curator
Christine Ford, Museum Technician
Michael McWright, Chief of Maintenance
Lyndel Meikle, Acting Chief of Interpretation
Peggy Gow, Museum Technician
Robert Chenoweth, Curator
Susan Sawyer, Interpreter

Rocky Mountain Regional Staff Consultants:

Tom Wylie, Resource Management Specialist
Rodd Wheaton, Chief, Division of Cultural Resources
Rick Cronenberger, Regional Historic Architect
Ann Johnson, Archeologist, Cultural Resources
Steve Chaney, Chief of Natural Resource Management

Glacier National Park Staff Consultant:

Cliff Martinka, Chief Scientist