

Resources Management Plan



Aztec Ruins National Monument

Approved

Superintendent

Date

3/25/94

Introduction

Aztec Ruins National Monument was established in 1923 by Presidential Proclamation 1650 (January 24, 1923, 42 stat. 2295, appended). In recognition of a "ruin of great antiquity and historical interest," President Warren G. Harding established the national monument "with a view to the preservation of said ruin for the enlightenment and culture of the Nation."

The ruin to which the proclamation refers is the West Ruin, a multi-story masonry pueblo of about 450 rooms. Dendrochronology indicates initial building dates of about 1110 through 1120, with repairs and remodeling continuing through the first half of the 12th century. Building style and artifacts recovered indicate that the prehistoric Anasazi culture, or Ancestral Pueblo people as many of their pueblo descendants prefer them to be called, settled and built here. The first inhabitants were closely related to people who lived at Chaco Canyon to the south. But remodeling and artifacts from later use of the pueblo in the 13th century indicate the later people were more closely related to those living at Mesa Verde to the north.

Archeologist Earl Morris excavated much of the building from 1916 through 1922 under the auspices of New York's American Museum of Natural History. The initial monument boundaries included the West Ruin. But lands surrounding this building have additional related structures, including large and small pueblos, roadways, kiva-like depressions, middens, and mounds.

Several parcels added in later years included some of these features and brought the monument to 27.14 acres by 1948. Public Law 100-559, October 28, 1988, title VI, expanded the monument boundaries to about 318 acres. Acquisition of parcels within the expanded boundaries progressed slowly since 1988. As of February, 1996, total acquired acreage in the monument was 38.37 acres. Further acquisition awaits additional appropriations.

The General Management and Development Concept Plan (GMP), approved in September, 1989, describes the significance of the monument, which "lies in its great physical remains, the stories of past cultures that occupied the Animas River valley, and its role in a larger regional prehistoric context. Because of its many unexcavated features, the monument holds great potential for future scientific inquiry into the archeology of the American Southwest. In addition, because of its association with early-day archeologist Earl Morris, the story of Aztec Ruins encapsulates the history of American archeology throughout the Southwest."

The monument was named to the World Heritage List in 1987 because of its status as a Chacoan outlier.

The following resource related management objectives are listed in the GMP:

Identify, evaluate, protect, preserve, and mitigate deterioration and vandalism of prehistoric and historic resources that trace human use of the area.

Investigate and fully document/record the monument's cultural resources to benefit future scientific research and interpretation and facilitate ongoing stabilization and maintenance operations.

Operate an ongoing, comprehensive cultural resource maintenance program cognizant of the cultural affiliations, integrity, and scientific value of the ruins.

Obtain sufficient knowledge of the story of Aztec Ruins and related areas, and of the role of Aztec Ruins in American Southwest archeology to ensure an adequate data base for full interpretive development.

Eliminate or mitigate all significant external and internal threats to the cultural resources of the monument.

Manage the natural resources to preserve the scene and to complement the monument's cultural resources, visitor uses and facilities.

Ensure an adequate supply of water for current and future needs.

The Resources Management Plan (RMP) reflects these objectives and needs identified in the GMP. Cost projections are estimates that are subject to change with further project planning. As lands within the 1988 expanded boundaries are acquired, the RMP will be updated and projects added to reflect management needs.

**Present Resource Status--Natural Resources
Summary Table of Natural Resources Baseline Information**

Meets, does not meet, or exceeds the recommended minimal set of natural resources information in Appendix A of NPS-75, the *Natural Resources Inventory and Monitoring Guideline*.

Inventory Components	Meets	Does Not Meet	Exceeds
Historical Database		x	
Species Information		x	
Species List		x	
Biological Surveys (Species Field Inventories)		x	
Species Distribution		x	
Vegetation Maps		x	
Cartographic Maps		x	
Soils Map		x	
Geology Map		x	
Water Resources Inventory		x	
Water Quality Data		x	
Air Quality Stations		x	
Air Quality Data		x	
Precip./Meteorological Data	x		

Present Resource Status--Natural Resources Narrative for Baseline Information Summary Table

The primary resource is cultural. The management objective is to manage the natural resources to preserve the scene, assure preservation of the cultural resources, and complement the cultural resources, visitor uses, and facilities. Baseline information must enable the monument to meet that objective.

Although we do not meet most of the Level I standards for Inventory and Monitoring as described in NPS-75 (1992), presently the data are not critically needed for management. However, the present natural resource status is addressed only for the 38 acres the monument now owns. As the remaining 280 acres are acquired, our data needs may change dramatically to achieve our management objective. Some of those more critical needs for newly acquired acreage are cited below.

Historical Database

We have not tracked rare events, except for an occasional case incident record that mentions overflow of water from irrigation north of the monument boundary. We know of very few resource maps available, and there are no GIS maps. A search and compilation of historical scientific material stored in the park and bibliography of documents and scientific studies pertaining to natural resources of the park is needed.

Species Information

Plant and animal species lists compiled for the monument are not necessarily specific to the monument, but for a broader region surrounding the monument. Seasonal Park Ranger Ora Clark developed a plant list in 1950 for the region around Aztec Ruins. General mammal and bird lists for the area were developed through NPFAUNA and NPFLORA in 1994 and 1995. Members of the local Audubon Society developed a very complete birdlist specific to the monument in 1992. Beyond these few lists, we have no other lists developed, field inventories, or records of distribution. The need for accurate inventories and distribution will increase once we increase the monument's acreage.

Vegetation, Cartographic, Soils, and Geology Maps

There are no digital maps for the monument. However, USGS maps at the 1:24000 scale

exist. In addition, aerial photography exists, including black and white and infrared flown in 1974, in addition to black and white imagery flown in 1987. A 1979 Water Resources

Report No. 80-2, "Aztec Ruins Water Investigation" by Paul K. Christensen, describes to a minimal extent some of the soils in the monument where test wells were dug. This is sufficient for present needs.

Water Resources and Chemistry

There is no water resources inventory or map, nor information on water chemistry. The acreage presently owned within the monument does not include groundwater sources. However, the expanded monument boundaries border the Animas River on the east. In addition, there is a standing tailwater pond just north of the present acreage but within the boundary. Also, the monument uses irrigation water from the Animas River via Farmer's Ditch. Water Resources Report No. 80-2 mentioned above describes the local hydrology, some groundwater problems, and the nature of the aquifer. Elevations of the test wells need to be placed on a map. A water resources inventory and information on water chemistry will be needed for future management of expanded acreage.

Air Quality

Air quality is not a critical issue at Aztec Ruins because of its small size. Although there are no lists of air quality-related values and visibility goal, we do not foresee needing this except for information that might affect the preservation of the ruins.

Precipitation and Meteorological Data

The US Weather Service established a station at the monument, where we record temperature and precipitation. Unusual events such as high winds, extreme weather, ice, etc. are also recorded. These data are adequate for our needs.

Present Resource Status--Natural Resources Condition and Threats to the Resources

The monument was established for its cultural resource values. Natural resources are managed to complement these values. In past years we have expended relatively little attention to inventorying, monitoring, and caring for the natural resources. However, we will need to devote more attention to these resources, especially once more acreage is acquired.

One of the biggest natural resource problems is the presence of exotic species of grasses and plants, especially cheat grass, throughout the monument. A related problem is the presence of plants and grasses on or near ruin walls, whose roots dig into and break down the wall fabric. There are also many areas such as road tracks, social trails, landscaped areas, and work areas that need revegetation with native plants.

Water resources and rights are important. Water rights are known for the 38 acres within the monument, but not for all parcels within the expanded boundaries. An existing water right associated with irrigation needs documentation of use to assure its continued existence. Another water right associated with the well needs to be either exercised or the well sealed.

Animal populations within or near the monument boundary present several challenges. In past years we have had reports, must unsubstantiated, of deer poaching within monument boundaries. A thriving prairie dog colony exists just north and east of presently managed acreage and within the expanded boundaries. Feral dogs, cats, and rabbits (domestic rabbits that have been dumped in the monument) frequently wander or hunt in the monument and disturb some of the native animals.

Within the expanded boundaries on parcels not yet acquired are four wells, three of which produce gas and condensate while one was plugged. Once acquisition of any of these wells transpires, the monument will incur significant additional responsibilities in connection with 36 CFR 9B and other regulations.

Present Resource Status--Cultural Resources
Cultural Resources Documentation Checklist

Columns for documents not required for the park are blank.

Title	Current and Approved	Incomplete; Needs Revision or Updating	Needed
<i>Planning Documents</i>			
Preauthorization and Authorization			
Statement of Management (SFM)	x		
Outline of Planning Requirements (OPR)	x		
General Management Plan (GMP)	x		
Development Concept Plan (DCP)	x		
Resources Management Plan	x		
Interpretive Prospectus			
<i>Servicewide Inventories, Lists, Catalogs, and Registers</i>			
Cultural Resources Management Bibliography (CRBIB)		x	
Cultural Sites Inventory (CSI)			x
List of Classified Structures (LCS)	x		
National Catalog of Museum Objects	x		
Cultural Landscapes Inventory	x		
National Register of Historic Places		x	

Cultural Resources Documentation Checklist (cont.)

Title	Current and Approved	Incomplete, Needs Revision or Updating	Needed
<i>Basic cultural Resource Documents</i>			
Archeological Overview & Assessment		x	
Archeological Identification Studies			
Rapid Ethnographic Assessment Procedures			
Cultural Affiliation Study		x	
Ethnographic Landscape Study			x
Ethnographic Overview and Assessment			x
Ethnographic Oral Histories and Life Histories			
Ethnographic Program			x
Historic Resources Study			x
Historical Base Map		x	
Park Administrative History	x		
Scope of Collections Statement	x		
<i>Special Resource Studies and Plans</i>			
Archeological & Ethno. Collections Studies			x
Archeological Data Recovery Studies			x
Collection Management Plan		x	
Collection Storage Plan			x
Collection Condition Survey	x		
Cultural Landscape Report (CLR)			x

Ethnohistory			
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Cultural Resources Documentation Checklist (cont.)

Title	Current and Approved	Incomplete, Needs Revision or Updating	Needed
<i>Special Resource Studies and Plans (con.)</i>			
Exhibit Plan			x
Historic Furnishing Report			
Historic Structure Report (HSR)			x
Inventory & Condition Assessment Program (ICAP)			x
Social Impact Study			
Special History Study			
Traditional Use Study			
Visitor Use Study			x
Historic Structure Preservation Guide		x	
Backfilling Plan			x

Present Resource Status--Cultural Resources

Narrative for Cultural Resources Documentation Checklist

Despite its long history as a national monument and dense occurrence of significant cultural remains of World Heritage status, the monument is still lacking in many documentation needs. In contrast, however, some documentation such as the park's administrative history stands out as an excellent resource and model for that type of study.

Planning Documents

The monument's planning documents are all current for the present acreage. The General Management Plan even addresses management of the expanded monument boundaries and parcels yet to be acquired. However, some of the documents, such as the Statement for Management and certainly the Resources Management Plan, will need major revision when more acreage is added. With this revision of the introduction and narrative portions of the Resources Management Plan, it will be current for present acreage. The project statements are revised annually and projects added as needs are defined. There is no need for an interpretive prospectus. The 10-238 to Upgrade Interpretive Media, VC Exhibits, AV, and Waysides approved in 1993 serves as an interpretive prospectus as well.

Servicewide Inventories, Lists, Catalogs, and Registers

We have had no documentation of our cultural landscapes, but are looking forward to having some of this work done soon through a cooperative agreement with the University of Arizona. Information from this will enable contribution to the Cultural Landscapes Inventory and Cultural Sites Inventory. National Register nomination documentation for the archeological resources was completed in 1988 but as of this date was not submitted. National Register nomination documentation for the visitor center was begun in 1995 and will be completed in early 1996. The visitor center may not be eligible for National Register status.

Basic Cultural Resource Documents

The monument is weak in ethnographic documentation. A Cultural Affiliation Study was funded but as of early 1996 never completed with a final report. The value of the draft report was minimal. This study would be useful to help determine the need of the other ethnographic resource documents.

The outdated Archeological Overview and Assessment (compiled in 1977 by Park Ranger Bill Schardt) needs to be updated in order to be useful. However, this and other

archeological documents should address all 318 acres. The need for some of these documents is diminished since the General Management Plan proceeded without their existence.

Special Resource Studies and Plans

Several special resource studies are needed. Several past archeological excavations, such as the 1984 excavation by Jim Trott, need to be analyzed and reported. Artifacts collected during Earl Morris excavations and stored at the American Museum of Natural History need analysis and reporting. Various other studies of artifacts stored at WACC and at the monument could be conducted. Updating the 1980 version of the Collections Management Plan is needed along with the Collections Storage Plan. Curator Toby Raphael from Harper's Ferry Design Center conducted a modified Collections Condition Survey in 1995 that is sufficient for present needs.

No work on cultural landscapes has been done, but we expect to begin work on a Cultural Landscape Inventory with University of Arizona in 1996. This work will be a good start to determine if we need further studies for cultural landscapes. An exhibit plan will be needed once funds are available to rehabilitate our present exhibits. Historic Structure Reports are needed for the prehistoric structures, great kiva, and possibly the visitor center. We have done no work with the Inventory & Condition Assessment Program. A Visitor Use Study will help us determine visitor impacts to the ruins and surface artifacts. A Traditional Use Study may be needed depending on information we gain from other ethnographic studies.

Other needed special studies and plans concern ruins stabilization. A 1979 Ruins Preservation Plan outlining ruins stabilization, maintenance, and treatment needs updating.

Archeologist Jim Trott began work on a Backfilling plan in 1995 and may finish it in 1996.

Present Resource Status--Cultural Resources Status of Cultural Resources

The summary charts following this narrative refer to the present 38 acres in the monument, except as noted.

Archeological Sites

A private contractor documented the archeological sites for the National Register of Historic Places in 1988, but the NPS did not submit it to the National Register. This document addresses the 27 acres of the monument as of that year, and defines it as one archeological site with 12 components. One of the components is the reconstructed great kiva. This document needs to be submitted to the National Register. It also needs updating after full acquisition of the 318 acres.

About 11 of the monument's 38 acres have not been surveyed for archeological resources. These acres are parcels acquired within the last several years.

Portions of acreage within the expanded boundaries were surveyed and reported in 1988 by John Stein and Peter McKenna in *An Archeological Reconnaissance of a Late Bonito Phase Occupation near Aztec Ruins*. These archeologists identified many additional features that expand the story at Aztec. Included are great houses, residential structures, middens, great kiva-like depressions, roadways, and earthworks. Most of these features presently lie on privately owned lands.

Acreage in the bottomlands but outside presently owned land within monument boundaries have not been surveyed. There are some known archeological sites in these areas.

The Archeological Overview and Assessment dates from 1977; an updated study is needed to help us decipher what archeological studies are needed in the future. The archeological base map is also dated, and should be updated to a GIS format with multiple layers of information to include development, below ground trenches and utility lines, past disturbances, etc.

Structures

The List of Classified Structures for Aztec lists five structures. They are the East ruin, West Ruin, Hubbard Ruin, Great Kiva, and Earl Morris Residence which is the visitor center. The summary chart includes these structure in addition to two other buildings, the Aztec Ruins Trading Post and associated apartment building.

In addition to the two large pueblos, the East and West Ruins, and the tri-wall structure called the

Hubbard ruin, there is a smaller pueblo called the Earl Morris Ruin, another confirmed tri-wall structure, Mound F, a possible third tri-wall structure, Mound A, and six other mounds of various sizes, some of which are trash middens, earthworks, and unknown structures. The features not listed on the LCS should not be considered structures for this document, since most are earth covered and do not retain enough integrity as structures.

The West Ruins and Hubbard Site have been extensively excavated and stabilized. Because of extensive deterioration, the Hubbard site was backfilled. It is considered in good condition with low impacts. Only 14 rooms of the East Ruin have been excavated with accompanying stabilization work. Both the East and West Ruins are considered in fair condition and exposed to moderate impacts.

There are continuing problems with the excavated ruins. The major deteriorating agents include moisture from precipitation; freeze-thaw; multiple preservation treatments, many of which are incompatible with the resource or past treatments; eroded wall capping, poor drainage, and differential soil levels throughout the excavated ruins. These actions have resulted in basal and wall capstone erosion; formation of voids; fallen veneer; moving or extensively cracked walls; eroded plaster; stone deterioration; and accelerated erosion from uneven deterioration of previous treatments.

A vibration study by Ken King in 1994 determined that vibrations from heavy truck traffic and some park vehicles are damaging or have the potential to damage some of the walls in the West Ruin and visitor center. King determined that at least one wall in the East Ruin will fail in the next five years if it is not stabilized.

Although intermittent stabilization has treated some of the problems, a substantial amount of work is needed to bring the ruins to a maintenance level. Causes of deterioration, such as improper water drainage and differential soil levels also need study.

A Historic Structure Report and Historic Structure Treatment Plan are needed for the prehistoric structures and Great Kiva. Their significance is well-documented. Baseline documentation of the prehistoric walls is needed, with capability to convert these data to photogrammetric maps. A Backfilling Plan, initiated in 1995 by archeologist Jim Trott, needs completion and implementation.

The visitor center, which was also Earl Morris' home and the American Museum of Natural History's field station, is one of four historic rather than prehistoric structures. Archeologist Earl Morris constructed the initial rooms beginning in 1919. Multiple additions and modifications over the years expanded its size and changed its appearance and configuration. It is used for a variety of purposes, including administrative offices, curatorial storage, exhibit area, and visitor contact. Rehabilitation of exhibits and remodeling of its interior to convert it to primarily visitor

use are identified in the GMP.

The structure receives regular maintenance such as painting. Occasional rehabilitation projects occur, such as repair of rotting vigas on the front porch completed in 1995, and installation of a sprinkler system in 1995-96. Recent inspection of the visitor center revealed additional problems with a deteriorating and inadequate foundation. The structure is considered in fair condition and exposed to moderate impacts. A Historic Structure Treatment Plan is needed for this structure.

Workers reconstructed the Great Kiva in 1934 on the site of the original structure. Original walls and features in the great kiva were dismantled for the reconstruction, so that very little if any of the prehistoric structure remains. Nearly all of the monument's 80,000+ visitors walk through the kiva. Stabilization activities have focused on interior painting, repointing of exterior mortar joints, and replacement of primary vigas. The structure is considered in good condition and exposed to low impacts.

The monument acquired the Aztec Ruins Trading Post and an associated stuccoed apartment building in 1993. The trading post was built about 1930 and used as a residence and store over the years. It underwent many structural and cosmetic modifications, so that it retains little of its appearance of 1930. The associated apartment building was built by 1934, and used as a residence for workers of the trading post. The interior was modified over the years to fit the needs of the trading post owners. As of 1996, the former owners of the trading post continue to operate their business in the trading post under a lease with the NPS. They are responsible for its upkeep. It is in good condition with low impacts. The monument is doing little for the upkeep of the apartment building. Its interior, roof, and flooring are in poor condition. The monument considers it a safety hazard.

The great kiva is included in the National Register documentation for the prehistoric elements within the monument. The documentation has not been submitted to the National Register. National Register documentation for the visitor center was contracted in 1995 and should be completed in early 1996. Under the same contract, the apartment building and trading post are being studied for a determination of their eligibility for the National Register.

Objects

The monument houses about 1500 archeological objects, and about 9 linear feet of archival objects, including photographs. The Western Archeological and Conservation Center (WACC) houses the bulk of remaining items, including approximately 63,500 objects transferred in 1991 from the NPS Southwest Regional Office. The backlog of 8,400 objects long held at the monument were transferred in 50 boxes to WACC in 1991. All of the transferred items were catalogued. There remain about 54,000 objects in the Southwest Regional Office needing cataloging. There are no items stored at WACC that need cataloging. Approximately 20

archeological objects at the monument remain to be cataloged. These consist of a few uncataloged items found in the collection and miscellaneous items found during stabilization and installation of the fire suppression system in the historic portion of the visitor center.

The vast majority of the collection consists of archeological objects. Over 12,000 catalog cards have been completed documenting approximately 116,263 archeological objects, 30 historic objects and 10,748 archival objects. The condition of most of the archeological objects is good to excellent. A small percentage (approximately 5%) need improved storage. Generally the archives are in good to excellent condition. Approximately 5%, consisting of nitrate negatives, are in poor condition and need to be copied onto stable material as soon as possible. Another 35% are in fair condition. The older stabilization reports should be copied onto acid free paper and some old photographs need improved storage. The historic collection is in good to excellent condition with the exception of three "CCC" period chairs that are in fair to poor condition. Two of the three chairs have received damage, one extensive, from past use in our visitor center. An Object Treatment Request was submitted in 1992 for the most severely damaged chair. All of these chairs were removed from public use areas.

The monument is in compliance with the standards of the NPS checklist for the Preservation, Protection and Documentation of Museum Property with the exception of a Housekeeping Plan for the museum and the updating of the Emergency Operating Plan and Structural Fire Plan to incorporate the special needs of the museum collection. The Collection Management Plan needs to be updated along with a Collection Storage Plan.

In the last 3 years over 600 catalog cards have been completed for over 10,000 items. This, in effect, abolishes the backlog of objects to be cataloged. Acquisition generally consists of a few items found in conjunction with stabilization activities which can be cataloged in house. The contract work for the fire suppression system resulted in approximately 200 bags of artifacts. These will be cataloged by the Intermountain Cultural Resource Center in Santa Fe.

Cultural Landscape

Defining and managing the cultural landscape has received little attention. However, we hope to start on a Cultural Landscape Inventory in 1996-97 with the University of Arizona. This document will help identify possible National Register status landscapes and further studies needed.

The character of the landscape during the approximate 200 years of occupation by the Ancestral Pueblo people is unknown. Historically, several factors have affected the monument landscape, including: visitor use with accompanying trails and picnic area, modern structures such as the visitor center, landscaping using non-native trees and vegetation (within the picnic area especially), a system of irrigation ditches, stabilization and excavation activities, agricultural

activities, and "beautification" projects that included a large amount of earthmoving. Development identified in the GMP includes rerouting of the existing interpretive trail, adding new interpretive trails, and removing some structures and vegetation.

Adjacent to the monument, modern developments are visible to the south, west, and north. Oil and gas drilling, a trailer park, a busy county road, and housing development affect the scene beyond park boundaries.

Ethnographic Resources

Pueblo peoples living in Arizona and New Mexico are the descendants of the Anasazi. A draft of a 1995 Cultural Affiliation Study suggests that Keresan speaking peoples, especially Western Keresan, (Zia, Santa Ana, Acoma, Laguna, Cochiti, Santo Domingo, San Felipe, Jemez) are more likely to have closer ties to Aztec than Tewa and Tanoan speaking peoples. Hopi and Zuni have also claimed ties and interest in Aztec. The Navajo Nation has expressed affiliation with Anasazi sites as well, although the Cultural Affiliation Study did not address their connection. This draft study was deficient in many respects. The study needs to be completed with a final draft report so that we will have reliable information regarding the affiliations of various tribes and the level of future consultation they want with the monument. Until that time, we are assuming that all Pueblo tribes, the Navajo Nation, and the Utes are affiliated with the monument and desire to be included in future consultation.

Although we have only scant information so far, the nature of the affiliations among the Pueblo peoples varies. At least one tribe, Hopi, indicated that a specific clan traces its origin to Aztec. Others indicated a general connection, citing Aztec and the rest of the Four Corners area as their homeland from which they migrated. The Navajos have a Navajo name for Aztec Ruins, and ethnographic literature shows that they cite this area in some of their ceremonies. Most of the tribes refer to Aztec as a sacred homeland for their ancestors and spiritual beings, and it remains important in their history and spiritual life today.

Traditional use of the monument is not well known. Hopis have danced in the Great Kiva. Occasionally Pueblo peoples come to do ceremony in the area, but the frequency of this activity is not known. It is unknown whether collection of resources takes place. The summary chart for ethnographic resources reflects the poor documentation we have. Until we obtain more information, we consider the entire site with included prehistoric structures as an important ethnographic resource for spiritual use for all Pueblo and Navajo peoples. In addition, there are certain objects in the collection (funerary items, human remains, items of cultural patrimony, ceremonial objects) considered an important ethnographic resource by these groups.

Very little consultation has occurred for NAGPRA matters or otherwise. One tribe participated in

a reburial several years ago. Aztec concurs with most of the consultation activities led by Chaco Culture National Historical Park, since many of the resources and their treatment are closely related to Aztec's. Aztec also heeds many of the recommendations generated by consultation efforts at Mesa Verde National Park. Most recently, we discontinued the Christmas Farolito Display at Aztec because Mesa Verde's consultation committee expressed a preference that this kind of display not be held in the ruins at Mesa Verde.

Cultural Context/Theme

The monument fits under the cultural theme of "Cultural Developments: Indigenous American Populations" as listed in *History and Prehistory in the National Park System and the National Historic Landmarks Program (1987)*. The sub-theme of "Prehistoric Archeology" further defines the general theme.

Categories of significance listed in the nomination for the National Register of Historic Places are: archeology--prehistoric, architectural, commerce, and engineering.

The following property types are associated with the general theme:

- Prehistoric structures and mounds
- Collection of prehistoric artifacts
- Collection of historic photographs
- Archival collection of excavation reports and correspondence

Summary Chart for Archeological Sites

Significance		Condition					Impacts				Documentation		
		Good	Fair	Poor	Destroyed	Unknown	Severe	Moderate	Low	Unknown	Good	Fair	Poor
National	1		1					1				1	
State & Regional													
Local													
Not Evaluated													
Totals	1		1					1				1	

Summary Chart for Structures

Significance		Condition				Impacts				Documentation		
	Total	Good	Fair	Poor	Unknown	Severe	Moderate	Low	Unknown	Good	Fair	Poor
National												
Contributing												
State												
Local												
Not Significant												
Not Evaluated	7	3	3	1		1	3	3			7	
Totals	7	3	3	1		1	3	3			7	

Summary Chart for Objects

Data were obtained from the annual Collection Management Report (Form 10-94)

Documentation Form 10-254 Submitted to National Catalog at Harpers Ferry	Archeology	Ethnology	History	Archive s	Biology	Paleontology	Geology	Totals
Registration Data Only								
Registration & Catalog Data	12041		21	219				12271
Total Items Cataloged	116263		30	10748				127041
Backlog to be Cataloged	20							
Total Collection Summary	116283		30	10748				127041

Condition The percentage of collection in the following categories:	Archeology	Ethnology	History	Archive s	Biology	Paleontology	Geology
Excellent	50		65	10			
Good	35		20	50			
Fair	15		5	35			
Poor			10	5			
Unknown							

Summary Chart for Cultural Landscapes

Significance		Condition				Impacts				Documentation		
	Total	Good	Fair	Poor	Unknown	Severe	Moderate	Low	Unknown	Good	Fair	Poor
National												
Contributing												
State												
Local												
Not Significant												
Not Evaluated	1		1					1				1
Totals	1		1					1				1

Summary Chart for Ethnographic Resources

Resource Types	National Register	Authority	Non-Recreational Use	Documentation Level
Archeological Sites Pueblo Navajo	inadequate documentation		religious, ceremonial	poor
Structures Pueblo Navajo	inadequate documentation		religious, ceremonial	poor
Objects Pueblo Navajo	inadequate documentation			poor
Natural Resources				
Ethnographic Landscapes Pueblo Navajo	inadequate documentation		religious, ceremonial	poor
Other				

Overview of Current Program and Needs

Management's foremost concern is that of arresting further deterioration of the cultural resources. Resource management efforts are therefore concentrated on stabilization of ruins and the projects and actions necessary to support stabilization activities. Stabilization includes inspecting and repairing damaged walls, maintaining protective roofs, maintaining drainage systems, and removing vegetation that may harm walls. Support projects for stabilization activities include documenting walls prior to taking actions and writing follow-up reports. Acquiring baseline documentation through photography is an important project for support and monitoring. In addition, NAGPRA consultation must be conducted for stabilization as well as other activities.

The monument's park staff is small, with only nine FTE available. The two divisions in the park involved in resource management include Interpretation and Resources Management (about 3.6 FTE) and Maintenance (about 3.6 FTE). Personnel in the I & RM division devote most of their time to interpretive activities, which include patrols that informally monitor the resources. The personnel in the Maintenance division devote most of their time to maintenance activities, which include upkeep of the historic visitor center. The following people most involved in resource management activities include:

025 GS11 Chief of Interpretation and Resources Management, Theresa Nichols

Responsible for assuring compliance, resources management plan review and updates, overseeing specific projects other than ruins stabilization. In FY95 she was involved at some level in the backfilling plan, sprinkler system, reviewing the cultural affiliation study, oral history program, ruins documentation, wood study, revegetation program, and visitor center national register nomination.

025 GS9 Park Ranger, Tracy Bodnar

Serves as collateral duty park curator, overseeing care of the on-site collection. In FY95, she was involved at some level in the wood study, collection condition survey, curating artifacts and archives, and transferring historic documents onto computer.

GS11 Facility Manager, Mike Sherris

Responsible for overall planning and some hands on work in ruins stabilization and visitor center rehab/repair projects. In FY95 he was active on some level in the visitor center sprinkler system, repairing rotten vigas on visitor center, ruins stabilization, roof repair, and the revegetation program.

WL8 Maintenance Work Leader, James Brown

Responsible for inspection and ruins stabilization, directing the masonry workers,

generating reports of annual stabilization work. In FY95 he was involved at some level in ruins stabilization, drain maintenance, roof repair, repairing rotten vigas on visitor center, revegetation program, and room documentation.

WG8 Masonry Worker, Harry Etcitty and Raymond Torrivio

These two workers are on four year temporary appointments and are employed at least 6 months annually. Their appointments will expire in 1999. These workers primarily perform ruins stabilization. In FY95, they worked on stabilization, roof repair, drain maintenance, rotten viga repair on the visitor center, the revegetation program, and the sprinkler system.

There are no positions on the staff dedicated to resources management. The two masonry workers perform janitorial and maintenance work in addition to masonry work. The Chief of I & RM spends about one third of her time on resource management, while the Maintenance Work Leader spends from one third to one half of his time on those activities. Both the Park Ranger-Curator and Facility Manager spend a relatively small amount of their time directly on resource management projects.

A top park priority is to get an archeologist or cultural resource specialist on the staff. The park finds it difficult to comply well with resource management responsibilities and the sizeable annual workload without dedicated staff. Even a part time or seasonal archeologist would benefit the park greatly and enable the park to begin or improve projects such as documentation and reporting of stabilization activities.

Adding a permanent staff archeologist will remain impossible until we acquire additional base funding and FTE. Until that time the park will seek help from the System Support Offices and Intermountain Cultural Resource Center. It will also explore sharing an archeologist with Chaco Culture and other parks.

Funding of employees already on staff is of great concern. The two masonry workers in the past have been supported by project funds that have been sporadic from year to year. The park hit a financial crisis in FY96 when it projected a \$65,000 shortfall in its base funding. It is seeking a permanent increase in its base to enable funding of all temporary and permanent employees.

But even though we are assured of having masonry workers on duty seasonally, this does not solve our need of having staff and funding to accomplish the support projects necessary to proceed with effective and legal stabilization. The backfilling plan, documentation, NAGPRA consultation, and compliance are all necessary if we are to proceed with our stabilization program. In the past we have done these support projects sometimes belatedly, sometimes not at all, and sometimes very minimally, usually using project funding,

Since much of our resource management effort is directed toward ruins stabilization and support

activities, many projects worthy of undertaking receive little attention. These include various research projects, historic structure reports, and natural resource projects. Although they are listed as lower priorities in our plan, many are still very important and necessary to accomplish. However, they don't compete well with immediate challenges of prehistoric walls threatening collapse or leaking roofs in the ruins.

There are 33 cultural resource project statements covering a variety of needs: ruins stabilization and preservation, collections preservation, archeological and historical research, historic structure and excavation reports, addition of park staff, and various resource studies.

There are 6 natural resource project statements covering primarily needs to support cultural resources. We need to identify additional projects and expand this section of the plan.

Active Filter: (No filter)

Output Selections:

Sorted by: Resource Type + Priority + Project Number

Yr : All years

Show subtotal after change in Resource Type

Show grand total

02/28/97

09:38:15

PROJECT LIST

Page: 0001

PRIORITY	PROJECT NUMBER	PROJECT TITLE	SUB-TITLE	FUNDED	UNFUNDED	PROP YEAR	LAST UPDATE
0	AZRU-C-011.000	UPDATE LIST OF CLASSIFIED STRUCTURES		1.40	0.00	1994	02/25/97
0	AZRU-C-023.000	PRODUCE CULTURAL AFFILIATION STUDY		21.35	0.00	1993	02/14/97
0	AZRU-C-034.000	DETERMINE NEED FOR VIBRATIONAL STUDY		2.20	0.00	1994	03/07/95
0	AZRU-C-036.000	REPAIR ROTTEN CANALES & VIGAS ON VISITOR CENTER		21.37	0.00	1994	03/18/96
0	AZRU-C-042.000	DESIGN AND INSTALL VC SPRINKLER SYSTEM		80.93	0.00	1994	02/24/97
1	AZRU-C-015.000	STABILIZE RUINS TO MAINTENANCE LEVEL		180.86	274.00	1991	02/14/97
2	AZRU-C-045.000	DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY		8.71	30.00	1996	02/24/97
3	AZRU-C-033.000	RESEARCH AND DOCUMENT PREHISTORIC ROOMS		8.73	57.00	1994	02/14/97
4	AZRU-C-039.000	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC R		34.75	50.00	1994	02/14/97
5	AZRU-C-037.000	HIRE PERMANENT STAFF ARCHEOLOGIST		0.00	192.00	1994	03/07/95
6	AZRU-C-044.000	CONDUCT NAGPRA CONSULTATIONS		2.05	45.00	1996	02/24/97
7	AZRU-C-047.000	REBURY HUMAN REMAINS AND FUNERARY ITEMS		0.00	12.00	1997	02/24/97
8	AZRU-C-020.000	WRITE & IMPLEMENT BACKFILLING PLAN		6.83	383.00	1994	02/24/97
9	AZRU-C-026.000	IMPLEMENT COLLECTION CONDITION SURVEY RECOMMEND		13.82	5.00	1994	03/20/96
10	AZRU-C-002.000	STUDY AND CORRECT WATER DRAINAGE PROBLEMS		1.98	156.00	1993	02/14/97
11	AZRU-C-021.000	CONDUCT ORAL HISTORY PROGRAM		0.63	20.00	1994	03/05/96
12	AZRU-C-009.000	PREPARE HISTORIC STRUCTURE PRESERVATION GUIDE		0.00	35.00	1994	03/03/95
13	AZRU-C-018.000	CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS		23.34	0.00	1991	02/24/97
14	AZRU-C-025.000	UPDATE COLLECTIONS PLANS		0.01	17.20	1994	03/19/96
15	AZRU-C-041.000	TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMP		5.53	8.13	1994	03/20/96
16	AZRU-C-024.000	PRODUCE CULTURAL RESOURCES BASE MAP		0.76	1.50	1994	02/14/97
17	AZRU-C-040.000	PREPARE CULTURAL LANDSCAPE INVENTORY		8.23	15.00	1994	02/24/97
18	AZRU-C-003.000	WRITE HISTORIC STRUCTURE REPORT EAST & WEST RUI		0.00	180.00	1994	03/20/96
19	AZRU-C-014.000	STUDY AND PRESERVE PREHISTORIC WOOD		25.88	10.00	1993	02/25/97
20	AZRU-C-029.000	WRITE REPORT OF 1984 EXCAVATION WORK		0.00	100.00	1994	03/07/95
	AZRU-C-043.000	REHAB GREAT KIVA INTERIOR		0.00	21.00	1995	08/10/95
99	AZRU-C-005.000	MONITOR PLASTER IN 156, CORRECT PROBLEMS		0.20	1.00	1993	02/14/97
99	AZRU-C-007.000	COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPO		11.12	20.00	1994	02/14/97
99	AZRU-C-008.000	WRITE HISTORIC RESOURCE STUDY		0.00	25.50	1994	/ /
99	AZRU-C-012.000	RECORD WALL BONDING IN WEST RUIN		0.00	5.00	1994	03/03/95
99	AZRU-C-017.000	TEST, EVALUATE, & RECORD MOUNDS AND FEATURES		0.00	6.00	1994	03/06/95
99	AZRU-C-022.000	WRITE ARCHEOLOGICAL OVERVIEW AND ASSESSMENT		0.00	20.00	1994	03/06/95
99	AZRU-C-027.000	ANALYZE & REPORT ON ARCHEOLOGICAL COLLECTIONS		0.00	150.60	1994	08/02/95
99	AZRU-C-028.000	DUPLICATE RELATED PAPERS AND PHOTOGRAPHS		0.00	9.80	1994	03/06/95
99	AZRU-C-030.000	SEARCH FOR IMAGERY OF CULTURAL RESOURCES		0.00	10.00	1994	03/07/95
99	AZRU-C-031.000	PRODUCE LOW SUN ANGLE IMAGERY OF AZTEC RUINS RE		0.00	10.00	1994	03/07/95
99	AZRU-C-032.000	SURVEY BOTTOMLANDS FOR ARCHEOLOGICAL RESOURCES		0.00	10.00	1994	03/07/95
99	AZRU-C-035.000	COMPLETE REPORT OF SITES ON EXPANDED BOUNDARIES		0.00	96.00	1994	03/07/95
99	AZRU-C-038.000	REPLACE "WARRIOR" EXHIBIT		1.50	0.00	1994	03/19/95
99	AZRU-C-046.000	UPGRADE MUSEUM STORAGE		0.00	10.00	1996	09/12/96
Resource Type Sub-total-----				462.18	1985.73		
1	AZRU-N-006.000	HIRE NATURAL RESOURCES MANAGEMENT SPECIALIST		0.00	54.00	1995	03/30/95
2	AZRU-N-010.000	PREPARE CULTURAL LANDSCAPE REPORT		0.00	35.00	1994	/ /
3	AZRU-N-005.000	REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING		16.72	10.00	1993	02/25/97
4	AZRU-N-004.000	CONTROL EXOTIC/NOXIOUS PLANTS AND ANIMALS		6.33	12.00	1993	03/20/96
5	AZRU-N-001.000	RESEARCH WATER RIGHTS, REPAIR WELL		0.00	23.00	1994	03/07/95
6	AZRU-N-003.000	REDUCE VEGETATION FIRE HAZARD		6.00	4.50	1992	/ /
Resource Type Sub-total-----				29.05	138.50		
Grand Total=====				491.23	2124.23		

46 projects printed

Active Filter: (No filter)

Output Selections:

Resource types included: CULTURAL/NATURAL

Initial fiscal year: 1993

Include projects only if funding data entered

02/28/97
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PROGRAMMING SHEET 1
CULTURAL/NATURAL
FUNDED ACTIVITIES
(\$ in thousands)

Page: 0001
FY: 1993
Park: AZRU
Cluster: CPSO

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	FUNDING SOURCE	ACT TYP	T Y	CURRENT YEAR 1993 \$\$ FTE	OUTYEAR 1 1994 \$\$ FTE	OUTYEAR 2 1995 \$\$ FTE	OUTYEAR 3 1996 \$\$ FTE	TOTAL \$\$ FTE
002.000 C	STUDY AND CORRECT WATER DRAINAGE PROBLEMS	140	SITE	C70	C05	RG-CR-MTN	MIT C	.00 .00	0.42 0.02	0.60 0.02	.00 .00	1.02 0.04
						RG-CR-MTN	MIT O	.00 .00	0.50 .00	.00 .00	.00 .00	0.50 0.00
						PKBASE-CR	MIT C	.00 .00	.00 .00	.00 .00	0.46 0.01	0.46 0.01
						Subtotal		.00 .00	0.92 0.02	0.60 0.02	0.46 0.01	1.98 0.05
005.000 C	MONITOR PLASTER IN 156, CORRECT PROBLEMS		SITE	C05	C06	PKBASE-OT	MON R	.00 .00	.00 .00	.00 .00	0.20 0.01	0.20 0.01
007.000 C	COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPORT	134	STRC	C52		CRPP	RES O	.00 .00	.00 .00	8.81 .00	.00 .00	8.81 0.00
						REG-OTHER	ADM O	.00 .00	.00 .00	0.75 0.01	0.75 0.01	1.50 0.02
						PKBASE-OT	ADM O	.00 .00	.00 .00	0.45 0.01	0.36 0.01	0.81 0.02
						Subtotal		.00 .00	.00 .00	10.01 0.02	1.11 0.02	11.12 0.04
011.000 C	UPDATE LIST OF CLASSIFIED STRUCTURES		SITE	C51		RG-CR-MTN	RES O	.00 .00	0.40 0.01	.00 .00	.00 .00	0.40 0.01
						CRPP	RES O	.00 .00	.00 .00	0.80 0.01	.00 .00	0.80 0.01
						PKBASE-OT	ADM O	.00 .00	.00 .00	0.20 0.01	.00 .00	0.20 0.01
						Subtotal		.00 .00	0.40 0.01	1.00 0.02	.00 .00	1.40 0.01
014.000 C	STUDY AND PRESERVE PREHISTORIC WOOD	135	SITE	C57	C04	PKBASE-OT	ADM C	2.00 0.10	0.50 .00	0.50 .00	0.15 .00	3.15 0.10
						\$-DONATE	RES C	2.60 .00	5.00 .00	.00 .00	.00 .00	7.60 0.00
						FED-OTHER	RES C	1.00 0.10	1.00 0.10	.00 .00	.00 .00	2.00 0.20
						PKBASE-OT	RES C	2.00 0.10	.00 .00	.00 .00	.00 .00	2.00 0.10
						NON-PROFI	RES C	.00 .00	1.00 0.10	5.50 .00	.00 .00	6.50 0.10
						VOL-INDEP	RES C	.00 .00	.00 .00	.00 0.04	.00 .00	0.00 0.04
						VOL-IN-PK	RES C	.00 .00	.00 .00	0.13 0.07	.00 0.05	0.13 0.12
						REG-OTHER	RES C	.00 .00	.00 .00	1.70 0.06	2.70 0.06	4.40 0.12
						PKBASE-CR	ADM C	.00 .00	.00 .00	0.10 .00	.00 .00	0.10 0.00
						Subtotal		7.60 0.30	7.50 0.20	7.93 0.17	2.85 0.11	25.88 0.78
015.000 C	STABILIZE RUINS TO MAINTENANCE LEVEL	132	SITE	C54	C55	RG-CR-MTN	MIT C	18.00 0.70	19.00 0.40	16.18 0.43	.00 .00	53.18 1.53
						PKBASE-OT	MIT C	24.00 0.60	1.00 .00	9.86 0.25	5.80 0.15	40.66 1.00
						PKBASE-OT	ADM C	3.60 0.20	1.50 0.10	0.80 0.02	0.56 0.01	6.46 0.33
						REP-REHAB	MIT C	.00 .00	19.00 0.40	.00 .00	.00 .00	19.00 0.40
						VOL-IN-PK	MIT O	.00 .00	.00 .00	.00 0.01	.00 .00	0.00 0.01
						VOL-INDEP	MIT O	.00 .00	.00 .00	.00 .00	0.48 0.02	0.48 0.02
						PKBASE-OT	RES O	.00 .00	.00 .00	.00 .00	2.58 0.06	2.58 0.06
						Subtotal		45.60 1.50	40.50 0.90	26.84 0.71	9.42 0.24	122.36 3.35
018.000 C	CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS		OBJC	C46		CRPP	MIT O	1.00 0.10	2.50 0.20	2.09 0.06	.00 .00	5.59 0.36
						PKBASE-OT	MIT O	2.00 0.10	0.25 0.01	.00 .00	.00 .00	2.25 0.11
						PKBASE-OT	ADM O	2.00 0.10	0.25 0.01	0.25 0.01	.00 .00	2.50 0.12
						CRPP	ADM O	.00 .00	.00 .00	5.00 .00	.00 .00	5.00 0.00
						VOL-IN-PK	MIT O	.00 .00	.00 .00	.00 .00	.00 0.01	0.00 0.01
						Subtotal		5.00 0.30	3.00 0.22	7.34 0.07	.00 0.01	15.34 0.60
020.000 C	WRITE & IMPLEMENT BACKFILLING PLAN	135	SITE	C57	C05	REG-OTHER	RES O	.00 .00	.00 .00	1.50 0.03	.00 .00	1.50 0.03
						PKBASE-OT	ADM O	.00 .00	.00 .00	0.20 0.01	0.25 0.01	0.45 0.01
						RG-CR-MTN	ADM O	.00 .00	.00 .00	0.38 .00	.00 .00	0.38 0.00
						RG-CR-MTN	RES O	.00 .00	.00 .00	.00 .00	4.50 0.08	4.50 0.08
						Subtotal		.00 .00	.00 .00	2.08 0.04	4.75 0.09	6.83 0.13

continued...

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PROGRAMMING SHEET 1
CULTURAL/NATURAL
FUNDED ACTIVITIES
(\$ in thousands)

Page: 0002
FY: 1993
Park: AZRU
Cluster: CPSO

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	FUNDING SOURCE	ACT TYP P	Y	CURRENT YEAR		OUTYEAR 1		OUTYEAR 2		OUTYEAR 3		TOTAL	
								1993		1994		1995		1996		\$	FTE
								\$	FTE	\$	FTE	\$	FTE	\$	FTE	\$	FTE
021.000 C	CONDUCT ORAL HISTORY PROGRAM			SITE C27 C38	PKBASE-OT	ADM	O	.00	.00	.00	.00	0.28	0.01	.00	.00	0.28	0.01
					PKBASE-OT	RES	O	.00	.00	.00	.00	0.05	0.01	.00	.00	0.05	0.01
					UNIV-COLL	ADM	O	.00	.00	.00	.00	0.30	.00	.00	.00	0.30	0.00
					Subtotal			.00	.00	.00	.00	0.63	0.02	.00	.00	0.63	0.02
023.000 C	PRODUCE CULTURAL AFFILIATION STUDY			SITE C25	SVC-OTHER	RES	O	20.00	.00	.00	.00	.00	.00	.00	.00	20.00	0.00
					PKBASE-OT	ADM	O	.00	.00	.00	.00	0.20	0.01	0.05	.00	0.25	0.01
					REG-OTHER	ADM	O	.00	.00	.00	.00	.00	.00	0.50	0.01	0.50	0.01
					Subtotal			20.00	.00	.00	.00	0.20	0.01	0.55	0.01	20.75	0.02
024.000 C	PRODUCE CULTURAL RESOURCES BASE MAP	134		SITE C63	PKBASE-OT	ADM	O	.00	.00	.00	.00	0.08	.00	0.18	.00	0.26	0.00
025.000 C	UPDATE COLLECTIONS PLANS	134		OBJC C41 C40	PKBASE-OT	ADM	O	.00	.00	.00	.00	0.01	.00	.00	.00	0.01	0.00
026.000 C	IMPLEMENT COLLECTION CONDITION SURVEY RECOMMENDATIN			OBJC C15	CRPP	RES	O	.00	.00	3.50	.00	.00	.00	.00	.00	3.50	0.00
					CRPP	MIT	O	.00	.00	8.70	.00	0.84	0.04	.00	.00	9.54	0.04
					PKBASE-OT	MIT	O	.00	.00	.00	.00	0.78	0.03	.00	.00	0.78	0.03
					Subtotal			.00	.00	12.20	.00	1.62	0.07	.00	.00	13.82	0.07
033.000 C	RESEARCH AND DOCUMENT PREHISTORIC ROOMS			SITE C03 C04	RG-CR-MTN	RES	O	.00	.00	1.30	0.01	.00	.00	0.90	0.01	2.20	0.02
					RG-CR-MTN	MIT	O	.00	.00	3.40	0.07	.00	.00	.00	.00	3.40	0.07
					\$-DONATE	RES	R	.00	.00	.00	.00	0.23	.00	.00	.00	0.23	0.00
					RG-CR-MTN	RES	R	.00	.00	.00	.00	1.10	0.04	.00	.00	1.10	0.04
					PKBASE-OT	RES	O	.00	.00	.00	.00	0.31	.00	0.41	0.01	0.72	0.01
					PKBASE-OT	RES	R	.00	.00	.00	.00	0.85	0.03	.00	.00	0.85	0.03
					PKBASE-OT	ADM	O	.00	.00	.00	.00	0.23	0.01	.00	.00	0.23	0.01
					Subtotal			.00	.00	4.70	0.08	2.72	0.08	1.31	0.02	8.73	0.18
034.000 C	DETERMINE NEED FOR VIBRATIONAL STUDY			SITE C57 C05	\$-DONATE	RES	O	.00	.00	1.80	.00	.00	.00	.00	.00	1.80	0.00
					PKBASE-OT	ADM	O	.00	.00	0.40	0.01	.00	.00	.00	.00	0.40	0.01
					Subtotal			.00	.00	2.20	0.01	.00	.00	.00	.00	2.20	0.01
036.000 C	REPAIR ROTTEN CANALS & VIGAS ON VISITOR CENTER			STRC C13	RG-CR-MTN	RES	O	.00	.00	2.00	.00	.00	.00	.00	.00	2.00	0.00
					RG-CR-MTN	MIT	O	.00	.00	.00	.00	14.85	0.21	.00	.00	14.85	0.21
					PKBASE-OT	ADM	O	.00	.00	.00	.00	0.38	0.01	.00	.00	0.38	0.01
					PKBASE-OT	MIT	O	.00	.00	.00	.00	1.14	0.03	.00	.00	1.14	0.03
					SPECIAL-\$	MIT	O	.00	.00	.00	.00	2.00	0.04	.00	.00	2.00	0.04
					RG-CR-MTN	ADM	O	.00	.00	.00	.00	1.00	0.02	.00	.00	1.00	0.02
					Subtotal			.00	.00	2.00	.00	19.37	0.31	.00	.00	21.37	0.31
038.000 C	REPLACE "WARRIOR" EXHIBIT			COMB C30	REG-OTHER	MIT	O	.00	.00	0.50	.00	.00	.00	.00	.00	0.50	0.00
					PKBASE-OT	ADM	O	.00	.00	1.00	0.01	.00	.00	.00	.00	1.00	0.01
					Subtotal			.00	.00	1.50	0.01	.00	.00	.00	.00	1.50	0.01
039.000 C	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC ROOFS			STRC C54 C55	RG-CR-MTN	MIT	R	.00	.00	1.40	0.02	3.01	0.09	.00	.00	4.41	0.11
					PKBASE-OT	ADM	R	.00	.00	.00	.00	0.15	0.01	.00	.00	0.15	0.01
					RG-CR-MTN	MIT	O	.00	.00	.00	.00	.00	.00	19.97	0.63	19.97	0.63
					PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	1.12	0.02	1.12	0.02
					PKBASE-OT	MIT	O	.00	.00	.00	.00	.00	.00	4.30	0.04	4.30	0.04
					REG-OTHER	ADM	O	.00	.00	.00	.00	.00	.00	1.20	0.02	1.20	0.02
					VOL-IN-PK	MIT	O	.00	.00	.00	.00	.00	.00	0.40	0.02	0.40	0.02
					VOL-INDEP	MIT	O	.00	.00	.00	.00	.00	.00	3.20	0.15	3.20	0.15
					Subtotal			.00	.00	1.40	0.02	3.16	0.10	30.19	0.88	34.75	1.00

Continued...

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PROGRAMMING SHEET 1
CULTURAL/NATURAL
FUNDED ACTIVITIES
(\$ in thousands)

Page: 0003
FY: 1993
Park: AZRU
Cluster: CPO

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	FUNDING SOURCE	ACT TYP Y P	CURRENT YEAR 1993 \$\$ FTE	OUTYEAR 1 1994 \$\$ FTE	OUTYEAR 2 1995 \$\$ FTE	OUTYEAR 3 1996 \$\$ FTE	TOTAL \$\$ FTE
040.000 C	PREPARE CULTURAL LANDSCAPE INVENTORY		COMB	C10	RG-CR-MTN PKBASE-OT CRPP	RES O ADM O RES O	.00 .00 .00 .00 .00 .00	0.50 0.01 .00 .00 .00 .00	1.00 0.02 0.23 0.01 6.00 .00	.00 .00 .00 .00 .00 .00	1.50 0.03 0.23 0.01 6.00 0.00
					Subtotal		.00 .00	0.50 0.01	7.23 0.03	.00 .00	7.73 0.04
041.000 C	TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMPUTER		OBJC	C03 C46	\$-DONATE VOL-IN-PK PKBASE-OT CRPP	MIT O MIT C ADM C MIT C	.00 .00 .00 .00 .00 .00 .00 .00	4.60 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 0.01 0.12 0.01 0.81 0.03	.00 .00 .00 .00 .00 .00 .00 .00	4.60 0.00 0.00 0.01 0.12 0.01 0.81 0.03
					Subtotal		.00 .00	4.60 .00	0.93 0.05	.00 .00	5.53 0.05
042.000 C	DESIGN AND INSTALL VC SPRINKLER SYSTEM	137	STRC	C55 C50	RG-CR-MTN PKBASE-OT CRPP REG-OTHER CRPP PKBASE-OT RG-CR-MTN PKBASE-CR RG-CR-MTN VOL-IN-PK	ADM O ADM O RES O MIT O MIT O MIT O MIT O MIT O RES O RES O	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00	4.20 0.02 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00	1.00 0.02 1.47 0.03 9.30 .00 2.03 0.05 51.01 .00 0.90 0.03 .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 0.34 0.01 .00 .00 .00 .00 .00 .00 1.74 0.03 5.00 0.07 0.45 0.01 3.49 0.08 .00 0.01	5.20 0.04 1.81 0.04 9.30 0.00 2.03 0.05 51.01 0.00 2.64 0.06 5.00 0.07 0.45 0.01 3.49 0.08 0.00 0.01
					Subtotal		.00 .00	4.20 0.02	65.71 0.13	11.02 0.21	80.93 0.36
044.000 C	CONDUCT NAGPRA CONSULTATIONS		ETHN	C30	PKBASE-OT	ADM R	.00 .00	.00 .00	.00 .00	1.95 0.03	1.95 0.03
045.000 C	DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY			C03	PKBASE-OT PKBASE-OT VOL-IN-PK REG-OTHER NON-PROFI REG-OTHER	ADM R RES R RES O RES O RES O ADM O	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 2.68 .00 0.07 .00 0.33 0.01	2.61 0.05 2.93 0.15 0.09 0.11 2.68 .00 0.07 .00 0.33 0.01
					Subtotal		.00 .00	.00 .00	.00 .00	8.71 0.32	8.71 0.32
004.000 N	CONTROL EXOTIC/NOXIOUS PLANTS AND ANIMALS			N04 N05	PKBASE-OT RG-CR-MTN RG-NS-RES	MIT R MIT R MIT R	0.80 .00 .00 .00 .00 .00	.00 .00 4.33 0.10 .00 .00	.00 .00 .00 .00 1.20 .00	.00 .00 .00 .00 .00 .00	0.80 0.00 4.33 0.10 1.20 0.00
					Subtotal		0.80 .00	4.33 0.10	1.20 .00	.00 .00	6.33 0.10
005.000 N	REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING		CULL	N05 N08	RG-NS-RES PKBASE-OT \$-DONATE PKBASE-OT RG-NS-RES VOL-IN-PK RG-CR-MTN VOL-INDEP NRPP	MON R ADM R MIT R ADM O MIT O MIT O MIT R MIT O MIT R	0.40 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 0.50 .00 0.50 0.02 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .00 .00 .00 .00 0.10 0.01 4.00 0.11 .00 0.05 2.47 0.08 .00 .00 .00 .00 .00 .00	.00 .00 0.60 0.01 .00 .00 0.15 .00 .00 .00 .00 .00 .00 .00 0.03 .00 4.00 0.20	0.40 0.00 1.10 0.01 0.50 0.02 0.25 0.01 4.00 0.11 0.00 0.05 2.47 0.08 0.00 0.03 4.00 0.20
					Subtotal		0.40 .00	1.00 0.02	6.57 0.25	4.75 0.24	12.72 0.51
25 projects printed											
Grand Total \$\$							79.40	90.95	165.23	77.45	413.03
Grand Total FTE							2.10	1.62	2.10	2.20	8.02

Active Filter: (No filter)

Output Selections:

Resource types included: CULTURAL/NATURAL

Initial fiscal year: 1993

Sold by PRIORITY within each park and type

Include projects only if funding data entered

02/28/97

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PROGRAMMING SHEET 2

CULTURAL/NATURAL

UNFUNDED ACTIVITIES

(\$ in thousands)

Page: 0001

FY: 1993

Park: AZRU

Cluster: CPSO

PK PRI	PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	ACT TYP	T Y	CURRENT YEAR		OUTYEAR 1		OUTYEAR 2		OUTYEAR 3		TOTAL	
								1993 \$\$	FTE	1994 \$\$	FTE	1995 \$\$	FTE	1996 \$\$	FTE	\$\$	FTE
1	015.000 C	STABILIZE RUINS TO MAINTENANCE LEVEL	132	SITE	C54 C55	MIT C ADM C		65.00 .00	3.00 .00	55.00 .00	2.50 .00	62.00 .00	2.00 .00	91.00 1.00	2.02 0.02	273.00 1.00	9.52 0.02
				Subtotal				65.00	3.00	55.00	2.50	62.00	2.00	92.00	2.04	274.00	9.54
2	045.000 C	DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY			C03			No unfunded data									
3	033.000 C	RESEARCH AND DOCUMENT PREHISTORIC ROOMS		SITE	C03 C04	RES O		.00	.00	17.00	0.50	20.00	0.50	20.00	0.50	57.00	1.50
4	039.000 C	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC ROOFS		STRC	C54 C55	MIT C MIT R ADM C		.00 .00 .00	.00 .00 .00	6.00 .00 .00	0.20 .00 .00	.00 .00 .00	.00 .00 .00	17.00 3.00 2.00	0.50 0.10 0.07	23.00 3.00 2.00	0.70 0.10 0.07
				Subtotal				.00	.00	6.00	0.20	.00	.00	22.00	0.67	28.00	0.87
5	037.000 C	HIRE PERMANENT STAFF ARCHEOLOGIST		SITE	C80	ADM R		.00	.00	48.00	1.00	48.00	1.00	48.00	1.00	144.00	3.00
4	044.000 C	CONDUCT NAGPRA CONSULTATIONS		ETHN	C30	RES O ADM R RES R		.00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00	.00 .00 .00	3.00 7.00 3.50	.00 0.20 .00	3.00 7.00 3.50	0.00 0.20 0.00
				Subtotal				.00	.00	.00	.00	.00	.00	13.50	0.20	13.50	0.20
8	020.000 C	WRITE & IMPLEMENT BACKFILLING PLAN	135	SITE	C57 C05	RES O MIT O ADM O		.00 .00 .00	.00 .00 .00	50.00 .00 .00	0.80 .00 .00	.00 100.00 .00	.00 4.00 .00	5.00 100.00 3.00	0.20 4.00 0.07	55.00 200.00 3.00	1.00 8.00 0.07
				Subtotal				.00	.00	50.00	0.80	100.00	4.00	108.00	4.27	258.00	9.07
9	026.000 C	IMPLEMENT COLLECTION CONDITION SURVEY RECOMMENDATIN		OBJC	C15	MIT O		.00	.00	2.00	0.10	.00	.00	3.00	0.03	5.00	0.13
10	002.000 C	STUDY AND CORRECT WATER DRAINAGE PROBLEMS	140	SITE	C70 C05	RES C MIT C		50.00 2.00	1.50 0.10	.00 50.00	.00 1.50	.00 52.00	.00 1.60	.00 2.00	.00 0.10	50.00 106.00	1.50 3.30
				Subtotal				52.00	1.60	50.00	1.50	52.00	1.60	2.00	0.10	156.00	4.80
11	021.000 C	CONDUCT ORAL HISTORY PROGRAM		SITE	C27 C38	RES O ADM O		.00 .00	.00 .00	8.00 2.00	.00 0.10	8.00 2.00	.00 0.10	.00 .00	.00 .00	16.00 4.00	0.00 0.20
				Subtotal				.00	.00	10.00	0.10	10.00	0.10	.00	.00	20.00	0.20
12	009.000 C	PREPARE HISTORIC STRUCTURE PRESERVATION GUIDE	134	SITE	C55 C05	RES O		.00	.00	35.00	1.00	.00	.00	.00	.00	35.00	1.00
14	025.000 C	UPDATE COLLECTIONS PLANS	134	OBJC	C41 C40	ADM O RES O		.00 .00	.00 .00	9.50 .00	.00 .00	1.20 6.50	0.03 .00	.00 .00	.00 .00	10.70 6.50	0.03 0.00
				Subtotal				.00	.00	9.50	.00	7.70	0.03	.00	.00	17.20	0.03

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

Page: 0002
FY: 1993
Park: AZRU
Cluster: CPO

PK PRI	PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	ACT TYP P	T Y	CURRENT YEAR 1993 \$\$ FTE		OUTYEAR 1 1994 \$\$ FTE		OUTYEAR 2 1995 \$\$ FTE		OUTYEAR 3 1996 \$\$ FTE		TOTAL \$\$ FTE	
15	041.000 C	TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMPUTER		OBJC	C03 C46	MIT	C	.00	.00	3.25	0.20	.00	.00	4.88	0.30	8.13	0.50
16	024.000 C	PRODUCE CULTURAL RESOURCES BASE MAP	134	SITE	C63	RES O ADM O		.00	.00	.00	.00	1.00	.00	.00	.00	1.00	0.00
								.00	.00	.00	.00	0.50	.00	.00	.00	0.50	0.00
		Subtotal						.00	.00	.00	.00	1.50	.00	.00	.00	1.50	0.00
17	040.000 C	PREPARE CULTURAL LANDSCAPE INVENTORY		COMB	C10	RES O		.00	.00	.00	.00	.00	.00	15.00	.00	15.00	0.00
18	003.000 C	WRITE HISTORIC STRUCTURE REPORT EAST & WEST RUINS	135	SITE	C52 C03	RES O		.00	.00	60.00	1.50	60.00	1.50	60.00	1.50	180.00	4.50
19	014.000 C	STUDY AND PRESERVE PREHISTORIC WOOD	135	SITE	C57 C04	MIT O		.00	.00	10.00	0.30	.00	.00	.00	.00	10.00	0.30
20	029.000 C	WRITE REPORT OF 1984 EXCAVATION WORK		SITE	C02 C08	RES O		.00	.00	50.00	.00	50.00	.00	.00	.00	100.00	0.00
21	043.000 C	REHAB GREAT KIVA INTERIOR		STRC	C70 C05	MIT O ADM O		.00	.00	.00	.00	.00	.00	20.00	0.50	20.00	0.50
								.00	.00	.00	.00	.00	.00	1.00	0.03	1.00	0.03
		Subtotal						.00	.00	.00	.00	.00	.00	21.00	0.53	21.00	0.53
99	005.000 C	MONITOR PLASTER IN 156, CORRECT PROBLEMS		SITE	C05 C06	MON R		0.50	0.10	.00	.00	0.50	0.01	.00	.00	1.00	0.11
99	007.000 C	COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPORT	134	STRC	C52	RES O ADM O		.00	.00	15.00	0.50	.00	.00	.00	.00	15.00	0.50
								.00	.00	5.00	0.10	.00	.00	.00	.00	5.00	0.10
		Subtotal						.00	.00	20.00	0.60	.00	.00	.00	.00	20.00	0.60
99	008.000 C	WRITE HISTORIC RESOURCE STUDY	134	SITE	C35	RES O ADM O		.00	.00	25.00	.00	.00	.00	.00	.00	25.00	0.00
								.00	.00	0.50	0.01	.00	.00	.00	.00	0.50	0.01
		Subtotal						.00	.00	25.50	0.01	.00	.00	.00	.00	25.50	0.01
99	012.000 C	RECORD WALL BONDING IN WEST RUIN	135	SITE	C03	RES O INT O		.00	.00	2.00	0.10	.00	.00	.00	.00	2.00	0.10
								.00	.00	.00	.00	3.00	.00	.00	.00	3.00	0.00
		Subtotal						.00	.00	2.00	0.10	3.00	.00	.00	.00	5.00	0.10
99	017.000 C	TEST, EVALUATE, & RECORD MOUNDS AND FEATURES		SITE	C04 C55	RES O PRO O		.00	.00	5.00	0.20	.00	.00	.00	.00	5.00	0.20
								.00	.00	1.00	0.10	.00	.00	.00	.00	1.00	0.10
		Subtotal						.00	.00	6.00	0.30	.00	.00	.00	.00	6.00	0.30
99	022.000 C	WRITE ARCHEOLOGICAL OVERVIEW AND ASSESSMENT		SITE	C01	RES O		.00	.00	20.00	0.60	.00	.00	.00	.00	20.00	0.60
99	027.000 C	ANALYZE & REPORT ON ARCHEOLOGICAL COLLECTIONS		OBJC	C02 C08	RES O ADM O		.00	.00	35.00	.00	30.00	.00	25.00	.00	90.00	0.00
								.00	.00	0.20	0.01	0.20	0.01	0.20	0.01	0.60	0.03
		Subtotal						.00	.00	35.20	0.01	30.20	0.01	25.20	0.01	90.60	0.03
99	028.000 C	DUPLICATE RELATED PAPERS AND PHOTOGRAPHS		OBJC	C08	ADM O MIT O		.00	.00	1.00	0.10	.00	.00	.00	.00	1.00	0.10
								.00	.00	8.00	.00	0.80	.00	.00	.00	8.80	0.00
		Subtotal						.00	.00	9.00	0.10	0.80	.00	.00	.00	9.80	0.10

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

Page: 0003
FY: 1993
Park: AZRU
Cluster: CPSO

PK PRI	PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	ACT TYP P	Y	CURRENT YEAR 1993 \$\$ FTE	OUTYEAR 1 1994 \$\$ FTE	OUTYEAR 2 1995 \$\$ FTE	OUTYEAR 3 1996 \$\$ FTE	TOTAL \$\$ FTE
99	030.000 C	SEARCH FOR IMAGERY OF CULTURAL RESOURCES		SITE	C04	RES	O	.00 .00	10.00 0.30	.00 .00	.00 .00	10.00 0.30
99	031.000 C	PRODUCE LOW SUN ANGLE IMAGERY OF AZTEC RUINS REGION		SITE	C08 C10	RES	O	.00 .00	10.00 .00	.00 .00	.00 .00	10.00 0.00
99	032.000 C	SURVEY BOTTOMLANDS FOR ARCHEOLOGICAL RESOURCES	134	SITE	C03 C02	RES	O	.00 .00	10.00 0.50	.00 .00	.00 .00	10.00 0.50
99	035.000 C	COMPLETE REPORT OF SITES ON EXPANDED BOUNDARIES		SITE	C03 C02	RES	O	.00 .00	45.00 1.00	45.00 1.00	.00 .00	90.00 2.00
						ADM	O	.00 .00	.00 .00	.00 .00	6.00 .00	6.00 0.00
		Subtotal						.00 .00	45.00 1.00	45.00 1.00	6.00 .00	96.00 2.00
99	046.000 C	UPGRADE MUSEUM STORAGE		OBJC	C47	No unfunded data						
1	006.000 N	HIRE NATURAL RESOURCES MANAGEMENT SPECIALIST		COMB	N24 N20	ADM	R	.00 .00	.00 .00	54.00 1.00	.00 .00	54.00 1.00
2	010.000 N	PREPARE CULTURAL LANDSCAPE REPORT	134	SITE	C11	RES	O	.00 .00	35.00 1.00	.00 .00	.00 .00	35.00 1.00
3	005.000 "	REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING		CULL	N05 N08	MIT	R	.00 .00	.00 .00	2.00 0.10	6.00 0.40	8.00 0.50
						MON	R	.00 .00	.00 .00	1.00 0.02	1.00 0.02	2.00 0.04
		Subtotal						.00 .00	.00 .00	3.00 0.12	7.00 0.42	10.00 0.54
4	004.000 N	CONTROL EXOTIC/NOXIOUS PLANTS AND ANIMALS			N04 N05	MIT	R	4.00 0.30	4.00 0.30	.00 .00	4.00 0.12	12.00 0.72
5	001.000 N	RESEARCH WATER RIGHTS, REPAIR WELL			N13	PRO	O	.00 .00	3.00 0.20	.00 .00	.00 .00	3.00 0.20
						RES	O	.00 .00	.00 .00	10.00 0.40	10.00 0.40	20.00 0.80
		Subtotal						.00 .00	3.00 0.20	10.00 0.40	10.00 0.40	23.00 1.00
6	003.000 N	REDUCE VEGETATION FIRE HAZARD			N07	MIT	O	.00 .00	.00 .00	.00 .00	3.50 .00	3.50 0.00
						ADM	O	.00 .00	.00 .00	.00 .00	1.00 0.10	1.00 0.10
		Subtotal						.00 .00	.00 .00	.00 .00	4.50 0.10	4.50 0.10
38 projects printed												
Grand Total \$\$								121.50	640.45	557.70	466.08	1785.73
Grand Total FTE								5.00	14.72	13.27	12.19	45.18

Active Filter: (No filter)

Output Selections:

Resource types included: CULTURAL/NATURAL

Initial fiscal year: 1996

02/28/97

FUNDED TABLE
CULTURAL/NATURAL

Page: 0001

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FY: 1996

FUNDED AMOUNTS

Park: AZRU

(\$ in thousands - by activity type) Cluster: CPSO

FUNDING	TOTAL	RES	MIT	MON	PRO	INT	ADM
SOURCE							
NPRF	0.07	0.07	0.00	0.00	0.00	0.00	0.00
NVOL	3.68	0.00	3.68	0.00	0.00	0.00	0.00
PCR1	0.91	0.00	0.91	0.00	0.00	0.00	0.00
POF1	26.28	5.92	11.84	0.20	0.00	0.00	8.32
RCCM	33.86	8.89	24.97	0.00	0.00	0.00	0.00
ROTH	8.16	5.38	0.00	0.00	0.00	0.00	2.78
RVIP	0.49	0.09	0.40	0.00	0.00	0.00	0.00
SNRP	4.00	0.00	4.00	0.00	0.00	0.00	0.00
TOTAL	77.45	20.35	45.80	0.20	0.00	0.00	11.10

Active Filter: (No filter)

Output Selections:

Resource types included: CULTURAL/NATURAL

Initial fiscal year: 1993-1996

02/28/97

UNFUNDED TABLE

Page: 0001

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CULTURAL/NATURAL

FY: 1993-1996

UNFUNDED AMOUNTS

Park: AZRU

(\$ in thousands - by funding type) Cluster: CPSO

FUNDING TYPE	TOTAL	RES	MIT	MON	PRO	INT	ADM
Cyclic	463.13	50.00	410.13	0.00	0.00	0.00	3.00
Onetime	1088.10	800.50	247.30	0.00	4.00	3.00	33.30
Recur.	234.50	3.50	23.00	3.00	0.00	0.00	205.00
TOTAL	1785.73	854.00	680.43	3.00	4.00	3.00	241.30

Active Filter: (No filter)

Output Selections:

Funded data only

Initial fiscal year: 1993

Summary Report: Funded \$ by Activity & Resource Type

02/28/97

RMP Summary Report

Page: 0001

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Funded \$ by Activity & Resource Type

FY: 1993-1996

Park: AZRU

Cluster: CPSO

ACTIVITY	Cultural	Integrated	Natural	Subsistence	TOTAL
Research	99,730	0	0	0	99,730
Mitigation	254,170	0	17,300	0	271,470
Monitoring	200	0	400	0	600
Protection	0	0	0	0	0
Interpretation	0	0	0	0	0
Administration	39,880	0	1,350	0	41,230
--<<TOTALS>>--	393,980	0	19,050	0	413,030

=====

Active Filter: (No filter)

Output Selections:

Funded data only

Initial fiscal year: 1996

Summary Report: Funded \$ by Activity & Resource Type

02/28/97

RMP Summary Report

Page: 0001

09:56:08

Funded \$ by Activity & Resource Type

FY: 1996

Park: AZRU

Cluster: CPSO

ACTIVITY	Cultural	Integrated	Natural	Subsistence	TOTAL
Research	20,350	0	0	0	20,350
Mitigation	41,800	0	4,000	0	45,800
Monitoring	200	0	0	0	200
Protection	0	0	0	0	0
Interpretation	0	0	0	0	0
Administration	10,350	0	750	0	11,100
-<<TOTALS>>-	72,700	0	4,750	0	77,450

=====

Active Filter: (No filter)

Output Selections:

Year: Greater than or equal to 1990

Year: Less than or equal to 1996

02/28/97

PERSONNEL TABLE
(current year only)

FY: 1991

Park: AZRU

Cluster: CPSO

TYPE OF NPS EMPLOYEE	FTEs OF RESOURCES WORK		
	Natural	Cultural	Total
Research Scientists	0.0	0.0	0.0
Resources Specialists	0.0	0.0	0.0
025 Park Rangers Res Mgmt	0.0	0.2	0.2
025 Park Rangers Res Prot	0.0	0.0	0.0
025 Park Rangers Res Interp	0.0	0.3	0.3
Maintenance Personnel	0.0	0.9	0.9
Total of RES Personnel	0.0	1.4	1.4
TOTAL PARK FTE: 8.1			
PERCENT	0.0%	17.3%	17.3%

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PERSONNEL TABLE
(current year only)

FY: 1992
Park: AZRU
Cluster: CPSO

TYPE OF NPS EMPLOYEE	FTEs OF RESOURCES WORK		
	Natural	Cultural	Total
Research Scientists	0.0	0.0	0.0
Resources Specialists	0.0	0.0	0.0
025 Park Rangers Res Mgmt	0.0	0.1	0.1
025 Park Rangers Res Prot	0.0	0.0	0.0
025 Park Rangers Res Interp	0.0	0.3	0.3
Maintenance Personnel	0.0	0.7	0.7
Total of RES Personnel	0.0	1.1	1.1
TOTAL PARK FTE: 7.8			
PERCENT	0.0%	14.1%	14.1%

02/28/97
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PERSONNEL TABLE
(current year only)

FY: 1993
Park: AZRU
Cluster: CPSO

TYPE OF NPS EMPLOYEE	FTEs OF RESOURCES WORK		
	Natural	Cultural	Total
Research Scientists	0.0	0.0	0.0
Resources Specialists	0.0	0.0	0.0
025 Park Rangers Res Mgmt	0.0	0.2	0.2
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	1.3	1.3
Total of RES Personnel	0.0	1.6	1.6
TOTAL PARK FTE: 8.1			
PERCENT	0.0%	19.8%	19.8%

02/28/97
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PERSONNEL TABLE
(current year only)

FY: 1994
Park: AZRU
Cluster: CPSO

TYPE OF NPS EMPLOYEE	FTEs OF RESOURCES WORK		
	Natural	Cultural	Total
Research Scientists	0.0	0.0	0.0
Resources Specialists	0.0	1.0	1.0
025 Park Rangers Res Mgmt	0.0	0.2	0.2
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	0.3	0.3
Total of RES Personnel	0.0	1.6	1.6
TOTAL PARK FTE: 7.5			
PERCENT	0.0%	21.3%	21.3%

02/28/97
10:01:16

PERSONNEL TABLE
(current year only)

FY: 1995
Park: AZRU
Cluster: CPSO

TYPE OF NPS EMPLOYEE	FTEs OF RESOURCES WORK		
	Natural	Cultural	Total
Research Scientists	0.0	0.0	0.0
Resources Specialists	0.0	1.0	1.0
025 Park Rangers Res Mgmt	0.0	0.0	0.0
025 Park Rangers Res Prot	0.0	0.0	0.0
025 Park Rangers Res Interp	0.0	0.2	0.2
Maintenance Personnel	0.0	0.4	0.4
Total of RES Personnel	0.0	1.6	1.6
TOTAL PARK FTE: 9.0			
PERCENT	0.0%	17.8%	17.8%

Active Filter: (No filter)

Output Selections:

Year: Greater than or equal to 1996

Year: Less than or equal to 1996

02/28/97

PERSONNEL TABLE
(current year only)

FY: 1996

Park: AZRU

Cluster: CPSO

TYPE OF NPS EMPLOYEE	FTEs OF RESOURCES WORK		
	Natural	Cultural	Total
Research Scientists	0.0	0.0	0.0
Resources Specialists	0.2	1.0	1.2
025 Park Rangers Res Mgmt	0.0	0.2	0.2
025 Park Rangers Res Prot	0.0	0.0	0.0
025 Park Rangers Res Interp	0.0	0.2	0.2
Maintenance Personnel	0.0	0.2	0.2
Total of RES Personnel	0.2	1.6	1.8
TOTAL PARK FTE: 9.0			
PERCENT	2.2%	17.8%	20.0%

BUDGET AND FTEs:

-----FUNDED-----				
	Source	Activity	Fund Type	Budget (\$1000s) FTEs
1994:	RG-CR-MTN MIT		Cyclic	0.42 0.02
	RG-CR-MTN MIT		One-time	0.50 0.00

		Subtotal:		0.92 0.02
1995:	RG-CR-MTN MIT		Cyclic	0.60 0.02
1996:	PKBASE-CR MIT		Cyclic	0.46 0.01
				=====
		Total:		1.98 0.05

-----UNFUNDED-----				
		Activity	Fund Type	Budget (\$1000s) FTEs
Year 1:	RES		Cyclic	50.00 1.50
	MIT		Cyclic	2.00 0.10

		Subtotal:		52.00 1.60
Year 2:	MIT		Cyclic	50.00 1.50
Year 3:	MIT		Cyclic	50.00 1.50
	MIT		Cyclic	2.00 0.10

		Subtotal:		52.00 1.60
Year 4:	MIT		Cyclic	2.00 0.10
				=====
		Total:		156.00 4.80

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : NHPA ((106) NAT. HIST. PRES.)
EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

In FY94, work on drains was limited mainly to cleaning all the systems by our stabilization crew. In addition, a professional drain cleaner was contracted to use a power auger to ream out the large drains at the north of the monument. This \$500 contract was funded by SWR project funds.

Project Statement
Last Update: 03/20/96
Initial Proposal: 1994

AZRU-C-003.000
Priority: 18
Page Num: 0003

Title : WRITE HISTORIC STRUCTURE REPORT EAST & WEST RUINS

Funding Status: Funded: 0.00 Unfunded: 180.00

Servicewide Issues : C52 (HSR)
C03 (SITE DOC)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 135

Problem Statement

Excavation and stabilization have been on going at Aztec Ruins since 1916. Through natural forces and stabilization work, architectural and archeological features have been removed, altered, and obliterated. Documentation of these activities, original conditions, techniques used, and results has been scant and in many cases non-existent. Alterations influence the interpretation of the ruins, as well as current preservation and stabilization work. Robert and Florence Lister researched Morris' correspondence regarding stabilization, but did not give detailed information regarding techniques and materials used in their administrative history of the monument. Architectural and archeological information regarding the original construction and appearance of the structures is still available through research of records, photographs, and by observation. This information is necessary for resource management projects and interpretation of the ruins.

Description of Recommended Project or Activity

Complete Historic Structures Reports for the East and West Ruins, the Great Kiva, and the Hubbard Site. These reports will document the original construction, dates and styles of all prehistoric additions and renovations, probable room functions, and a variety of other historic, architectural, anthropological, archeological, and engineering aspects of the structure and its setting. Research of Morris' and other documents, including historic photos, will help detail past stabilization techniques and materials. The order of prehistoric construction and remodeling of the West Ruin will be part of this study. Location and the nature of possible subsurface features will be included. An inventory of graffiti on the roof vigas (which has been completed by Peter McKenna in 1992 for the East Ruin) and other historic impacts will also be included. This project will be contracted to a researcher with expertise in ruins stabilization and archeology. Other projects in the RMP, including C-002 Study and Correct Water Drainage Problems and C-012 Wall Bonding Study

Last Update: 03/20/96
Initial Proposal: 1994

Project Statement

AZRU-C-003.000
Priority: 18
Page Num: 0004

will be a part of the HSR.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	=====
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	60.00	1.50
Year 2:	RES	One-time	60.00	1.50
Year 3:	RES	One-time	60.00	1.50
			=====	=====
Total:			180.00	4.50

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)
EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement

AZRU-C-005.000

Last Update: 02/14/97

Priority: 99

Initial Proposal: 1993

Page Num: 0001

Title : MONITOR PLASTER IN 156, CORRECT PROBLEMS

Funding Status: Funded: 0.20 Unfunded: 1.00

Servicewide Issues : C05 (TREATMENTS)

C06 (SITE MONIT)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The three walls of original plaster in room 156 appear to have experienced long-term detachment due to moisture infiltration and salt deposition from inadequate water drainage from surrounding rooms, an improperly draining roof, and inadequate pointing of the walls. This plaster received emergency conservation in 1990. The causes of deterioration may still exist. This project received partial funding in FY91.

Description of Recommended Project or Activity

Continue monitoring room 156. Correct roof, drainage, and pointing problems if recommended following monitoring. Monitoring will be accomplished by park staff. Funds for correcting roof or drainage problems will come from regional sources once appropriate action is determined. Cleaning the plaster will not be undertaken.

Since the roof was repaired in FY96, only future monitoring of this room is needed. Roof work is recorded under project statement "Study and Repair roofs Protecting Prehistoric Rooms."

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1996: PKBASE-OT MON		Recurring	0.20	0.01
=====				
Total:			0.20	0.01

Project Statement AZRU-C-007.000
Last Update: 02/28/97 Priority: 99
Initial Proposal: 1994 Page Num: 0001

Title : COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPORT

Funding Status: Funded: 11.12 Unfunded: 20.00

Servicewide Issues : C52 (HSR)
Cultural Resource Type: STRC (Structure)
N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

The original portion of the building serving as the visitor center and administrative offices was constructed by Earl Morris in the early 1920's for his residence. Original prehistoric vigas, stones, and pottery sherds were used in construction. Additions in the 1930's, 1950's, and 1980's enlarged and modified the building to suit various needs, including exhibit space, curatorial storage, offices, meeting room, restrooms, and visitor contact. The building's connection with Morris, its role in the history of the monument, and its age make it eligible for the National Register of Historic Places.

The General Management Plan calls for modification of the interior of the building to improve visitor flow, provide an audiovisual room and adequate information and orientation, and provide interpretive office and work space. These planned changes would benefit greatly by having a documentation and history of the building.

Research for an Historic Structure Report was begun by Laura Soulierre of the SWR office in 1988. She searched through copies of the Southwest Monuments monthly reports, procured records from the Denver federal records center, had some of the early building plans printed, and printed some of the historic photographs from the park collection. Soulierre was laid off before she could complete the project. Some of the files and records she returned to offices from where she found them, some notes were sent to the park. Since that time, no one has been assigned to complete the project.

Completing the National Register nomination for the building was to have been included in the project. The HSR and the nomination are needed before building modifications are made. This information is also necessary for the interpretive program and building preservation.

Only cursory attention regarding the building's history is included in the Listers' "Administrative History of an Archeological Preserve".

Project Statement

AZRU-C-007.000

Last Update: 02/28/97

Priority: 99

Initial Proposal: 1994

Page Num: 0003

=====
Total: 20.00 0.60

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 E(9)

Project Statement
Last Update: / /
Initial Proposal: 1994

AZRU-C-008.000
Priority: 99
Page Num: 0010

Title : WRITE HISTORIC RESOURCE STUDY

Funding Status: Funded: 0.00 Unfunded: 25.50

Servicewide Issues : C35 (HRS)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

Aztec Ruins lies in an area rich in prehistoric and historic events, structures, and objects which helped shape the surrounding landscape and contribute to the story of the monument. The Listers' administrative history of Aztec includes much information about the general area history, but not in great detail. Prehistoric and historic resources within and surrounding the monument have not received adequate consideration in other documents to place Aztec in a comprehensive historical context. This information is needed for full interpretation of the area.

Description of Recommended Project or Activity

Prepare an Historic Resource Study. The study will serve as a companion to the Administrative History, but will give a broader historical context for Aztec Ruins. It will provide a synthesis of information regarding the prehistoric and historic structures, objects, and events connected with Aztec. National Register nominations should also be prepared as a part of this study if additional eligible structures or objects are found within the monument. This project will be contracted through the Southwest Regional Office.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs

Last Update: / /		Project Statement	AZRU-C-008.000
Initial Proposal: 1994			Priority: 99
			Page Num: 0011

Year 1:	RES	One-time	25.00	0.00
	ADM	One-time	0.50	0.01

		Subtotal:	25.50	0.01
			=====	
		Total:	25.50	0.01

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 App. 7.4E (9)

	Project Statement	AZRU-C-009.000
Last Update: 03/03/95		Priority: 11
Initial Proposal: 1994		Page Num: 0012

Title : PREPARE HISTORIC STRUCTURE PRESERVATION GUIDE

Funding Status: Funded: 0.00 Unfunded: 35.00

Servicewide Issues : C55 (MAINTENANCE)
C05 (TREATMENTS)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

The major archeological sites within the monument, the West Ruin, East Ruin, Hubbard Site, and the reconstructed Great Kiva, have received regular preservation treatment. With recent funding restrictions, however, treatment has become more sporadic. The "Ruins Preservation Guide" written by Steve Adams in 1979 needs updating to consider the latest stabilization techniques, treatments, recent stabilization work, and knowledge available about preserving archeological sites.

Description of Recommended Project or Activity

Prepare a Historic Structures Preservation Guide. The guide will address the particular needs of each of the main structures. It will serve as a reference for programming, continued housekeeping, routine and cyclic preservation, inspections, and an aid to evaluating maintenance activities. The document will include provisions for ongoing monitoring of the major excavated ruins to determine the effects of precipitation and drainage patterns, in addition to work accomplished under other projects such as C-002 Study and Correct Water Drainage Problems, and C-020 Comprehensive Preservation Plan. Portions of the 1979 guide can be used, but much will need to be updated in light of changing preservation knowledge.

BUDGET AND FTEs:

-----FUNDED-----			
Source	Activity	Fund Type	Budget (\$1000s) FTEs
			=====
	Total:		0.00 0.00

Project Statement
Last Update: 03/03/95
Initial Proposal: 1994

AZRU-C-009.000
Priority: 11
Page Num: 0013

-----UNFUNDED-----
Activity Fund Type Budget (\$1000s) FTEs
Year 1: RES One-time 35.00 1.00
Total: 35.00 1.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B(2)

Last Update: 02/25/97

Priority: 0

Initial Proposal: 1994

Page Num: 0001

Title : UPDATE LIST OF CLASSIFIED STRUCTURES

Funding Status: Funded: 1.40 Unfunded: 0.00

Servicewide Issues : C51 (LCS)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The LCS is used primarily to document standing historic architecture that needs our maintenance attention. For many years the list for Aztec Ruins contained only three structures on it. This problem has been rectified recently. Employees in the Division of History in the Southwest Regional office updated some of our LCS records in 1994. Structures included on the list are the visitor center, Hubbard Site, West Ruin, Great Kiva, and Kiva E. Other structures they intend to add include the East Ruin and the Aztec Ruins Trading Post, and they will probably delete Kiva E and include it under the West Ruin. There are many other sites within our expanded boundaries that we do not own yet.

Description of Recommended Project or Activity

Employees in the Division of History in the Southwest Regional office updated some of our LCS records in 1994. Structures included on the list are the visitor center, Hubbard Site, West Ruin, Great Kiva, and Kiva E. Other structures they intend to add include the East Ruin and the Aztec Ruins Trading Post, and they will probably delete Kiva E and include it under the West Ruin.

The SWR Division of History plans to complete documentation in early 1995. They will not include sites within our expanded boundaries at this time, but will instead address them once acquired.

Update: Since the LCS was updated in late 1995, there are five structures on the list: visitor center, East Ruin, West Ruin, Hubbard Site, and Great Kiva. The Aztec Ruins Trading Post will not be added because it is not eligible for the National Register of Historic Places.

Work remaining to be done are periodic updates as we continue to add parcels of land that contain sites eligible for this list. As of March, 1997, none are eligible on the land parcels we have added.

Project Statement

AZRU-C-011.000

Last Update: 02/25/97

Priority: 0

Initial Proposal: 1994

Page Num: 0002

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	RG-CR-MTN RES	One-time	0.40	0.01
1995:	CRPP RES	One-time	0.80	0.01
	PKBASE-OT ADM	One-time	0.20	0.01
Subtotal:			1.00	0.02
=====				
Total:			1.40	0.03

-----UNFUNDED-----				
Activity	Fund Type	Budget (\$1000s)	FTEs	
Total:			0.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement
Last Update: 03/03/95
Initial Proposal: 1994

AZRU-C-012.000
Priority: 99
Page Num: 0016

Title : RECORD WALL BONDING IN WEST RUIN

Funding Status: Funded: 0.00 Unfunded: 5.00

Servicewide Issues : C03 (SITE DOC)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 135

Problem Statement

The construction sequence of the West Ruin is not fully understood. A wall bonding study would help determine this sequence, as well as enlighten us on Anasazi construction techniques and engineering skills. Future exhibits call for a visual depiction of the growth of the pueblo over time. This exhibit is dependent on having this information. In addition, stabilization and deterioration of walls have influenced wall integrity and will continue to do so, making such a study helpful for preservation needs and necessary before additional data is lost.

Volunteers from the San Juan Archeological Society have prepared wall maps necessary for the study, and some wall bonding has been recorded on these maps. Wall bonding in the East Ruin has been recorded.

Description of Recommended Project or Activity

Complete the wall bonding study in the West Ruin. An archeologist and another volunteer can study the wall bonds and indicate all of them on the maps, as well as verify earlier indications of wall bonds. During the second year of the project, the compiled data can be converted to a Computer Assisted Drawing and Design program for a graphic depiction of the growth of the pueblo. This will help researchers and visitors understand the area better. This study will also become a part of the Historic Structure Report.

Last Update: 03/03/95
Initial Proposal: 1994

Project Statement

AZRU-C-012.000
Priority: 99
Page Num: 0017

BUDGET AND FTEs:

Source		Activity	Fund Type	Budget (\$1000s)	FTEs
			Total:	0.00	0.00
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		RES	One-time	2.00	0.10
Year 2:		INT	One-time	3.00	0.00
			Total:	5.00	0.10

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement	AZRU-C-014.000
Last Update: 02/25/97	Priority: 19
Initial Proposal: 1993	Page Num: 0001

Title : STUDY AND PRESERVE PREHISTORIC WOOD

Funding Status: Funded: 25.88 Unfunded: 10.00

Servicewide Issues : C57 (SPEC STUDY)
C04 (DATA RECOV)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number : 135

Problem Statement

There are many original wood elements in situ throughout the prehistoric structures in addition to others that have been removed and stored in various places. These prehistoric elements offer a wealth of information through dendrochronology and trace element analysis regarding construction sequence, repair of rooms, source of materials, and environmental conditions.

All the wood is exposed to some degree of weathering. Various treatments have been used in past years, including the application of pentachlorophenol wood preservative and a 5% silicone solution to all wood members in the East and West Ruins in 1965. In 1975 pentachlorophenol was applied to wood in the east and northeast wings of the West Ruin. In 1992, a mixture of linseed oil, paraffin wax, and solvent was applied to elements exposed to the weather (door and window lintels, exposed vigas, etc.). A limited study on Chaco and Aztec wood by Robert Blanchette, professor in the Department of plant Pathology at the University of Minnesota suggests that this treatment is not recommended because it encourages shrinkage and swelling changes that affect woody cell walls.

A multi-year Backfilling project (AZRU-C-020) proposed to begin in FY97 will impact wood elements by increasing deterioration through moisture, termites, and fungi.

Description of Recommended Project or Activity

Continue wood inventory of prehistoric rooms and visitor center, continue to collect wood samples, analyze results, and explore alternate preservation treatment. An archeologist (Tom Windes and/or Dabney Ford) will continue to verify the inventory for accuracy and supervise the selection and collection of wood specimens to be sampled. Samples will be sent and held at the Tree Ring Lab until funds are available for their analysis. Samples taken for future trace element analysis will be sent to WACC for long term storage. An archeologist will analyze the

results of the analysis and write a report.

High priority will be to collect samples from areas that are scheduled to be backfilled.

A limited study on Chaco and Aztec wood in 1994 by Robert Blanchette, professor in the Department of plant Pathology at the University of Minnesota, suggests that this treatment is not recommended because it encourages shrinkage and swelling changes that affect woody cell walls. Treatment of wood elements with oil and solvent solutions will cease until more study is undertaken regarding appropriate treatments.

Volunteers from the San Juan Archaeological Society inventoried all the wood elements in the West Ruin and the outer rooms of the Great Kiva. An archeologist inventoried elements in the East Ruin. NPS archeologist Tom Windes documented elements in the 1919-1920 portions of the visitor center. Nearly 8,000 pieces of wood have been documented. Work to record these observations on a data base began in 1994.

Through FY94, over 1000 samples have been taken from selected rooms in the West Ruin as well as the stockpiled wood and selected rooms in the East Ruin. Collection was supervised by NPS archeologist Tom Windes and NPS Chaco archeologist Dabney Ford. Some have been analyzed by the Tree Ring Lab in Tucson through a \$2,000 research grant from SPMA awarded for FY 93, a \$5,000 grant awarded in FY94, and a \$5,000 grant awarded in FY95 to continue with the project.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1993:	PKBASE-OT ADM	Cyclic	2.00	0.10
	\$-DONATE RES	Cyclic	2.60	0.00
	FED-OTHER RES	Cyclic	1.00	0.10
	PKBASE-OT RES	Cyclic	2.00	0.10

	Subtotal:		7.60	0.30
1994:	NON-PROFI RES	Cyclic	1.00	0.10
	PKBASE-OT ADM	Cyclic	0.50	0.00
	\$-DONATE RES	Cyclic	5.00	0.00
	FED-OTHER RES	Cyclic	1.00	0.10

	Subtotal:		7.50	0.20

Project Statement

AZRU-C-014.000

Last Update: 02/25/97

Priority: 19

Initial Proposal: 1993

Page Num: 0003

1995:	PKBASE-OT ADM	Cyclic	0.50	0.00
	NON-PROFI RES	Cyclic	5.00	0.00
	VOL-INDEP RES	Cyclic	0.00	0.04
	NON-PROFI RES	Cyclic	0.50	0.00
	VOL-IN-PK RES	Cyclic	0.13	0.07
	REG-OTHER RES	Cyclic	1.70	0.06
	PKBASE-CR ADM	Cyclic	0.10	0.00

Subtotal: 7.93 0.17

1996:	REG-OTHER RES	Cyclic	2.70	0.06
	PKBASE-OT ADM	Cyclic	0.15	0.00
	VOL-IN-PK RES	Cyclic	0.00	0.05

Subtotal: 2.85 0.11

=====

Total:	25.88	0.78
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-----UNFUNDED-----

	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 2:	MIT	One-time	10.00	0.30

Total: 10.00 0.30

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)
NHPA ((106) NAT. HIST. PRES.)

Explanation: 516 DM6 APP. 7.4 B

Project Statement

AZRU-C-015.000

Last Update: 02/14/97

Priority: 1

Initial Proposal: 1991

Page Num: 0001

Title : STABILIZE RUINS TO MAINTENANCE LEVEL

Funding Status: Funded: 180.86 Unfunded: 274.00

Servicewide Issues : C54 (EMERG STABL)

C55 (MAINTENANCE)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number : 132

Problem Statement

The West and East Ruins, the Hubbard Site, and the reconstructed Great Kiva all require ongoing stabilization. Together they contain 7,585 linear feet and 78,370 square feet of walls.

Stabilization work is provided sporadically (usually less than .3 FTE annually) by only one permanent employee. In addition, project funds from the former SWR were available in some years to pay for seasonal workers. Nonetheless, funding and FTE have never been sufficient to give adequate attention to the backlog of work needed to bring the walls to a basic maintenance level. When funding is available, only the most urgent problems are addressed during the short season, leaving other areas to deteriorate faster because of lack of regular attention. Expense of maintaining the walls has increased over the long term, while original fabric is sometimes lost.

The problems worsen yearly as project money from the Southwest Regional Office dwindled. Future project funding is highly uncertain. A massive concentration of work is needed to bring the resource to a basic maintenance level, after which annual stabilization is needed for regular maintenance.

Description of Recommended Project or Activity

Bring the ruins to a basic maintenance level through concentrated stabilization work that will continue four years or more. All walls showing or threatened with fabric loss or deterioration will receive attention. Work will include replacing deteriorated mortar, recapping walls, repointing/replacing missing stone, repairing fallen walls, bracing walls threatened with collapse, and other work as described by the scope of work developed.

A scope of work, and archeological and photographic documentation will be completed prior to the work. Some documentation can be completed by the permanent masonry worker, while some needs to be completed by an archeologist from a support office or

Intermountain Cultural Resource Center (or the monument's archeologist, once one is hired). A stabilization report will be completed after each season by the monument's lead masonry worker (or archeologist).

Once the initial concentrated work is completed, about 15 per cent of the exposed fabric chosen for stabilization will receive maintenance annually thereafter to counteract normal deterioration and to address longevity, safety, exterior appearance, and stability. Replacement of outdated and ineffective stabilization mortars will be a part of this ongoing program.

This course of action may change once a Backfilling Plan (C 20) has been implemented, because there will be less fabric to stabilize.

Amounts in funding table indicate various sources of funding over the past years. Generally, RCCM MIT amounts show funding that the SWR Conservation Division has given to the monument for stabilization. FTE's reflect the amount of stabilization work actually performed using that funding. In all years, some of that funding has been used for stabilization workers to perform some maintenance work in the monument. Supplies such as Rhoplex were also bought with regional funds. Park funds recorded in the table, POF1 MIT, are those spent on the salary for permanent masonry worker (James Brown) to work stabilization as well as for other stabilization workers. Some supplies are included. Other park funding, POF1 ADM, was spent on the Chief Ranger to assist and administer the program. In 1993 the Maintenance Worker, (Mike Sherris), has begun working some stabilization. His work is reflected in the table under POF1 adm.

The 1994 amount on this table does not reflect the total funding provided by the Conservation Division, which was a total of \$50,000--\$25,000 in each of RCCM and RCRR. Some of the funding is shown in C-039, Study and Repair Roofs Protecting Prehistoric Roofs, C-033, Research and Document Prehistoric Rooms, C-002, Study and Correct Water Drainage Problems, and N-004, Control Exotic Plants and Animals. A portion of that funding was spent on general monument maintenance unrelated to ruins stabilization.

In FY 94, \$1,900 of that amount went for purchase of a new mortar mixer, and \$3,800 was spent on aluminum scaffolding.

FY 94 is the first year that we can rely on the validity of the figures for FTE and funds actually spent during the year on ruins stabilization. These data were acquired by tailoring the Maintenance Management System to coincide with the actual projects we were doing, then accurately reporting work done. Thus although we reported in past years that the park contributed significant funds for stabilization work, once we started recording actual work we find that park contribution in FY 94 is very little, with the exception of administration and supervision. FY 94 is also the first year we are reporting that regional funds paid for sick, annual, and holiday leave for

stabilization workers, which is significant (\$4300, 31 workdays).

Work accomplished is listed in the stabilization report for FY94. Some of the rooms worked on include: kivas L, F, and K, rooms 257, 147, 12, 154-2, 235, 53, 24, 197, and 57. In addition, experimental plaster panels were applied in room 18.

Work planned for FY95 if \$50,000 is received includes: \$5,000 for documentation by an archeologist of rooms with significant original masonry and mortar; \$3,000 for supplies; \$42,000 for stabilization of 2,400 square feet of walls. Priorities established in the 1994 Scope of Work plus addendums to that plan will be followed, as well as emergency work that may arise over the winter of 1995-1996.

NHPA compliance for the 1994 Scope of Work and addendums has been met. Consultation, however, needs to be initiated with appropriate groups. Some of the funding may have to be used for consultation efforts.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1991:	RG-CR-MTN MIT	Cyclic	15.00	0.60
	PKBASE-CR MIT	Cyclic	11.00	0.30
	PKBASE-OT ADM	Cyclic	1.50	0.10
	Subtotal:		27.50	1.00
1992:	RG-CR-MTN MIT	Cyclic	25.00	0.60
	PKBASE-CR MIT	Cyclic	4.00	0.10
	PKBASE-OT ADM	Cyclic	2.00	0.10
	Subtotal:		31.00	0.80
1993:	RG-CR-MTN MIT	Cyclic	18.00	0.70
	PKBASE-OT MIT	Cyclic	24.00	0.60
	PKBASE-OT ADM	Cyclic	1.80	0.10
	PKBASE-OT ADM	Cyclic	1.80	0.10
	Subtotal:		45.60	1.50
1994:	REP-REHAB MIT	Cyclic	19.00	0.40
	PKBASE-OT MIT	Cyclic	1.00	0.00
	PKBASE-OT ADM	Cyclic	1.50	0.10
	RG-CR-MTN MIT	Cyclic	19.00	0.40
	Subtotal:		40.50	0.90

Project Statement

AZRU-C-015.000

Last Update: 02/14/97

Priority: 1

Initial Proposal: 1991

Page Num: 0004

1995:	RG-CR-MTN MIT	Cyclic	16.18	0.43
	PKBASE-OT MIT	Cyclic	9.86	0.25
	PKBASE-OT ADM	Cyclic	0.80	0.02
	VOL-IN-PK MIT	One-time	0.00	0.01

Subtotal:			26.84	0.71
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1996:	PKBASE-OT ADM	Cyclic	0.56	0.01
	PKBASE-OT MIT	Cyclic	4.90	0.15
	PKBASE-OT MIT	Cyclic	0.90	0.00
	VOL-INDEP MIT	One-time	0.48	0.02
	PKBASE-OT RES	One-time	2.58	0.06

Subtotal:			9.42	0.24
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Total:			180.86	5.15
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-----UNFUNDED-----

	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	MIT	Cyclic	65.00	3.00
Year 2:	MIT	Cyclic	55.00	2.50
Year 3:	MIT	Cyclic	62.00	2.00
Year 4:	MIT	Cyclic	90.00	2.00
	ADM	Cyclic	1.00	0.02
	MIT	Cyclic	1.00	0.02

Subtotal:			92.00	2.04
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Total:			274.00	9.54
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(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : NHPA ((106) NAT. HIST. PRES.)
EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(4)

Project Statement
Last Update: 03/06/95
Initial Proposal: 1994

AZRU-C-017.000
Priority: 99
Page Num: 0025

Title : TEST, EVALUATE, & RECORD MOUNDS AND FEATURES

Funding Status: Funded: 0.00 Unfunded: 6.00

Servicewide Issues : C04 (DATA RECOV)
C55 (MAINTENANCE)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Seven mounds designated A through G lie within the original 27 acre boundaries. Mound A was tested by archeologist Peter McKenna to determine if it is a tri-wall, but results were inconclusive. Mound B remains untested. Mounds C and D have been tested but not mapped. Mound E has been tested and is prehistoric. Mound F, a tri-wall structure, was tested in previous years, but test pits remain open. The walls in Mound F have not been recorded. Mounds G and H have been tested and are trash mounds, but the wall profiles of the open test pits have not been recorded. An excavated burial between the West and East Ruins remains partially open. Open test pits in some of these mounds contribute to their deterioration and are a safety hazard. Knowing the nature of these mounds will assist their interpretation and management.

Description of Recommended Project or Activity

Continue with archeological testing and evaluation, record wall profiles, and backfill open test pits. This will include further testing of mound A, testing of mound B, mapping mounds C and D, recording the walls in mound F and backfilling previous test pits, backfilling the burial, and cleaning previous test pits of mounds G and H, recording, and backfilling them. Testing will involve non-destructive techniques when possible and minimal sub-surface disturbance. Documentation prior to and after work will meet Historic Structure Report standards.

Last Update: 03/06/95
Initial Proposal: 1994

Project Statement

AZRU-C-017.000
Priority: 99
Page Num: 0026

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	=====
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	5.00	0.20
	PRO	One-time	1.00	0.10
Subtotal:			6.00	0.30
			=====	=====
Total:			6.00	0.30

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : NHPA ((106) NAT. HIST. PRES.)

Explanation:

Project Statement	AZRU-C-018.000
Last Update: 02/24/97	Priority: 13
Initial Proposal: 1991	Page Num: 0001

Title : CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS

Funding Status: Funded: 23.34 Unfunded: 0.00

Servicewide Issues : C46 (ACCOUNTBLY)

Cultural Resource Type: OBJC (Object)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Over 65 years of insufficient funding and neglect contributed to a significant backlog of uncataloged artifacts and archival documents at Aztec Ruins. Artifacts were unaccounted for, records in many cases were not established nor maintained, and storage conditions were dismal.

With a commitment of funds and manpower since 1987, major progress has been made in records maintenance and artifact storage. A small amount of work still remains. Funds received from the SWR office in FY95 will allow virtual completion of backlog cataloging. Cataloging of the backlog of over 30,000 artifacts and the archival records is completed. Work on the photographic backlog began in 1993 and continues. Work in 1995 is concentrating on photographs of stabilization work. Maps, blueprints, and other drawings are also being catalogued and stored properly in 1995. Funding in 1994 of \$8,700 for expanded storage cabinets improved artifact storage. There remains some work in moving artifacts and storing them properly. Decisions need to be made regarding which items need to be retained on site as a study collection, and which items should be transferred to the repository at WACC. Some Accession records still need attention. This project was partially funded in FY91, FY93, FY94, and FY95.

Description of Recommended Project or Activity

We still need to continue with the following actions: update accession records, give attention to remaining storage problems, and transport original archival collection to WACC. Duplicate remaining nitrate and cellulose diacetate negatives, improve storage of stabilization photos and establish dates for undated photos. Continue updating accessions files by researching old loan agreements and completing required documentation for files. Remeasure artifacts on old cataloging system and enter in ANCS with metric measurements. Acquire custom made boxes for large and fragile objects. Provide for safe shipment of artifacts to WACC. Make quality labels for all shelves and cabinets in storage

area.

Funding in 1994 of \$8,700 for expanded storage cabinets and improved environmental monitoring equipment improved artifact storage. SWR Division of Curation supplied the monument with a museum technician for one week to assist in the moving and proper packaging of the artifacts into the new cabinets. Some work remains in moving artifacts and storing them properly. This funding is not recorded under this project statement, but is recorded in the project statement, AZRU-C-026, Implement Collection Condition Survey Recommendation.

In FY95 \$3,000 from SWR Division of Curation was granted to complete the cataloging and improve the storage of the maps and stabilization reports and photos.

In addition, in FY95 SWR Division of Curation is covering the costs to replace the computer that the ANCS system is on, about a \$5,000 purchase.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1991: CRPP	MIT	One-time	5.00	0.30
	PKBASE-OT MIT	One-time	1.00	0.10
	PKBASE-OT ADM	One-time	1.00	0.10
		Subtotal:	7.00	0.50
1992: PKBASE-CR	MIT	One-time	1.00	0.10
1993: CRPP	MIT	One-time	1.00	0.10
	PKBASE-OT MIT	One-time	2.00	0.10
	PKBASE-OT ADM	One-time	2.00	0.10
		Subtotal:	5.00	0.30
1994: CRPP	MIT	One-time	2.50	0.20
	PKBASE-OT MIT	One-time	0.25	0.01
	PKBASE-OT ADM	One-time	0.25	0.01
		Subtotal:	3.00	0.22
1995: CRPP	MIT	One-time	2.09	0.06
	PKBASE-OT ADM	One-time	0.25	0.01
	CRPP ADM	One-time	5.00	0.00
		Subtotal:	7.34	0.07
1996: VOL-IN-PK	MIT	One-time	0.00	0.01

Project Statement

AZRU-C-018.000

Last Update: 02/24/97

Priority: 13

Initial Proposal: 1991

Page Num: 0003

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Total:      23.34      1.20
    
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-----UNFUNDED-----

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Activity Fund Type Budget ($1000s) FTEs
=====
Total:      0.00      0.00
    
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(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 E(2)

Project Statement	AZRU-C-020.000
Last Update: 02/24/97	Priority: 8
Initial Proposal: 1994	Page Num: 0001

Title : WRITE & IMPLEMENT BACKFILLING PLAN

Funding Status: Funded: 6.83 Unfunded: 383.00

Servicewide Issues : C57 (SPEC STUDY)
C05 (TREATMENTS)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number : 135

Problem Statement

The majority of rooms in the West Ruin have been excavated, exposing their walls to the elements. Some open rooms are adjacent to backfilled or unexcavated rooms, resulting in added pressure against the walls, drainage problems, and lateral movement of water through the fill and walls, all which contribute to mortar and stone erosion. Stabilization needed to maintain the walls is substantial and ongoing.

However, backfilling selected rooms eliminates the need for mortar repointing, veneer replacement, and provides support for standing walls and alleviates drainage problems. Most of the severe cumulative deterioration would be eliminated, and the amount of exposed masonry would be reduced to levels which could more realistically be maintained. Archeologist Larry Nordby of the Southwest Regional Office analyzed these problems in a report written in 1984, and recommended specific rooms to be backfilled. His plan was only partially implemented. His report, however, may not have given full consideration to interpretive and stabilization needs.

Description of Recommended Project or Activity

Write and implement a Backfilling Plan for the West and East Ruins. The project may include: planning and design of backfilling and drainage; archeological documentation and testing, such as wood, mortar, and soil analysis, possible subfloor testing; minimal stabilization of the walls to be covered or otherwise affected by the backfilling and drainage; backfilling of selected rooms and installation of drainage systems; and project reporting. In addition, further testing of preservation alternatives such as different capping techniques, vertical wall protection, and chemical treatments may be identified as a part of this plan.

Nordby's report will be used as a starting point for the plan, in addition to data generated by AZRU-C-002, "Study and Correct

Water Drainage Problems." Documentation for the project will be completed to Historic Structure Report standards prior to actions. Data generated will be included in the Historic Structure Report.

Initial study and plan writing will be accomplished by specialists from the Intermountain Cultural Resource Center, Conservation Group, and will be completed the first year. Archeologist Jim Trott began writing an initial plan in FY95 and expects to finish it by the end of the year. His plan will not be as comprehensive as we had first envisioned for this project, but it will be enough to give us direction and to be able to establish priorities on which rooms to backfill. We will need some additional on-site planning for drainage and other technical assistance when we begin and as we proceed with this project.

Section 106 compliance for backfilling the row of cobble rooms on the south side of the plaza was satisfied in FY94. Compliance responsibilities for the remainder of the plan will be undertaken as soon as the plan is completed, as well as consultation with affiliated groups. (There are so far nine groups expressing an interest in consulting with Aztec Ruins on resource management issues).

If funds are available, the first year after the plan is completed (FY96), we will document and backfill the cobble rooms. Additional tasks will be undertaken as funding is available. For instance, we will finalize the design plan for the highest priority sections to be backfilled. Documentation, including rectifiable photographs of walls that will be covered, is also necessary. Stabilization that is necessary to protect walls from the effects of backfilling (expected to be minimal) will occur. In addition, consultation and compliance requirements need to be met. Some backfilling other than the cobble rooms may take place if all above work has been completed and there are funds available.

For the following years, documentation, testing, consultation, stabilization, and backfilling will proceed on the highest priority rooms as funding becomes available.

Although progress reports will document yearly activities, a final comprehensive report will be produced in the final year.

Labor will be provided by the park, additional cooperating parks such as Chaco Culture or Mesa Verde, and specialists from the Cultural Resource Center and/or contractors. We hope to fund a private contractor for the documentation/photogrammetry work if NPS expertise and/or stafftime in this area are not available.

Project Statement

AZRU-C-020.000

Last Update: 02/24/97
Initial Proposal: 1994

Priority: 8
Page Num: 0003

BUDGET AND FTEs:

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-----FUNDED-----
      Source   Activity   Fund Type   Budget ($1000s)   FTEs

1995:  REG-OTHER RES      One-time        1.50        0.03
      PKBASE-OT ADM      One-time        0.20        0.01
      RG-CR-MTN ADM      One-time        0.38        0.00
      -----
      Subtotal:           2.08        0.04

1996:  PKBASE-OT ADM      One-time        0.25        0.01
      RG-CR-MTN RES      One-time        4.50        0.08
      -----
      Subtotal:           4.75        0.09

      =====
      Total:              6.83        0.13
  
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-----UNFUNDED-----
      Activity   Fund Type   Budget ($1000s)   FTEs

Year 1:  RES      One-time        50.00        0.80

Year 2:  MIT      One-time        50.00        2.00
      MIT      One-time        50.00        2.00
      -----
      Subtotal:    100.00        4.00

Year 3:  RES      One-time        5.00        0.20
      MIT      One-time        50.00        2.00
      MIT      One-time        50.00        2.00
      ADM      One-time        3.00        0.07
      -----
      Subtotal:    108.00        4.27

Year 4:  ADM      One-time        20.00        0.50
      MIT      One-time        50.00        2.00
      MIT      One-time        50.00        2.00
      RES      One-time        5.00        0.20
      -----
      Subtotal:    125.00        4.70

      =====
      Total:       383.00        13.77
  
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(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Project Statement

AZRU-C-020.000

Last Update: 02/24/97

Priority: 8

Initial Proposal: 1994

Page Num: 0004

Explanation:

Last Update: 03/05/96
Initial Proposal: 1994

Project Statement

AZRU-C-021.000
Priority: 10
Page Num: 0033

Title : CONDUCT ORAL HISTORY PROGRAM

Funding Status: Funded: 0.63 Unfunded: 20.00

Servicewide Issues : C27 (ORAL HIST)
C38 (SPEC STUDY)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Local residents, past Aztec Ruins employees, friends and family of Earl Morris, and visitors have a wealth of information regarding the history, excavation, archeology, land use, and management of Aztec Ruins and surrounding area. Many of these people are getting on in years, and the information they hold will soon be unavailable. Interviewing these people will complement the administrative history, add to our knowledge of the archeology, and provide material for interpretive exhibits and programs.

Description of Recommended Project or Activity

Design and carry out an oral history program. Management will identify information needed through the program. Dr. Richard Ellis of Fort Lewis College in Durango has been contacted to coordinate the project. He will supervise an upper level student in interviewing informants. Dr. Ellis and the Chief of I & RM will design appropriate questions and research goals. Dr. Ellis chose a student in early 1995 to begin interviews. Recordings will be made on high quality tape and equipment. Funding will be sought through the New Mexico Endowment for the Humanities and Southwest Parks and Monuments Association. Original tapes will be stored at Harper's Ferry Center and duplicates held at Aztec Ruins and Fort Lewis College. Transcripts will be held at Aztec Ruins and Fort Lewis College. Funding will cover the transcription of all tapes and their binding and cataloguing. This project should begin soon in order to be of maximum benefit.

Last Update: 03/05/96
Initial Proposal: 1994

Project Statement

AZRU-C-021.000
Priority: 10
Page Num: 0034

BUDGET AND FTEs:

-----FUNDED-----					
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1995:	PKBASE-OT	ADM	One-time	0.28	0.01
	PKBASE-OT	RES	One-time	0.05	0.01
	UNIV-COLL	ADM	One-time	0.30	0.00
			Subtotal:	0.63	0.02
			Total:	0.63	0.02

-----UNFUNDED-----					
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		RES	One-time	8.00	0.00
		ADM	One-time	2.00	0.10
			Subtotal:	10.00	0.10
Year 2:		RES	One-time	8.00	0.00
		ADM	One-time	2.00	0.10
			Subtotal:	10.00	0.10
			Total:	20.00	0.20

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement
Last Update: 03/06/95
Initial Proposal: 1994

AZRU-C-022.000
Priority: 99
Page Num: 0035

Title : WRITE ARCHEOLOGICAL OVERVIEW AND ASSESSMENT

Funding Status: Funded: 0.00 Unfunded: 20.00

Servicewide Issues : C01 (OVERVIEW)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

An Archeological Assessment was prepared by monument Chief of Interpretation and Resources Management William Schart in 1977. Since then many archeological reports have been written about resources within the expanded monument boundaries and beyond. This data has not been reviewed, summarized, and evaluated in an updated Archeological Overview and Assessment. This document is a valuable research and informational tool for interpreters, as well as necessary for planning future research studies and designs, and resource management strategies.

Description of Recommended Project or Activity

Update the Archeological Overview and Assessment. The report will address not only reports regarding the resources in the original 27 acre monument, but also those within the expanded boundaries. The report will meet criteria specified in NPS 28. This project will be either contracted out or will be undertaken by an archeologist from the SWR office.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	20.00	0.60
Total:			20.00	0.60

Last Update: 03/06/95
Initial Proposal: 1994

Project Statement

AZRU-C-022.000
Priority: 99
Page Num: 0036

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Last Update: 02/14/97

Priority: 0

Initial Proposal: 1993

Page Num: 0001

Title : PRODUCE CULTURAL AFFILIATION STUDY

Funding Status: Funded: 21.35 Unfunded: 0.00

Servicewide Issues : C25 (CULT. AFFIL)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The Pueblo people are the decedents of the Anasazi culture. Several of the extant tribes today may claim cultural ties to Aztec, although we have not asked groups for this information. The Hopis have indicated that Aztec is involved in the history of several of their clans. There are some references in written accounts regarding connections with Aztec for some groups. Knowledge of the various groups' cultural affiliations and interest in Aztec is necessary for us to proceed with mandated consultation for management--especially regarding cultural resources and interpretation. Without this knowledge, we will continue to be ignorant of those groups who have concerns with the area and neglect our legal mandates to include them in planning and other programs.

Description of Recommended Project or Activity

A two year cultural affiliation study that will satisfy these needs was funded during FY 93. The contract was awarded to Dr. Adolph Greenberg of Miami University at Oxford, Ohio. He began work in 1994.

Proceed with the Cultural Affiliation Study through the contractor. The study will involve thorough research of written information, as well as research among political leadership in various Pueblo tribes and the Navajos to determine the nature of ties to Aztec Ruins. Monument personnel may also need to do some preliminary consultation with some of the groups as part of the study. The study will also establish each group's interest in consultation with the monument. The study will meet NPS guidelines. Use the information to actively proceed with consultation. The schedule for the study indicated we would receive a draft of the study by October, 1994 from Dr. Greenburg. As of March, 1995, we have not received his draft. When queried about the status of the study, Ed Natay of the American Indian Programs in SWR relayed a message to us that it was right on track, but he has been unavailable ever since to give us any further updates.

Final copies of the study were received by the park in February, 1997. This project is completed.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1993: SVC-OTHER RES		One-time	20.00	0.00
1995: PKBASE-OT ADM		One-time	0.20	0.01
1996: PKBASE-OT ADM		One-time	0.05	0.00
REG-OTHER ADM		One-time	0.50	0.01
Subtotal:			0.55	0.01
1997: PKBASE-OT ADM		One-time	0.10	0.01
REG-OTHER ADM		One-time	0.50	0.01
Subtotal:			0.60	0.02
Total:			21.35	0.04
-----UNFUNDED-----				
Activity	Fund Type	Budget (\$1000s)	FTEs	
Total:			0.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Title : PRODUCE CULTURAL RESOURCES BASE MAP

Funding Status: Funded: 0.76 Unfunded: 1.50

Servicewide Issues : C63 (HIS BASE MP)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

The land within the expanded boundaries contains cultural resources as well as modern disturbances such as subsurface utility lines, pipelines, and water control features. Although an archeological base map for the land within the original monument boundaries exists, an expanded base map which includes the additional land does not. In addition, the present base map does not include precise locations of all the cultural resources within the monument, as well as non-historic and underground features. This information is needed for the monument's data base and management of the newly acquired resources. Information gained by Southwest Region's archeologist Peter McKenna in his survey will be needed for the base map. That report, however, has not been completed.

Description of Recommended Project or Activity

In late 1994, Dr. Milford Fletcher of the Southwest GIS Center, ordered National Aerial Photographic Program (NAPP) from the early 1990's. He found that the resolution of this imagery for creating a data base was not good enough. He is continuing his search of suitable imagery from which he can create a digital base. He has already gotten accurate points in the monument using a Global Positioning Unit to register the photo. From this we should have a digital base map upon which we can plot sites, intrusions, and other features.

Complete the digital base map through Dr. Fletcher's work. This should be completed in 1995. The map will include the expanded boundaries and have a 1 meter resolution. The data base will be maintained at the SW GIS Center in Albuquerque. Additions to the data base, such as water lines, underground archeological features, and underground telephone lines, will be plotted in by the GIS Center in the future using a GPU as needed by the park. This project is essentially fully funded for FY 95, with the exception that any additions to the data base will be needed occasionally in the future.

Through conversations and visits with Dr. Fletcher, it is apparent that this map for Aztec is not high priority and we do not expect him to produce it. There may be an alternative to producing the map, however. John Stein of the Chaco Sites Project with the Navajo Tribe has collected imagery of Aztec that may be converted to an appropriate base map for us. We will explore this route as a viable alternative to our GIS needs. We map have to compensate him to produce this map for us. Cost estimates reflect a small fee to cover at least some of the expenses involved in producing it.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1995: PKBASE-OT	ADM	One-time	0.08	0.00
1996: PKBASE-OT	ADM	One-time	0.18	0.00
1997: SPECIAL-\$	RES	One-time	0.50	0.00
			=====	
Total:			0.76	0.00

-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 2:	RES	One-time	1.00	0.00
	ADM	One-time	0.50	0.00

Subtotal:			1.50	0.00
			=====	
Total:			1.50	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement
Last Update: 03/19/96
Initial Proposal: 1994

AZRU-C-025.000
Priority: 13
Page Num: 0041

Title : UPDATE COLLECTIONS PLANS

Funding Status: Funded: 0.01 Unfunded: 17.20

Servicewide Issues : C41 (CMP)
C40 (SOC STATMT)
Cultural Resource Type: OBJC (Object)
N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

The monument curates an on-site collection of about 1500 objects. Included are artifacts of stone, bone, pottery, fiber, shell, and wood, in addition to archival papers and photographs. Acquisition of lands within the expanded boundaries will present new problems regarding the collection and curation of artifacts from these areas. The "Collections Management Plan" was written in 1980 and is outdated in light of exhibit security needs, the boundary expansion, historical documents, and curation of artifacts. The Scope of Collections does not consider the expanded boundaries and themes identified in the recent GMP.

Description of Recommended Project or Activity

Revise the Collections Management Plan and Scope of Collections. Prepare a Collection Storage Plan as part of the Collections Management Plan if needed. All plans will consider curation for the full range of items, including photographs and archival items, as well as for artifacts that may come from within the expanded boundaries. Carrying out recommendations will follow.

A consultant team from SWR will write the Collections Management and Storage Plans. The Scope of Collections will be updated by the park curator in anticipation of the expanded boundaries and in light of the changed themes.

Storage problems for the collection were considered by a curatorial consultant from Harper's Ferry FY94, and a number of recommendations were made. New storage cabinets were added in FY94. Security for the collections was considered along with the storage problems and some recommendations were made. A consultant team is funded and scheduled to come in FY95 to review and revise the Collections Management Plan and address a Collection Storage Plan if needed.

Last Update: 03/19/96
Initial Proposal: 1994

Project Statement

AZRU-C-025.000
Priority: 13
Page Num: 0042

BUDGET AND FTEs:

Source		Activity	FUND Type	Budget (\$1000s)	FTEs
1995:	PKBASE-OT	ADM	One-time	0.01	0.00
Total:				0.01	0.00

Activity		FUND Type	Budget (\$1000s)	FTEs
Year 1:	ADM	One-time	9.50	0.00
Year 2:	ADM	One-time	1.20	0.03
	RES	One-time	6.50	0.00
Subtotal:			7.70	0.03
Total:			17.20	0.03

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B(1)

Project Statement
Last Update: 03/20/96
Initial Proposal: 1994

AZRU-C-026.000
Priority: 8
Page Num: 0043

Title : IMPLEMENT COLLECTION CONDITION SURVEY RECOMMENDATION

Funding Status: Funded: 13.82 Unfunded: 5.00

Servicewide Issues : C15 (REHAB ETC.)
Cultural Resource Type: OBJC (Object)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The monument maintains an on site collection that includes stone, bone, fiber, shell, and ceramic objects, and archival records and photographs. The condition and conservation treatment needed by the objects was assessed by a professional conservator from Harpers Ferry Center in FY94. A number of recommendations for the storage, care, and security of the collection were made. Storage cabinets were obtained in FY94 from SWR funding.

Several of the recommendations in the report cannot be undertaken until further funding and FTE are acquired. Work that remains includes packaging of some artifacts, correction of security deficiencies, and maintenance of proper environmental factors.

Description of Recommended Project or Activity

Storage cabinets and digital environmental monitoring equipment were obtained in FY94 from SWR funding of \$8700.

We still need to implement the remaining recommendations in the Collection Condition Survey.

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	CRPP	RES	One-time	3.50	0.00
	CRPP	MIT	One-time	8.70	0.00
Subtotal:				12.20	0.00

Last Update: 03/20/96
Initial Proposal: 1994

Project Statement

AZRU-C-026.000
Priority: 8
Page Num: 0044

1995:	PKBASE-OT	MIT	One-time	0.78	0.03
	CRPP	MIT	One-time	0.04	0.01
	CRPP	MIT	One-time	0.80	0.03

Subtotal:	1.62	0.07
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Total:	13.82	0.07
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-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	MIT	One-time	2.00	0.10
Year 3:	MIT	One-time	3.00	0.03
Total:			5.00	0.13

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 App. 7.4 B(2)

Last Update: 08/02/95
Initial Proposal: 1994

Project Statement

AZRU-C-027.000
Priority: 99
Page Num: 0045

Title : ANALYZE & REPORT ON ARCHEOLOGICAL COLLECTIONS

Funding Status: Funded: 0.00 Unfunded: 150.60

Servicewide Issues : C02 (ID & EVAL)
C08 (SPEC STUDY)

Cultural Resource Type: OBJC (Object)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Archeological explorations by Earl Morris from 1916 into the 1920's, stabilization projects, and public work projects have produced papers and uncovered artifacts which are now scattered among various institutions. The Western Archeological and Conservation Center in Tucson, the University of Colorado at Boulder, the American Museum of Natural History in New York, the NPS Southwest Regional Office in Santa Fe, and the Aztec Ruins all house some of these materials. In addition there are private individuals who possess artifacts from Aztec Ruins. The dispersed locations make it difficult for researchers to comprehensively study and interpret the artifacts and records. In addition, documentation of artifacts is not sufficient nor up to date enough for the needs of researchers, and in some cases is non-existent. Interpretation of the objects is the result of outdated analysis from as early as the 1920's.

Description of Recommended Project or Activity

Conduct an Archeological Collection Study. It will involve study and analysis of artifacts, field and lab photographs, field notes, maps, and correspondence from the Earl Morris era stored in various locations. This is a sizable three year project involving travel to the various institutions and visits to private individuals who possess artifacts from Aztec. The report will include an analysis of the assemblage based on a prior approved research design, photographs and documentation of artifacts, in addition to collation of the various documents. The fourth year will involve transferring all records to computer data base and digitizing images so that they may be reproduced through the computer.

Work can be contracted.

Last Update: 08/02/95
Initial Proposal: 1994

Project Statement

AZRU-C-027.000
Priority: 99
Page Num: 0046

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	=====
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	35.00	0.00
	ADM	One-time	0.20	0.01
Subtotal:			35.20	0.01
Year 2:	RES	One-time	30.00	0.00
	ADM	One-time	0.20	0.01
Subtotal:			30.20	0.01
Year 3:	RES	One-time	25.00	0.00
	ADM	One-time	0.20	0.01
Subtotal:			25.20	0.01
Year 4:	ADM	One-time	10.00	0.01
	RES	One-time	50.00	0.00
Subtotal:			60.00	0.01
Total:			150.60	0.04

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B(4)

Project Statement
Last Update: 03/06/95
Initial Proposal: 1994

AZRU-C-028.000
Priority: 99
Page Num: 0047

Title : DUPLICATE RELATED PAPERS AND PHOTOGRAPHS

Funding Status: Funded: 0.00 Unfunded: 9.80

Servicewide Issues : C08 (SPEC STUDY)
Cultural Resource Type: OBJC (Object)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The principal collection of Morris papers related to Aztec Ruins is housed at the University of Colorado Museum in Boulder. Recently the 24 linear feet of documents were produced on microfiche and are available at Aztec Ruins. There remains a number of historic photographs documenting Morris' field work, the ruins, and artifact specimens. Copies of these are not yet on file at Aztec Ruins, but are needed for research and interpretive purposes.

Another collection of Morris papers is in the archives of the Department of Anthropology at the American Museum of Natural History in New York. This collection includes correspondence from 1916 to 1928 describing administrative details of each season's excavations and information regarding artifact specimens. Several ground plans of the West Ruin are also included. There are about 130 black and white historic photographs showing excavation and stabilization work. In July, 1991, the Southwest Regional Office archives acquired copy prints of these photos. Copies of these papers and photographs are needed at Aztec Ruins for research, stabilization work, and interpretation.

Description of Recommended Project or Activity

Duplicate related papers and photographs and store at Aztec Ruins. Arrangements will be made with the American Museum of Natural History to duplicate all correspondence, records, and photographs related to Aztec Ruins. Papers will be placed on microfiche and/or transferred to a computer data base. Photographs from the collection at the University of Colorado Museum likewise will be duplicated.

Obtain microfiche reader.

Last Update: 03/06/95
Initial Proposal: 1994

Project Statement

AZRU-C-028.000
Priority: 99
Page Num: 0048

BUDGET AND FTEs:

Source		Activity	FUND Type	Budget (\$1000s)	FTEs
			Total:	0.00	0.00
		Activity	FUND Type	Budget (\$1000s)	FTEs
Year 1:	ADM	One-time		1.00	0.10
	MIT	One-time		8.00	0.00
			Subtotal:	9.00	0.10
Year 2:	MIT	One-time		0.80	0.00
			Total:	9.80	0.10

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B(4)

		Project Statement	AZRU-C-029.000
Last Update: 03/07/95			Priority: 20
Initial Proposal: 1994			Page Num: 0049
Title : WRITE REPORT OF 1984 EXCAVATION WORK			
Funding Status: Funded: 0.00 Unfunded: 100.00			
Servicewide Issues : C02 (ID & EVAL)			
C08 (SPEC STUDY)			
Cultural Resource Type: SITE (Archeological Site)			
N-RMAP Program codes :			
10-238 Package Number :			

Problem Statement

In 1984, Jim Trott, then archeologist at Salinas National Monument, excavated several rooms and trenches in the West Ruin for installation of a drainage system and to reduce static load on the walls of some rooms. He recovered hundreds of boxes of artifacts and much information. Excavation of room 225 produced unusual and exceptionally well preserved perishable artifacts not normally found in open sites. The report for these excavations, which would involve analysis of recovered artifacts, was never compiled. But without this information, interpretation suffers and preservation management of the areas excavated lacks benefit of this information. Trott is now in the Division of Conservation in the Southwest Regional Office and will not be able to write the report.

Description of Recommended Project or Activity

Write an archeological report on the 1984 excavations. Artifacts from the work need to be analyzed and this information included in the report. Since James Trott will not be able to write the report, another archeologist will need to examine his field notes and maps and compile the report. If this project is not fully funded within the next four years, a preliminary report should be funded to provide an overview of findings until a full report and analysis of artifacts can be completed.

BUDGET AND FTEs:

		-----FUNDED-----		
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	
Total:			0.00	0.00

Last Update: 03/07/95
Initial Proposal: 1994

Project Statement

AZRU-C-029.000
Priority: 20
Page Num: 0050

-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	50.00	0.00
Year 2:	RES	One-time	50.00	0.00
Total:			=====	=====
			100.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-C-030.000
Priority: 99
Page Num: 0051

Title : SEARCH FOR IMAGERY OF CULTURAL RESOURCES

Funding Status: Funded: 0.00 Unfunded: 10.00

Servicewide Issues : C04 (DATA RECOV)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Although the Denver Service Center completed a series of aerial photos of the area in 1987, there may be additional aerial imagery of the monument available from sources such as the gas and oil industry, local government, the USGS or the military. If available, a survey of this imagery, which may be from earlier years, could indicate the location of cultural resources which so far have remained undetected. This would be helpful especially in the expanded boundary area. The imagery can also give us baseline information on vegetation patterns.

Description of Recommended Project or Activity

Search for and acquire available imagery, and complete a survey of imagery for cultural resources. The Remote Sensing Unit in the Southwest Regional Office in conjunction with staff archeologists should initiate the search. Copies of imagery of the monument in addition to the general Aztec area should be acquired, but the survey should concentrate on the area within and just outside monument boundaries.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	10.00	0.30
			=====	
Total:			10.00	0.30

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-C-030.000
Priority: 99
Page Num: 0052

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.6

Last Update: 03/07/95
Initial Proposal: 1994

Project Statement

AZRU-C-031.000
Priority: 99
Page Num: 0053

Title : PRODUCE LOW SUN ANGLE IMAGERY OF AZTEC RUINS REGION

Funding Status: Funded: 0.00 Unfunded: 10.00

Servicewide Issues : C08 (SPEC STUDY)
C10 (INVENTORY)

Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The aerial imagery available of the Aztec Ruins region consists of 1974 black and white photos and thermal infra-red photos taken by Eastern New Mexico University for their San Juan Valley Archeological Project. The NPS also produced aerial imagery in 1987 of the monument. Low sun imagery is needed in addition to these to highlight the road remnants and other low visibility prehistoric features. Location of these features will allow for a better assessment of Aztec's place in the Chacoan outlier system, and the relationship between the Chacoan and Mesa Verdean cultures. Without it we will continue to rely on outdated information and interpretation of imagery which fails to identify the full range of features in the area. Interpretation of low sun imagery will also encourage us to expand our often parochial view of Aztec Ruins.

Description of Recommended Project or Activity

Produce low sun imagery of the Aztec region. This project needs a research design which will specify selected flight routes, documentation, and interpretation. The area covered will extend to Salmon Ruin, the Chacoan outliers of the La Plata Valley, Cedar Hill, the confluence of the Animas and San Juan rivers, and the confluence of the Chaco River and the San Juan rivers. This project will be contracted out.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	
Total:			0.00	0.00

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-C-031.000
Priority: 99
Page Num: 0054

-----UNFUNDED-----
Activity Fund Type Budget (\$1000s) FTEs
Year 1: RES One-time 10.00 0.00
Total: =====
10.00 0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.6

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-C-032.000
Priority: 99
Page Num: 0055

Title : SURVEY BOTTOMLANDS FOR ARCHEOLOGICAL RESOURCES

Funding Status: Funded: 0.00 Unfunded: 10.00

Servicewide Issues : C03 (SITE DOC)
C02 (ID & EVAL)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

In 1987, NPS archeologists John Stein and Peter McKenna surveyed much of the area included within the 292 acre boundary expansion. Remaining portions needing surveying are the bottomlands surrounding the original boundary and within the expansion. These areas have been heavily impacted by plowing, irrigation, grazing, and fruit orchards. Not many archeological surface features are expected to be present, although several are known to exist. Nonetheless, an archeological pedestrian survey should be conducted to locate and record surface features. The survey should meet legal mandates, and will provide information for the proper management of these areas once the land is acquired, and for their interpretation.

Description of Recommended Project or Activity

Conduct archeological pedestrian survey on bottomlands within expanded boundaries and compile report. This will be completed as soon as possible following acquisition of these lands. Aerial photographs may be needed to help locate archeological features.

BUDGET AND FTEs:

		-----FUNDED-----		
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	
		Total:	0.00	0.00
		-----UNFUNDED-----		
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	10.00	0.50
			=====	
		Total:	10.00	0.50

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-C-032.000
Priority: 99
Page Num: 0056

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 E(1)

Project Statement

AZRU-C-033.000

Last Update: 02/14/97
Initial Proposal: 1994

Priority: 3
Page Num: 0001

Title : RESEARCH AND DOCUMENT PREHISTORIC ROOMS

Funding Status: Funded: 8.73 Unfunded: 57.00

Servicewide Issues : C03 (SITE DOC)
C04 (DATA RECOV)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Information on the ruins is still obtainable through research of its architecture. It is essential that we protect its integrity and document its current status. Moreover, in order for stabilization work to proceed, proper archeological research and architectural documentation is required. Because of these considerations, we need to develop baseline information regarding the excavation and stabilization history of the ruin, as well as to document its current architectural condition.

Research involves reviewing and reporting all past stabilization projects, photographs, and archeological information available for each room. Architectural documentation involves reporting extensively on the existing architecture of the room's appearance, including size, shape, masonry characteristics, features present and missing, condition, etc., as well as recording through photographs, diagrams, and videotapes of individual walls.

In the past we have either ignored this requirement before stabilization work or have given documentation minimal attention. In recent years we have obtained an archeologist on loan from the regional office to document one or two rooms at a time prior to emergency stabilization work. This haphazard approach has resulted in inconsistent documentation, and sometimes loss of original fabric and/or inappropriate stabilization treatment.

Having this baseline information will reduce stabilization funding needs in the long run, because it will eliminate the need for diverting a portion of those funds to bring an archeologist from the regional office to do the necessary pre-stabilization work. This practice is more costly than having an archeologist on site, and reduces funds available to do actual stabilization work.

In 1989, SWR Archeology Technician Kate Dowdy compiled stabilization and excavation histories for 50 rooms in the West Ruin, and fully documented 16 rooms. Her work began the initial phase of AZRU (10-238)Package A17, "Stabilize West Ruin". She focused on rooms that had been stabilized or were scheduled for

stabilization during the FY 87, 88, and 89 seasons. Room histories of the remaining 300 rooms in the West Ruin and about 23 rooms in the East Ruin have not been compiled. Architectural documentation is lacking for about 340 rooms in both ruins.

Description of Recommended Project or Activity

Continue researching room histories and compiling architectural documentation of rooms in East and West Ruins. Quality and level of documentation will match or exceed the quality of work produced by Kate Dowdy. Documentation will concentrate first on those rooms slated for stabilization work as identified in scopes of work.

Work will be accomplished through one of two ways: 1. Most preferable is by hiring a GS 9 permanent archeologist to the staff to do the work over a number of years until work is completed. A project statement for this addition to the staff is identified elsewhere. 2. Second preference is to hire a seasonal archeologist for 6 months yearly for 3 years. This approach does not assure consistency in the final product, because we may not get the same person to do the work from year to year. Cost estimates are for the seasonal archeologist to complete the job.

These records will become part of the Historic Structure Report.

In FY94, Kaisa Bartouli of the SWR Division of Conservation documented a number of high priority rooms in the West Ruin. The SWR bore the expense of her salary, but the project funding paid for her travel and per diem. Funding shown reflects not only her travel expenses, but also those of Jim Trott, who assisted her with documentation and other assistance in stabilization.

Documentation and reporting on rooms in FY94 that did require an archeologist was accomplished by the lead stabilization worker, James Brown. Funded budget reflects his work.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994: RG-CR-MTN	RES	One-time	1.30	0.01
RG-CR-MTN	MIT	One-time	3.40	0.07
Subtotal:			4.70	0.08

Project Statement

AZRU-C-033.000

Last Update: 02/14/97

Priority: 3

Initial Proposal: 1994

Page Num: 0003

1995:	\$-DONATE RES	Recurring	0.23	0.00
	RG-CR-MTN RES	Recurring	1.10	0.04
	PKBASE-OT RES	One-time	0.31	0.00
	PKBASE-OT RES	Recurring	0.85	0.03
	PKBASE-OT ADM	One-time	0.23	0.01

Subtotal:		2.72	0.08
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1996:	RG-CR-MTN RES	One-time	0.90	0.01
	PKBASE-OT RES	One-time	0.41	0.01

Subtotal:		1.31	0.02
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Total:		8.73	0.18
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-----UNFUNDED-----

	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	17.00	0.50
Year 2:	RES	One-time	20.00	0.50
Year 3:	RES	One-time	20.00	0.50
			=====	
	Total:		57.00	1.50

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.6

Last Update: 03/07/95
Initial Proposal: 1994

Project Statement

AZRU-C-034.000
Priority: 0
Page Num: 0061

He also found that driving the park pickup truck near some walls has an adverse effect. In addition, other heavy vehicles should remain outside a specified zone around the ruins. His full report is included in "Vibration Investigations of Archaeological Structures, Aztec Ruins National Monument, New Mexico", August 27, 1994.

BUDGET AND FTEs:

		-----FUNDED-----			
Source	Activity	Fund Type	Budget (\$1000s)	FTEs	
1994: \$-DONATE	RES	One-time	1.80	0.00	
PKBASE-OT	ADM	One-time	0.40	0.01	
Subtotal:			2.20	0.01	
Total:			2.20	0.01	

		-----UNFUNDED-----		
Activity	Fund Type	Budget (\$1000s)	FTEs	
Total:		0.00	0.00	

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B(4)

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-C-035.000
Priority: 99
Page Num: 0062

Title : COMPLETE REPORT OF SITES ON EXPANDED BOUNDARIES

Funding Status: Funded: 0.00 Unfunded: 96.00

Servicewide Issues : C03 (SITE DOC)
C02 (ID & EVAL)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :
10-238 Package Number :

Problem Statement

NPS archeologists John Stein, Peter J. McKenna, and James Bradford performed a reconnaissance survey of cultural resources in the immediate vicinity of the monument in 1987. Stein and McKenna followed the survey with a 116 page report, "An Archeological Reconnaissance of a Late Bonito Phase Occupation near Aztec Ruins National Monument New Mexico" in 1988.

This report, however, is not a full and final analysis of the survey, other work associated with it, and of the artifacts found during the reconnaissance. Other aspects of the report needed include the following: 1. The researchers screened dirt disturbed by pothunters at several of the structures and retrieved various artifacts. Some analysis was begun by McKenna, but not reported on. 2. Mapping of the East Ruin was contracted to archeologist Scott Andre, but the final form and associated information was not completed. There may be other information about the East Ruin that is not included in the report.

Although McKenna wrote some of the final report, he did not finish it before he left the NPS to work for the BIA. Stein also left the NPS before he could do any more work with the project.

All the information for the report is at the SWR office. Currently there is no work being done on the report.

Description of Recommended Project or Activity

Complete the full report of work begun by Stein and McKenna. The report will be divided into two phases: the first will include the full and final analysis of the survey and of the artifacts found during the reconnaissance. The second phase would include producing the map of the East Ruin and any testing done in its vicinity.

Work can be accomplished using NPS personnel or a contractor. The first phase of the report could be assigned to an NPS

Last Update: 03/07/95
Initial Proposal: 1994

Project Statement

AZRU-C-035.000
Priority: 99
Page Num: 0063

archeologist and be written over 1.5 years, with printing in the third. The second phase could be accomplished by an NPS archeologist over a year with printing the next. Alternately, each project phase could be contracted out and completed in a shorter time--perhaps 6 months to a year--, but probably at a greater cost.

Costs are estimated for the in-house project. Work would be accomplished by a GS-11 employee, and researched and written over the first two years. Third year costs are for peer review, editing, and printing of the reports and map.

BUDGET AND FTEs:

Source		Activity	FUND Type	Budget (\$1000s)	FTEs
			Total:	0.00	0.00
		Activity	UNFUNDED Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time		45.00	1.00
Year 2:	RES	One-time		45.00	1.00
Year 3:	ADM	One-time		6.00	0.00
			Total:	96.00	2.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 E(1)

Last Update: 03/18/96
Initial Proposal: 1994

Project Statement

AZRU-C-036.000
Priority: 0
Page Num: 0064

Title : REPAIR ROTTEN CANALES & VIGAS ON VISITOR CENTER

Funding Status: Funded: 21.37 Unfunded: 0.00

Servicewide Issues : C13 (EMERG STABL)
Cultural Resource Type: STRC (Structure)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The vigas protruding from the south side of the visitor center porch have canale channels running through them to drain a portion of the roof. The vigas are affected by chronic dry rot. The rot may extend into the cross viga on the south side of the porch, although its extent is unknown. This viga supports the porch roof.

The visitor center is eligible for the National Register of Historic Places and is the prime contact point for visitors to the monument.

This chronic situation affects the structural integrity of the front porch and is a safety hazard for all the visitors to the monument (about 90,000 a year) who walk beneath it. The monument has considered restricting access to the area and propping up wood members to reduce the hazard.

Description of Recommended Project or Activity

Barry Sulam, Chief of the Southwest Region's Division of Conservation, recommended in 1993 that we replace the rotten canales, adjust the drainage on the remaining canales, and use conservation techniques to treat the dry rot areas.

Jake Barrow from the same office looked at the problem in 1994 and recommended repairing the problem by using epoxy and not replacing the beams because this would be too much disruption to the building and too costly overall.

The SWR office allotted \$15,000 in FY95 to repair the problem, using labor from Aztec Ruins as well as some specialists from their staff.

Last Update: 03/18/96
Initial Proposal: 1994

Project Statement

AZRU-C-036.000
Priority: 0
Page Num: 0065

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	RG-CR-MTN	RES	One-time	2.00	0.00
1995:	RG-CR-MTN	MIT	One-time	14.56	0.20
	PKBASE-OT	ADM	One-time	0.38	0.01
	PKBASE-OT	MIT	One-time	1.14	0.03
	RG-CR-MTN	MIT	One-time	0.29	0.01
	SPECIAL-\$	MIT	One-time	2.00	0.04
	RG-CR-MTN	ADM	One-time	1.00	0.02
Subtotal:				19.37	0.31
Total:				21.37	0.31

			-----UNFUNDED-----		
		Activity	Fund Type	Budget (\$1000s)	FTEs
Total:				0.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(4)

Last Update: 03/07/95
Initial Proposal: 1994

Project Statement

AZRU-C-037.000
Priority: 5
Page Num: 0066

Title : HIRE PERMANENT STAFF ARCHEOLOGIST

Funding Status: Funded: 0.00 Unfunded: 192.00

Servicewide Issues : C80 (ARCHEOLOGY)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Aztec Ruins is a major archeological site in the Southwest Region of the National Park System. There are 13 documented archeological sites within the original 27 monument acres, but over three times that many on lands within the expanded boundaries. Acquisition of these lands has begun, requiring more active management and protection of these sites.

Aside from the high number of archeological sites in the monument, the significance of the area prehistorically is substantial. It is on the World Heritage List by virtue of its being a major outlier of the Chaco system. Research of the area continues today and information changes yearly.

The need for an archeologist (Cultural Resource Management Specialist) to assist in the monument's ongoing stabilization program is expected to increase as stabilization needs become more critical. In addition, the expected acquisition of surrounding lands will require the knowledge and skills of an archeologist for surveying, documenting, and monitoring sites and areas for inventory, interpretation, and construction of visitor facilities.

Despite its wealth of archeological resources, their importance, complexity, and the monument's anticipated expansion, we have no permanent archeologist stationed at Aztec Ruins. There are just three permanent rangers: a GS-11 Chief of Interpretation and Resources Management (Chief Ranger) and two park rangers. The Chief Ranger has been completing some resource management duties that an archeologist would do. However, since her duties include those ranging from manning the information desk to conducting safety inspections, she can give only limited attention to the most pressing cultural resource needs. In addition, we must get an archeologist from the Southwest Regional office for tasks that require an archeologist, such as monitoring of ground disturbance, documentation, or excavation. Archeologists from that office are not usually available when needed, and bringing them here is costly as well.

Giving limited attention to managing the cultural resources has not only slighted the resources, but has narrowed our

Last Update: 03/07/95
Initial Proposal: 1994

Project Statement

AZRU-C-037.000
Priority: 5
Page Num: 0067

interpretation of the area. An on-site archeologist would keep abreast of the latest archeological studies, become an on-site expert of the Aztec Ruins archeology, and provide insightful review and comment to the interpretive staff. The public ultimately would benefit by having a professional archeologist on the staff.

An archeologist is needed to effectively carry out most of the projects identified in the RMP. Most important are the following: C-015 Stabilize Ruins to Maintenance Level (provide technical expertise, inspect ruins, write scope of work, document rooms, etc.); C-033 Research and Document Prehistoric Rooms; C-020 Write and Implement Backfilling Plan; C-002 Study and Correct Water Drainage Problems; C-009 Write Historic Structure Preservation Guide; C-012 Record Wall Bonding in West Ruin; C-022 Write Archeological Overview and Assessment; C-017 Test, Evaluate, and Record Mounds and Features.

Most parks in the southwest region with significant archeological resources have on-site archeologists (Bandelier, Flagstaff area, Chaco, Pecos, Canyon de Chelly). Aztec Ruins is long overdue for an on-site staff archeologist.

Description of Recommended Project or Activity

Hire a GS-9 permanent full-time archeologist (Cultural Resource Management Specialist) to carry out cultural resource management duties at Aztec. The employee may engage in a variety of tasks, including assisting with the stabilization program, researching and documenting sites, overseeing projects identified in the RMP, monitoring sites within the expanded boundaries, and serving as an on-site expert in the archeology of the monument.

Salary and benefits, training costs, and 1.0 FTE are needed to fund this position.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	ADM	Recurring	48.00	1.00
Year 2:	ADM	Recurring	48.00	1.00

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-C-037.000
Priority: 5
Page Num: 0068

Year 3:	ADM	Recurring	48.00	1.00
Year 4:	ADM	Recurring	48.00	0.00
Total:			=====	=====
			192.00	3.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.1

Project Statement

Last Update: 03/19/95
Initial Proposal: 1994

AZRU-C-038.000
Priority: 14
Page Num: 0069

Title : REPLACE "WARRIOR" EXHIBIT

Funding Status: Funded: 1.50 Unfunded: 0.00

Servicewide Issues : C30 (CONSULTATN)
Cultural Resource Type: COMB (Combination)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

A display installed in the visitor center in the 1950s was removed in 1994. It described the "Warrior Burial", so named by early archeologist Earl Morris when he excavated it in the West Ruin. Displayed were various associated grave goods, including ceramic bowls, basketry, stone and bone tools, and jewelry. The exhibit had minimal interpretive value. It perpetuated the sensationalist nature assigned to the burial by Morris (that of a "warrior") which is most likely inaccurate. It taught us little about the burial customs commonly practiced by the inhabitants, but only highlighted one very unusual status burial. The most serious problem, however, was that the exhibit was incompatible with National Park Service Management Policy, Dec. 88, Chapter 7:5. It states: "There will be no display of grave goods or other objects if Native Americans who are culturally associated with them object to such exhibit."

On 10/27/92, three representatives from the Office of Cultural Preservation of the Hopi Tribe visited Aztec Ruins for consultation purposes. During their visit, they expressed deep concern about this particular exhibit. They stated that certain items in this exhibit are very important to the individual buried with them. They felt that it was extremely inappropriate for these items to be on display or even separated from their original owner.

We did not cover the exhibit case, but instead put a small sign in the case explaining why we removed the display.

Description of Recommended Project or Activity

We removed the artifacts in FY94 and placed them in cabinets in the monument's museum storage facility until final disposition can be determined. A small sign was placed in the exhibit case explaining why the exhibit had been removed and that we would replace it in the future.

We want to complete this project by replacing the exhibit with an

Last Update: 03/19/95
Initial Proposal: 1994

Project Statement

AZRU-C-038.000
Priority: 14
Page Num: 0070

appropriate display. Exhibit planning will include consultation with American Indians and NPS personnel, design, production, and installation of a new exhibit.

The topic for the replacement exhibit has not been finalized. A tentative topic is to address the broad extent of the Aztec Ruins community. Recent survey of the surrounding lands tells of a much more extensive community than previously interpreted. Introducing the visitors to a more accurate depiction of the entire site and ideas about its development and significance within the larger Anasazi world will increase their understanding of the importance of Aztec Ruins and the value of protecting it. These ideas are not addressed elsewhere in the present exhibitry. This replacement exhibit will not only correct the problems with the old exhibit, but will serve the visitors and the monument better.

The Office of American Indian Programs in the Southwest Regional Office contributed \$500 in FY94 to remove and properly store artifacts from the exhibit in preparation for repatriation.

Funding for replacement will be sought through the NPS exhibit rehab fund, as well as through SPMA donations. Much of the design and planning work will be contracted out to private consultants.

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	REG-OTHER	MIT	One-time	0.50	0.00
	PKBASE-OT	ADM	One-time	1.00	0.01

	Subtotal:			1.50	0.01
				=====	
	Total:			1.50	0.01
			-----UNFUNDED-----		
		Activity	Fund Type	Budget (\$1000s)	FTEs
				=====	
	Total:			0.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Project Statement

Last Update: 03/19/95
Initial Proposal: 1994

AZRU-C-038.000
Priority: 14
Page Num: 0071

Explanation: 516 DM6 APP. 7.4 B(3)

Project Statement

AZRU-C-039.000

Last Update: 02/14/97

Priority: 4

Initial Proposal: 1994

Page Num: 0001

Title : STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC ROOFS

Funding Status: Funded: 34.75 Unfunded: 50.00

Servicewide Issues : C54 (EMERG STABL)

C55 (MAINTENANCE)

Cultural Resource Type: STRC (Structure)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Twenty roofs were designed and built in the 1980's to protect prehistoric roofs in the ruins. The modern roofs are synthetic membrane supported by plywood decks. The membranes are ballasted with stone. The deck is supported on wood joists that span the short direction of the rooms above the prehistoric roofs and frame into the stone masonry walls. Roof drains are installed to pipe the water off the membrane and direct it away from the ruins. Some of the modern roofs span the full width of the rooms and are independent of the prehistoric roofs.

Since installation, some of the roofs have leaked. Seepage from leaks runs on to the underlying earthen roofs and saturates the dirt, then seeps into the room below. Seepage damages the underlying supporting roof beams, as well as the wood joists supporting the modern protective roof. The roof membrane acts as a vapor barrier over the room and retards the evaporation of water from the earth fill and room below. A modern roof partially collapsed in 1993 because of rotting structural members. Another has shown serious problems, while others are in varying degrees of need for maintenance

The original design may not be adequate to protect the roofs over a long period without leaking or suffering structural problems. The roofs need to be reassessed for effectiveness and repaired if necessary.

Description of Recommended Project or Activity

Perform routine maintenance on the roofs annually. Inspect annually for leaks, seal edges with appropriate sealant.

Staff at the monument will examine each roof closely to assess whether an alternate roof treatment or design is needed to protect the prehistoric roofs. A conservation specialist and/or structural engineer from the Intermountain Cultural Resource Center may be consulted to help the staff assess and inspect the

roofs for structural integrity and effectiveness. Designs for repair or replacement, as needed, will follow. The several roofs that need immediate repair to prevent damage along with other roofs with the most critical repair jobs will be repaired first. Up to ten roofs will be repaired the first year. The remaining roofs will be addressed the next. Annual inspection and routine maintenance will occur in following years.

Estimated budget reflects annual routine maintenance and inspection of all roofs, as well as repair design and repair of the ten most critical roofs the first year. Funding for repairs the following years are roughly estimated.

In FY94, staff performed some routine inspection and maintenance on selected roofs, but no extensive repair work.

Compliance has been met for individual roofs already repaired. However, we will seek NHPA compliance for all the roofs still needing repair once suitable designs are established. Consultation with Native Americans is not necessary for this project.

BUDGET AND FTEs:

-----FUNDED-----				
	Source	Activity	Fund Type	Budget (\$1000s) FTEs
1994:	RG-CR-MTN	MIT	Recurring	1.40 0.02
1995:	RG-CR-MTN	MIT	Recurring	3.01 0.09
	PKBASE-OT	ADM	Recurring	0.15 0.01
			Subtotal:	3.16 0.10
1996:	RG-CR-MTN	MIT	One-time	19.97 0.63
	PKBASE-OT	ADM	One-time	1.12 0.02
	PKBASE-OT	MIT	One-time	1.37 0.04
	REG-OTHER	ADM	One-time	1.20 0.02
	PKBASE-OT	MIT	One-time	0.15 0.00
	PKBASE-OT	MIT	One-time	2.78 0.00
	VOL-IN-PK	MIT	One-time	0.40 0.02
	VOL-INDEP	MIT	One-time	3.20 0.15
			Subtotal:	30.19 0.88
			Total:	34.75 1.00

-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	MIT	Cyclic	6.00	0.20

Project Statement

AZRU-C-039.000

Last Update: 02/14/97

Priority: 4

Initial Proposal: 1994

Page Num: 0003

Year 3:	MIT	Cyclic	17.00	0.50
	MIT	Recurring	3.00	0.10
	ADM	Cyclic	2.00	0.07

		Subtotal:	22.00	0.67
Year 4:	MIT	Cyclic	17.00	0.50
	MIT	Recurring	3.00	0.10
	ADM	Cyclic	2.00	0.07

		Subtotal:	22.00	0.67
			=====	
		Total:	50.00	1.54

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(4)

Project Statement	AZRU-C-040.000
Last Update: 02/24/97	Priority: 17
Initial Proposal: 1994	Page Num: 0001

Title : PREPARE CULTURAL LANDSCAPE INVENTORY

Funding Status: Funded: 8.23 Unfunded: 15.00

Servicewide Issues : C10 (INVENTORY)
Cultural Resource Type: COMB (Combination)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The landscape in and around Aztec Ruins National Monument is quite different from that during Anasazi times. A trailer park and commercial buildings dominate the scene south of park boundaries. Irrigated pastures, orchards, and active and abandoned gas wells and tanks dot the remaining directions. Portions of the monument have been altered by paved trails, a picnic area, and landscaping with lawns and trees. Other areas with a more natural growth have been affected by irrigation, service roads, structures, and work areas.

The boundary expansion includes parcels with buildings, roads, wells, fruit trees, irrigation, and other features. Management will need to make decisions regarding alteration, maintenance, or removal of these features once the lands are acquired.

Because the landscape has changed repeatedly over the years, we need a study to determine significant landscape elements. A number of management proposals such as revegetation of certain areas and removal of buildings and irrigation ditches affect both the natural and cultural landscapes. Options for managing these landscapes need to be documented and explored before these proposals are implemented.

In addition, the National Register nomination forms have not been completed for the monument. Evaluation of landscape elements is necessary to complete the nomination forms.

Description of Recommended Project or Activity

Prepare a Cultural Landscape Inventory (CLI) according to NPS 28. Preliminary management guidance will be a part of this document. The CLI will inventory cultural landscape elements and relationships. It will identify character-defining landscape features and discuss their significance and integrity. The CLI and preliminary management guidance will assist management in planning appropriate decisions.

Project Statement

AZRU-C-040.000

Last Update: 02/24/97

Priority: 17

Initial Proposal: 1994

Page Num: 0002

A Level I reconnaissance in preparation for the inventory was completed in the fall of 1994. SWR has promised a more in-depth study in the spring of 1995 to help determine whether the full CLI is needed for Aztec Ruins. If this study finds that we do not need a full CLI, then this second level study would address some of the information we need to make several management decisions.

The budget listed is an estimate. Work will be done or overseen by the SWR Office of Cultural Landscapes Program. This study will be completed before the Cultural Landscape Report, N-010.000.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994: RG-CR-MTN RES		One-time	0.50	0.01
1995: RG-CR-MTN RES		One-time	1.00	0.02
PKBASE-OT ADM		One-time	0.23	0.01
CRPP RES		One-time	6.00	0.00
		Subtotal:	7.23	0.03
1997: PKBASE-OT ADM		One-time	0.50	0.01
		Total:	8.23	0.05
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 3:	RES	One-time	15.00	0.00
		Total:	15.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B(10)

Project Statement
Last Update: 03/20/96
Initial Proposal: 1994

AZRU-C-041.000
Priority: 15
Page Num: 0077

Title : TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMPUTER

Funding Status: Funded: 5.53 Unfunded: 8.13

Servicewide Issues : C03 (SITE DOC)
C46 (ACCOUNTBLY)
Cultural Resource Type: OBJC (Object)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

A computer and software were purchased in FY94 using Southwest Parks and Monuments Association using IDA funds to enable us to scan and store the monument's historic photo and archive collection for research purposes.

The historic photo and archive collection are extremely fragile and in many cases the only copy of the item. Use of this valuable resource can cause damage and deterioration. At present our historic photo collection and archives are located in our museum storage. Anyone desiring access to these items, researchers or employees, must be accompanied by the park curator at all times taking this employee away from other duties.

Scanning of items began in FY95 using volunteers.

Description of Recommended Project or Activity

Complete the scanning and begin the organization of all historic photos, stabilization reports and archives. This project includes the scanning of items onto the computer and organizing them in a manner that would make them readily available for staff and researchers. The ability to access our photo and archive collection via computer will protect this fragile resource from deterioration through use. This will also improve the ability of employees and researchers to access the collection.

Actual scanning of items can be accomplished by volunteers as well as paid personnel, who will mainly organize and supervise the process.

We acquired a computer, software, hand scanner and monitor in FY94 to begin this process.

Last Update: 03/20/96
Initial Proposal: 1994

Project Statement

AZRU-C-041.000
Priority: 15
Page Num: 0078

BUDGET AND FTEs:

-----FUNDED-----					
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	\$-DONATE	MIT	One-time	4.60	0.00
1995:	VOL-IN-PK	MIT	Cyclic	0.00	0.01
	PKBASE-OT	ADM	Cyclic	0.12	0.01
	CRPP	MIT	Cyclic	0.81	0.03
Subtotal:				0.93	0.05
Total:				5.53	0.05

-----UNFUNDED-----					
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		MIT	Cyclic	3.25	0.20
Year 3:		MIT	Cyclic	4.88	0.30
Total:				8.13	0.50

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.6

Project Statement

AZRU-C-042.000

Last Update: 02/24/97

Priority: 0

Initial Proposal: 1994

Page Num: 0001

Title : DESIGN AND INSTALL VC SPRINKLER SYSTEM

Funding Status: Funded: 80.93 Unfunded: 0.00

Servicewide Issues : C55 (MAINTENANCE)

C50 (SECTY&FIRE)

Cultural Resource Type: STRC (Structure)

N-RMAP Program codes :

10-238 Package Number : 137

Problem Statement

The visitor center lobby and offices, adjacent offices, front and back porches, and basement are the original Earl Morris home (the archeologist who did most of the field work at Aztec) and American Museum of Natural History field station. Construction began in 1919 and was completed in 1925. The WPA room was added in 1934. Both the original home and WPA room are built of stone in the Anasazi masonry style. Much of the stone used was recovered from rubble leftover from excavation of the nearby West Ruin. The ceilings are made of ponderosa pine vigas, crossed by cottonwood poles, then topped by juniper splints. Many of the vigas and cottonwood poles were recovered from fallen roofs in the West Ruin and are thus prehistoric. Doors, lintels, floors, and baseboards are of modern wood. This historic structure is eligible for the National Register of Historic Places, although full documentation has not been completed.

The east exhibit room built in 1958, holds 20 exhibit cases displaying original artifacts from the ruins and nearby areas. There are 210 catalogued items, with a total of 506 individual items on display.

The curatorial storage room built in 1984, holds 1340 catalogued items, with 5546 total artifacts in storage. In addition, there are 1700 archival records and 1500 photographs in storage.

Long range plans call for converting most of the building that now serves as office space into visitor use areas. New exhibits, an audiovisual room, and a remodeled book sales area will be added.

It is essential to provide maximum protection for this historic structure as well as the artifacts contained within. Future exhibits and other modifications also will need maximum protection. The highly flammable ceilings in portions of the building increase the urgency of providing sprinkler protection. Present protection consists only of smoke detectors in rooms. Further delay with this project prolongs the risk to both the structure and artifacts, both irreplaceable.

Description of Recommended Project or Activity

Design and install a sprinkler system to protect the rooms, artifacts, and exhibits in the visitor center. Rooms to be covered include the following, with square footage indicated:

Curatorial Storage	415 sq. ft.
WPA room	840
Library/office	340
East Exhibit room	1112
Lobby and offices	912
Adjacent offices	216
Basement	912
Front and back porches	1275

TOTAL 6022 Sq. ft.

System will be a wet pipe system and will comply with requirements specified in NFPA 13. An alarm to indicate trouble and activation of system will be included in the design.

The system should be designed such that it can be expanded as funding becomes available to cover additional rooms. Initial installation should protect the curatorial storage room as a minimum.

Cost estimates were obtained from Bob Henson, Chief of the Estimating Branch at Denver Service Center, 9/1/93. For an historic building such as the visitor center, he estimated the cost would be between \$5.00 and \$7.00 a square foot, with the range for our building more likely being in the \$6.00 to \$7.00 a square foot. Some of the cost depends on what requirements for installation are needed given the historic nature of the building (hiding the piping, recessing sprinkler heads, etc.). Cost estimates for the visitor center would then be as follows:

6022 sq. ft. x \$6.00/sq. ft.	= \$36,132 (low range)
6022 sq. ft. x \$7.00/sq. ft.	= \$42,154 (high ranger)

If we were to design and install the system for one or two rooms at a time, the total cost would be far greater than what is quoted above. For initial installation in the curatorial storage room only, for example, the estimated cost is about \$3,200. Recommendation is to design and install the entire system at one time, rather than doing it piecemeal.

The SW Curatorial Division gave us \$3200 in FY 94 to design and install the system in the curatorial storage room only. We soon found, however, that the cost estimates cited for this task were far too low to cover this entire job. Hooking up to the water supply alone will need the bulk of this money. This, coupled with the lack of time for designers to work on the project, resulted in little being done in FY94. An historical architect and mechanical engineer from Denver Service Center visited the area to get an overview of the building and make recommendations. They

initially advised not to install a sprinkler system, citing the difficulty of doing so, damage to the historic structure for installing pipes, and lack of historic fabric to protect. Their recommendation did not dissuade the park or others in the SWR Office. Work will continue to obtain the system.

The SWR Curatorial Division funded \$9300 in FY 95 to continue with the system design. Jeff Brown of the Division of Conservation worked with a contractor to survey the building and design the system. An additional \$50,000 funded by the Curatorial Division in FY95 will pay for the installation of the system to cover the entire visitor center.

Affiliated Native American groups will be informed of the necessity of ground excavation for completion of this project. NHPA compliance is a challenge. We will excavate or sink test pits in the valve pit and trenching areas prior to construction, with an archeologist on hand. Funding for some of this may be covered partially by the Curatorial Division, depending on what is found. If cultural materials are found, costs will be greater. Full consultation may need to take place, as well as cataloguing of artifacts if found. An estimate of \$2500 is given for FY96, but actual costs may be less or more.

BUDGET AND FTEs:

-----FUNDED-----				
	Source	Activity	Fund Type	Budget (\$1000s) FTEs
1994:	RG-CR-MTN	ADM	One-time	3.20 0.00
	RG-CR-MTN	ADM	One-time	1.00 0.02
			Subtotal:	4.20 0.02
1995:	RG-CR-MTN	ADM	One-time	1.00 0.02
	PKBASE-OT	ADM	One-time	0.50 0.01
	CRPP	RES	One-time	9.30 0.00
	PKBASE-OT	ADM	One-time	0.97 0.02
	REG-OTHER	MIT	One-time	2.03 0.05
	CRPP	MIT	One-time	50.00 0.00
	PKBASE-OT	MIT	One-time	0.90 0.03
	CRPP	MIT	One-time	1.01 0.00
			Subtotal:	65.71 0.13

Project Statement

AZRU-C-042.000

Last Update: 02/24/97

Priority: 0

Initial Proposal: 1994

Page Num: 0004

1996:	PKBASE-OT ADM	One-time	0.34	0.01
	PKBASE-OT MIT	One-time	1.74	0.03
	RG-CR-MTN MIT	One-time	5.00	0.07
	PKBASE-CR MIT	One-time	0.45	0.01
	RG-CR-MTN RES	One-time	3.04	0.07
	VOL-IN-PK RES	One-time	0.00	0.01
	RG-CR-MTN RES	One-time	0.45	0.01

Subtotal: 11.02 0.21

=====
Total: 80.93 0.36

-----UNFUNDED-----

Activity	Fund Type	Budget (\$1000s)	FTEs
=====			
Total:		0.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(18)

Last Update: 08/10/95
Initial Proposal: 1995

Project Statement

AZRU-C-043.000
Priority: 99
Page Num: 0083

Title : REHAB GREAT KIVA INTERIOR

Funding Status: Funded: 0.00 Unfunded: 21.00

Servicewide Issues : C70 (ENVRM IMPCT)
C05 (TREATMENTS)

Cultural Resource Type: STRC (Structure)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Earl Morris reconstructed in 1934 the Great Kiva on the site of a great kiva that he excavated in 1921. After he dismantled what was left of the features and walls of the original building, he constructed the new building using timbers for the roof from the San Juan National Forest, additional sandstone from a ruin Morris had excavated in La Plata Canyon, and cement mortar. He finished the inside of the structure with painted cement plaster. He left the dirt floor without trying to finish it in any way.

Since the reconstruction, the interior of the kiva has been painted several times. The present paint, applied in 1987, appears to be a glossy enamel, very different from the original finish that Morris applied. The cement plaster is exfoliating from many places in the interior.

Description of Recommended Project or Activity

Restore the Great Kiva to its appearance after reconstruction. Replaster areas needing new plaster, repaint entire interior with paint matching the original color.

Paint chips have been submitted for analysis to determine constituents of original paint.

Compliance has already been met for this project (FY94). An informational letter was sent to the Hopi Tribe describing the project with no comments received from them.

Last Update: 08/10/95
Initial Proposal: 1995

Project Statement

AZRU-C-043.000
Priority: 99
Page Num: 0084

BUDGET AND FTEs:

Source		Activity	Fund Type	Budget (\$1000s)	FTEs
			Total:	0.00	0.00
-----FUNDED-----					
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 2:	MIT	One-time		20.00	0.50
	ADM	One-time		1.00	0.03
			Subtotal:	21.00	0.53
			Total:	21.00	0.53

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(4)

Title : CONDUCT NAGPRA CONSULTATIONS

Funding Status: Funded: 2.05 Unfunded: 45.00

Servicewide Issues : C30 (CONSULTATN)

Cultural Resource Type: ETHN (Ethnographic Resources)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

A draft Cultural Affiliation Study was completed in 1995. The draft of the study demonstrates that at least nine tribes would like to have active consultations with Aztec Ruins. Much of the study was of minimal use to the monument, and a final report is needed.

The many NAGPRA and non-NAGPRA issues about which we need to consult include: the backfilling plan we will initiate in 1996, our annual stabilization program, rehabilitation of our mission 66 exhibits within the next five years, our interpretive program-how we interpret the area, written materials, personal services, interpretive use of the site, special uses of the monument, and artifact uses.

We have not made serious efforts to conduct consultations in past years. Most efforts have been limited to brief telephone or letter contacts with a handful of tribes. The Hopis made several on-site visits for consultation purposes regarding a re-burial of human remains and associated artifacts, orientation to the site, photographing artifacts, and input on exhibits, artifacts, and development of a trail guide. No other tribes have made formal visits to the area for orientation or discussion of issues.

Neither have we traveled to the tribes to meet with tribal officials. This is a significant lack of communication and effort on our part to fulfill our obligations to establish regular contact with affiliated tribes.

We cannot wait any longer to begin this process of communication and consultation without seriously eroding our credibility and consultation efforts as a whole.

Description of Recommended Project or Activity

Establish and maintain good relationships with affiliated tribes. Begin and continue NAGPRA consultations on various issues in the park.

Accomplishing the above will be through several actions. First we will contact all affiliated tribes (as identified through the Cultural Affiliation Study) through a combination of visits and phone calls to their tribal offices. We will meet with tribal officials to introduce ourselves and give us a chance to get acquainted. We will demonstrate our interest in their concerns by letting them talk to us, rather than forcing them to answer to our needs or our specific items of business. We will provide them with photographs, written information, video, or whatever they ask about the park. Our initiating these contacts through phone and by making a trip to their homes will reinforce the value we place on our relationship and their time.

After we visit tribal officials via telephone or by visiting, we will invite them to Aztec Ruins for an orientation to our facilities and resources. We will show them artifacts in storage and on display, exhibits, interpretive materials, the structures, park boundaries, etc. We may speak to them in general terms about issues at the monument, and try to determine from them which issues they would be interested in consulting with us about. We may consult with them on issues that are of immediate concern in this initial orientation visit.

Once orientation visits are accomplished we will join efforts with Chaco Culture National Historical Park and meet at the same time with their consultation committee, most of whom claim affiliation with Aztec. Doing this will help save time and travel for us and consultants. We will invite officials to the monument on an annual basis, and as issues arise that need their on-site visit.

NAGPRA issues will be raised and discussed as issues arise and as our relationship grows with the tribes. Most of these issues can be dealt with at the committee meetings.

Subsequent consultations will progress as we feel our way along. Some tribes may be quite responsive to visiting us frequently and regularly, others may want us to visit them. Others may be satisfied with letter or telephone contact. The main objective is to achieve a working relationship that establishes us as people who are responsive to their needs and feelings. Establishing such a relationship will form a positive base from which to deal with more sensitive NAGPRA issues.

Budget reflects our need to obtain funding especially in the first year to initiate contacts and conduct orientation visits. Travel costs to send the Superintendent and one other person to visit the tribes and to supply written orientation materials are estimated at about \$3,000 total for the first year. About \$1,500 annually after that is needed to attend consultation committee meetings, visit tribal officials as needed, and attend NAGPRA related training. Other expenses include \$3,500 the first year to bring tribal officials to Aztec Ruins for orientation and additional visits. This sum will help defray their expenses for committee meetings. In following years, we will need \$2,000 to

continue to bring tribal officials to Aztec for meetings and to discuss issues as they arise. The park will contribute the costs of about .1 FTE annually for the first few years in establishing the consultation activities. However, we will need matching funds of \$3500 annually at the same time to pay for .1 FTE to be able to establish and maintain a program that is active, consistent, and viable.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1996: PKBASE-OT ADM		Recurring	1.95	0.03
1997: PKBASE-OT ADM		Recurring	0.10	0.00
=====				
Total:			2.05	0.03

UNFUNDED				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	3.00	0.00
	ADM	Recurring	7.00	0.20
	RES	Recurring	3.50	0.00
	Subtotal:		13.50	0.20
Year 2:	RES	Recurring	1.50	0.00
	ADM	Recurring	7.00	0.20
	RES	Recurring	2.00	0.00
	Subtotal:		10.50	0.20
Year 3:	RES	Recurring	1.50	0.00
	ADM	Recurring	7.00	0.20
	RES	Recurring	2.00	0.00
	Subtotal:		10.50	0.20
Year 4:	RES	Recurring	1.50	0.00
	ADM	Recurring	7.00	0.20
	RES	Recurring	2.00	0.00
	Subtotal:		10.50	0.20
			=====	
Total:			45.00	0.80

Project Statement

AZRU-C-044.000

Last Update: 02/24/97

Priority: 6

Initial Proposal: 1996

Page Num: 0004

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.11

Project Statement	AZRU-C-045.000
Last Update: 02/24/97	Priority: 2
Initial Proposal: 1996	Page Num: 0001

Title : DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY

Funding Status: Funded: 8.71 Unfunded: 30.00

Servicewide Issues : C03 (SITE DOC)

Cultural Resource Type:

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

With implementation of the backfilling plan due to be initiated in 1996, there is a need for thorough documentation of the walls that will be covered. Photogrammetric documentation is an excellent way to capture details of architecture and elevations. It will allow us to easily render maps of walls and rooms through digital manipulation. Maps can be produced that are three dimensional if needed. Photogrammetry will capture details that field mapping will miss. After walls are covered, these data will be inaccessible so it is important to obtain as much documentation as possible prior to backfilling.

An added benefit will be that the photogrammetric documents will be available for interpretive productions of three dimensional "fly-by" videos so that viewers can experience all aspects of the ruin from different viewpoints.

Description of Recommended Project or Activity

Carry out photogrammetric documentation of all rooms in the West Ruin. This will provide baseline information that can be retained in perpetuity and manipulated as future researchers and park personnel need.

The project will happen in two phases. The initial phase will consist of producing the photographs. A contractor or park personnel will photograph all walls of each room in the west ruin with calibrated cameras so that the photographs can be used to prepare scalable drawings using photogrammetric techniques. The photographer will use a 35 mm camera with a shift lense, and color film. The photographer will take two photographs of each wall. One will contain a mug board describing location, date, photographer, etc. The other will be free of any labels so as to record every part of the wall. The film will be processed to color prints with negatives. The photographs will then be scanned to magneto optical drive where they can be preserved as a permanent digital record. As a part of this record, the focal length of each photo will be recorded on each. The prints and

negatives will be curated.

The photographer will then take a digital print of each wall back into the field and record directly on this print measurements of the four corners of the walls. Any other annotations appropriate for documentation of the wall will also be noted on this print. This print and notations will also be curated.

High initial costs reflect the costs of obtaining the magneto optical drive (\$500), camera and lens (\$1800), and flatbed scanner (\$300), needed to start the project.

Ideally, all photography of the West Ruin will be conducted within a short time period so as to provide the best baseline documentation. Estimated costs for labor to produce the photographs are \$9,000. Film and print processing is approximately \$4,000.

If funding cannot be obtained to photograph all rooms at the same time, we will plan to photograph half the West Ruin one year and half the next, at approximately \$8,000 costs per year.

The next phase of the project is to produce the drawings of rooms, walls, and elevations to the detail we need. These will be produced over a number of years as the drawings are needed for reporting or subsequent treatment of the walls. Since baseline data will be permanently available for these drawings, the capability of producing drawings will always exist.

Depending on the number of drawings we need over the years and the detail needed, costs of producing the drawings will vary anywhere from \$2,000 to \$20,000 a year. We are requesting \$10,000 annually for three years in this project statement.

This project needs to be conducted with project AZRU-C-033, Research and Document Prehistoric Rooms. That package allows for the documentation of rooms using forms on which an archeologist describes architectural attributes, but does not necessarily use photogrammetric methods to record walls. Ideally, both methods need to be employed. However, methods other than photogrammetry are costly in terms of time. Therefore, if funding is available for only one, photogrammetry is higher priority.

BUDGET AND FTEs:

-----FUNDED-----
Source Activity Fund Type Budget (\$1000s) FTEs

Project Statement

AZRU-C-045.000

Last Update: 02/24/97

Priority: 2

Initial Proposal: 1996

Page Num: 0003

1996:	PKBASE-OT ADM	Recurring	2.61	0.05
	PKBASE-OT RES	Recurring	2.93	0.15
	VOL-IN-PK RES	One-time	0.09	0.11
	REG-OTHER RES	One-time	2.68	0.00
	NON-PROFI RES	One-time	0.07	0.00
	REG-OTHER ADM	One-time	0.33	0.01

	Subtotal:		8.71	0.32
			=====	
	Total:		8.71	0.32

-----UNFUNDED-----

	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 2:	RES	Recurring	2.00	0.00
	ADM	Recurring	2.00	0.05
	RES	Recurring	6.00	0.35

	Subtotal:		10.00	0.40
Year 3:	INT	One-time	10.00	0.00
Year 4:	INT	One-time	10.00	0.00
			=====	
	Total:		30.00	0.40

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.6

Project Statement

AZRU-C-047.000

Last Update: 02/24/97

Priority: 7

Initial Proposal: 1997

Page Num: 0001

Title : REBURY HUMAN REMAINS AND FUNERARY ITEMS

Funding Status: Funded: 0.00 Unfunded: 12.00

Servicewide Issues : C47 (STORAGE)

Cultural Resource Type: OBJC (Object)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The monument cares for human remains from about 125 individuals and approximately 100 associated funerary items. None of the human remains are stored at Aztec, but most are now stored at WACC. About 23 individuals are stored in Santa Fe at the Intermountain Cultural Resource Center.

Chaco Culture National Historical Park has begun consultation with affiliated tribes to rebury the human remains and associated funerary items in their collection. Aztec Ruins attended one of these consultation meetings in 1996. Throughout their consultations with the tribes, Chaco has said that Aztec is also interested in pursuing this course with the items in their care. Chaco's process includes developing a Memorandum of Understanding and Scope of Work to accomplish the reburial and future reburials.

At the September, 1996 consultation meeting at Mesa Verde National Park, tribes indicated that they strongly desire parks to pursue the reburial of human remains and associated funerary items. They suggested to Mesa Verde a two year goal for which this would happen at that particular park.

Description of Recommended Project or Activity

Pursue reburial of human remains and associated funerary items under Aztec's care. Aztec will join with Chaco in its consultation efforts for this particular issue. Aztec will pursue a Memorandum of Understanding with the tribes through an addendum to the MOU developed with the tribes and Chaco. Aztec will develop its own scope of work to describe the reburial logistics and procedures

Funding needed covers the reburial efforts after all initial consultation on this issue has taken place. These consultation costs are covered under another project statement.

Funding is needed to cover the cost of preparation and transport

of the items from WACC and the Intermountain Cultural Center to Aztec, research of the literature to determine position of burials and accompanying artifacts, curatorial paperwork, additional help of a curator for about a week during the reburial process, excavation of the area for reburial, presence and reporting by an archeologist, costs of consultation of tribes for this particular action (such as the prior viewing of items before reburial, and the presence of tribes during reburial.)

This should be a two year project. Consultation, preparation, research, packaging, and transport of items will occur the first year. Excavation and burial of items will take place the second. Excavation costs are highly variable, depending upon the final location of the items--whether in an already disturbed area or not.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
=====				
		Total:	0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	ADM	One-time	5.00	0.01
Year 2:	ADM	One-time	7.00	0.02
		Total:	12.00	0.03

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : OTHER ()

Explanation: NAGPRA

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-N-001.000
Priority: 5
Page Num: 0092

Title : RESEARCH WATER RIGHTS, REPAIR WELL

Funding Status: Funded: 0.00 Unfunded: 23.00

Servicewide Issues : N13 (WATER RIGHTS)
Cultural Resource Type:
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The monument has two identified water rights in the NPS's dockets. In 1948 the First Judicial District Court of New Mexico of San Juan County adjudicated that the National Park Service is owner of 4.8 acre feet of water per annum. The water that comes from the Animas River via the Farmer's Irrigation Ditch, was used originally to irrigate 1.6 acres. That land is now occupied by the visitor center and parking lot, but this right is now exercised through irrigation of picnic grounds and the residence lawn.

The second water right results from a well that was drilled in the monument in 1931. Until the 1960's it was used for watering plants and grounds near the visitor center, but has not been used since. City water replaced most domestic water needs of the monument in 1958. There is no electricity going to the pump, and the condition of the pump and well is unknown. Repairs before use are needed. There is no evidence that a declaration of an existing water right with the State Engineer has been made. The monument needs to comply with New Mexico Water Law by either plugging the well to protect the aquifer, or putting the water to beneficial use and filing a declaration of an existing water right. Water rights are unknown for land parcels within the expanded boundaries.

Description of Recommended Project or Activity

Repair the well pump and use the water on a regular basis for irrigation. Keep detailed records of use. File a declaration of an existing water right with the Office of the State Engineer. When land acquisition funds are authorized by Congress, experts in the SWR Lands Division and the WASO Water Resources Division will be consulted and will initiate water rights research of the parcels to be acquired.

The \$3,000 requested during the first year of funding will be used to repair the well pump, and will cover the costs of the administrative work to file a declaration of an existing water

Project Statement
Last Update: 03/07/95
Initial Proposal: 1994

AZRU-N-001.000
Priority: 5
Page Num: 0093

right with the Office of the State Engineer. The \$10,000 for each of the next two years will fund costs of researching water rights in the parcels yet to be acquired.

BUDGET AND FTEs:

-----FUND-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	=====
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	PRO	One-time	3.00	0.20
Year 2:	RES	One-time	10.00	0.40
Year 3:	RES	One-time	10.00	0.40
Total:			23.00	1.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement
Last Update: / /
Initial Proposal: 1992

AZRU-N-003.000
Priority: 6
Page Num: 0094

Title : REDUCE VEGETATION FIRE HAZARD

Funding Status: Funded: 6.00 Unfunded: 4.50

Servicewide Issues : N07 (NAT FIRE REGM)
Cultural Resource Type:
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

In the past, overflow of water from the stock pond and irrigated fields north of the monument contributed to dense stands of vegetation in the northeast portion of the monument. Some of this vegetation was removed by YCC, Summer Youth, and volunteer Boy Scout projects. In 1992, funds provided for a contractor to remove most of the remaining dense vegetation in the Earl Morris ruin area and brush on Mound H. There were insufficient funds to remove a similar dense stand of brush of approximately 1 acre or less in the southeast corner of the monument, north and east of the residence and south of the East Ruin.

Risk of fire damage to the Earl Morris Ruin, East Ruin, and known archeological resources has been greatly reduced from brush removal. However, vegetation in the areas not treated poses a fire hazard to those areas. Suppression activities of a fire could cause damage to archeological features. A natural or prescribed burn of the area could have adverse impacts on the artifacts and ruin features.

Description of Recommended Project or Activity

Manually reduce the vegetation in the approximate 1 acre portion at the southeastern part of the monument. Work will be accomplished through contracted day labor. Dead vegetation will be removed and live vegetation will be thinned by cutting selected bushes at the base. Vegetation will be chipped on site and removed from the area.

Last Update: / /
Initial Proposal: 1992

Project Statement

AZRU-N-003.000
Priority: 6
Page Num: 0095

BUDGET AND FTEs:

		-----FUNDED-----			
Source	Activity	Fund Type	Budget (\$1000s)	FTEs	
1992:	FIRE-\$	MIT	One-time	5.00	
	PKBASE-OT	ADM	One-time	1.00	
			-----	-----	
		Subtotal:	6.00	0.10	
			=====		
		Total:	6.00	0.10	
		-----UNFUNDED-----			
	Activity	Fund Type	Budget (\$1000s)	FTEs	
Year 4:	MIT	One-time	3.50	0.00	
	ADM	One-time	1.00	0.10	
			-----	-----	
		Subtotal:	4.50	0.10	
			=====		
		Total:	4.50	0.10	

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 E(7)

Project Statement
Last Update: 03/20/96
Initial Proposal: 1993

AZRU-N-004.000
Priority: 4
Page Num: 0096

Title : CONTROL EXOTIC/NOXIOUS PLANTS AND ANIMALS

Funding Status: Funded: 6.33 Unfunded: 12.00

Servicewide Issues : N04 (NON-NAT ANIMAL)
N05 (NON-NAT PLANTS)

Cultural Resource Type:
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Exotic plants in the monument include russian thistle, kochia scoparia, and puncture-vine. The russian thistle and kochia grow in rooms in the ruins, along paths, and in disturbed areas, where roots penetrate the soil, possibly affecting walls and subsurface features. They also compete with the preferred native grasses. The dried vegetation is a fire hazard. Puncture vine is a hazard to visitors with thin soled shoes and also accelerates deterioration of walkways and sometimes ruin walls.

Current treatment is to pull these plants out by the roots, which is successful only when the plants are young and the ground fairly soft. However, with implementation of package AZRU-N-005, Revegetate Rooms, pulling may not be necessary in several years if native grasses were planted and allowed to compete with these weedy species. In addition, an agricultural propane torch has been used to attempt to control the weedy plants with some success.

Exotic animals include occassional rodents and other animals that burrow in and under the ruins and walkways, affecting structures and encouraging erosion. Stray cows, dogs, cats, horses, and domestic rabbits occasionally harass wildlife, foul the area, trample ruin areas, and threaten injury. Feral animals have been removed from the monument.

Description of Recommended Project or Activity

Continue to pull weedy species from ruins in conjunction with the revegetation program as long as needed. Vegetation removal will have minimal affect on soil erosion in these areas. Use agricultural propane torch only when the torch will not harm ruin walls and will have the most effect on the weeds. Remove feral cows and other animals. Live trap and relocate rodents and other burrowing animals that affect the ruins.

We had originally planned to accomplish this project through a

Project Statement

AZRU-N-004.000

Last Update: 03/20/96

Priority: 4

Initial Proposal: 1993

Page Num: 0097

seasonal GS-3 worker for 6 pay periods during the year. However, in FY95, we will use a WG-8 employee. The reason is because it is important to accomplish this work early in the year while plants are still young. We learned we had \$4,000 for this project in early March. The WG-8 employee was already on the roles and available. It would have taken us too much time to write a position description, recruit, and hire a lower graded employee to meet the spring season when this project needs to occur. The funds for FY95 will therefore go toward paying the WG-8 worker for approximately 3 pay periods, and any leftover will be applied to a WG-2 laborer. This person is also on the roles and available for some afternoons.

Summer Youth Participants (at no cost to us except for the time we spend supervising them) from the state will also help with the project. Work needs to be done in the spring when weedy plants are still young and the root system less developed.

BUDGET AND FTEs:

-----FUNDED-----					
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1993:	PKBASE-OT	MIT	Recurring	0.80	0.00
1994:	RG-CR-MTN	MIT	Recurring	4.33	0.10
1995:	RG-NS-RES	MIT	Recurring	1.20	0.00
Total:				6.33	0.10
-----UNFUNDED-----					
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		MIT	Recurring	4.00	0.30
Year 2:		MIT	Recurring	4.00	0.30
Year 4:		MIT	Recurring	4.00	0.12
Total:				12.00	0.72

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Project Statement

Last Update: 03/20/96
Initial Proposal: 1993

AZRU-N-004.000
Priority: 4
Page Num: 0098

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 E(7)

Title : REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING

Funding Status: Funded: 16.72 Unfunded: 10.00

Servicewide Issues : N05 (NON-NAT PLANTS)

N08 (CULT LANDSCAPE)

Cultural Resource Type: CULL (Cultural Landscape)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

There are several problem areas in the monument involving vegetation:

1. A major concern is in the East and West Ruins. Many of the kivas and rooms in the West Ruin have dirt floors open to sunlight and precipitation, where exotic weeds and small trees thrive. Their roots penetrate the ruin walls and cause structural damage. Current treatment is to pull them out by hand, a laborious process that is not always successful once the roots are well established in the hard-packed soil. We prefer native grass species to grow instead, which eventually out-compete the weeds and give the added benefit of transpiring moisture from the soil, thus diverting it from potentially damaging walls. Grass also obscures fewer of the features, allowing visitors to see more of the structure.

The West Ruin plaza is marred by vehicle tracks, off trail use, exotic plants, and has some slopes subject to erosion. Winter snows sometime render the plaza a quagmire of mud across which visitors walk and leave footprints. Vegetating this area with native bunch grass will discourage off trail use, control erosion, out compete weeds, and heal vehicle track scars. Slopes and social trails in the East Ruin are also eroding. Planting with native bunch grass will help control this problem.

2. The picnic area and some of the buildings are in view of the West Ruin trail. Vegetative screening with native plants (rabbitbrush, greasewood, four-wing saltbush, sage, etc.) would help to obscure these modern intrusions as well as dampen the noises from these areas, thus improving the visitor experience.

3. About 3 acres in the picnic area have been landscaped with turf grass, elms, willows, and cottonwood trees. Keeping the vegetation green and manicured through irrigation and mowing in the summer is labor intensive and wastes water. Some of the trees are not native, and the cottonwoods are mature. Cottonwoods need to be planted that will replace the mature ones, and the elms and other species need to be replaced with species that require less water and live longer. Selected areas could be returned to native

vegetation, and much of the grass could be replaced with grass that requires little or no irrigation and reduced maintenance.

4. Other areas of the monument have been scarred by old roads, social trails, erosion, and work areas. Vegetating these areas with native bunch grasses would discourage erosion, improve their appearance, discourage off-trail use, and out-compete exotic plants.

Description of Recommended Project or Activity

Vegetate areas of monument described in problem statement.
Actions are listed in priority:

1. Plant grasses to help control eroding slopes in both the East and West Ruins, eliminate social trails, vegetate rooms and kivas, and provide groundcover for the plaza. On steep slopes, particularly in the East Ruin where some erosion channels have already been established, we may need to place stones or landscape timbers horizontally across erosion channels, place additional dirt on top, then proceed with planting and using erosion control blankets.
2. Plant vegetative screening in selected areas of monument to improve visual experience.
3. Plant native bunch grass species, such as alkali sacaton, galleta grass (*Hilaria jamesii*), and Indian ricegrass (*Stipa hymenoides*), etc. in remaining areas of the monument with road scars, social trails, eroding areas, scarred work areas, etc.
4. Plant a turf grass more tolerant of low precipitation and reduced maintenance in selected areas of the picnic grounds. Plant selected areas with native plants (four-wing saltbush, greasewood, rabbitbrush, sage, etc.). Remove elms and other non-hardy species. Plant cottonwoods and other hardier species that are more drought tolerant.

Grass plugs will be obtained from nearby land managed by the Bureau of Land Management. Grass seed may be used in the picnic area if feasible, as water is readily available. Native plants will come from cuttings propagated from bushes on land managed by BLM. Chaco Canyon has offered to let us use their greenhouse to help propagate cuttings. Young trees will be purchased.

Ideally this is a long-term project. Costs and FTE are estimated. Work will be accomplished through a GS-3 seasonal worker who will collect grass plugs and cuttings, and propagate, plant, and water as necessary for approximately 8 pay periods annually. Even if there is funding to employ this person only 4 pay periods, we can still accomplish much during that short time as long as we have funding for supplies. This is also a project

that we can continue over the long term even if we are not funded annually. Supply costs are minimal, (approximately \$500-\$800 per year) and include potting soil, pots, root hormone, gas for the vehicle, erosion control blanket, and hand tools.

The Natural Resources Division of the Southwest Regional Office gave us \$400 late in FY93 to buy supplies for getting started on this project. Although we did not get funding for people to do planting, we did have a group of girl scouts and boy scouts do small replanting projects in FY94, with mixed results. Since then we've decided to look for adult volunteers to help with the project who have enough time to commit in the spring and late fall, when the plants have a better chance to survive.

In FY95 the Southwest Regional Office gave us \$4,000 to apply to this program. We revegetated several rooms and experimented with the effective times to plant vegetation, watering needed, species that did the best, and methods for transplanting. this initial year was largely experimental. With our new-found knowledge we want to pursue the program in future years with dedicated funding for a person to carry on with this program.

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1993:	RG-NS-RES	MON	Recurring	0.40	0.00
1994:	PKBASE-OT	ADM	Recurring	0.50	0.00
	\$-DONATE	MIT	Recurring	0.50	0.02

			Subtotal:	1.00	0.02
1995:	PKBASE-OT	ADM	One-time	0.10	0.01
	RG-NS-RES	MIT	One-time	4.00	0.11
	VOL-IN-PK	MIT	One-time	0.00	0.05
	RG-CR-MTN	MIT	Recurring	2.47	0.08

			Subtotal:	6.57	0.25
1996:	VOL-INDEP	MIT	One-time	0.00	0.02
	PKBASE-OT	ADM	Recurring	0.60	0.01
	PKBASE-OT	ADM	One-time	0.15	0.00
	NRPP	MIT	Recurring	4.00	0.20
	VOL-INDEP	MIT	One-time	0.00	0.01

			Subtotal:	4.75	0.24
1997:	NRPP	MIT	Recurring	4.00	0.20

			Total:	16.72	0.71

Project Statement

AZRU-N-005.000

Last Update: 02/25/97

Priority: 3

Initial Proposal: 1993

Page Num: 0004

-----UNFUNDED-----

	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 3:	MIT	Recurring	2.00	0.10
	MON	Recurring	1.00	0.02

		Subtotal:	3.00	0.12
Year 4:	MIT	Recurring	6.00	0.40
	MON	Recurring	1.00	0.02

		Subtotal:	7.00	0.42
			=====	
		Total:	10.00	0.54

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(19)

Last Update: 03/30/95
Initial Proposal: 1995

Project Statement

AZRU-N-006.000
Priority: 1
Page Num: 0103

Title : HIRE NATURAL RESOURCES MANAGEMENT SPECIALIST

Funding Status: Funded: 0.00 Unfunded: 54.00

Servicewide Issues : N24 (OTHER (NATURAL))
N20 (BASELINE DATA)
Cultural Resource Type: COMB (Combination)
N-RMAP Program codes : V00 (Vegetation Management)
V04 (Exotic Plant Management)

10-238 Package Number :

Problem Statement

Although the monument was specifically created for its cultural resource values, there are also natural resources and related issues that need professional management and attention. We have no person presently on the staff dedicated to caring for natural resources and other issues. The Chief of Interpretation and Resources Management devotes limited time to natural resources, while other staff spend sporadic time on natural resource projects and related issues.

It is apparent that with the growing complexity of administrative duties and the anticipated growth of the monument, we need experienced and trained attention for natural resources. Natural resource related duties also need professional attention, such as integrated pest management, revegetation, exotic plant and animal removal, oil and gas activity monitoring and compliance, plant and animal inventories, and GIS data development.

Description of Recommended Project or Activity

Hire a 401 GS-9 Resources Management Specialist to deal with natural resources and related issues at Aztec. Because a full FTE would probably not be needed for Aztec Ruins in this capacity, it is proposed to share this position with Chaco Culture National Historical Park. The budget in the project statement, however, reflects full funding and FTE.

Last Update: 03/30/95
Initial Proposal: 1995

Project Statement

AZRU-N-006.000
Priority: 1
Page Num: 0104

BUDGET AND FTEs:

Source		Activity	Fund Type	Budget (\$1000s)	FTEs
			Total:	0.00	0.00

		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		ADM	Recurring	54.00	1.00
			Total:	54.00	1.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : OTHER ()
EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.1

Project Statement
Last Update: / /
Initial Proposal: 1994

AZRU-N-010.000
Priority: 2
Page Num: 0105

Title : PREPARE CULTURAL LANDSCAPE REPORT

Funding Status: Funded: 0.00 Unfunded: 35.00

Servicewide Issues : C11 (REPORT)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

The landscape in and around Aztec Ruins National Monument is quite different from that during Anasazi times. A trailer park and commercial buildings dominate the scene south of park boundaries. Irrigated pastures, orchards, and active and abandoned gas wells and tanks dot the remaining directions. Portions of the monument have been altered by paved trails, a picnic area, and landscaping with lawns and trees. Other areas with a more natural growth have been affected by irrigation, service roads, structures, and work areas.

The boundary expansion includes parcels with buildings, roads, wells, irrigation, and other features. Management will need to make decisions regarding alteration, maintenance, or removal of these features once the lands are acquired.

The landscape has changed repeatedly over the years. A study is needed to determine significant landscape elements today and during previous years. A number of management proposals such as revegetation of certain areas and removal of irrigation ditches affect both the natural and cultural landscapes. Options for managing these landscapes need to be documented and explored through a cultural landscape report before these proposals are implemented.

Description of Recommended Project or Activity

Prepare a Cultural Landscape Report (CLR) according to NPS-28 standards. A CLR is the basic cultural landscape research document that identifies and evaluates cultural landscape resources. The report will provide a broad context for management decisions by collecting background research on the natural and cultural landscape of the present and expanded monument boundaries. It will identify management issues, and evaluate and recommend options for cultural and natural landscape maintenance.

Decisions regarding maintenance of the landscape will then be based upon a thoughtful evaluation of the different options, and

Project Statement
Last Update: / /
Initial Proposal: 1994

AZRU-N-010.000
Priority: 2
Page Num: 0106

continuity in landscape management will be maintained.

The budget will be revised following scoping. The CLR will be overseen and/or completed by the SWR Cultural Landscape Program. The work may be contracted out to a qualified researcher.

BUDGET AND FTEs:

-----FUNDED-----				
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	=====
Total:			0.00	0.00
-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	35.00	1.00
Total:			=====	=====
			35.00	1.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 App. 7.4 B

Active Filter: (No filter)

Output Selections:

Sorted by: Resource Type + Accomplishments Year + Project Number
Year: All years
Show subtotal after change in Accomplishments Year
Show grand total

02/28/97 10:21:14		ACCOMPLISHMENTS LIST		Page: 0001			
YEAR	PROJECT NUMBER	PROJECT TITLE	SUB-TITLE	FUNDED	FTE	TO DATE	PERCENT
1994	AZRU-C-002.000	STUDY AND CORRECT WATER DRAINAGE PROBLEMS		0.92	0.02	53	20
1994	AZRU-C-011.000	UPDATE LIST OF CLASSIFIED STRUCTURES		0.40	0.01	0	90
1994	AZRU-C-014.000	STUDY AND PRESERVE PREHISTORIC WOOD		7.50	0.20	15	35
1994	AZRU-C-015.000	STABILIZE RUINS TO MAINTENANCE LEVEL		40.50	0.90	145	8
1994	AZRU-C-018.000	CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS		3.00	0.22	16	75
1994	AZRU-C-026.000	IMPLEMENT COLLECTION CONDITION SURVEY RECOMMEND		13.00	0.01	15	15
1994	AZRU-C-033.000	RESEARCH AND DOCUMENT PREHISTORIC ROOMS		4.70	0.08	22	20
1994	AZRU-C-034.000	DETERMINE NEED FOR VIBRATIONAL STUDY		2.20	0.01	2	100
1994	AZRU-C-036.000	REPAIR ROTTEN CANALES & VIGAS ON VISITOR CENTER		2.00	0.00	2	10
1994	AZRU-C-038.000	REPLACE "WARRIOR" EXHIBIT		1.50	0.01	2	20
1994	AZRU-C-039.000	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC R		1.40	0.02	1	15
1994	AZRU-C-040.000	PREPARE CULTURAL LANDSCAPE INVENTORY		0.50	0.01	1	5
1994	AZRU-C-041.000	TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMP		4.60	0.00	5	15
1994	AZRU-C-042.000	DESIGN AND INSTALL VC SPRINKLER SYSTEM		4.20	0.02	4	10
Accomplishments Year Sub-total-----				86.42	1.51	282.12	
1995	AZRU-C-002.000	STUDY AND CORRECT WATER DRAINAGE PROBLEMS		0.60	0.02	2	0
1995	AZRU-C-007.000	COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPO		10.01	0.02	10	0
1995	AZRU-C-011.000	UPDATE LIST OF CLASSIFIED STRUCTURES		1.00	0.02	1	50
1995	AZRU-C-014.000	STUDY AND PRESERVE PREHISTORIC WOOD		7.93	0.17	23	35
1995	AZRU-C-015.000	STABILIZE RUINS TO MAINTENANCE LEVEL		24.26	0.65	169	10
1995	AZRU-C-018.000	CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS		1.74	0.07	18	75
1995	AZRU-C-020.000	WRITE & IMPLEMENT BACKFILLING PLAN		2.08	0.04	2	0
1995	AZRU-C-021.000	CONDUCT ORAL HISTORY PROGRAM		0.63	0.02	1	0
1995	AZRU-C-023.000	PRODUCE CULTURAL AFFILIATION STUDY		0.20	0.01	20	60
1995	AZRU-C-024.000	PRODUCE CULTURAL RESOURCES BASE MAP		0.08	0.00	0	0
1995	AZRU-C-025.000	UPDATE COLLECTIONS PLANS		0.01	0.00	0	0
1995	AZRU-C-026.000	IMPLEMENT COLLECTION CONDITION SURVEY RECOMMEND		0.82	0.07	14	15
1995	AZRU-C-033.000	RESEARCH AND DOCUMENT PREHISTORIC ROOMS		5.30	0.13	10	10
1995	AZRU-C-036.000	REPAIR ROTTEN CANALES & VIGAS ON VISITOR CENTER		19.37	0.31	21	0
1995	AZRU-C-039.000	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC R		3.16	0.10	5	0
1995	AZRU-C-040.000	PREPARE CULTURAL LANDSCAPE INVENTORY		7.23	0.03	8	5
1995	AZRU-C-041.000	TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMP		0.93	0.05	6	0
1995	AZRU-C-042.000	DESIGN AND INSTALL VC SPRINKLER SYSTEM		65.71	0.13	70	0
Accomplishments Year Sub-total-----				151.06	1.84	378.48	
1996	AZRU-C-002.000	STUDY AND CORRECT WATER DRAINAGE PROBLEMS		0.46	0.01	2	0
1996	AZRU-C-005.000	MONITOR PLASTER IN 156, CORRECT PROBLEMS		0.20	0.01	0	10
1996	AZRU-C-007.000	COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPO		1.11	0.02	11	15
1996	AZRU-C-011.000	UPDATE LIST OF CLASSIFIED STRUCTURES		0.63	0.02	2	100
1996	AZRU-C-014.000	STUDY AND PRESERVE PREHISTORIC WOOD		3.85	0.11	27	35
1996	AZRU-C-015.000	STABILIZE RUINS TO MAINTENANCE LEVEL		9.42	0.24	181	0
1996	AZRU-C-018.000	CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS		0.00	0.01	23	95
1996	AZRU-C-020.000	WRITE & IMPLEMENT BACKFILLING PLAN		4.75	0.09	7	0
1996	AZRU-C-023.000	PRODUCE CULTURAL AFFILIATION STUDY		0.55	0.01	21	0
1996	AZRU-C-024.000	PRODUCE CULTURAL RESOURCES BASE MAP		0.18	0.00	0	0
1996	AZRU-C-033.000	RESEARCH AND DOCUMENT PREHISTORIC ROOMS		1.31	0.02	9	0
1996	AZRU-C-039.000	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC R		30.19	0.88	35	5
1996	AZRU-C-042.000	DESIGN AND INSTALL VC SPRINKLER SYSTEM		11.02	0.21	81	20
1996	AZRU-C-044.000	CONDUCT NAGPRA CONSULTATIONS		1.95	0.03	2	0
1996	AZRU-C-045.000	DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY		8.71	0.32	9	0
Accomplishments Year Sub-total-----				74.33	1.98	409.32	
1997	AZRU-C-023.000	PRODUCE CULTURAL AFFILIATION STUDY		0.60	0.02	21	85
1997	AZRU-C-024.000	PRODUCE CULTURAL RESOURCES BASE MAP		0.50	0.00	1	0
1997	AZRU-C-040.000	PREPARE CULTURAL LANDSCAPE INVENTORY		0.50	0.01	8	0
1997	AZRU-C-044.000	CONDUCT NAGPRA CONSULTATIONS		0.10	0.00	2	0
Accomplishments Year Sub-total-----				1.70	0.03	32.39	
1998	AZRU-N-004.000	CONTROL EXOTIC/NOXIOUS PLANTS AND ANIMALS		4.33	0.10	5	15
1998	AZRU-N-005.000	REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING		1.00	0.02	1	3
Accomplishments Year Sub-total-----				5.33	0.12	6.53	

Continued...

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ACCOMPLISHMENTS LIST

Page: 0002

YEAR	PROJECT NUMBER	PROJECT TITLE	SUB-TITLE	FUNDED	FTE	TO DATE	PERCENT
1995	AZRU-N-004.000	CONTROL EXOTIC/NOXIOUS PLANTS AND ANIMALS		1.20	0.04	6	0
1995	AZRU-N-005.000	REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING		6.57	0.33	8	4
Accomplishments Year Sub-total-----				7.77	0.37	14.30	
1996	AZRU-N-005.000	REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING		4.75	0.24	13	8
Accomplishments Year Sub-total-----				4.75	0.24	12.72	
Grand Total=====				331.36	6.09	1135.86	

56 projects printed

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-002.000

Title : STUDY AND CORRECT WATER DRAINAGE PROBLEMS

Servicewide Issues : C70 (ENVRM IMPCT)
C05 (TREATMENTS)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

Description of Accomplishments

Stabilization workers hand cleaned drains in the West Ruin. The large drain north of the west and east ruins was not cleaned.

Plans for Next Cycle

Perform annual drain cleaning.

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-CR	MIT	Cyclic	0.46	0.01

Total this year:			0.46	0.01
Total to date:			1.98	
Percent completed:			0%	

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-007.000

Title : COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPORT

Servicewide Issues : C52 (HSR)

Cultural Resource Type: STRC (Structure)

N-RMAP Program codes :

Description of Accomplishments

Finalize the nomination papers. Kathy McKoy will then help us to submit the nomination to the National Register.

Accomplishment: The nomination form was prepared by Historical Research Associates. Drafts were exchanged among offices and reviewed in March, 1996, and in late summer, 1996. Kathy McCoy, Historian with the Colorado Plateau SO, sent the nomination to the National Registrar for review in September, 1996. The visitor center was finally listed on Oct. 11, 1996.

A full Historic Structure Report is still desirable but is less crucially needed now. Therefore this project should drop significantly in priority from earlier lists.

Plans for Next Cycle
(No information provided)

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-OT	ADM	One-time	0.36	0.01
REG-OTHER	ADM	One-time	0.75	0.01

Total this year:			1.11	0.02
Total to date:			11.12	
Percent completed: 15%				

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-011.000

Title : UPDATE LIST OF CLASSIFIED STRUCTURES

Servicewide Issues : C51 (LCS)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

Description of Accomplishments

No work was performed on this project. Buildings needing to be listed already are. Any work that needs to be done would involve buildings on parcels of land yet to be added to the monument.

Plans for Next Cycle
(No information provided)

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
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Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-014.000

Title : STUDY AND PRESERVE PREHISTORIC WOOD

Servicewide Issues : C57 (SPEC STUDY)

C04 (DATA RECOV)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

Description of Accomplishments

Collect the remaining 67 samples needed to fulfill the FY95 grant award. Finish sampling wood in the East Ruin.

Accomplishment:Funding for the project in FY96 reflected mostly donated time by six volunteers (101 hours) and ONPS funding (not from the park) to pay Tom Windes (100 hours and about \$2500) and Cheryl Ford (25 hours and about \$200) to work on the project. Tom has donated quite a bit of his own time to accomplish the work and keep the project going. SPMA did not give us funding in FY96 to continue with the project.

Volunteers and Windes collected wood in March, 1996 from the East Ruin, rooms in the West Ruin, and from the visitor center. They finished collecting samples in the East Ruin, about 150-180 samples. Total samples from all three areas amounted to about 300 samples.

They also made some detailed maps of roofs in the West Ruin, including 141, 189, 200, 201, and 262. They made new detailed maps of doors in rooms 152, 146, 143, 205, and 206. Wall maps were made for room 262.

Wood documentation was done for rooms 141, 143, 152, 181, and 205.

A short report of the tree ring samples that were analyzed earlier was written for SPMA. A funding proposal for continuing the project in FY97 was written and submitted but rejected by SPMA. According to reports from Kim Sikoryak who sat on the research committee's deliberations, the committee rejected it because they felt Tom Windes had received too much grant research money from SPMA in the past. They said his work was good, and the value of the project at Aztec was good, but they did not want to fund it for that reason. Kim Sikoryak advised the park to resubmit the project for funding in FY98.

Plans for Next Cycle
(No information provided)

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-014.000

Title : STUDY AND PRESERVE PREHISTORIC WOOD

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
REG-OTHER	RES	Cyclic	2.70	0.06
PKBASE-OT	ADM	Cyclic	0.15	0.00
VOL-IN-PK	RES	Cyclic	1.00	0.05

Total this year:			3.85	0.11
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Total to date: 26.88

Percent completed: 35%

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-015.000

Title : STABILIZE RUINS TO MAINTENANCE LEVEL

Servicewide Issues : C54 (EMERG STABL)

C55 (MAINTENANCE)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

Description of Accomplishments

No project funding was received for FY96 for stabilization work. (Funding was received for work on the roofs, reflected in another project statement.) Park base funding was used to fund James Brown, Harry Etcitty, and Raymond Torrivio in what little was accomplished.

Mike Sherris spent 20 hours administering the program. The three workers devoted 320 hours to actual work. About \$900 was spent on supplies alone.

Ruins inspections, assessments, documenting work with photography, and stabilization reporting are also included in the figure marked RES. Most of this work was done by James Brown (101 hours). Mike Sherris, Facility Manager, worked thirty hours on this function. Both together used \$2576 of park base funding for this function.

In addition, four Zuni stabilization trainees associated with Cornerstone Foundation worked one and one half days on stabilizing walls.

Rooms stabilized include 143, 178-2, 140-2, and kiva t. Total area stabilized was 157 square feet.

Plans for Next Cycle
(No information provided)

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-015.000

Title : STABILIZE RUINS TO MAINTENANCE LEVEL

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-OT	ADM	Cyclic	0.56	0.01
PKBASE-OT	MIT	Cyclic	4.90	0.15
PKBASE-OT	MIT	Cyclic	0.90	0.00
VOL-INDEP	MIT	One-time	0.48	0.02
PKBASE-OT	RES	One-time	2.58	0.06

Total this year:			9.42	0.24
Total to date:			180.86	
Percent completed:			0%	

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-018.000

Title : CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS

Servicewide Issues : C46 (ACCOUNTBLY)

Cultural Resource Type: OBJC (Object)

N-RMAP Program codes :

Description of Accomplishments

Volunteers contributed 22 hours to improving the storage of 225 photos and entering on computer database records for 1400 photos. Park Ranger Tracy Bodnar spent about 2 hours supervising this work.

Plans for Next Cycle
(No information provided)

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
VOL-IN-PK	MIT	One-time	0.00	0.01

Total this year:			0.00	0.01
Total to date:			23.34	
Percent completed: 95%				

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-020.000

Title : WRITE & IMPLEMENT BACKFILLING PLAN

Servicewide Issues : C57 (SPEC STUDY)
C05 (TREATMENTS)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

Description of Accomplishments

Urge Jim Trott to devote the 20 more days he needs to finish the backfilling plan. He reports that he needs to complete details on the plan, and pull it together with supporting drawings.

Document with photogrammetry the cobble rooms on the south side of the plaza. Backfill these rooms during FY96.

Accomplishment: Jim Trott contributed about 20 days working on the plan in FY96. Funding for his time came from the Intermountain Cultural Resources Center. By year's end, the plan was still in a rough draft form and still needs work.

The cobble rooms were not backfilled in FY96. However, they were photodocumented (not with scalable photos.) Since most of the walls have been heavily reconstructed, we determined that the photodocumentation did not need to be scalable prior to backfilling.

Plans for Next Cycle

Finish the backfilling plan in FY97. Begin compliance process by getting expert opinions on it. Consult with tribes on the project.

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-OT	ADM	One-time	0.25	0.01
RG-CR-MTN	RES	One-time	4.50	0.08

Total this year:			4.75	0.09
Total to date:			6.83	
Percent completed:			0%	

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-023.000

Title : PRODUCE CULTURAL AFFILIATION STUDY

Servicewide Issues : C25 (CULT. AFFIL)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

Description of Accomplishments

The good news is Aztec Ruins will be included in another cultural affiliation study funded from a central office that will include a number of Anasazi parks.

Accomplishment: The contract was completed by George Esber, an ethnographer who had resigned from the NPS position of Ethnographer in the Southwest Region. He had originally written the contract specifications. Esber apparently joined Greenburg's business in Oxford, Ohio.

Since the report needed major rewriting, it was to have been submitted to the park once again as a first draft. The draft Esber submitted in August, 1996, showed major rewriting of the first draft. The literature search had been greatly expanded.

The park and the two field ethnographers made comments, the park sought comments from the tribes, and submitted them to Esber at the end of November, 1996.

The funds spent on this project reflect time spent by the park to review the drafts, and estimated time spent by Ed Natay to oversee the contract and coordinate with the contractor.

After several drafts in FY96 and 97, final copies of the study were received by the park in February, 1997.

Plans for Next Cycle

Complete the final plan in 1997.

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-023.000

Title : PRODUCE CULTURAL AFFILIATION STUDY

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-OT	ADM	One-time	0.05	0.00
REG-OTHER	ADM	One-time	0.50	0.01

Total this year: 0.55 0.01

Total to date: 20.75

Percent completed: 0%

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-024.000

Title : PRODUCE CULTURAL RESOURCES BASE MAP

Servicewide Issues : C63 (HIS BASE MP)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

Description of Accomplishments

Pursue development of a GIS map with the McKinley County GIS Center in Gallup and John Stein of the Navajo Tribe.

Accomplishment: Although work on a GIS map had not begun, the park spent some funds for the Chief of I and RM to talk with John Stein and GIS Center about prospects for doing the job. She traveled to the GIS Center in Gallup to discuss.

Plans for Next Cycle
(No information provided)

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-OT	ADM	One-time	0.18	0.00

Total this year:			0.18	0.00
Total to date:			0.26	
Percent completed:			0%	

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-033.000

Title : RESEARCH AND DOCUMENT PREHISTORIC ROOMS

Servicewide Issues : C03 (SITE DOC)
C04 (DATA RECOV)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

Description of Accomplishments

This project dovetails with the photogrammetry project statement. We will concentrate more on obtaining photographs and probably will not complete architectural documentation forms.

James Brown, Lead Masonry Worker, will complete necessary photographic documentation and room research on walls that do not need more detailed documentation before stabilization work.

Accomplishment: Kaisa Barthuli spent several days in the summer of 1996 checking over maps she made of past documented rooms. Funding from the regional office paid for her trip here for that purpose.

James Brown spent about 24 hours documenting and researching rooms not needing research by an archeologist. Most of the documentation work was for work to be performed on repairing modern roofs that cover the prehistoric roofs. Funding for this work came from ONPS.

Work on photogrammetric documentation of walls is reported under that project statement.

Plans for Next Cycle
(No information provided)

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-033.000

Title : RESEARCH AND DOCUMENT PREHISTORIC ROOMS

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
RG-CR-MTN	RES	One-time	0.90	0.01
PKBASE-OT	RES	One-time	0.41	0.01

Total this year:			1.31	0.02
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Total to date: 8.73

Percent completed: 0%

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-039.000

Title : STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC ROOFS

Servicewide Issues : C54 (EMERG STABL)
C55 (MAINTENANCE)

Cultural Resource Type: STRC (Structure)

N-RMAP Program codes :

Description of Accomplishments

Funding of \$20,000 from Cultural Resource Cyclic project funds allowed us to begin repairing and replacing roofs covering prehistoric roofs. Most of the funding (\$19,973) was spent on salaries of two masonry workers to perform the work. Park Funds were used to pay James Brown (80 hours, \$1372) and Mike Sherris (40 hours, \$1120) to plan and execute the work.

SO help was solicited from Sayre Hutchinson (30 hours, \$1200), a Historical Architect, who helped develop a suitable design for the roofs.

Other assistance came from Zuni trainees with Cornerstone Foundation. As part of their training, eight trainees worked roughly five days on two roofs, at a donated benefit of about \$3,200.

Supplies (\$2500) came from park base.

The Chief of I & RM contributed 5 hours (\$150) as a consultant and for compliance needs.

Five roofs were repaired: 142/191-2, 144/140-2, 156/157-2, 177/197-2, and 189/134-2. In room 142/191-2, only the surface roofing and flashing were replaced. In the other four rooms, the entire roofs, including the underlying framing, were replaced.

Plans for Next Cycle
(No information provided)

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-039.000

Title : STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC ROOFS

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
RG-CR-MTN	MIT	One-time	19.97	0.63
PKBASE-OT	ADM	One-time	1.12	0.02
PKBASE-OT	MIT	One-time	1.37	0.04
REG-OTHER	ADM	One-time	1.20	0.02
PKBASE-OT	MIT	One-time	0.15	0.00
PKBASE-OT	MIT	One-time	2.78	0.00
VOL-IN-PK	MIT	One-time	0.40	0.02
VOL-INDEP	MIT	One-time	3.20	0.15

Total this year: 30.19 0.88

Total to date: 34.75

Percent completed: 5%

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-042.000

Title : DESIGN AND INSTALL VC SPRINKLER SYSTEM

Servicewide Issues : C55 (MAINTENANCE)
C50 (SECTY&FIRE)

Cultural Resource Type: STRC (Structure)

N-RMAP Program codes :

Description of Accomplishments

Accomplishment: Work on installation of the system continued and was completed by the end of March, 1996.

Jim Trott worked 3 weeks digging test trenches for compliance, assisted by monument staff. His salary and travel expenses (salary \$3375, travel \$1200) were covered by the Intermountain Cultural Resource Center. However, he was unable to return to Aztec to finish the monitoring of the project. We scrambled to obtain Rory Gauthier and Dabney Ford from Chaco Culture, and Tom Windes to monitor the trenching during the project. Chaco Culture covered salary expenses (\$450) for Dabney and Rory. The Intermountain Cultural Resource Center covered salary and travel (\$450 and \$90) for Tom Windes to monitor two days.

The collected artifacts were sent to the Intermountain Cultural Resource Center for curation. Tom Windes spent 70 hours (\$1912 salary, \$200 travel from Resource Center) analyzing the artifacts obtained from the monitoring. He also did a rough sort of the sherds. Cheryl Ford spent 80 (\$800 from Resource Center) hours washing, tallying, and weighing the items. Three volunteers gave 24 hours assisting with the project. Supplies amounted to about \$125. Tom forwarded a detailed list of the materials to the curation division in the ICRC, the park, and Jim Trott, along with tables of the ceramic types.

Tom Windes wanted a more thorough report of the project, including analysis of artifacts. It had not been made clear in the beginning to Jim Trott and his supervisor Barry Sulam that Jim Trott should write the report. As of March 1996, Jim planned to write a complete report that he estimates will take about 30 days to complete. He spent 2 days (\$450 from ICRC) gathering together information and doing initial research.

Facility Manager Mike Sherris and James Brown both worked on the project, primarily in administration and mitigation. Both worked a total of 70 hours, using \$1743 of park funding to do so.

Some of the design of the system did not fit reality once the installers tried to carry it out. We found that we needed to route some of the pipes below the vigas in several rooms, thus creating a more visible intrusion. Chief of RM Terry Nichols

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-042.000

Title : DESIGN AND INSTALL VC SPRINKLER SYSTEM

consulted with Historian Catherine Colby and the NM SHPO's office regarding this design change. Both agreed it would be better to route the pipes below the vigas instead of above and risk having to cut some of the vigas and latillas. They both suggested painting the pipes to match the wall so they would be less visibly intrusive.

The close-out for the contractor was to have occurred on Feb. 28. However, there were a number of problems identified that the contractor needed to complete. They stayed on site into March and completed the system that month.

The park still needs to complete compliance for this project. The copper pipes in the office/lobby area remain copper. They need to be painted off white to blend more with the wall behind them. The area outside west of the visitor center that was graveled needs to have two inches of sand placed on top to give a more natural appearance.

Plans for Next Cycle

Finish painting the pipes. Put sand on the graveled area. Finish the archeological report of the project.

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-OT	ADM	One-time	0.34	0.01
PKBASE-OT	MIT	One-time	1.74	0.03
RG-CR-MTN	MIT	One-time	5.00	0.07
PKBASE-CR	MIT	One-time	0.45	0.01
RG-CR-MTN	RES	One-time	3.04	0.07
VOL-IN-PK	RES	One-time	0.00	0.01
RG-CR-MTN	RES	One-time	0.45	0.01
Total this year:			11.02	0.21
Total to date:			80.93	
Percent completed:			20%	

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-044.000

Title : CONDUCT NAGPRA CONSULTATIONS

Servicewide Issues : C30 (CONSULTATN)

Cultural Resource Type: ETHN (Ethnographic Resources)

N-RMAP Program codes :

Description of Accomplishments

Establish and maintain good relationships with affiliated tribes. Begin and continue NAGPRA consultations on various issues in the park.

Accomplishing the above will be through several actions. First we will contact all affiliated tribes (as identified through the Cultural Affiliation Study) through a combination of visits and phone calls to their tribal offices. We will meet with tribal officials to introduce ourselves and give us a chance to get acquainted. We will demonstrate our interest in their concerns by letting them talk to us, rather than forcing them to answer to our needs or our specific items of business. We will provide them with photographs, written information, video, or whatever they ask about the park. Our initiating these contacts through phone and by making a trip to their homes will reinforce the value we place on our relationship and their time.

After we visit tribal officials via telephone or by visiting, we will invite them to Aztec Ruins for an orientation to our facilities and resources. We will show them artifacts in storage and on display, exhibits, interpretive materials, the structures, park boundaries, etc. We may speak to them in general terms about issues at the monument, and try to determine from them which issues they would be interested in consulting with us about. We may consult with them on issues that are of immediate concern in this initial orientation visit.

Once orientation visits are accomplished we will join efforts with Chaco Culture National Historical Park and meet at the same time with their consultation committee, most of whom claim affiliation with Aztec. Doing this will help save time and travel for us and consultants. We will invite officials to the monument on an annual basis, and as issues arise that need their on-site visit.

NAGPRA issues will be raised and discussed as issues arise and as our relationship grows with the tribes. Most of these issues can be dealt with at the committee meetings.

Subsequent consultations will progress as we feel our way along. Some tribes may be quite responsive to visiting us frequently and regularly, others may want us to visit them. Others may be

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-044.000

Title : CONDUCT NAGPRA CONSULTATIONS

satisfied with letter or telephone contact. The main objective is to achieve a working relationship that establishes us as people who are responsive to their needs and feelings. Establishing such a relationship will form a positive base from which to deal with more sensitive NAGPRA issues.

Budget reflects our need to obtain funding especially in the first year to initiate contacts and conduct orientation visits. Travel costs to send the Superintendent and one other person to visit the tribes and to supply written orientation materials are estimated at about \$3,000 total for the first year. About \$1,500 annually after that is needed to attend consultation committee meetings, visit tribal officials as needed, and attend NAGPRA related training. Other expenses include \$3,500 the first year to bring tribal officials to Aztec Ruins for orientation and additional visits. This sum will help defray their expenses for committee meetings. In following years, we will need \$2,000 to continue to bring tribal officials to Aztec for meetings and to discuss issues as they arise. The park will contribute the costs of about .1 FTE annually for the first few years in establishing the consultation activities. However, we will need matching funds of \$3500 annually at the same time to pay for .1 FTE to be able to establish and maintain a program that is active, consistent, and viable.

Accomplishment: Visits to tribes were not accomplished because there was no funding available. The park's consultation efforts were limited to attending a meeting at Chaco with the Chaco Consultation committee and attending a consultation meeting at Mesa Verde in September. Tracy Bodnar and Superintendent Barry Cooper attended the Chaco meeting, and they and Theresa Nichols attended the Mesa Verde consultation meeting.

At both meetings the superintendent gave a brief overview of what the park was doing for NAGPRA endeavors.

Plans for Next Cycle

Combine Aztec's consultation efforts with Chaco's already established committee.

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-044.000

Title : CONDUCT NAGPRA CONSULTATIONS

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-OT	ADM	Recurring	1.95	0.03

Total this year:			1.95	0.03
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Total to date:			1.95	
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Percent completed:	0%			
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Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-045.000

Title : DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY

we needed to take. The Kodachrome film was much more expensive to process, so we switched to the Ektachrome.

We processed all images to digital CD's. We felt this would be superior to storing them on Magneto Optical Drive, and would reduce labor to scan all the images.

After much trial and error, Bobby and Pam photo-documented 63 rooms. However, many of these rooms are two stories and took a considerable amount of time to document. Therefore the number of single story rooms documented number about 75. The rooms documented include some rooms in the west wing, all the cobble rooms on the south side (however, they were not documented to Photomodeler standards since most of the architecture is not original and time to thoroughly document would have been wasted), and most of the northeast corner. They kept written records of every image.

We have not tested the images with the Photomodeler software yet to see if the quality is sufficient to develop useable models.

Funds from the Vanishing Treasures initiative bought the following supplies and equipment for the project: Photomodeler software, \$795; film, processing of approximately 1700 images, and miscellaneous supplies, \$2677. The SPMA IDA account bought a copy of Kodak Shoebox to catalogue the photos.

Terry spent about 101 hours on the project (\$2610), the GS-4 Park Ranger Bobby Hawkins spent 320 hours (\$2931), and the Intermountain Cultural Center supplied Eric Niemeyer's salary and travel to train the workers (\$325.)

It is clear from the first season of this project that at least two paid people are needed to continue with the photo-documentation. If we had not had the volunteer help of Pam Warner, the project could not have been accomplished. The second person is necessary to record the photos, sketch the rooms, and help with setting the targets on the walls. In addition, we still need to catalog and curate the CD's and slides properly. Becky Gibson, another volunteer, donated about 20 hours to this aspect of the project.

Plans for Next Cycle

Continue using volunteer Becky Gibson to catalog the CD and slide images. There are no funds to hire workers for this project in FY97. Neither is the Chief of RM Terry Nichols available to

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-045.000

Title : DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY

supervise the project.

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
PKBASE-OT	ADM	Recurring	2.61	0.05
PKBASE-OT	RES	Recurring	2.93	0.15
VOL-IN-PK	RES	One-time	0.09	0.11
REG-OTHER	RES	One-time	2.68	0.00
NON-PROFI	RES	One-time	0.07	0.00
REG-OTHER	ADM	One-time	0.33	0.01

Total this year:			8.71	0.32
Total to date:			8.71	
Percent completed:			0%	

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-045.000

Title : DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY

Servicewide Issues : C03 (SITE DOC)

Cultural Resource Type:

N-RMAP Program codes :

Description of Accomplishments

Carry out photogrammetric documentation of all rooms in the West Ruin. This will provide baseline information that can be retained in perpetuity and manipulated as future researchers and park personnel need.

The project will happen in two phases. The initial phase will consist of producing the photographs. A contractor or park personnel will photograph all walls of each room in the west ruin with calibrated cameras so that the photographs can be used to prepare scalable drawings using photogrammetric techniques. The photographer will use a 35 mm camera with a shift lense, and color film. The photographer will take two photographs of each wall. One will contain a mug board describing location, date, photographer, etc. The other will be free of any labels so as to record every part of the wall. The film will be processed to color prints with negatives. The photographs will then be scanned to magneto optical drive where they can be preserved as a permanent digital record. As a part of this record, the focal length of each photo will be recorded on each. The prints and negatives will be curated.

The photographer will then take a digital print of each wall back into the field and record directly on this print measurements of the four corners of the walls. Any other annotations appropriate for documentation of the wall will also be noted on this print. This print and notations will also be curated.

High initial costs reflect the costs of obtaining the magneto optical drive (\$500), camera and lens (\$1800), and flatbed scanner (\$300), needed to start the project.

Ideally, all photography of the West Ruin will be conducted within a short time period so as to provide the best baseline documentation. Estimated costs for labor to produce the photographs are \$9,000. Film and print processing is approximately \$4,000.

If funding cannot be obtained to photograph all rooms at the same time, we will plan to photograph half the West Ruin one year and half the next, at approximately \$8,000 costs per year.

The next phase of the project is to produce the drawings of

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-C-045.000

Title : DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY

rooms, walls, and elevations to the detail we need. These will be produced over a number of years as the drawings are needed for reporting or subsequent treatment of the walls. Since baseline data will be permanently available for these drawings, the capability of producing drawings will always exist.

Depending on the number of drawings we need over the years and the detail needed, costs of producing the drawings will vary anywhere from \$2,000 to \$20,000 a year. We are requesting \$10,000 annually for three years in this project statement.

This project needs to be conducted with project AZRU-C-033, Research and Document Prehistoric Rooms. That package allows for the documentation of rooms using forms on which an archeologist describes architectural attributes, but does not necessarily use photogrammetric methods to record walls. Ideally, both methods need to be employed. However, methods other than photogrammetry are costly in terms of time. Therefore, if funding is available for only one, photogrammetry is higher priority.

Accomplishment: The project began on a limited basis in 1996. Since the I & RM division received some contingency funds for the year, we did not hire an interpreter for eight weeks and instead began this project because of its high priority and importance in the park.

We hired one GS-4 Park Ranger, Bobby Hawkins, to work on this project. He worked a total of 320 hours from late June through August, and intermittently through September. He was assisted by volunteer Pam Warner, who donated about 206 hours to the project.

Both Pam, Bobby, and Chief of RM Theresa Nichols were trained in the documentation process by Eric Niemeyer, from the Southwest Cultural Resources Center. Eric and Art Ireland of the Remote Sensing Division had used the process for documenting sites at Mesa Verde and Casa Grande.

They use a particular software called Photomodeler to build maps and models of walls. Photographs for use with Photomodeler must be collected from various angles, and certain measurements must be taken in order for this software to be used. To use Photomodeler, at least three images of each wall must be taken. For a two story room, as many as 60 images must be taken for reliable accuracy with Photomodeler.

Images were collected using a Nikon 35 mm camera with a 28mm wide angle perspective corrected lens. Color Ektachrome 100 ASA film was used. We started the project using a 35mm lens that was not perspective corrected and Kodachrome 64 film. However, we found that we needed a wider angle lens to reduce the number of photos

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-N-005.000

Title : REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING

Servicewide Issues : N05 (NON-NAT PLANTS)

N08 (CULT LANDSCAPE)

Cultural Resource Type: CULL (Cultural Landscape)

N-RMAP Program codes :

Description of Accomplishments

Using the \$4,000 NRPP funds received for this project, we employed one GS-4 Biological Technician who worked 410 hours over the summer. She cleared exotics out of 100 rooms and 10 kivas and the tops of all West Ruin walls. She transplanted 270 plants into 28 rooms and 4 kivas, and seeded 4 rooms and 1 kiva.

Some seeds were purchased, and the Technician's mileage on her vehicle reimbursed.

Chief of RM Theresa Nichols spent 3 hours on the project, and Park Ranger Tracy Bodnar worked 26 hours supervising the project. Total cost for both was \$600.

Two volunteers contributed 42.5 hours to assist in the above work.

Another aspect of this project focused on the east slope of the East Ruin. A group of six girl scouts and their leaders helped for a total of 20 work hours one April afternoon to plant grass seeds and lay erosion control blanket on this slope. Nichols supervised the project, spending 6 (\$150) hours to do so. The erosion control blanket had been purchased in earlier years.

Plans for Next Cycle

A \$4,000 NRPP grant for FY97 will enable us to continue with the revegetation program during this fiscal year.

1996 AZRU

Resource Management Projects - Annual Accomplishments Report

RMP Project Number: AZRU-N-005.000

Title : REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING

Budget Information

Source	Activity	Fund Type	Budget (\$1000s)	FTEs
VOL-INDEP	MIT	One-time	0.00	0.02
PKBASE-OT	ADM	Recurring	0.60	0.01
PKBASE-OT	ADM	One-time	0.15	0.00
NRPP	MIT	Recurring	4.00	0.20
VOL-INDEP	MIT	One-time	0.00	0.01

Total this year: 4.75 0.24

Total to date: 12.72

Percent completed: 8%

Active Filter: (No filter)

Output Selections:

Resource types included: CULTURAL/NATURAL

Initial fiscal year: 1992

Include projects only if funding data entered

03/25/96

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PROGRAMMING SHEET 1

CULTURAL/NATURAL

FUNDED ACTIVITIES

(\$ in thousands)

Page: 0001

FY: 1992

Park: AZRU

Cluster: CPSO

PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	FUNDING SOURCE	ACT TYP P	T Y P	CURRENT YEAR		OUTYEAR 1		OUTYEAR 2		OUTYEAR 3		TOTAL	
								1992		1993		1994		1995			
								\$\$	FTE	\$\$	FTE	\$\$	FTE	\$\$	FTE	\$\$	FTE
002.000 C	STUDY AND CORRECT WATER DRAINAGE PROBLEMS	140	SITE C70 C05		RG-CR-MTN	MIT	C	.00	.00	.00	.00	0.42	0.02	0.60	0.02	1.02	0.04
					RG-CR-MTN	MIT	O	.00	.00	.00	.00	0.50	.00	.00	.00	0.50	0.00
					Subtotal		.00	.00	.00	.00	0.92	0.02	0.60	0.02	1.52	0.04	
007.000 C	COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPORT	134	STRC C52		CRPP	RES	O	.00	.00	.00	.00	.00	.00	8.81	.00	8.81	0.00
					REG-OTHER	ADM	O	.00	.00	.00	.00	.00	.00	0.75	0.01	0.75	0.01
					PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.45	0.01	0.45	0.01
					Subtotal		.00	.00	.00	.00	.00	.00	10.01	0.02	10.01	0.02	
011.000 C	UPDATE LIST OF CLASSIFIED STRUCTURES		SITE C51		RG-CR-MTN	RES	O	.00	.00	.00	.00	0.40	0.01	.00	.00	0.40	0.01
					CRPP	RES	O	.00	.00	.00	.00	.00	.00	0.80	0.01	0.80	0.01
					PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.20	0.01	0.20	0.01
					Subtotal		.00	.00	.00	.00	0.40	0.01	1.00	0.02	1.40	0.03	
014.000 C	STUDY AND PRESERVE PREHISTORIC WOOD	135	SITE C57 C04		PKBASE-OT	ADM	C	.00	.00	2.00	0.10	0.50	.00	0.50	.00	3.00	0.10
					\$-DONATE	RES	C	.00	.00	2.60	.00	5.00	.00	.00	.00	7.60	0.00
					FED-OTHER	RES	C	.00	.00	1.00	0.10	1.00	0.10	.00	.00	2.00	0.20
					PKBASE-OT	RES	C	.00	.00	2.00	0.10	.00	.00	.00	.00	2.00	0.10
					NON-PROFI	RES	C	.00	.00	.00	.00	1.00	0.10	5.50	.00	6.50	0.10
					VOL-INDEP	RES	C	.00	.00	.00	.00	.00	.00	.00	0.04	0.00	0.04
					VOL-IN-PK	RES	C	.00	.00	.00	.00	.00	.00	0.13	0.07	0.13	0.07
					REG-OTHER	RES	C	.00	.00	.00	.00	.00	.00	1.70	0.06	1.70	0.06
					PKBASE-CR	ADM	C	.00	.00	.00	.00	.00	.00	0.10	.00	0.10	0.00
Subtotal		.00	.00	7.60	0.30	7.50	0.20	7.93	0.17	23.03	0.67						
015.000 C	STABILIZE RUINS TO MAINTENANCE LEVEL	132	SITE C54 C55		RG-CR-MTN	MIT	C	25.00	0.60	18.00	0.70	19.00	0.40	16.18	0.43	78.18	2.13
					PKBASE-CR	MIT	C	4.00	0.10	.00	.00	.00	.00	.00	.00	4.00	0.10
					PKBASE-OT	ADM	C	2.00	0.10	3.60	0.20	1.50	0.10	0.80	0.02	7.90	0.42
					PKBASE-OT	MIT	C	.00	.00	24.00	0.60	1.00	.00	9.86	0.25	34.86	0.85
					REP-REHAB	MIT	C	.00	.00	.00	.00	19.00	0.40	.00	.00	19.00	0.40
					VOL-IN-PK	MIT	O	.00	.00	.00	.00	.00	.00	.00	0.01	0.00	0.01
Subtotal		31.00	0.80	45.60	1.50	40.50	0.90	26.84	0.71	143.94	3.91						
018.000 C	CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS		OBJC C46		PKBASE-CR	MIT	O	1.00	0.10	.00	.00	.00	.00	.00	.00	1.00	0.10
					CRPP	MIT	O	.00	.00	1.00	0.10	2.50	0.20	2.09	0.06	5.59	0.36
					PKBASE-OT	MIT	O	.00	.00	2.00	0.10	0.25	0.01	.00	.00	2.25	0.11
					PKBASE-OT	ADM	O	.00	.00	2.00	0.10	0.25	0.01	0.25	0.01	2.50	0.12
					CRPP	ADM	O	.00	.00	.00	.00	.00	.00	5.00	.00	5.00	0.00
Subtotal		1.00	0.10	5.00	0.30	3.00	0.22	7.34	0.07	16.34	0.69						
020.000 C	WRITE & IMPLEMENT BACKFILLING PLAN	135	SITE C57 C05		REG-OTHER	RES	O	.00	.00	.00	.00	.00	.00	1.50	0.03	1.50	0.03
					PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.20	0.01	0.20	0.01
					RG-CR-MTN	ADM	O	.00	.00	.00	.00	.00	.00	0.38	.00	0.38	0.00
Subtotal		.00	.00	.00	.00	.00	.00	2.08	0.04	2.08	0.04						
021.000 C	CONDUCT ORAL HISTORY PROGRAM		SITE C27 C38		PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.28	0.01	0.28	0.01
					PKBASE-OT	RES	O	.00	.00	.00	.00	.00	.00	0.05	0.01	0.05	0.01
					UNIV-COLL	ADM	O	.00	.00	.00	.00	.00	.00	0.30	.00	0.30	0.00
Subtotal		.00	.00	.00	.00	.00	.00	0.63	0.02	0.63	0.02						

continued...

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PROGRAMMING SHEET 1
CULTURAL/NATURAL
FUNDED ACTIVITIES
(\$ in thousands)

Page: 0002
FY: 1992
Park: AZRU
Cluster: CPSO

ECT C	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	FUNDING SOURCE	ACT TYP	T P	CURRENT YEAR		OUTYEAR 1		OUTYEAR 2		OUTYEAR 3		TOTAL	
								1992 \$\$	FTE	1993 \$\$	FTE	1994 \$\$	FTE	1995 \$\$	FTE	\$\$	FTE
023.000	PRODUCE CULTURAL AFFILIATION STUDY			SITE C25	SVC-OTHER	RES	O	.00	.00	20.00	.00	.00	.00	.00	.00	20.00	0.00
					PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.20	0.01	0.20	0.01
					Subtotal			.00	.00	20.00	.00	.00	.00	0.20	0.01	20.20	0.01
024.000	PRODUCE CULTURAL RESOURCES BASE MAP	134		SITE C63	PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.08	.00	0.08	0.00
025.000	UPDATE COLLECTIONS PLANS	134		OBJC C41 C40	PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.01	.00	0.01	0.00
026.000	IMPLEMENT COLLECTION CONDITION SURVEY RECOMMENDATIN			OBJC C15	CRPP	RES	O	.00	.00	.00	.00	3.50	.00	.00	.00	3.50	0.00
					CRPP	MIT	O	.00	.00	.00	.00	8.70	.00	0.84	0.04	9.54	0.04
					PKBASE-OT	MIT	O	.00	.00	.00	.00	.00	.00	0.78	0.03	0.78	0.03
					Subtotal			.00	.00	.00	.00	12.20	.00	1.62	0.07	13.82	0.07
033.000	RESEARCH AND DOCUMENT PREHISTORIC ROOMS			SITE C03 C04	RG-CR-MTN	RES	O	.00	.00	.00	.00	1.30	0.01	.00	.00	1.30	0.01
					RG-CR-MTN	MIT	O	.00	.00	.00	.00	3.40	0.07	.00	.00	3.40	0.07
					\$-DONATE	RES	R	.00	.00	.00	.00	.00	.00	0.23	.00	0.23	0.00
					RG-CR-MTN	RES	R	.00	.00	.00	.00	.00	.00	1.10	0.04	1.10	0.04
					PKBASE-OT	RES	O	.00	.00	.00	.00	.00	.00	0.31	.00	0.31	0.00
					PKBASE-OT	RES	R	.00	.00	.00	.00	.00	.00	0.85	0.03	0.85	0.03
					PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.23	0.01	0.23	0.01
					Subtotal			.00	.00	.00	.00	4.70	0.08	2.72	0.08	7.42	0.16
034.000	DETERMINE NEED FOR VIBRATIONAL STUDY			SITE C57 C05	\$-DONATE	RES	O	.00	.00	.00	.00	1.80	.00	.00	.00	1.80	0.00
					PKBASE-OT	ADM	O	.00	.00	.00	.00	0.40	0.01	.00	.00	0.40	0.01
					Subtotal			.00	.00	.00	.00	2.20	0.01	.00	.00	2.20	0.01
036.000	REPAIR ROTTEN CANALES & VIGAS ON VISITOR CENTER			STRC C13	RG-CR-MTN	RES	O	.00	.00	.00	.00	2.00	.00	.00	.00	2.00	0.00
					RG-CR-MTN	MIT	O	.00	.00	.00	.00	.00	.00	14.85	0.21	14.85	0.21
					PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.38	0.01	0.38	0.01
					PKBASE-OT	MIT	O	.00	.00	.00	.00	.00	.00	1.14	0.03	1.14	0.03
					SPECIAL-\$	MIT	O	.00	.00	.00	.00	.00	.00	2.00	0.04	2.00	0.04
					RG-CR-MTN	ADM	O	.00	.00	.00	.00	.00	.00	1.00	0.02	1.00	0.02
					Subtotal			.00	.00	.00	.00	2.00	.00	19.37	0.31	21.37	0.31
038.000	REPLACE "WARRIOR" EXHIBIT			COMB C30	REG-OTHER	MIT	O	.00	.00	.00	.00	0.50	.00	.00	.00	0.50	0.00
					PKBASE-OT	ADM	O	.00	.00	.00	.00	1.00	0.01	.00	.00	1.00	0.01
					Subtotal			.00	.00	.00	.00	1.50	0.01	.00	.00	1.50	0.01
039.000	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC ROOFS			STRC C54 C55	RG-CR-MTN	MIT	R	.00	.00	.00	.00	1.40	0.02	3.01	0.09	4.41	0.11
					PKBASE-OT	ADM	R	.00	.00	.00	.00	.00	.00	0.15	0.01	0.15	0.01
					Subtotal			.00	.00	.00	.00	1.40	0.02	3.16	0.10	4.56	0.12
040.000	PREPARE CULTURAL LANDSCAPE INVENTORY			COMB C10	RG-CR-MTN	RES	O	.00	.00	.00	.00	0.50	0.01	1.00	0.02	1.50	0.03
					PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.23	0.01	0.23	0.01
					CRPP	RES	O	.00	.00	.00	.00	.00	.00	6.00	.00	6.00	0.00
					Subtotal			.00	.00	.00	.00	0.50	0.01	7.23	0.03	7.73	0.04
041.000	TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMPUTER			OBJC C03 C46	\$-DONATE	MIT	O	.00	.00	.00	.00	4.60	.00	.00	.00	4.60	0.00
					VOL-IN-PK	MIT	C	.00	.00	.00	.00	.00	.00	.00	0.01	0.00	0.01
					PKBASE-OT	ADM	C	.00	.00	.00	.00	.00	.00	0.12	0.01	0.12	0.01
					CRPP	MIT	C	.00	.00	.00	.00	.00	.00	0.81	0.03	0.81	0.03
					Subtotal			.00	.00	.00	.00	4.60	.00	0.93	0.05	5.53	0.05

continued...

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PROGRAMMING SHEET 1
CULTURAL/NATURAL
FUNDED ACTIVITIES
(\$ in thousands)

Page: 0003
FY: 1992
Park: AZRU
Cluster: CPSO

PROJECT ER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	FUNDING SOURCE	ACT TYP P	T Y	CURRENT YEAR		OUTYEAR 1		OUTYEAR 2		OUTYEAR 3		TOTAL	
								1992 \$\$	FTE	1993 \$\$	FTE	1994 \$\$	FTE	1995 \$\$	FTE	\$\$	FTE
042.000	DESIGN AND	137		STRC C55 C50	RG-CR-MTN	ADM	O	.00	.00	.00	.00	4.20	0.02	1.00	0.02	5.20	0.04
C	INSTALL VC				PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	1.47	0.03	1.47	0.03
	SPRINKLER				CRPP	RES	O	.00	.00	.00	.00	.00	.00	9.30	.00	9.30	0.00
	SYSTEM				REG-OTHER	MIT	O	.00	.00	.00	.00	.00	.00	2.03	0.05	2.03	0.05
					CRPP	MIT	O	.00	.00	.00	.00	.00	.00	51.01	.00	51.01	0.00
					PKBASE-OT	MIT	O	.00	.00	.00	.00	.00	.00	0.90	0.03	0.90	0.03
					Subtotal			.00	.00	.00	.00	4.20	0.02	65.71	0.13	69.91	0.15
003.000	REDUCE			N07	FIRE-\$	MIT	O	5.00	.00	.00	.00	.00	.00	.00	.00	5.00	0.00
N	VEGETATION				PKBASE-OT	ADM	O	1.00	0.10	.00	.00	.00	.00	.00	.00	1.00	0.10
	FIRE HAZARD				Subtotal			6.00	0.10	.00	.00	.00	.00	.00	.00	6.00	0.10
004.000	CONTROL			N04 N05	PKBASE-OT	MIT	R	.00	.00	0.80	.00	.00	.00	.00	.00	0.80	0.00
N	EXOTIC/NOXIOUS				RG-CR-MTN	MIT	R	.00	.00	.00	.00	4.33	0.10	.00	.00	4.33	0.10
	PLANTS AND				RG-NS-RES	MIT	R	.00	.00	.00	.00	.00	.00	1.20	.00	1.20	0.00
	ANIMALS				Subtotal			.00	.00	0.80	.00	4.33	0.10	1.20	.00	6.33	0.10
005.000	REVEGETATE			CULL N05 N08	RG-NS-RES	MON	R	.00	.00	0.40	.00	.00	.00	.00	.00	0.40	0.00
N	ROOMS &				PKBASE-OT	ADM	R	.00	.00	.00	.00	0.50	.00	.00	.00	0.50	0.00
	PICNIC AREA,				\$-DONATE	MIT	R	.00	.00	.00	.00	0.50	0.02	.00	.00	0.50	0.02
	PLANT				PKBASE-OT	ADM	O	.00	.00	.00	.00	.00	.00	0.10	0.01	0.10	0.01
	SCREENING				RG-NS-RES	MIT	O	.00	.00	.00	.00	.00	.00	4.00	0.11	4.00	0.11
					VOL-IN-PK	MIT	O	.00	.00	.00	.00	.00	.00	.00	0.05	0.00	0.05
					RG-CR-MTN	MIT	R	.00	.00	.00	.00	.00	.00	2.47	0.08	2.47	0.08
					Subtotal			.00	.00	0.40	.00	1.00	0.02	6.57	0.25	7.97	0.27
22 projects printed								Grand Total \$\$		38.00		79.40		90.95		165.23	
								Grand Total FTE		1.00		2.10		1.62		2.10	
																373.58	
																6.82	

Active Filter: (No filter)

Output Selections:

Resource types included: CULTURAL/NATURAL

Initial fiscal year: 1992

Sort by PROJECT within each park and type

ude projects only if funding data entered

03/25/96
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PROGRAMMING SHEET 2
CULTURAL/NATURAL
UNFUNDED ACTIVITIES
(\$ in thousands)

Page: 0001
FY: 1992
Park: AZRU
Cluster: CPSO

PK	PROJECT	PROJECT TITLE	PKG	CULT	SYSTEM-	ACT	T	CURRENT YEAR		OUTYEAR 1		OUTYEAR 2		OUTYEAR 3		TOTAL		
PRI	NUMBER		NUM	RES	WIDE	TYP	Y	1992		1993		1994		1995				
				TYPE	ISSUE		P	\$\$	FTE	\$\$	FTE	\$\$	FTE	\$\$	FTE	\$\$	FTE	
9	002.000	STUDY AND CORRECT WATER DRAINAGE PROBLEMS	140	SITE	C70	C05	RES	C	.00	.00	50.00	1.50	.00	.00	.00	.00	50.00	1.50
							MIT	C	.00	.00	2.00	0.10	52.00	1.60	52.00	1.60	106.00	3.30
							Subtotal								.00	.00	52.00	1.60
18	003.000	WRITE HISTORIC STRUCTURE REPORT EAST & WEST RUINS	135	SITE	C52	C03	RES	O	.00	.00	.00	.00	60.00	1.50	60.00	1.50	120.00	3.00
99	005.000	MONITOR PLASTER IN 156, CORRECT PROBLEMS		SITE	C05	C06	MON	R	.00	.00	0.50	0.10	0.50	0.10	0.50	0.01	1.50	0.21
							MIT	O	.00	.00	.00	.00	5.00	0.01	.00	.00	5.00	0.01
							Subtotal								.00	.00	0.50	0.10
99	007.000	COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPORT	134	STRC	C52		RES	O	.00	.00	.00	.00	15.00	0.50	.00	.00	15.00	0.50
							ADM	O	.00	.00	.00	.00	5.00	0.10	.00	.00	5.00	0.10
							Subtotal								.00	.00	.00	.00
99	008.000	WRITE HISTORIC RESOURCE STUDY	134	SITE	C35		RES	O	.00	.00	.00	.00	25.00	.00	.00	.00	25.00	0.00
							ADM	O	.00	.00	.00	.00	0.50	0.01	.00	.00	0.50	0.01
							Subtotal								.00	.00	.00	.00
11	009.000	PREPARE HISTORIC STRUCTURE PRESERVATION GUIDE	134	SITE	C55	C05	RES	O	.00	.00	.00	.00	35.00	1.00	.00	.00	35.00	1.00
99	012.000	RECORD WALL BONDING IN WEST RUIN	135	SITE	C03		RES	O	.00	.00	.00	.00	2.00	0.10	.00	.00	2.00	0.10
							INT	O	.00	.00	.00	.00	.00	.00	3.00	.00	3.00	0.00
							Subtotal								.00	.00	.00	.00
1	015.000	STABILIZE RUINS TO MAINTENANCE LEVEL	132	SITE	C54	C55	MIT	C	65.00	3.00	55.00	2.50	62.00	2.00	91.00	2.02	273.00	9.52
							ADM	C	.00	.00	.00	.00	.00	.00	1.00	0.02	1.00	0.02
							Subtotal								65.00	3.00	55.00	2.50
99	017.000	TEST, EVALUATE, & RECORD MOUNDS AND FEATURES		SITE	C04	C55	RES	O	.00	.00	.00	.00	5.00	0.20	.00	.00	5.00	0.20
							PRO	O	.00	.00	.00	.00	1.00	0.10	.00	.00	1.00	0.10
							Subtotal								.00	.00	.00	.00
7	020.000	WRITE & IMPLEMENT BACKFILLING PLAN	135	SITE	C57	C05	RES	O	.00	.00	.00	.00	50.00	0.80	3.50	0.20	53.50	1.00
							MIT	O	.00	.00	.00	.00	.00	.00	100.00	4.00	100.00	4.00
							Subtotal								.00	.00	.00	.00
10	021.000	CONDUCT ORAL HISTORY PROGRAM		SITE	C27	C38	RES	O	.00	.00	.00	.00	8.00	.00	8.00	.00	16.00	0.00
							ADM	O	.00	.00	.00	.00	2.00	0.10	2.00	0.10	4.00	0.20
							Subtotal								.00	.00	.00	.00
99	022.000	WRITE ARCHEOLOGICAL OVERVIEW AND ASSESSMENT		SITE	C01		RES	O	.00	.00	.00	.00	20.00	0.60	.00	.00	20.00	0.60

continued...

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

Page: 0002
FY: 1992
Park: AZRU
Cluster: CPSO

PK	PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	ACT TYP P	T Y P	CURRENT YEAR 1992 \$\$ FTE		OUTYEAR 1 1993 \$\$ FTE		OUTYEAR 2 1994 \$\$ FTE		OUTYEAR 3 1995 \$\$ FTE		TOTAL \$\$ FTE	
16	024.000 C	PRODUCE CULTURAL RESOURCES BASE MAP	134	SITE	C63	RES	O	.00	.00	.00	.00	.00	.00	1.00	.00	1.00	0.00
						ADM	O	.00	.00	.00	.00	.00	.00	0.50	.00	0.50	0.00
		Subtotal						.00	.00	.00	.00	.00	.00	1.50	.00	1.50	0.00
13	025.000 C	UPDATE COLLECTIONS PLANS	134	OBJC	C41 C40	ADM	O	.00	.00	.00	.00	9.50	.00	1.20	0.03	10.70	0.03
						RES	O	.00	.00	.00	.00	.00	.00	6.50	.00	6.50	0.00
		Subtotal						.00	.00	.00	.00	9.50	.00	7.70	0.03	17.20	0.03
8	026.000 C	IMPLEMENT COLLECTION CONDITION SURVEY RECOMMENDATION		OBJC	C15	MIT	O	.00	.00	.00	.00	2.00	0.10	.00	.00	2.00	0.10
99	027.000 C	ANALYZE & REPORT ON ARCHEOLOGICAL COLLECTIONS		OBJC	C02 C08	RES	O	.00	.00	.00	.00	35.00	.00	30.00	.00	65.00	0.00
						ADM	O	.00	.00	.00	.00	0.20	0.01	0.20	0.01	0.40	0.02
		Subtotal						.00	.00	.00	.00	35.20	0.01	30.20	0.01	65.40	0.02
99	028.000 C	DUPLICATE RELATED PAPERS AND PHOTOGRAPHS		OBJC	C08	ADM	O	.00	.00	.00	.00	1.00	0.10	.00	.00	1.00	0.10
						MIT	O	.00	.00	.00	.00	8.00	.00	0.80	.00	8.80	0.00
		Subtotal						.00	.00	.00	.00	9.00	0.10	0.80	.00	9.80	0.10
20	029.000 C	WRITE REPORT OF 1984 EXCAVATION WORK		SITE	C02 C08	RES	O	.00	.00	.00	.00	50.00	.00	50.00	.00	100.00	0.00
99	030.000 C	SEARCH FOR IMAGERY OF CULTURAL RESOURCES		SITE	C04	RES	O	.00	.00	.00	.00	10.00	0.30	.00	.00	10.00	0.30
99	031.000 C	PRODUCE LOW SUN ANGLE IMAGERY OF AZTEC RUINS REGION		SITE	C08 C10	RES	O	.00	.00	.00	.00	10.00	.00	.00	.00	10.00	0.00
99	032.000 C	SURVEY BOTTOMLANDS FOR ARCHEOLOGICAL RESOURCES	134	SITE	C03 C02	RES	O	.00	.00	.00	.00	10.00	0.50	.00	.00	10.00	0.50
3	033.000 C	RESEARCH AND DOCUMENT PREHISTORIC ROOMS		SITE	C03 C04	RES	O	.00	.00	.00	.00	17.00	0.50	20.00	0.50	37.00	1.00
99	035.000 C	COMPLETE REPORT OF SITES ON EXPANDED BOUNDARIES		SITE	C03 C02	RES	O	.00	.00	.00	.00	45.00	1.00	45.00	1.00	90.00	2.00
5	037.000 C	HIRE PERMANENT STAFF ARCHEOLOGIST		SITE	C80	ADM	R	.00	.00	.00	.00	48.00	1.00	48.00	1.00	96.00	2.00
4	039.000 C	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC ROOFS		STRC	C54 C55	MIT	C	.00	.00	.00	.00	6.00	0.20	.00	.00	6.00	0.20
17	040.000 C	PREPARE CULTURAL LANDSCAPE INVENTORY		COMB	C10	No unfunded data											
15	041.000 C	TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMPUTER		OBJC	C03 C46	MIT	C	.00	.00	.00	.00	3.25	0.20	.00	.00	3.25	0.20
99	043.000 C	REHAB GREAT KIVA INTERIOR		STRC	C70 C05	No unfunded data											

continued...

03/25/96
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PROGRAMMING SHEET 2
CULTURAL/NATURAL
UNFUNDED ACTIVITIES
(\$ in thousands)

Page: 0003
FY: 1992
Park: AZRU
Cluster: CPSO

PK	PROJECT NUMBER	PROJECT TITLE	PKG NUM	CULT RES TYPE	SYSTEM- WIDE ISSUE	ACT TYP Y	T P	CURRENT YEAR		OUTYEAR 1		OUTYEAR 2		OUTYEAR 3		TOTAL	
								1992	FTE	1993	FTE	1994	FTE	1995	FTE	\$\$	FTE
5	001.000	RESEARCH WATER			N13	PRO	O	.00	.00	.00	.00	3.00	0.20	.00	.00	3.00	0.20
	N	RIGHTS, REPAIR WELL				RES	O	.00	.00	.00	.00	.00	.00	10.00	0.40	10.00	0.40
		Subtotal						.00	.00	.00	.00	3.00	0.20	10.00	0.40	13.00	0.60
6	003.000	REDUCE VEGETATION			N07	MIT	O	.00	.00	.00	.00	.00	.00	3.50	.00	3.50	0.00
	N	FIRE HAZARD				ADM	O	.00	.00	.00	.00	.00	.00	1.00	0.10	1.00	0.10
		Subtotal						.00	.00	.00	.00	.00	.00	4.50	0.10	4.50	0.10
4	004.000	CONTROL			N04 N05	MIT	R	.00	.00	4.00	0.30	4.00	0.30	.00	.00	8.00	0.60
	N	EXOTIC/NOXIOUS PLANTS AND ANIMALS															
3	005.000	REVEGETATE ROOMS &			CULL N05 N08	MON	R	.00	.00	1.00	0.10	1.00	0.10	1.00	0.02	3.00	0.22
	N	PICNIC AREA, PLANT SCREENING				MIT	R	.00	.00	5.80	0.40	5.80	0.40	2.00	0.10	13.60	0.90
		Subtotal						.00	.00	6.80	0.50	6.80	0.50	3.00	0.12	16.60	1.12
1	006.000	HIRE NATURAL			COMB N24 N20	ADM	R	.00	.00	.00	.00	.00	.00	54.00	1.00	54.00	1.00
	N	RESOURCES MANAGEMENT SPECIALIST															
2	010.000	PREPARE CULTURAL	134		SITE C11	RES	O	.00	.00	.00	.00	35.00	1.00	.00	.00	35.00	1.00
	N	LANDSCAPE REPORT															
		34 projects printed															
		Grand Total			\$\$			65.00		118.30		651.75		595.70		1430.75	
		Grand Total			FTE			3.00		5.00		14.63		13.61		36.24	

Active Filter: (No filter)

Output Selections:

Resource types included: CULTURAL/NATURAL

Initial fiscal year: 1995

03/25/96

15:15:08

FUNDED TABLE
CULTURAL/NATURAL

FUNDED AMOUNTS

(\$ in thousands - by activity type)

Page: 0001

FY: 1995

Park: AZRU

Cluster: CPSO

FUNDING SOURCE	TOTAL	RES	MIT	MON	PRO	INT	ADM
NDON	0.23	0.23	0.00	0.00	0.00	0.00	0.00
NPRF	5.50	5.50	0.00	0.00	0.00	0.00	0.00
NUNV	0.30	0.00	0.00	0.00	0.00	0.00	0.30
NVOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCR1	0.10	0.00	0.00	0.00	0.00	0.00	0.10
POF1	19.54	1.21	12.68	0.00	0.00	0.00	5.65
PSPA	2.00	0.00	2.00	0.00	0.00	0.00	0.00
RCCM	41.59	2.10	37.11	0.00	0.00	0.00	2.38
RNSR	5.20	0.00	5.20	0.00	0.00	0.00	0.00
ROTH	5.98	3.20	2.03	0.00	0.00	0.00	0.75
RVIP	0.13	0.13	0.00	0.00	0.00	0.00	0.00
SCRIP	84.66	24.91	54.75	0.00	0.00	0.00	5.00
TOTAL	165.23	37.28	113.77	0.00	0.00	0.00	14.18

Active Filter: (No filter)

Output Selections:

Resource types included: CULTURAL/NATURAL

Initial fiscal year: 1995

03/25/96

15:18:59

UNFUNDED TABLE

CULTURAL/NATURAL

UNFUNDED AMOUNTS

(\$ in thousands - by funding type)

Page: 0001

FY: 1995

Park: AZRU

Cluster: CPSO

FUNDING TYPE	TOTAL	RES	MIT	MON	PRO	INT	ADM
Cyclic	126.25	50.00	76.25	0.00	0.00	0.00	0.00
Onetime	483.50	450.60	10.00	0.00	4.00	0.00	18.90
Recur.	123.80	3.50	9.80	1.50	0.00	0.00	109.00
TOTAL	733.55	504.10	96.05	1.50	4.00	0.00	127.90

Active Filter: (No filter)

Output Selections:

Sorted by: Resource Type + Priority

Years: All years

Show subtotal after change in Resource Type

Show grand total

03/25/96

14:13:04

PROJECT LIST

Page: 0001

PRIORITY	PROJECT NUMBER	PROJECT TITLE	SUB-TITLE	FUNDED	UNFUNDED	PROP YEAR	LAST UPDATE
0	AZRU-C-011.000	UPDATE LIST OF CLASSIFIED STRUCTURES		2.03	0.00	1994	03/04/96
0	AZRU-C-023.000	PRODUCE CULTURAL AFFILIATION STUDY		20.20	0.00	1993	03/05/96
0	AZRU-C-034.000	DETERMINE NEED FOR VIBRATIONAL STUDY		2.20	0.00	1994	03/07/95
0	AZRU-C-036.000	REPAIR ROTTEN CANALES & VIGAS ON VISITOR CENTER		21.37	0.00	1994	03/18/96
0	AZRU-C-042.000	DESIGN AND INSTALL VC SPRINKLER SYSTEM		71.18	0.00	1994	03/19/96
1	AZRU-C-015.000	STABILIZE RUINS TO MAINTENANCE LEVEL		171.44	274.00	1991	03/21/96
2	AZRU-C-045.000	DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY		0.00	46.30	1996	03/07/96
3	AZRU-C-033.000	RESEARCH AND DOCUMENT PREHISTORIC ROOMS		7.42	57.00	1994	03/21/96
4	AZRU-C-039.000	STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC R		4.56	50.00	1994	03/18/96
5	AZRU-C-037.000	HIRE PERMANENT STAFF ARCHEOLOGIST		0.00	192.00	1994	03/07/95
6	AZRU-C-044.000	CONDUCT NAGPRA CONSULTATIONS		0.00	45.00	1996	03/20/96
7	AZRU-C-020.000	WRITE & IMPLEMENT BACKFILLING PLAN		2.33	386.50	1994	03/19/96
8	AZRU-C-026.000	IMPLEMENT COLLECTION CONDITION SURVEY RECOMMEND		13.82	5.00	1994	03/20/96
9	AZRU-C-002.000	STUDY AND CORRECT WATER DRAINAGE PROBLEMS		1.52	158.00	1993	03/18/96
10	AZRU-C-021.000	CONDUCT ORAL HISTORY PROGRAM		0.63	20.00	1994	03/05/96
11	AZRU-C-009.000	PREPARE HISTORIC STRUCTURE PRESERVATION GUIDE		0.00	35.00	1994	03/03/95
12	AZRU-C-018.000	CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS		23.34	0.00	1991	03/20/96
13	AZRU-C-025.000	UPDATE COLLECTIONS PLANS		0.01	17.20	1994	03/19/96
14	AZRU-C-038.000	REPLACE "WARRIOR" EXHIBIT		1.50	0.00	1994	03/19/95
15	AZRU-C-041.000	TRANSFER HISTORIC PHOTOS AND ARCHIVES ONTO COMP		5.53	8.13	1994	03/20/96
16	AZRU-C-024.000	PRODUCE CULTURAL RESOURCES BASE MAP		0.08	1.50	1994	03/08/96
17	AZRU-C-040.000	PREPARE CULTURAL LANDSCAPE INVENTORY		7.73	15.00	1994	03/08/96
18	AZRU-C-003.000	WRITE HISTORIC STRUCTURE REPORT EAST & WEST RUI		0.00	180.00	1994	03/20/96
19	AZRU-C-014.000	STUDY AND PRESERVE PREHISTORIC WOOD		28.28	0.00	1993	03/19/96
20	AZRU-C-029.000	WRITE REPORT OF 1984 EXCAVATION WORK		0.00	100.00	1994	03/07/95
99	AZRU-C-005.000	MONITOR PLASTER IN 156, CORRECT PROBLEMS		0.00	6.50	1993	03/03/95
99	AZRU-C-007.000	COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPO		10.01	20.00	1994	03/04/96
99	AZRU-C-008.000	WRITE HISTORIC RESOURCE STUDY		0.00	25.50	1994	/ /
99	AZRU-C-012.000	RECORD WALL BONDING IN WEST RUIN		0.00	5.00	1994	03/03/95
99	AZRU-C-017.000	TEST, EVALUATE, & RECORD MOUNDS AND FEATURES		0.00	6.00	1994	03/06/95
99	AZRU-C-022.000	WRITE ARCHEOLOGICAL OVERVIEW AND ASSESSMENT		0.00	20.00	1994	03/06/95
99	AZRU-C-027.000	ANALYZE & REPORT ON ARCHEOLOGICAL COLLECTIONS		0.00	150.60	1994	08/02/95
99	AZRU-C-028.000	DUPLICATE RELATED PAPERS AND PHOTOGRAPHS		0.00	9.80	1994	03/06/95
99	AZRU-C-030.000	SEARCH FOR IMAGERY OF CULTURAL RESOURCES		0.00	10.00	1994	03/07/95
99	AZRU-C-031.000	PRODUCE LOW SUN ANGLE IMAGERY OF AZTEC RUINS RE		0.00	10.00	1994	03/07/95
99	AZRU-C-032.000	SURVEY BOTTOMLANDS FOR ARCHEOLOGICAL RESOURCES		0.00	10.00	1994	03/07/95
99	AZRU-C-035.000	COMPLETE REPORT OF SITES ON EXPANDED BOUNDARIES		0.00	96.00	1994	03/07/95
99	AZRU-C-043.000	REHAB GREAT KIVA INTERIOR		0.00	21.00	1995	08/10/95
Resource Type Sub-total-----				395.18	1981.03		
1	AZRU-N-006.000	HIRE NATURAL RESOURCES MANAGEMENT SPECIALIST		0.00	54.00	1995	03/30/95
2	AZRU-N-010.000	PREPARE CULTURAL LANDSCAPE REPORT		0.00	35.00	1994	/ /
3	AZRU-N-005.000	REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING		7.97	23.60	1993	03/20/96
4	AZRU-N-004.000	CONTROL EXOTIC/NOXIOUS PLANTS AND ANIMALS		6.33	12.00	1993	03/20/96
5	AZRU-N-001.000	RESEARCH WATER RIGHTS, REPAIR WELL		0.00	23.00	1994	03/07/95
6	AZRU-N-003.000	REDUCE VEGETATION FIRE HAZARD		6.00	4.50	1992	/ /
Resource Type Sub-total-----				20.30	152.10		
Grand Total=====				415.48	2133.13		

44 projects printed

Last Update: 03/18/96
Initial Proposal: 1993

Project Statement

AZRU-C-002.000
Priority: 9
Page Num: 0001

Title : STUDY AND CORRECT WATER DRAINAGE PROBLEMS

Funding Status: Funded: 1.52 Unfunded: 158.00

Servicewide Issues : C70 (ENVRM IMPCT)
C05 (TREATMENTS)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 140

Problem Statement

The problems of draining surface water and precipitation from ruin walls have hindered preservation since excavation. Several drainage systems have been installed through ruin walls, across roofs and fill, and below the ground in and around the ruins. They have met with varying success. Archeologist Larry Nordby of the Southwest Regional Office analyzed the drainage patterns in the West Ruin in 1984 and recommended ways to alleviate problems. Water Resources Report No. 80-2 written by Paul K. Christensen in 1979 suggests that groundwater probably does not affect the ruins. Water drainage problems still exist, contributing to deterioration of ruin walls.

Description of Recommended Project or Activity

Assess Nordby's report, study other sources of drainage problems, and produce a design for alleviating problems and implementing remedies. Seek further technical assistance and consultation with the Water Resources Division in Ft. Collins. Maintain current drainage system by cleaning annually. Produce detailed large-scale topographic maps and/or photographic and photogrammetric documentation as necessary to identify surface drainage patterns among and immediately surrounding the walls.

Recommendations involving backfilling of rooms will be considered in the Backfilling Plan (project statement C 20). The Backfilling Plan will also benefit from data regarding drainage problems. The current drainage system needs regular attention from the park maintenance staff to work efficiently. Additional drainage systems will also require maintenance.

In FY94, work on drains was limited mainly to cleaning all the systems by our stabilization crew. In addition, a professional drain cleaner was contracted to use a power auger to ream out the large drains at the north of the monument. This \$500 contract was funded by SWR project funds.

Last Update: 03/18/96
Initial Proposal: 1993

Project Statement

AZRU-C-002.000
Priority: 9
Page Num: 0002

BUDGET AND FTEs:

		-----FUNDED-----			
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	RG-CR-MTN	MIT	Cyclic	0.42	0.02
	RG-CR-MTN	MIT	One-time	0.50	0.00
			Subtotal:	0.92	0.02
1995:	RG-CR-MTN	MIT	Cyclic	0.60	0.02
			Total:	1.52	0.04

		-----UNFUNDED-----			
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES		Cyclic	50.00	1.50
	MIT		Cyclic	2.00	0.10
			Subtotal:	52.00	1.60
Year 2:	MIT		Cyclic	50.00	1.50
	MIT		Cyclic	2.00	0.10
			Subtotal:	52.00	1.60
Year 3:	MIT		Cyclic	50.00	1.50
	MIT		Cyclic	2.00	0.10
			Subtotal:	52.00	1.60
Year 4:	MIT		Cyclic	2.00	0.10
			Total:	158.00	4.90

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : NHPA ((106) NAT. HIST. PRES.)
EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement
Last Update: 03/03/95
Initial Proposal: 1993

AZRU-C-005.000
Priority: 99
Page Num: 0005

Title : MONITOR PLASTER IN 156, CORRECT PROBLEMS

Funding Status: Funded: 0.00 Unfunded: 6.50

Servicewide Issues : C05 (TREATMENTS)
C06 (SITE MONIT)

Cultural Resource Type: SITE (Archeological Site)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The three walls of original plaster in room 156 appear to have experienced long-term detachment due to moisture infiltration and salt deposition from inadequate water drainage from surrounding rooms, an improperly draining roof, and inadequate pointing of the walls. This plaster received emergency conservation in 1990. The causes of deterioration may still exist. This project received partial funding in FY91.

Description of Recommended Project or Activity

Continue monitoring room 156. Correct roof, drainage, and pointing problems if recommended following monitoring. Monitoring will be accomplished by park staff. Funds for correcting roof or drainage problems will come from regional sources once appropriate action is determined. Cleaning the plaster will not be undertaken.

BUDGET AND FTEs:

		-----FUNDED-----		
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	
		Total:	0.00	0.00
		-----UNFUNDED-----		
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	MON	Recurring	0.50	0.10
Year 2:	MIT	One-time	5.00	0.01
	MON	Recurring	0.50	0.10
		Subtotal:	5.50	0.11

Project Statement
Last Update: 03/03/95
Initial Proposal: 1993
AZRU-C-005.000
Priority: 99
Page Num: 0006

Year 3:	MON	Recurring	0.50	0.01
			=====	
		Total:	6.50	0.22

(Optional) Alternative Actions/Solutions and Impacts

1. Continue monitoring the room annually to determine the agents of deterioration, and if damage is ongoing. 2. If the roof is found to be inadequate, repair it to prevent water seepage. 3. Provide for adequate water drainage in surrounding rooms if necessary. Stabilize walls to assist in plaster preservation. 4. Clean plaster of unsightly drips caused by previous water leakage. This would be a costly and time consuming procedure, considering that visitors do not see the plaster, and action is not necessary for its long term preservation.

Compliance codes : NHPA ((106) NAT. HIST. PRES.)
EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Last Update: 03/04/96
Initial Proposal: 1994

Project Statement

AZRU-C-007.000
Priority: 99
Page Num: 0007

Title : COMPLETE VISITOR CENTER HISTORIC STRUCTURE REPORT

Funding Status: Funded: 10.01 Unfunded: 20.00

Servicewide Issues : C52 (HSR)
Cultural Resource Type: STRC (Structure)
N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

The original portion of the building serving as the visitor center and administrative offices was constructed by Earl Morris in the early 1920's for his residence. Original prehistoric vigas, stones, and pottery sherds were used in construction. Additions in the 1930's, 1950's, and 1980's enlarged and modified the building to suit various needs, including exhibit space, curatorial storage, offices, meeting room, restrooms, and visitor contact. The building's connection with Morris, its role in the history of the monument, and its age make it eligible for the National Register of Historic Places.

The General Management Plan calls for modification of the interior of the building to improve visitor flow, provide an audiovisual room and adequate information and orientation, and provide interpretive office and work space. These planned changes would benefit greatly by having a documentation and history of the building.

Research for an Historic Structure Report was begun by Laura Soulierre of the SWR office in 1988. She searched through copies of the Southwest Monuments monthly reports, procured records from the Denver federal records center, had some of the early building plans printed, and printed some of the historic photographs from the park collection. Soulierre was laid off before she could complete the project. Some of the files and records she returned to offices from where she found them, some notes were sent to the park. Since that time, no one has been assigned to complete the project.

Completing the National Register nomination for the building was to have been included in the project. The HSR and the nomination are needed before building modifications are made. This information is also necessary for the interpretive program and building preservation.

Only cursory attention regarding the building's history is included in the Listers' "Administrative History of an Archeological Preserve".

Last Update: 03/04/96
Initial Proposal: 1994

Project Statement

AZRU-C-007.000
Priority: 99
Page Num: 0008

Description of Recommended Project or Activity

Complete the Historic Structure Report and National Register nomination for the Earl Morris House/Visitor Center. The report will analyze and document the original construction, dates and styles of all additions and renovations, probable room functions, and a variety of other historic, architectural, anthropological, archeological, and engineering aspects of the structure and its setting as defined in NPS-28.

The report will be completed by an historian from the SWR. Budget reflects salary for a GS 11 historian to complete the report and nomination the first year, and peer review, editing, and printing the second year.

The report also could be contracted out at probably a higher cost but would be completed in a shorter time.

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1995:	CRPP	RES	One-time	8.81	0.00
	REG-OTHER	ADM	One-time	0.75	0.01
	PKBASE-OT	ADM	One-time	0.45	0.01
			Subtotal:	10.01	0.02
			Total:	10.01	0.02
			=====		
			-----UNFUNDED-----		
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		RES	One-time	15.00	0.50
		ADM	One-time	5.00	0.10
			Subtotal:	20.00	0.60
			Total:	20.00	0.60
					=====

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Project Statement

Last Update: 03/04/96
Initial Proposal: 1994

AZRU-C-007.000
Priority: 99
Page Num: 0009

Explanation: 516 DM6 APP. 7.4 E(9)

Last Update: 03/04/96
Initial Proposal: 1994

Project Statement

AZRU-C-011.000
Priority: 0
Page Num: 0014

Title : UPDATE LIST OF CLASSIFIED STRUCTURES

Funding Status: Funded: 2.03 Unfunded: 0.00

Servicewide Issues : C51 (LCS)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The LCS is used primarily to document standing historic architecture that needs our maintenance attention. For many years the list for Aztec Ruins contained only three structures on it. This problem has been rectified recently. Employees in the Division of History in the Southwest Regional office updated some of our LCS records in 1994. Structures included on the list are the visitor center, Hubbard Site, West Ruin, Great Kiva, and Kiva E. Other structures they intend to add include the East Ruin and the Aztec Ruins Trading Post, and they will probably delete Kiva E and include it under the West Ruin. There are many other sites within our expanded boundaries that we do not own yet.

Description of Recommended Project or Activity

Employees in the Division of History in the Southwest Regional office updated some of our LCS records in 1994. Structures included on the list are the visitor center, Hubbard Site, West Ruin, Great Kiva, and Kiva E. Other structures they intend to add include the East Ruin and the Aztec Ruins Trading Post, and they will probably delete Kiva E and include it under the West Ruin.

The SWR Division of History plans to complete documentation in early 1995. They will not include sites within our expanded boundaries at this time, but will instead address them once acquired.

BUDGET AND FTEs:

		-----FUNDED-----		
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	RG-CR-MTN RES	One-time	0.40	0.01

Last Update: 03/04/96
Initial Proposal: 1994

Project Statement

AZRU-C-011.000
Priority: 0
Page Num: 0015

1995:	CRPP	RES	One-time	0.80	0.01
	PKBASE-OT	ADM	One-time	0.20	0.01
			Subtotal:	1.00	0.02
1996:	CRPP	RES	One-time	0.60	0.01
	PKBASE-OT	ADM	One-time	0.03	0.01
			Subtotal:	0.63	0.02
			Total:	2.03	0.05

-----UNFUNDED-----

Activity	Fund Type	Budget (\$1000s)	FTEs
		0.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement
Last Update: 03/19/96
Initial Proposal: 1993

AZRU-C-014.000
Priority: 19
Page Num: 0018

Title : STUDY AND PRESERVE PREHISTORIC WOOD

Funding Status: Funded: 28.28 Unfunded: 0.00

Servicewide Issues : C57 (SPEC STUDY)
C04 (DATA RECOV)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 135

Problem Statement

There are many original wood elements in situ throughout the prehistoric structures in addition to others that have been removed and stored in various places. These prehistoric elements offer a wealth of information through dendrochronology and trace element analysis regarding construction sequence, repair of rooms, source of materials, and environmental conditions.

All the wood is exposed to some degree of weathering. Various treatments have been used in past years, including the application of pentachlorophenol wood preservative and a 5% silicone solution to all wood members in the East and West Ruins in 1965. In 1975 pentachlorophenol was applied to wood in the east and northeast wings of the West Ruin. In 1992, a mixture of linseed oil, paraffin wax, and solvent was applied to elements exposed to the weather (door and window lintels, exposed vigas, etc.). A limited study on Chaco and Aztec wood by Robert Blanchette, professor in the Department of plant Pathology at the University of Minnesota suggests that this treatment is not recommended because it encourages shrinkage and swelling changes that affect woody cell walls.

Description of Recommended Project or Activity

Continue wood inventory of prehistoric rooms and visitor center, continue to collect wood samples, analyze results, and explore alternate preservation treatment. An archeologist (Tom Windes and/or Dabney Ford) will continue to verify the inventory for accuracy and supervise the selection and collection of wood specimens to be sampled. Samples will be sent and held at the Tree Ring Lab until funds are available for their analysis. Samples taken for future trace element analysis will be sent to WACC for long term storage. An archeologist will analyze the results of the analysis and write a report.

A limited study on Chaco and Aztec wood in 1994 by Robert Blanchette, professor in the Department of plant Pathology at the

Project Statement

AZRU-C-014.000

Last Update: 03/19/96
Initial Proposal: 1993

Priority: 19
Page Num: 0019

University of Minnesota, suggests that this treatment is not recommended because it encourages shrinkage and swelling changes that affect woody cell walls. Treatment of wood elements with oil and solvent solutions will cease until more study is undertaken regarding appropriate treatments.

Volunteers from the San Juan Archaeological Society inventoried all the wood elements in the West Ruin and the outer rooms of the Great Kiva. An archeologist inventoried elements in the East Ruin. NPS archeologist Tom Windes documented elements in the 1919-1920 portions of the visitor center. Nearly 8,000 pieces of wood have been documented. Work to record these observations on a data base began in 1994.

Through FY94, over 1000 samples have been taken from selected rooms in the West Ruin as well as the stockpiled wood and selected rooms in the East Ruin. Collection was supervised by NPS archeologist Tom Windes and NPS Chaco archeologist Dabney Ford. Some have been analyzed by the Tree Ring Lab in Tucson through a \$2,000 research grant from SPMA awarded for FY 93, a \$5,000 grant awarded in FY94, and a \$5,000 grant awarded in FY95 to continue with the project.

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1993:	PKBASE-OT	ADM	Cyclic	2.00	0.10
	\$-DONATE	RES	Cyclic	2.60	0.00
	FED-OTHER	RES	Cyclic	1.00	0.10
	PKBASE-OT	RES	Cyclic	2.00	0.10
			Subtotal:	7.60	0.30
1994:	NON-PROFI	RES	Cyclic	1.00	0.10
	PKBASE-OT	ADM	Cyclic	0.50	0.00
	\$-DONATE	RES	Cyclic	5.00	0.00
	FED-OTHER	RES	Cyclic	1.00	0.10
			Subtotal:	7.50	0.20
1995:	PKBASE-OT	ADM	Cyclic	0.50	0.00
	NON-PROFI	RES	Cyclic	5.00	0.00
	VOL-INDEP	RES	Cyclic	0.00	0.04
	NON-PROFI	RES	Cyclic	0.50	0.00
	VOL-IN-PK	RES	Cyclic	0.13	0.07
	REG-OTHER	RES	Cyclic	1.70	0.06
	PKBASE-CR	ADM	Cyclic	0.10	0.00
			Subtotal:	7.93	0.17

Last Update: 03/19/96
Initial Proposal: 1993

Project Statement

AZRU-C-014.000
Priority: 19
Page Num: 0020

1996:	PKBASE-OT	ADM	Cyclic	0.25	0.01
	\$-DONATE	RES	Cyclic	5.00	0.00

			Subtotal:	5.25	0.01

			Total:	28.28	0.68
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-----UNFUNDED-----

Activity	Fund Type	Budget (\$1000s)	FTEs
		=====	=====
	Total:	0.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)
NHPA ((106) NAT. HIST. PRES.)

Explanation: 516 DM6 APP. 7.4 B

Project Statement

Last Update: 03/21/96
Initial Proposal: 1991

AZRU-C-015.000
Priority: 1
Page Num: 0021

Title : STABILIZE RUINS TO MAINTENANCE LEVEL

Funding Status: Funded: 171.44 Unfunded: 274.00

Servicewide Issues : C54 (EMERG STABL)
C55 (MAINTENANCE)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 132

Problem Statement

The West and East Ruins, the Hubbard Site, and the reconstructed Great Kiva all require ongoing stabilization. Together they contain 7,585 linear feet and 78,370 square feet of walls.

Stabilization work is provided sporadically (usually less than .3 FTE annually) by only one permanent employee. In addition, project funds from the former SWR were available in some years to pay for seasonal workers. Nonetheless, funding and FTE have never been sufficient to give adequate attention to the backlog of work needed to bring the walls to a basic maintenance level. When funding is available, only the most urgent problems are addressed during the short season, leaving other areas to deteriorate faster because of lack of regular attention. Expense of maintaining the walls has increased over the long term, while original fabric is sometimes lost.

The problems worsen yearly as project money from the Southwest Regional Office dwindled. Future project funding is highly uncertain. A massive concentration of work is needed to bring the resource to a basic maintenance level, after which annual stabilization is needed for regular maintenance.

Description of Recommended Project or Activity

Bring the ruins to a basic maintenance level through concentrated stabilization work that will continue four years or more. All walls showing or threatened with fabric loss or deterioration will receive attention. Work will include replacing deteriorated mortar, recapping walls, repointing/replacing missing stone, repairing fallen walls, bracing walls threatened with collapse, and other work as described by the scope of work developed.

A scope of work, and archeological and photographic documentation will be completed prior to the work. Some documentation can be completed by the permanent masonry worker, while some needs to be completed by an archeologist from a support office or

Last Update: 03/21/96
Initial Proposal: 1991

Priority: 1
Page Num: 0022

Intermountain Cultural Resource Center (or the monument's archeologist, once one is hired). A stabilization report will be completed after each season by the monument's lead masonry worker (or archeologist).

Once the initial concentrated work is completed, about 15 per cent of the exposed fabric chosen for stabilization will receive maintenance annually thereafter to counteract normal deterioration and to address longevity, safety, exterior appearance, and stability. Replacement of outdated and ineffective stabilization mortars will be a part of this ongoing program.

This course of action may change once a Backfilling Plan (C 20) has been implemented, because there will be less fabric to stabilize.

Amounts in funding table indicate various sources of funding over the past years. Generally, RCCM MIT amounts show funding that the SWR Conservation Division has given to the monument for stabilization. FTE's reflect the amount of stabilization work actually performed using that funding. In all years, some of that funding has been used for stabilization workers to perform some maintenance work in the monument. Supplies such as Rhoplex were also bought with regional funds. Park funds recorded in the table, POF1 MIT, are those spent on the salary for permanent masonry worker (James Brown) to work stabilization as well as for other stabilization workers. Some supplies are included. Other park funding, POF1 ADM, was spent on the Chief Ranger to assist and administer the program. In 1993 the Maintenance Worker, (Mike Sherris), has begun working some stabilization. His work is reflected in the table under POF1 adm.

The 1994 amount on this table does not reflect the total funding provided by the Conservation Division, which was a total of \$50,000--\$25,000 in each of RCCM and RCRR. Some of the funding is shown in C-039, Study and Repair Roofs Protecting Prehistoric Roofs, C-033, Research and Document Prehistoric Rooms, C-002, Study and Correct Water Drainage Problems, and N-004, Control Exotic Plants and Animals. A portion of that funding was spent on general monument maintenance unrelated to ruins stabilization.

In FY 94, \$1,900 of that amount went for purchase of a new mortar mixer, and \$3,800 was spent on aluminum scaffolding.

FY 94 is the first year that we can rely on the validity of the figures for FTE and funds actually spent during the year on ruins stabilization. These data were acquired by tailoring the Maintenance Management System to coincide with the actual projects we were doing, then accurately reporting work done. Thus although we reported in past years that the park contributed significant funds for stabilization work, once we started recording actual work we find that park contribution in FY 94 is very little, with the exception of administration and supervision. FY 94 is also the first year we are reporting that regional funds paid for sick, annual, and holiday leave for

Last Update: 03/21/96
Initial Proposal: 1991

Project Statement

AZRU-C-015.000
Priority: 1
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stabilization workers, which is significant (\$4300, 31 workdays).

Work accomplished is listed in the stabilization report for FY94. Some of the rooms worked on include: kivas L, F, and K, rooms 257, 147, 12, 154-2, 235, 53, 24, 197, and 57. In addition, experimental plaster panels were applied in room 18.

Work planned for FY95 if \$50,000 is received includes: \$5,000 for documentation by an archeologist of rooms with significant original masonry and mortar; \$3,000 for supplies; \$42,000 for stabilization of 2,400 square feet of walls. Priorities established in the 1994 Scope of Work plus addendums to that plan will be followed, as well as emergency work that may arise over the winter of 1995-1996.

NHPA compliance for the 1994 Scope of Work and addendums has been met. Consultation, however, needs to be initiated with appropriate groups. Some of the funding may have to be used for consultation efforts.

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1991:	RG-CR-MTN	MIT	Cyclic	15.00	0.60
	PKBASE-CR	MIT	Cyclic	11.00	0.30
	PKBASE-OT	ADM	Cyclic	1.50	0.10
			Subtotal:	27.50	1.00
1992:	RG-CR-MTN	MIT	Cyclic	25.00	0.60
	PKBASE-CR	MIT	Cyclic	4.00	0.10
	PKBASE-OT	ADM	Cyclic	2.00	0.10
			Subtotal:	31.00	0.80
1993:	RG-CR-MTN	MIT	Cyclic	18.00	0.70
	PKBASE-OT	MIT	Cyclic	24.00	0.60
	PKBASE-OT	ADM	Cyclic	1.80	0.10
	PKBASE-OT	ADM	Cyclic	1.80	0.10
			Subtotal:	45.60	1.50
1994:	REP-REHAB	MIT	Cyclic	19.00	0.40
	PKBASE-OT	MIT	Cyclic	1.00	0.00
	PKBASE-OT	ADM	Cyclic	1.50	0.10
	RG-CR-MTN	MIT	Cyclic	19.00	0.40
			Subtotal:	40.50	0.90

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1995:	RG-CR-MTN	MIT	Cyclic	16.18	0.43
	PKBASE-OT	MIT	Cyclic	9.86	0.25
	PKBASE-OT	ADM	Cyclic	0.80	0.02
	VOL-IN-PK	MIT	One-time	0.00	0.01

Subtotal:	26.84	0.71
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Total:	171.44	4.91
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-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	MIT	Cyclic	65.00	3.00
Year 2:	MIT	Cyclic	55.00	2.50
Year 3:	MIT	Cyclic	62.00	2.00
Year 4:	MIT	Cyclic	90.00	2.00
	ADM	Cyclic	1.00	0.02
	MIT	Cyclic	1.00	0.02
	Subtotal:		92.00	2.04
	Total:		274.00	9.54

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : NHPA ((106) NAT. HIST. PRES.)
EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(4)

Project Statement

Last Update: 03/20/96
Initial Proposal: 1991

AZRU-C-018.000
Priority: 12
Page Num: 0027

Title : CURATE ARCHIVES, PHOTOS, MAPS, ARTIFACTS

Funding Status: Funded: 23.34 Unfunded: 0.00

Servicewide Issues : C46 (ACCOUNTBLY)
Cultural Resource Type: OBJC (Object)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Over 65 years of insufficient funding and neglect contributed to a significant backlog of uncataloged artifacts and archival documents at Aztec Ruins. Artifacts were unaccounted for, records in many cases were not established nor maintained, and storage conditions were dismal.

With a commitment of funds and manpower since 1987, major progress has been made in records maintenance and artifact storage. A small amount of work still remains. Funds received from the SWR office in FY95 will allow virtual completion of backlog cataloging. Cataloging of the backlog of over 30,000 artifacts and the archival records is completed. Work on the photographic backlog began in 1993 and continues. Work in 1995 is concentrating on photographs of stabilization work. Maps, blueprints, and other drawings are also being catalogued and stored properly in 1995. Funding in 1994 of \$8,700 for expanded storage cabinets improved artifact storage. There remains some work in moving artifacts and storing them properly. Decisions need to be made regarding which items need to be retained on site as a study collection, and which items should be transferred to the repository at WACC. Some Accession records still need attention. This project was partially funded in FY91, FY93, FY94, and FY95.

Description of Recommended Project or Activity

We still need to continue with the following actions: update accession records, give attention to remaining storage problems, and transport original archival collection to WACC. Duplicate remaining nitrate and cellulose diacetate negatives, improve storage of stabilization photos and establish dates for undated photos. Continue updating accessions files by researching old loan agreements and completing required documentation for files. Remeasure artifacts on old cataloging system and enter in ANCS with metric measurements. Acquire custom made boxes for large and fragile objects. Provide for safe shipment of artifacts to WACC. Make quality labels for all shelves and cabinets in storage

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Initial Proposal: 1991

Project Statement

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area.

Funding in 1994 of \$8,700 for expanded storage cabinets and improved environmental monitoring equipment improved artifact storage. SWR Division of Curation supplied the monument with a museum technician for one week to assist in the moving and proper packaging of the artifacts into the new cabinets. Some work remains in moving artifacts and storing them properly. This funding is not recorded under this project statement, but is recorded in the project statement, AZRU-C-026, Implement Collection Condition Survey Recommendation.

In FY95 \$3,000 from SWR Division of Curation was granted to complete the cataloging and improve the storage of the maps and stabilization reports and photos.

In addition, in FY95 SWR Division of Curation is covering the costs to replace the computer that the ANCS system is on, about a \$5,000 purchase.

BUDGET AND FTEs:

			FUNDED		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1991:	CRPP	MIT	One-time	5.00	0.30
	PKBASE-OT	MIT	One-time	1.00	0.10
	PKBASE-OT	ADM	One-time	1.00	0.10
			Subtotal:	7.00	0.50
1992:	PKBASE-CR	MIT	One-time	1.00	0.10
1993:	CRPP	MIT	One-time	1.00	0.10
	PKBASE-OT	MIT	One-time	2.00	0.10
	PKBASE-OT	ADM	One-time	2.00	0.10
			Subtotal:	5.00	0.30
1994:	CRPP	MIT	One-time	2.50	0.20
	PKBASE-OT	MIT	One-time	0.25	0.01
	PKBASE-OT	ADM	One-time	0.25	0.01
			Subtotal:	3.00	0.22
1995:	CRPP	MIT	One-time	2.09	0.06
	PKBASE-OT	ADM	One-time	0.25	0.01
	CRPP	ADM	One-time	5.00	0.00
			Subtotal:	7.34	0.07
			Total:	23.34	1.19

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Initial Proposal: 1991

Project Statement

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Priority: 12
Page Num: 0029

-----UNFUNDED-----
Activity Fund Type Budget (\$1000s) FTEs
=====

Total:		0.00	0.00
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(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 E(2)

Last Update: 03/19/96
Initial Proposal: 1994

Project Statement

AZRU-C-020.000
Priority: 7
Page Num: 0030

Title : WRITE & IMPLEMENT BACKFILLING PLAN

Funding Status: Funded: 2.33 Unfunded: 386.50

Servicewide Issues : C57 (SPEC STUDY)
C05 (TREATMENTS)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 135

Problem Statement

The majority of rooms in the West Ruin have been excavated, exposing their walls to the elements. Some open rooms are adjacent to backfilled or unexcavated rooms, resulting in added pressure against the walls, drainage problems, and lateral movement of water through the fill and walls, all which contribute to mortar and stone erosion. Stabilization needed to maintain the walls is substantial and ongoing.

However, backfilling selected rooms eliminates the need for mortar repointing, veneer replacement, and provides support for standing walls and alleviates drainage problems. Most of the severe cumulative deterioration would be eliminated, and the amount of exposed masonry would be reduced to levels which could more realistically be maintained. Archeologist Larry Nordby of the Southwest Regional Office analyzed these problems in a report written in 1984, and recommended specific rooms to be backfilled. His plan was only partially implemented. His report, however, may not have given full consideration to interpretive and stabilization needs.

Description of Recommended Project or Activity

Write and implement a Backfilling Plan for the West and East Ruins. The project may include: planning and design of backfilling and drainage; archeological documentation and testing, such as wood, mortar, and soil analysis, possible subfloor testing; minimal stabilization of the walls to be covered or otherwise affected by the backfilling and drainage; backfilling of selected rooms and installation of drainage systems; and project reporting. In addition, further testing of preservation alternatives such as different capping techniques, vertical wall protection, and chemical treatments may be identified as a part of this plan.

Nordby's report will be used as a starting point for the plan, in addition to data generated by AZRU-C-002, "Study and Correct

Last Update: 03/19/96

Priority: 7

Initial Proposal: 1994

Page Num: 0031

Water Drainage Problems." Documentation for the project will be completed to Historic Structure Report standards prior to actions. Data generated will be included in the Historic Structure Report.

Initial study and plan writing will be accomplished by specialists from the Intermountain Cultural Resource Center, Conservation Group, and will be completed the first year. Archeologist Jim Trott began writing an initial plan in FY95 and expects to finish it by the end of the year. His plan will not be as comprehensive as we had first envisioned for this project, but it will be enough to give us direction and to be able to establish priorities on which rooms to backfill. We will need some additional on-site planning for drainage and other technical assistance when we begin and as we proceed with this project.

Section 106 compliance for backfilling the row of cobble rooms on the south side of the plaza was satisfied in FY94. Compliance responsibilities for the remainder of the plan will be undertaken as soon as the plan is completed, as well as consultation with affiliated groups. (There are so far nine groups expressing an interest in consulting with Aztec Ruins on resource management issues).

If funds are available, the first year after the plan is completed (FY96), we will document and backfill the cobble rooms. Additional tasks will be undertaken as funding is available. For instance, we will finalize the design plan for the highest priority sections to be backfilled. Documentation, including rectifiable photographs of walls that will be covered, is also necessary. Stabilization that is necessary to protect walls from the effects of backfilling (expected to be minimal) will occur. In addition, consultation and compliance requirements need to be met. Some backfilling other than the cobble rooms may take place if all above work has been completed and there are funds available.

For the following years, documentation, testing, consultation, stabilization, and backfilling will proceed on the highest priority rooms as funding becomes available.

Although progress reports will document yearly activities, a final comprehensive report will be produced in the final year.

Labor will be provided by the park, additional cooperating parks such as Chaco Culture or Mesa Verde, and specialists from the Cultural Resource Center and/or contractors. We hope to fund a private contractor for the documentation/photogrammetry work if NPS expertise and/or stafftime in this area are not available.

Last Update: 03/19/96
Initial Proposal: 1994

Project Statement

AZRU-C-020.000
Priority: 7
Page Num: 0032

BUDGET AND FTEs:

-----FUNDED-----					
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1995:	REG-OTHER	RES	One-time	1.50	0.03
	PKBASE-OT	ADM	One-time	0.20	0.01
	RG-CR-MTN	ADM	One-time	0.38	0.00
			Subtotal:	2.08	0.04
1996:	PKBASE-OT	ADM	One-time	0.25	0.01
			Total:	2.33	0.05
-----UNFUNDED-----					
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		RES	One-time	50.00	0.80
Year 2:		RES	One-time	3.50	0.20
		MIT	One-time	50.00	2.00
		MIT	One-time	50.00	2.00
			Subtotal:	103.50	4.20
Year 3:		RES	One-time	5.00	0.20
		MIT	One-time	50.00	2.00
		MIT	One-time	50.00	2.00
		ADM	One-time	3.00	0.07
			Subtotal:	108.00	4.27
Year 4:		ADM	One-time	20.00	0.50
		MIT	One-time	50.00	2.00
		MIT	One-time	50.00	2.00
		RES	One-time	5.00	0.20
			Subtotal:	125.00	4.70
			Total:	386.50	13.97

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : NHPA ((106) NAT. HIST. PRES.)

Explanation:

Project Statement
Last Update: 03/05/96
Initial Proposal: 1993

AZRU-C-023.000
Priority: 0
Page Num: 0037

Title : PRODUCE CULTURAL AFFILIATION STUDY

Funding Status: Funded: 20.20 Unfunded: 0.00

Servicewide Issues : C25 (CULT. AFFIL)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The Pueblo people are the decendents of the Anasazi culture. Several of the extant tribes today may claim cultural ties to Aztec, although we have not asked groups for this information. The Hopis have indicated that Aztec is involved in the history of several of their clans. There are some references in written accounts regarding connections with Aztec for some groups. Knowledge of the various groups' cultural affiliations and interest in Aztec is necessary for us to proceed with mandated consultation for management--especially regarding cultural resources and interpretation. Without this knowledge, we will continue to be ignorant of those groups who have concerns with the area and neglect our legal mandates to include them in planning and other programs.

Description of Recommended Project or Activity

A two year cultural affiliation study that will satisfy these needs was funded during FY 93. The contract was awarded to Dr. Adolph Greenberg of Miami University at Oxford, Ohio. He began work in 1994.

Proceed with the Cultural Affiliation Study through the contractor. The study will involve thorough research of written information, as well as research among political leadership in various Pueblo tribes and the Navajos to determine the nature of ties to Aztec Ruins. Monument personnel may also need to do some preliminary consultation with some of the groups as part of the study. The study will also establish each group's interest in consultation with the monument. The study will meet NPS guidelines. Use the information to actively proceed with consultation. The schedule for the study indicated we would receive a draft of the study by October, 1994 from Dr. Greenburg. As of March, 1995, we have not received his draft. When queried about the status of the study, Ed Natay of the American Indian Programs in SWR relayed a message to us that it was right on track, but he has been unavailable ever since to give us any further updates.

Project Statement
Last Update: 03/05/96
Initial Proposal: 1993

AZRU-C-023.000
Priority: 0
Page Num: 0038

BUDGET AND FTEs:

		-----FUNDED-----			
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1993:	SVC-OTHER	RES	One-time	20.00	0.00
1995:	PKBASE-OT	ADM	One-time	0.20	0.01
				=====	
Total:				20.20	0.01

		-----UNFUNDED-----			
	Activity	Fund Type	Budget (\$1000s)	FTEs	
				=====	
Total:				0.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Project Statement
Last Update: 03/08/96
Initial Proposal: 1994

AZRU-C-024.000
Priority: 16
Page Num: 0039

Title : PRODUCE CULTURAL RESOURCES BASE MAP

Funding Status: Funded: 0.08 Unfunded: 1.50

Servicewide Issues : C63 (HIS BASE MP)
Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number : 134

Problem Statement

The land within the expanded boundaries contains cultural resources as well as modern disturbances such as subsurface utility lines, pipelines, and water control features. Although an archeological base map for the land within the original monument boundaries exists, an expanded base map which includes the additional land does not. In addition, the present base map does not include precise locations of all the cultural resources within the monument, as well as non-historic and underground features. This information is needed for the monument's data base and management of the newly acquired resources. Information gained by Southwest Region's archeologist Peter McKenna in his survey will be needed for the base map. That report, however, has not been completed.

Description of Recommended Project or Activity

In late 1994, Dr. Milford Fletcher of the Southwest GIS Center, ordered National Aerial Photographic Program (NAPP) from the early 1990's. He found that the resolution of this imagery for creating a data base was not good enough. He is continuing his search of suitable imagery from which he can create a digital base. He has already gotten accurate points in the monument using a Global Positioning Unit to register the photo. From this we should have a digital base map upon which we can plot sites, intrusions, and other features.

Complete the digital base map through Dr. Fletcher's work. This should be completed in 1995. The map will include the expanded boundaries and have a 1 meter resolution. The data base will be maintained at the SW GIS Center in Albuquerque. Additions to the data base, such as water lines, underground archeological features, and underground telephone lines, will be plotted in by the GIS Center in the future using a GPU as needed by the park. This project is essentially fully funded for FY 95, with the exception that any additions to the data base will be needed occasionally in the future.

Project Statement
Last Update: 03/08/96
Initial Proposal: 1994

AZRU-C-024.000
Priority: 16
Page Num: 0040

Through conversations and visits with Dr. Fletcher, it is apparent that this map for Aztec is not high priority and we do not expect him to produce it. There may be an alternative to producing the map, however. John Stein of the Chaco Sites Project with the Navajo Tribe has collected imagery of Aztec that may be converted to an appropriate base map for us. We will explore this route as a viable alternative to our GIS needs. We map have to compensate him to produce this map for us. Cost estimates reflect a small fee to cover at least some of the expenses involved in producing it.

BUDGET AND FTEs:

-----FUNDED-----					
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1995:	PKBASE-OT	ADM	One-time	0.08	0.00
				=====	
Total:				0.08	0.00
-----UNFUNDED-----					
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 2:		RES	One-time	1.00	0.00
		ADM	One-time	0.50	0.00

Subtotal:				1.50	0.00
				=====	
Total:				1.50	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B

Last Update: 03/21/96
Initial Proposal: 1994

Project Statement

AZRU-C-033.000
Priority: 3
Page Num: 0057

Title : RESEARCH AND DOCUMENT PREHISTORIC ROOMS

Funding Status: Funded: 7.42 Unfunded: 57.00

Servicewide Issues : C03 (SITE DOC)
C04 (DATA RECOV)

Cultural Resource Type: SITE (Archeological Site)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Information on the ruins is still obtainable through research of its architecture. It is essential that we protect its integrity and document its current status. Moreover, in order for stabilization work to proceed, proper archeological research and architectural documentation is required. Because of these considerations, we need to develop baseline information regarding the excavation and stabilization history of the ruin, as well as to document its current architectural condition.

Research involves reviewing and reporting all past stabilization projects, photographs, and archeological information available for each room. Architectural documentation involves reporting extensively on the existing architecture of the room's appearance, including size, shape, masonry characteristics, features present and missing, condition, etc., as well as recording through photographs, diagrams, and videotapes of individual walls.

In the past we have either ignored this requirement before stabilization work or have given documentation minimal attention. In recent years we have obtained an archeologist on loan from the regional office to document one or two rooms at a time prior to emergency stabilization work. This haphazard approach has resulted in inconsistent documentation, and sometimes loss of original fabric and/or inappropriate stabilization treatment.

Having this baseline information will reduce stabilization funding needs in the long run, because it will eliminate the need for diverting a portion of those funds to bring an archeologist from the regional office to do the necessary pre-stabilization work. This practice is more costly than having an archeologist on site, and reduces funds available to do actual stabilization work.

In 1989, SWR Archeology Technician Kate Dowdy compiled stabilization and excavation histories for 50 rooms in the West Ruin, and fully documented 16 rooms. Her work began the initial phase of AZRU (10-238) Package A17, "Stabilize West Ruin". She focused on rooms that had been stabilized or were scheduled for

Last Update: 03/21/96
Initial Proposal: 1994

Project Statement

AZRU-C-033.000
Priority: 3
Page Num: 0058

stabilization during the FY 87, 88, and 89 seasons. Room histories of the remaining 300 rooms in the West Ruin and about 23 rooms in the East Ruin have not been compiled. Architectural documentation is lacking for about 340 rooms in both ruins.

Description of Recommended Project or Activity

Continue researching room histories and compiling architectural documentation of rooms in East and West Ruins. Quality and level of documentation will match or exceed the quality of work produced by Kate Dowdy. Documentation will concentrate first on those rooms slated for stabilization work as identified in scopes of work.

Work will be accomplished through one of two ways: 1. Most preferable is by hiring a GS 9 permanent archeologist to the staff to do the work over a number of years until work is completed. A project statement for this addition to the staff is identified elsewhere. 2. Second preference is to hire a seasonal archeologist for 6 months yearly for 3 years. This approach does not assure consistency in the final product, because we may not get the same person to do the work from year to year. Cost estimates are for the seasonal archeologist to complete the job.

These records will become part of the Historic Structure Report.

In FY94, Kaisa Bartouli of the SWR Division of Conservation documented a number of high priority rooms in the West Ruin. The SWR bore the expense of her salary, but the project funding paid for her travel and per diem. Funding shown reflects not only her travel expenses, but also those of Jim Trott, who assisted her with documentation and other assistance in stabilization.

Documentation and reporting on rooms in FY94 that did require an archeologist was accomplished by the lead stabilization worker, James Brown. Funded budget reflects his work.

BUDGET AND FTEs:

		-----FUNDED-----			
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	RG-CR-MTN	RES	One-time	1.30	0.01
	RG-CR-MTN	MIT	One-time	3.40	0.07
				-----	-----
			Subtotal:	4.70	0.08

Last Update: 03/21/96
Initial Proposal: 1994

Project Statement

AZRU-C-033.000
Priority: 3
Page Num: 0059

1995:	\$-DONATE RES	Recurring	0.23	0.00
	RG-CR-MTN RES	Recurring	1.10	0.04
	PKBASE-OT RES	One-time	0.31	0.00
	PKBASE-OT RES	Recurring	0.85	0.03
	PKBASE-OT ADM	One-time	0.23	0.01

	Subtotal:		2.72	0.08
		=====		
	Total:		7.42	0.16

-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	17.00	0.50
Year 2:	RES	One-time	20.00	0.50
Year 3:	RES	One-time	20.00	0.50
			=====	
	Total:		57.00	1.50

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.6

Last Update: 03/18/96
Initial Proposal: 1994

Project Statement

AZRU-C-039.000
Priority: 4
Page Num: 0072

Title : STUDY AND REPAIR ROOFS PROTECTING PREHISTORIC ROOFS

Funding Status: Funded: 4.56 Unfunded: 50.00

Servicewide Issues : C54 (EMERG STABL)
C55 (MAINTENANCE)

Cultural Resource Type: STRC (Structure)

N-RMAP Program codes :

10-238 Package Number :

Problem Statement

Twenty roofs were designed and built in the 1980's to protect prehistoric roofs in the ruins. The modern roofs are synthetic membrane supported by plywood decks. The membranes are ballasted with stone. The deck is supported on wood joists that span the short direction of the rooms above the prehistoric roofs and frame into the stone masonry walls. Roof drains are installed to pipe the water off the membrane and direct it away from the ruins. Some of the modern roofs span the full width of the rooms and are independent of the prehistoric roofs.

Since installation, some of the roofs have leaked. Seepage from leaks runs on to the underlying earthen roofs and saturates the dirt, then seeps into the room below. Seepage damages the underlying supporting roof beams, as well as the wood joists supporting the modern protective roof. The roof membrane acts as a vapor barrier over the room and retards the evaporation of water from the earth fill and room below. A modern roof partially collapsed in 1993 because of rotting structural members. Another has shown serious problems, while others are in varying degrees of need for maintenance

The original design may not be adequate to protect the roofs over a long period without leaking or suffering structural problems. The roofs need to be reassessed for effectiveness and repaired if necessary.

Description of Recommended Project or Activity

Perform routine maintenance on the roofs annually. Inspect annually for leaks, seal edges with appropriate sealant.

Staff at the monument will examine each roof closely to assess whether an alternate roof treatment or design is needed to protect the prehistoric roofs. A conservation specialist and/or structural engineer from the Intermountain Cultural Resource Center may be consulted to help the staff assess and inspect the

Project Statement

AZRU-C-039.000

Last Update: 03/18/96

Priority: 4

Initial Proposal: 1994

Page Num: 0073

roofs for structural integrity and effectiveness. Designs for repair or replacement, as needed, will follow. The several roofs that need immediate repair to prevent damage along with other roofs with the most critical repair jobs will be repaired first. Up to ten roofs will be repaired the first year. The remaining roofs will be addressed the next. Annual inspection and routine maintenance will occur in following years.

Estimated budget reflects annual routine maintenance and inspection of all roofs, as well as repair design and repair of the ten most critical roofs the first year. Funding for repairs the following years are roughly estimated.

In FY94, staff performed some routine inspection and maintenance on selected roofs, but no extensive repair work.

Compliance has been met for individual roofs already repaired. However, we will seek NHPA compliance for all the roofs still needing repair once suitable designs are established. Consultation with Native Americans is not necessary for this project.

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	RG-CR-MTN	MIT	Recurring	1.40	0.02
1995:	RG-CR-MTN	MIT	Recurring	3.01	0.09
	PKBASE-OT	ADM	Recurring	0.15	0.01
			Subtotal:	3.16	0.10
			Total:	4.56	0.12
			-----UNFUNDED-----		
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		MIT	Cyclic	6.00	0.20
Year 3:		MIT	Cyclic	17.00	0.50
		MIT	Recurring	3.00	0.10
		ADM	Cyclic	2.00	0.07
			Subtotal:	22.00	0.67
Year 4:		MIT	Cyclic	17.00	0.50
		MIT	Recurring	3.00	0.10
		ADM	Cyclic	2.00	0.07
			Subtotal:	22.00	0.67

Last Update: 03/18/96
Initial Proposal: 1994

Project Statement

AZRU-C-039.000
Priority: 4
Page Num: 0074

Total:

=====

50.00

1.54

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(4)

Last Update: 03/08/96
Initial Proposal: 1994

Project Statement

AZRU-C-040.000
Priority: 17
Page Num: 0075

Title : PREPARE CULTURAL LANDSCAPE INVENTORY

Funding Status: Funded: 7.73 Unfunded: 15.00

Servicewide Issues : C10 (INVENTORY)
Cultural Resource Type: COMB (Combination)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

The landscape in and around Aztec Ruins National Monument is quite different from that during Anasazi times. A trailer park and commercial buildings dominate the scene south of park boundaries. Irrigated pastures, orchards, and active and abandoned gas wells and tanks dot the remaining directions. Portions of the monument have been altered by paved trails, a picnic area, and landscaping with lawns and trees. Other areas with a more natural growth have been affected by irrigation, service roads, structures, and work areas.

The boundary expansion includes parcels with buildings, roads, wells, fruit trees, irrigation, and other features. Management will need to make decisions regarding alteration, maintenance, or removal of these features once the lands are acquired.

Because the landscape has changed repeatedly over the years, we need a study to determine significant landscape elements. A number of management proposals such as revegetation of certain areas and removal of buildings and irrigation ditches affect both the natural and cultural landscapes. Options for managing these landscapes need to be documented and explored before these proposals are implemented.

In addition, the National Register nomination forms have not been completed for the monument. Evaluation of landscape elements is necessary to complete the nomination forms.

Description of Recommended Project or Activity

Prepare a Cultural Landscape Inventory (CLI) according to NPS 28. Preliminary management guidance will be a part of this document. The CLI will inventory cultural landscape elements and relationships. It will identify character-defining landscape features and discuss their significance and integrity. The CLI and preliminary management guidance will assist management in planning appropriate decisions.

Last Update: 03/08/96
Initial Proposal: 1994

Project Statement

AZRU-C-040.000
Priority: 17
Page Num: 0076

A Level I reconnaissance in preparation for the inventory was completed in the fall of 1994. SWR has promised a more in-depth study in the spring of 1995 to help determine whether the full CLI is needed for Aztec Ruins. If this study finds that we do not need a full CLI, then this second level study would address some of the information we need to make several management decisions.

The budget listed is an estimate. Work will be done or overseen by the SWR Office of Cultural Landscapes Program. This study will be completed before the Cultural Landscape Report, N-010.000.

BUDGET AND FTEs:

-----FUNDED-----					
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	RG-CR-MTN	RES	One-time	0.50	0.01
1995:	RG-CR-MTN	RES	One-time	1.00	0.02
	PKBASE-OT	ADM	One-time	0.23	0.01
	CRPP	RES	One-time	6.00	0.00

			Subtotal:	7.23	0.03
				=====	
			Total:	7.73	0.04
-----UNFUNDED-----					
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 3:		RES	One-time	15.00	0.00
				=====	
			Total:	15.00	0.00

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 B(10)

Last Update: 03/19/96
Initial Proposal: 1994

Project Statement

AZRU-C-042.000
Priority: 0
Page Num: 0079

Title : DESIGN AND INSTALL VC SPRINKLER SYSTEM

Funding Status: Funded: 71.18 Unfunded: 0.00

Servicewide Issues : C55 (MAINTENANCE)
C50 (SECTY&FIRE)
Cultural Resource Type: STRC (Structure)
N-RMAP Program codes :

10-238 Package Number : 137

Problem Statement

The visitor center lobby and offices, adjacent offices, front and back porches, and basement are the original Earl Morris home (the archeologist who did most of the field work at Aztec) and American Museum of Natural History field station. Construction began in 1919 and was completed in 1925. The WPA room was added in 1934. Both the original home and WPA room are built of stone in the Anasazi masonry style. Much of the stone used was recovered from rubble leftover from excavation of the nearby West Ruin. The ceilings are made of ponderosa pine vigas, crossed by cottonwood poles, then topped by juniper splints. Many of the vigas and cottonwood poles were recovered from fallen roofs in the West Ruin and are thus prehistoric. Doors, lintels, floors, and baseboards are of modern wood. This historic structure is eligible for the National Register of Historic Places, although full documentation has not been completed.

The east exhibit room built in 1958, holds 20 exhibit cases displaying original artifacts from the ruins and nearby areas. There are 210 catalogued items, with a total of 506 individual items on display.

The curatorial storage room built in 1984, holds 1340 catalogued items, with 5546 total artifacts in storage. In addition, there are 1700 archival records and 1500 photographs in storage.

Long range plans call for converting most of the building that now serves as office space into visitor use areas. New exhibits, an audiovisual room, and a remodeled book sales area will be added.

It is essential to provide maximum protection for this historic structure as well as the artifacts contained within. Future exhibits and other modifications also will need maximum protection. The highly flammable ceilings in portions of the building increase the urgency of providing sprinkler protection. Present protection consists only of smoke detectors in rooms. Further delay with this project prolongs the risk to both the structure and artifacts, both irreplaceable.

Last Update: 03/19/96
Initial Proposal: 1994

Project Statement

AZRU-C-042.000
Priority: 0
Page Num: 0080

Description of Recommended Project or Activity

Design and install a sprinkler system to protect the rooms, artifacts, and exhibits in the visitor center. Rooms to be covered include the following, with square footage indicated:

Curatorial Storage	415 sq. ft.
WPA room	840
Library/office	340
East Exhibit room	1112
Lobby and offices	912
Adjacent offices	216
Basement	912
Front and back porches	1275

TOTAL 6022 Sq. ft.

System will be a wet pipe system and will comply with requirements specified in NFPA 13. An alarm to indicate trouble and activation of system will be included in the design.

The system should be designed such that it can be expanded as funding becomes available to cover additional rooms. Initial installation should protect the curatorial storage room as a minimum.

Cost estimates were obtained from Bob Henson, Chief of the Estimating Branch at Denver Service Center, 9/1/93. For an historic building such as the visitor center, he estimated the cost would be between \$5.00 and \$7.00 a square foot, with the range for our building more likely being in the \$6.00 to \$7.00 a square foot. Some of the cost depends on what requirements for installation are needed given the historic nature of the building (hiding the piping, recessing sprinkler heads, etc.). Cost estimates for the visitor center would then be as follows:

6022 sq. ft. x \$6.00/sq. ft.	=	\$36,132 (low range)
6022 sq. ft. x \$7.00/sq. ft.	=	\$42,154 (high ranger)

If we were to design and install the system for one or two rooms at a time, the total cost would be far greater than what is quoted above. For initial installation in the curatorial storage room only, for example, the estimated cost is about \$3,200. Recommendation is to design and install the entire system at one time, rather than doing it piecemeal.

The SW Curatorial Division gave us \$3200 in FY 94 to design and install the system in the curatorial storage room only. We soon found, however, that the cost estimates cited for this task were far too low to cover this entire job. Hooking up to the water supply alone will need the bulk of this money. This, coupled with the lack of time for designers to work on the project, resulted in little being done in FY94. An historical architect and mechanical engineer from Denver Service Center visited the area to get an overview of the building and make recommendations. They

Project Statement

AZRU-C-042.000

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Priority: 0

Initial Proposal: 1994

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initially advised not to install a sprinkler system, citing the difficulty of doing so, damage to the historic structure for installing pipes, and lack of historic fabric to protect. Their recommendation did not dissuade the park or others in the SWR Office. Work will continue to obtain the system.

The SWR Curatorial Division funded \$9300 in FY 95 to continue with the system design. Jeff Brown of the Division of Conservation worked with a contractor to survey the building and design the system. An additional \$50,000 funded by the Curatorial Division in FY95 will pay for the installation of the system to cover the entire visitor center.

Affiliated Native American groups will be informed of the necessity of ground excavation for completion of this project. NHPA compliance is a challenge. We will excavate or sink test pits in the valve pit and trenching areas prior to construction, with an archeologist on hand. Funding for some of this may be covered partially by the Curatorial Division, depending on what is found. If cultural materials are found, costs will be greater. Full consultation may need to take place, as well as cataloguing of artifacts if found. An estimate of \$2500 is given for FY96, but actual costs may be less or more.

BUDGET AND FTEs:

			-----FUNDED-----		
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1994:	RG-CR-MTN	ADM	One-time	3.20	0.00
	RG-CR-MTN	ADM	One-time	1.00	0.02
			Subtotal:	4.20	0.02
1995:	RG-CR-MTN	ADM	One-time	1.00	0.02
	PKBASE-OT	ADM	One-time	0.50	0.01
	CRPP	RES	One-time	9.30	0.00
	PKBASE-OT	ADM	One-time	0.97	0.02
	REG-OTHER	MIT	One-time	2.03	0.05
	CRPP	MIT	One-time	50.00	0.00
	PKBASE-OT	MIT	One-time	0.90	0.03
	CRPP	MIT	One-time	1.01	0.00
			Subtotal:	65.71	0.13
1996:	PKBASE-OT	ADM	One-time	1.05	0.03
	PKBASE-OT	MIT	One-time	0.22	0.01
			Subtotal:	1.27	0.04
			Total:	71.18	0.19

Project Statement
Last Update: 03/19/96
Initial Proposal: 1994

AZRU-C-042.000
Priority: 0
Page Num: 0082

-----UNFUNDED-----
Activity Fund Type Budget (\$1000s) FTEs
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Total:		0.00	0.00
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(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(18)

Project Statement
Last Update: 03/20/96
Initial Proposal: 1996

AZRU-C-044.000
Priority: 6
Page Num: 0085

Title : CONDUCT NAGPRA CONSULTATIONS

Funding Status: Funded: 0.00 Unfunded: 45.00

Servicewide Issues : C30 (CONSULTATN)
Cultural Resource Type: ETHN (Ethnographic Resources)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

A draft Cultural Affiliation Study was completed in 1995. The draft of the study demonstrates that at least nine tribes would like to have active consultations with Aztec Ruins. Much of the study was of minimal use to the monument, and a final report is needed.

The many NAGPRA and non-NAGPRA issues about which we need to consult include: the backfilling plan we will initiate in 1996, our annual stabilization program, rehabilitation of our mission 66 exhibits within the next five years, our interpretive program--how we interpret the area, written materials, personal services, interpretive use of the site, special uses of the monument, and artifact uses.

We have not made serious efforts to conduct consultations in past years. Most efforts have been limited to brief telephone or letter contacts with a handful of tribes. The Hopis made several on-site visits for consultation purposes regarding a re-burial of human remains and associated artifacts, orientation to the site, photographing artifacts, and input on exhibits, artifacts, and development of a trail guide. No other tribes have made formal visits to the area for orientation or discussion of issues.

Neither have we traveled to the tribes to meet with tribal officials. This is a significant lack of communication and effort on our part to fulfill our obligations to establish regular contact with affiliated tribes.

We cannot wait any longer to begin this process of communication and consultation without seriously eroding our credibility and consultation efforts as a whole.

Description of Recommended Project or Activity

Establish and maintain good relationships with affiliated tribes. Begin and continue NAGPRA consultations on various issues in the park.

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Priority: 6

Initial Proposal: 1996

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Accomplishing the above will be through several actions. First we will contact all affiliated tribes (as identified through the Cultural Affiliation Study) through a combination of visits and phone calls to their tribal offices. We will meet with tribal officials to introduce ourselves and give us a chance to get acquainted. We will demonstrate our interest in their concerns by letting them talk to us, rather than forcing them to answer to our needs or our specific items of business. We will provide them with photographs, written information, video, or whatever they ask about the park. Our initiating these contacts through phone and by making a trip to their homes will reinforce the value we place on our relationship and their time.

After we visit tribal officials via telephone or by visiting, we will invite them to Aztec Ruins for an orientation to our facilities and resources. We will show them artifacts in storage and on display, exhibits, interpretive materials, the structures, park boundaries, etc. We may speak to them in general terms about issues at the monument, and try to determine from them which issues they would be interested in consulting with us about. We may consult with them on issues that are of immediate concern in this initial orientation visit.

Once orientation visits are accomplished we will join efforts with Chaco Culture National Historical Park and meet at the same time with their consultation committee, most of whom claim affiliation with Aztec. Doing this will help save time and travel for us and consultants. We will invite officials to the monument on an annual basis, and as issues arise that need their on-site visit.

NAGPRA issues will be raised and discussed as issues arise and as our relationship grows with the tribes. Most of these issues can be dealt with at the committee meetings.

Subsequent consultations will progress as we feel our way along. Some tribes may be quite responsive to visiting us frequently and regularly, others may want us to visit them. Others may be satisfied with letter or telephone contact. The main objective is to achieve a working relationship that establishes us as people who are responsive to their needs and feelings. Establishing such a relationship will form a positive base from which to deal with more sensitive NAGPRA issues.

Budget reflects our need to obtain funding especially in the first year to initiate contacts and conduct orientation visits. Travel costs to send the Superintendent and one other person to visit the tribes and to supply written orientation materials are estimated at about \$3,000 total for the first year. About \$1,500 annually after that is needed to attend consultation committee meetings, visit tribal officials as needed, and attend NAGPRA related training. Other expenses include \$3,500 the first year to bring tribal officials to Aztec Ruins for orientation and additional visits. This sum will help defray their expenses for committee meetings. In following years, we will need \$2,000 to

Project Statement

AZRU-C-044.000

Last Update: 03/20/96
Initial Proposal: 1996

Priority: 6
Page Num: 0087

continue to bring tribal officials to Aztec for meetings and to discuss issues as they arise. The park will contribute the costs of about .1 FTE annually for the first few years in establishing the consultation activities. However, we will need matching funds of \$3500 annually at the same time to pay for .1 FTE to be able to establish and maintain a program that is active, consistent, and viable.

BUDGET AND FTEs:

		-----FUNDED-----		
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
Total:			0.00	0.00
		-----UNFUNDED-----		
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	RES	One-time	3.00	0.00
	ADM	Recurring	7.00	0.20
	RES	Recurring	3.50	0.00
	Subtotal:		13.50	0.20
Year 2:	RES	Recurring	1.50	0.00
	ADM	Recurring	7.00	0.20
	RES	Recurring	2.00	0.00
	Subtotal:		10.50	0.20
Year 3:	RES	Recurring	1.50	0.00
	ADM	Recurring	7.00	0.20
	RES	Recurring	2.00	0.00
	Subtotal:		10.50	0.20
Year 4:	RES	Recurring	1.50	0.00
	ADM	Recurring	7.00	0.20
	RES	Recurring	2.00	0.00
	Subtotal:		10.50	0.20
Total:			45.00	0.80

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Project Statement
Last Update: 03/20/96
Initial Proposal: 1996

AZRU-C-044.000
Priority: 6
Page Num: 0088

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.11

Project Statement

Last Update: 03/07/96
Initial Proposal: 1996

AZRU-C-045.000
Priority: 2
Page Num: 0089

Title : DOCUMENT WEST RUIN WITH PHOTOGRAMMETRY

Funding Status: Funded: 0.00 Unfunded: 46.30

Servicewide Issues : C03 (SITE DOC)
Cultural Resource Type:
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

With implementation of the backfilling plan due to be initiated in 1996, there is a need for thorough documentation of the walls that will be covered. Photogrammetric documentation is an excellent way to capture details of architecture and elevations. It will allow us to easily render maps of walls and rooms through digital manipulation. Maps can be produced that are three dimensional if needed. Photogrammetry will capture details that field mapping will miss. After walls are covered, these data will be inaccessible so it is important to obtain as much documentation as possible prior to backfilling.

An added benefit will be that the photogrammetric documents will be available for interpretive productions of three dimensional "fly-by" videos so that viewers can experience all aspects of the ruin from different viewpoints.

Description of Recommended Project or Activity

Carry out photogrammetric documentation of all rooms in the West Ruin. This will provide baseline information that can be retained in perpetuity and manipulated as future researchers and park personnel need.

The project will happen in two phases. The initial phase will consist of producing the photographs. A contractor or park personnel will photograph all walls of each room in the west ruin with calibrated cameras so that the photographs can be used to prepare scalable drawings using photogrammetric techniques. The photographer will use a 35 mm camera with a shift lense, and color film. The photographer will take two photographs of each wall. One will contain a mug board describing location, date, photographer, etc. The other will be free of any labels so as to record every part of the wall. The film will be processed to color prints with negatives. The photographs will then be scanned to magneto optical drive where they can be preserved as a permanent digital record. As a part of this record, the focal length of each photo will be recorded on each. The prints and

Project Statement

AZRU-C-045.000

Last Update: 03/07/96

Priority: 2

Initial Proposal: 1996

Page Num: 0090

negatives will be curated.

The photographer will then take a digital print of each wall back into the field and record directly on this print measurements of the four corners of the walls. Any other annotations appropriate for documentation of the wall will also be noted on this print. This print and notations will also be curated.

High initial costs reflect the costs of obtaining the magneto optical drive (\$500), camera and lens (\$1800), and flatbed scanner (\$300), needed to start the project.

Ideally, all photography of the West Ruin will be conducted within a short time period so as to provide the best baseline documentation. Estimated costs for labor to produce the photographs are \$9,000. Film and print processing is approximately \$4,000.

If funding cannot be obtained to photograph all rooms at the same time, we will plan to photograph half the West Ruin one year and half the next, at approximately \$8,000 costs per year.

The next phase of the project is to produce the drawings of rooms, walls, and elevations to the detail we need. These will be produced over a number of years as the drawings are needed for reporting or subsequent treatment of the walls. Since baseline data will be permanently available for these drawings, the capability of producing drawings will always exist.

Depending on the number of drawings we need over the years and the detail needed, costs of producing the drawings will vary anywhere from \$2,000 to \$20,000 a year. We are requesting \$10,000 annually for three years in this project statement.

This project needs to be conducted with project AZRU-C-033, Research and Document Prehistoric Rooms. That package allows for the documentation of rooms using forms on which an archeologist describes architectural attributes, but does not necessarily use photogrammetric methods to record walls. Ideally, both methods need to be employed. However, methods other than photogrammetry are costly in terms of time. Therefore, if funding is available for only one, photogrammetry is higher priority.

BUDGET AND FTEs:

		-----FUNDED-----		
Source	Activity	Fund Type	Budget (\$1000s)	FTEs
			=====	
Total:			0.00	0.00

Last Update: 03/07/96
Initial Proposal: 1996

Project Statement

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Priority: 2
Page Num: 0091

-----UNFUNDED-----				
	Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:	ADM	One-time	0.70	0.01
	RES	One-time	9.00	0.20
	RES	One-time	4.00	0.00
	RES	One-time	2.60	0.00
		Subtotal:	16.30	0.21
Year 2:	INT	One-time	10.00	0.00
Year 3:	INT	One-time	10.00	0.00
Year 4:	INT	One-time	10.00	0.00
		Total:	46.30	0.21

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM2 APP. 2, 1.6

Last Update: 03/20/96
Initial Proposal: 1993

Project Statement

AZRU-N-005.000
Priority: 3
Page Num: 0099

Title : REVEGETATE ROOMS & PICNIC AREA, PLANT SCREENING

Funding Status: Funded: 7.97 Unfunded: 23.60

Service-wide Issues : N05 (NON-NAT PLANTS)
N08 (CULT LANDSCAPE)
Cultural Resource Type: CULL (Cultural Landscape)
N-RMAP Program codes :

10-238 Package Number :

Problem Statement

There are several problem areas in the monument involving vegetation:

1. A major concern is in the East and West Ruins. Many of the kivas and rooms in the West Ruin have dirt floors open to sunlight and precipitation, where exotic weeds and small trees thrive. Their roots penetrate the ruin walls and cause structural damage. Current treatment is to pull them out by hand, a laborious process that is not always successful once the roots are well established in the hard-packed soil. We prefer native grass species to grow instead, which eventually out-compete the weeds and give the added benefit of transpiring moisture from the soil, thus diverting it from potentially damaging walls. Grass also obscures fewer of the features, allowing visitors to see more of the structure.

The West Ruin plaza is marred by vehicle tracks, off trail use, exotic plants, and has some slopes subject to erosion. Winter snows sometime render the plaza a quagmire of mud across which visitors walk and leave footprints. Vegetating this area with native bunch grass will discourage off trail use, control erosion, out compete weeds, and heal vehicle track scars. Slopes and social trails in the East Ruin are also eroding. Planting with native bunch grass will help control this problem.

2. The picnic area and some of the buildings are in view of the West Ruin trail. Vegetative screening with native plants (rabbitbrush, greasewood, four-wing saltbush, sage, etc.) would help to obscure these modern intrusions as well as dampen the noises from these areas, thus improving the visitor experience.

3. About 3 acres in the picnic area have been landscaped with turf grass, elms, willows, and cottonwood trees. Keeping the vegetation green and manicured through irrigation and mowing in the summer is labor intensive and wastes water. Some of the trees are not native, and the cottonwoods are mature. Cottonwoods need to be planted that will replace the mature ones, and the elms and other species need to be replaced with species that require less water and live longer. Selected areas could be returned to native

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Priority: 3

Initial Proposal: 1993

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vegetation, and much of the grass could be replaced with grass that requires little or no irrigation and reduced maintenance.

4. Other areas of the monument have been scarred by old roads, social trails, erosion, and work areas. Vegetating these areas with native bunch grasses would discourage erosion, improve their appearance, discourage off-trail use, and out-compete exotic plants.

Description of Recommended Project or Activity

Vegetate areas of monument described in problem statement. Actions are listed in priority:

1. Plant grasses to help control eroding slopes in both the East and West Ruins, eliminate social trails, vegetate rooms and kivas, and provide groundcover for the plaza. On steep slopes, particularly in the East Ruin where some erosion channels have already been established, we may need to place stones or landscape timbers horizontally across erosion channels, place additional dirt on top, then proceed with planting and using erosion control blankets.

2. Plant vegetative screening in selected areas of monument to improve visual experience.

3. Plant native bunch grass species, such as alkali sacaton, galleta grass (*Hilaria jamesii*), and Indian ricegrass (*Stipa hymenoides*), etc. in remaining areas of the monument with road scars, social trails, eroding areas, scarred work areas, etc.

4. Plant a turf grass more tolerant of low precipitation and reduced maintenance in selected areas of the picnic grounds. Plant selected areas with native plants (four-wing saltbush, greasewood, rabbitbrush, sage, etc.). Remove elms and other non-hardy species. Plant cottonwoods and other hardier species that are more drought tolerant.

Grass plugs will be obtained from nearby land managed by the Bureau of Land Management. Grass seed may be used in the picnic area if feasible, as water is readily available. Native plants will come from cuttings propagated from bushes on land managed by BLM. Chaco Canyon has offered to let us use their greenhouse to help propagate cuttings. Young trees will be purchased.

Ideally this is a long-term project. Costs and FTE are estimated. Work will be accomplished through a GS-3 seasonal worker who will collect grass plugs and cuttings, and propagate, plant, and water as necessary for approximately 8 pay periods annually. Even if there is funding to employ this person only 4 pay periods, we can still accomplish much during that short time as long as we have funding for supplies. This is also a project

Last Update: 03/20/96
Initial Proposal: 1993

Project Statement

AZRU-N-005.000
Priority: 3
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that we can continue over the long term even if we are not funded annually. Supply costs are minimal, (approximately \$500-\$800 per year) and include potting soil, pots, root hormone, gas for the vehicle, erosion control blanket, and hand tools.

The Natural Resources Divison of the Southwest Regional Office gave us \$400 late in FY93 to buy supplies for getting started on this project. Although we did not get funding for people to do planting, we did have a group of girl scouts and boy scouts do small replanting projects in FY94, with mixed results. Since then we've decided to look for adult volunteers to help with the project who have enough time to commit in the spring and late fall, when the plants have a better chance to survive.

In FY95 the Southwest Regional Office gave us \$4,000 to apply to this program. We revegetated several rooms and experimented with the effective times to plant vegetation, watering needed, species that did the best, and methods for transplanting. this initial year was largely experimental. With our new-found knowledge we want to pursue the program in future years with dedicated funding for a person to carry on with this program.

BUDGET AND FTEs:

		-----FUNDED-----			
	Source	Activity	Fund Type	Budget (\$1000s)	FTEs
1993:	RG-NS-RES	MON	Recurring	0.40	0.00
1994:	PKBASE-OT	ADM	Recurring	0.50	0.00
	\$-DONATE	MIT	Recurring	0.50	0.02
			Subtotal:	1.00	0.02
1995:	PKBASE-OT	ADM	One-time	0.10	0.01
	RG-NS-RES	MIT	One-time	4.00	0.11
	VOL-IN-PK	MIT	One-time	0.00	0.05
	RG-CR-MTN	MIT	Recurring	2.47	0.08
			Subtotal:	6.57	0.25
			Total:	7.97	0.27
		=====			
		-----UNFUNDED-----			
		Activity	Fund Type	Budget (\$1000s)	FTEs
Year 1:		MON	Recurring	1.00	0.10
		MIT	Recurring	5.80	0.40
			Subtotal:	6.80	0.50

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Initial Proposal: 1993

Project Statement

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Priority: 3
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Year 2:	MIT	Recurring	5.80	0.40
	MON	Recurring	1.00	0.10

		Subtotal:	6.80	0.50
Year 3:	MIT	Recurring	2.00	0.10
	MON	Recurring	1.00	0.02

		Subtotal:	3.00	0.12
Year 4:	MIT	Recurring	6.00	0.40
	MON	Recurring	1.00	0.02

		Subtotal:	7.00	0.42
		=====		
		Total:	23.60	1.54

(Optional) Alternative Actions/Solutions and Impacts
(No information provided)

Compliance codes : EXCL (CATEGORICAL EXCLUSION)

Explanation: 516 DM6 APP. 7.4 C(19)