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Curecanti Archeological District

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Curecanti Arc	DESCRIBE THE PRESENT AND ORI heological District consist	GINAL (IF KNOWN) PHYSICA s of a complex of 79	LAPPEARANCE prehistoric sites along (Appendix A).
	ed of the three discontinous 6,750.25 acres within Cureca		

Environment

Lakes (Fig. 1).

Service area established to manage recreation on Blue Mesa, Morrow Point, and Crystal

CurecantinArcheological District occupies part of a large, high-altitude basin surrounded by mountains and mesas ranging in

in the District. The climate of the Curecanti area is characterized by cold winters and warm summers. The dominant vegetation is typical of a cold desert environment and consists of several species of sagebrush together with typically associated grasses and shrubs (Fig. 2). A cottonwood/willow plant community occurs along the more permanent water sources; and stands of Douglas Fir, Blue Spruce, and Gambel Oak grow in some of the protected side draws. Fauna in the area encompass 244 species of birds and a variety of mannals including numerous smaller forms such as rodents and rabbits and larger forms such as mule deer, elk, and mountain sheep.

Archeological Investigations

The prehistory of the Curecanti region has not received as much attention as has the prehistory of other areas in Colorado, and many aspects of the chronology and the occupations are not yet well understood. Professional investigations occurred as early as the 1930s, conducted by Clarence T. Hurst and Harold and Betty Huscher. In 1962 Robert Lister identified 10 sites during archeological survey prior to construction of

, but subsequent surveys in the areas of failed to identify additional sites. However, a 1976 survey in Curecantinational Recreation Area above the

(Serger 1977, 1980, 1981).

Archeological research within what is now Curecanti Archeological District began in 1978 and has been conducted entirely by National Park Service personnel (Euler and Stiger 1981; Stiger 1980, 1981; Jones 1982, in preparation). Research has been based upon an extensive development program in the Recreation Area and has been oriented toward evaluation of site significance and mitigation of construction and visitor use impact. If it were not for these developmental-related archeological studies, the significance of sites in the Curecanti Archeological District would not be known. It is possible that as additional sites are examined and evaluated there will be cause to incorporate them into the District. However, sites now included are representative of all types known to date and contain examples of all observed internal features. After completion of the development program in 1984 additional disturbance of sites in the District is not anticipated.

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CONTINUATION SHEET DESCRIPTION ITEM NUMBER 7 PAGE 1

Regional Context and Description of Tested Sites

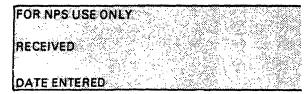
Evidence of Paleo-Indian occupation of western Colorado, dating from approximately 10,000 to 5,000 B.P., is usually represented by isolated finds of diagonstic artifacts. Such remains are indicative of early utilization of the region but they are seldom found associated with other material. Evidence of the Folsom tradition has been identified in the Curecanti area both as isolated finds and in contexts with other artifacts (Stiger 1980:60-61). Evidence of the latest Paleo-Indian tradition, the Plano complex, has been observed in the area (Stiger 1980:62; Jones: in preparation).

The Archaic stage in North America is interpreted as a shift in subsistence emphasis from hunting to gathering. Such change is represented in western Colorado and the Curecanti area by sites with increased quantities of vegetal processing equipment, specifically ground stone tools. The small number of Archaic projectile points that do occur change in form through time from unnotched stemmed types to large, corner-notched forms that date from 3,000-2,000 B.P. until the early centuries A.D. At that time smaller cornernotched projectile points appear, suggesting certain technological changes including the probable use of the bow and arrow. After approximately A.D. 1,000, small triangular side-notched projectile point forms appear in the archeological record (Euler and Stiger 1981).

The end of the Archaic elsewhere in the region is usually marked by evidence of the beginning of agriculture and development of ceramics. There is to date no evidence of such a shift at the sites in the Curecanti area. This is probably due to a variety of factors, not the least of which include limitations imposed by the high altitude and short growing season. Because evidence of agriculture is lacking in the Curecanti area, the Archaic occupation there can technically be considered to last until historic times, when Ute populations were identified in this portion of western Colorado (Buckles 1971).

Fifteen of the 79 sites included in the Curecanti Archeological District have received examination supplemental to initial survey (Appendix B), and the data obtained from this sample suggest an occupation of the **second second** that may have begun as early as 10,000 B.P, and which continued intermittently through the 16th Century A.D. All sites tested were done so because of Bureau of Reclamation development projects. Investigation was done for National Register evaluation and mitigation purposes in the areas to be directly affected. Based on distribution of surface and subsurface evidence it is assumed that considerable subsurface material remains in those site areas not tested and subsequently destroyed by construction activities.

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CONTINUATION SHEET DESCRIPTION ITEM NUMBER 7 PAGE 2

Three sites were tested in 1978, one of which, 5GN191, contained over 80 hearths and possible stone boiling pits (Euler and Stiger 1981). Five radiocarbon dates were obtained from 5GN191 that ranged from $8,807 \pm 100$: 6,857 B.C. (Tx-3149) to $5,861 \pm 170$: 3,911 B.C. (Tx-3155). Site 5GN204/205, a large site impinged upon by development for the contained quarry, midden, and lithic reduction areas (Fig. 3). Work at this site exposed hearths and the remains of probable habitation structures. The latter features appeared as charcoal-filled depressions that contained pole-impressed, burned daub (Fig. 4). Radiocarbon dates ranging from $4,697 \pm 80$: 2,747 B.C. (Tx-3151) to $4,398 \pm 90$: 2,488 B.C. (Tx-3157) were obtained from the structure, while a separate hearth at the site was radiocarbon dated at $10,094 \pm 830$: 8,144 B.C. (Tx-3153).

In 1979 investigations continued at 5GN191, a shoreline site exposed annually, and at six other sites in the District (Stiger 1981). Surface collections were made at 5GN207 and 5GN208, two lithic scatters. Site 5GN206 contained rare evidence of vertical stratigraphy and produced Ponderosa pine charcoal and a radiocarbon date of $5,583 \pm 160$: 3,633 B.C. (Tx-3622). Investigations produced evidence of extensive occupation at 5GN212, a large lithic scatter with numerous slab-lined and rock-filled hearths (Figs. 5 and 6). Nine horizontal components or concentrations of lithic material and ground stone tools were identified at 5GN10, a large site that contained further evidence of as many as three early habitation structures. Radiocarbon dates ranging from $3,924 \pm 130$: 1,974 B.C. (Tx-3629) to $6,355 \pm 210$: 4,405 B.C. (Tx-3621) were obtained for the stuctures.

In 1980, four sites in the District were reexamined, and three others were investigated for the first time (Jones: in preparation). As in the previous years' work, this research constituted either evaluation of archeological remains prior to development activities or mitigation of construction and visitor impact. Investigations were continued at 5GN204/205 and at 5GN212, where excavation exposed additional hearths and dense accumulations of lithic debris. The base of an unfluted Paleo-Indian projectile point was recovered from 5GN212, suggesting an early component there. Additional testing took place at 5GN207 and 5GN200, and small lithic scatter 5GN203 in the campground was completely excavated. Sites 5GN196 and 5GN210, two large lithic scatters, were examined for the first time.

In 1981 mitigation occurred at three sites while three others were examined for the first time. Initial evaluation occurred at 5GN41, 5GN42, and 5GN222. Ute-like pottery was recovered and a radiocarbon date of 474 ± 70 : A.D. 1476 (Beta-3277) was obtained at 5GN41. Ground stone artifacts containing palynological remains of 17 different families of economic plants were recovered at 5GN42. Site 5GN222 was found to contain a quarry and a large lithic scatter, and an historic tin bangle or tinkler was also recovered. Investigations at 5GN191, 5GN212, and 5GN247 exposed additional structural remains and generated 16 radiocarbon dates, many of which came from 5GN191 where over 150 hearth features were identified.

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Mitigative investigations continued at 5GN41, 5GN204/205, 5GN222, and 5GN247 in 1982. Excavations at 5GN247 revealed a large charcoal and rock-filled basin dating to 3,097 ± 70: 1,147 B.C. (Beta-5562). A stratified hearth exposed at 5GN222 indicated aboriginal use of that feature over a period of 1,200 years.

Mitigative excavations were concluded at three District sites, 5GN42, 5GN204/205, and 5GN247, in 1983. Work at 5GN42 revealed the presence of multiple structures situated around a seep or spring and dating to $1,823 \pm 50$: A.D. 127 (Beta-3279).

Archeological remains in the District document a variety of prehistoric functions and activities. These are described below and summarized in Table 1.

Quarries: Quarry sites include components of 5GN1, 5GN201, and 5GN204/205 (Fig. 3) and represent locations where raw lithic material, generally Morrison Formation quartzites, was obtained and where initial lithic reduction activities occurred.

Structures: Probable habitation structures have been identified at 5GN10, 5GN42, 5GN204/205, and 5GN247 (Fig. 4). They are represented by shallow charcoal-filled basin-shaped depressions, patterned post molds, burned radiating timbers, and concentrations of burned clay. The structures probably had log uprights with horizontal cribbing of other timbers and/or brush. Burned earth found around the bases of the structures and in the fill of the basins suggests a somewhat greater degree of permanence for such occupations than the rest of the archeological record at Curecanti indicates. These "wattle and daub" structures date earlier than similar structures reported in the Archaic period archeological literature.

Lithic Scatters: These occur both as light/diffuse and heavy concentrations of flakes and core fragments (Fig. 5) and contitute the minimal characteristic of all sites in the District. The predominate raw materials are white, tan, and dark red quartzites. The majority of the lithic material represents debitage, although incidentally retouched flakes, bifacially flaked knives or preforms, and projectile points are also present.

<u>Ground Stone</u>: Ground stone artifacts include small to medium biscuit-shaped or ovate manos and infrequent basin and slab metates. Such implements have traditionally been interpreted as vegetal food processing equipment and may have been used to process Pinyon nuts, Indian rice grass, or cactus, all of which have either been recovered from archeological contexts at sites in the District or exist in the area today.

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<u>Hearths:</u> These have been observed in large numbers at most of the sites where excavations have occurred (Figs. 7 and 8). They include slab-lined and unlined rock-filled basins together with features interpreted elsewhere as boiling pits. The hearths are occasionally intersecting, testifying to the intensive reoccupation of several of the large sites.

Stone Alignments: These have been identified in small numbers in the Curecanti area. They occur as low semicircular alignments of cobbles and may represent hunting blinds.

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CONTIN	UATION SHEET	DESCRIPTION	ITEM NUMBER 7	PAGE 5		
Table 1.						
Site Number			Features			
	Hearths	Ground Stone	Structures	Quarry	Lithic Scatters	
5GN1	Х	X	and a second	X	X	
5GN10* 5GN14	Х.	Х	Х		X X	
5GN41*	Х	X			Х	
5GN42*	Х	Х	Х		Х	
5GN50 5GN51					X X	
5GN130		Х			Х	
5GN131	X				Х	
5GN132					Х	
5GN133	Х				Х	
5GN134	Х	Х			Х	
5GN135					Х	
5GN136					Х	
5GN137					Х	
5GN138					Х	
5GN139	Х	X			X	
5GN140		X			X	
5GN141	X	X			X	
5GN142	Х	Х	0		X	
5GN143 5GN147					X	
5GN147 5GN148					X X	
5GN149					X X	
5GN150					X	
5GN160					X	
5GN161	Х				X	
5GN162					X	
5GN163					X	
5GN166					X	
5GN167					X	
5GN168					X	
5GN169					X	
5GN170					Х	
5GN171					Х	
5GN174					Х	

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Table l. (co	ont.)				
Site Number			Features		
	Hearths	Ground Stone.	Structures	Quarry	Lithic Scatters
5GN175		X			X
5GN176					Х
5GN177					Х
5GN178					X
5GN179					X
5GN180					X
5GN191*	Х	Х			X
5GN196*	X	X			X
5GN198	Α	Λ			X
5GN198					X
5GN200 *	Х	77			
	Λ	Х		37	X
5GN201		77		Х	X
5GN202		Х			X
5GN203 *					Х
5GN204/205*	X	X	Х	Х	Х
5GN206*	Х				Х
5GN207*	Х	Х			Х
5GN208					Х
5GN209					Х
5GN210*	Х	Х			X
5GN212*	Х	Х			Х
5GN213					Х
5GN164			•		Х
5GN165					X
5GN214					X
5GN215		Х			X
5GN215		22			X
5GN217	Х	Х			X
5GN217 5GN218	Δ	Λ			X
5GN218 5GN219					
		37			X ·
5GN220		X			X
5GN221		Х			X
5GN222*					X
5GN223	Х				Х
5GN225		Х			Х
5GN226		Х			Х
5GN227		Х			Х

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Table l. (cont.)				
Site Numbe	r		Features		
	Hearths	Ground Stone	Structures	Quarry	Lithic Scatters
5GN228 5GN229 5GN230 5GN231 5GN232 5GN247*	Х	X X	Х		X X X X X X X

*Sites that have received test excavations (5G204/205, although considered one site, is counted as two sites as both portions of this large site have been tested).

SIGNIFICANCE PERIOD

AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW

X_PREHISTORIC	X_ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION
1400-1499	ARCHEOLOGY-HISTORIC	CONSERVATION	LAW	SCIENCE
1500-1599	AGRICULTURE	ECONOMICS	LITERATURE	SCULPTURE
1600-1699	ARCHITECTURE	EDUCATION	MILITARY	SOCIAL/HUMANITARIAN
1700-1799	ART	ENGINEERING	MUSIC	THEATER
1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	TRANSPORTATION
1900-	COMMUNICATIONS	INDUSTRY	POLITICS/GOVERNMENT	-OTHER (SPECIEV)
		INVENTION		

SPECIFIC DATES 10,000 B.P.-A.D. 1500 **BUILDER/ARCHITECT**

STATEMENT OF SIGNIFICANCE

The Curecanti Archeological District is a unique complex of interrelated sites that as a unit has contributed significantly to reinterpretation and understanding of the archeological record of the western slope of the Rocky Mountains. Additionally, the multiple site resources that remain undisturbed have great potential to provide further important and detailed information concerning the prehistoric occupation and utilization of the The significance of the archeological complex has been established in several major areas: high site density, wide site variety, permanency and length of occupation, and early dates for documented "wattle and daub" construction. As an integral unit, the sites represent the entire 12,000-year range of human occupation of the region.

While early investigations in the region did not suggest it, subsequent survey work (Stiger 1977) demonstrated that archeological site density in the District is extremenly high (Fig. 1). Over 130 sites have been identified in Curecanti National Recreation Area, and more than half are within the District. Such intensive occupation has not been recorded on the Western Slope in similar cultural and environmental contexts.

The variety of site types and implied functions represented in the District is also highly unusual (Table 1). Virtually all sites contain lithic scatters ranging in size from a few square meters to as many as 50 ha. Major quarries are present at three locations. Many of the more extensive sites contain large numbers of hearths and/or roasting pits. The prehistoric activities implied by these features are previously unknown in the region. Perhaps more important, it has been presumed that the Western Slope hunters and gatherers occupied the mountain regions only during the summer months. However, the presence of early habitation structures at four sites in the District suggests a greater degree of permanence for the Archaic occupations on the Western Slope than has previously been thought and potentially extends the foraging adaptation into the marginal early spring and late fall months.

Finally, the complex of sites in the Curecanti Archeological District is impressive in light of the considerable length of occupation that has been documented there. Fifty-nine radiocarbon dates from archeological features and associated cultural material at 12 sites range from approximately 10,000 A.D. to A.D. 1500 (Fig. 9), indicating 10 millenia of probably intermittent occupation and utilization of the region. Two periods of more intensive occupation appear to have occurred within this considerable time span, one from approximately 7,000 to 6,500 B.P. and the other from approximately 5,500 to 4,500 B.P.

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Information and Research Potential

Archeological work in the Curecanti Archeological District has clearly demonstrated that sites there contain tremendous quantities of research and interpretive information. Sixty-four sites in the District remain undisturbed. Their surface manifestations are identical to those sites that produced numerous hearths, evidence of early-dating "wattle and daub" construction, abundant undisturbed lithic activity areas, and other important evidence of aboriginal lifeways. Data catagories present in the archeological record are numerous and lend themselves to a variety of research problems, but those of highest priority involve examination of the rich geochronological data base.

Fifty-nine radiocarbon dates have been obtained from 12 of the 15 sites investigated. Additional chronometic data are abundant, and radiocarbon and archeomagnetic dates could be obtained from all site types represented in the record to enhance and refine the prehistoric chronology of the Western Slope.

Paleoenvironmental investigations would permit detailed determination of climate, flora, fauna, and subsistence during Archaic occupation of the formation of Such research could also address causes of the two more intensive periods of occupation that have been suggested by the radiocarbon dates. Analyses that have been carried out demonstrate good preservation of pollen, macrofloral, and faunal remains and other appropriate materials.

The District sites also contain a vast quantity of technological information. Quarries and lithic scatters provide an ideal data base for studies of prehistoric lithic technology. Identification of raw material sources would permit observation of patterns of lithic resource exploitation. Large quantities of tools and debitage could enable determination of patterns of implement manufacture. Other technological and functional data, which remain to be evaluated, exist in the habitation structures and hearths.

Settlement pattern data compose another broad informational category where studies of inter-site variation are feasible, and examination of intra-site patterning of artifacts has already been undertaken (Jones: in preparation). Finally, locational analysis studies are readily adaptable to the sites at Curecanti where factors of soil, water, and topography could be correlated with paleoenvironmental data to permit definition of aboriginal site selection strategy.

In summary, the Curecanti Archeological District represents an impressive resource base essential to understanding the prehistory of high altitude western Colorado and the Rocky Mountains. The District provides a productive setting to evaluate the Curecanti adaptations in relation to high altitude manifestations elsewhere in western North America, and abundant data exist to enable investigation of numerous important scientific research questions.

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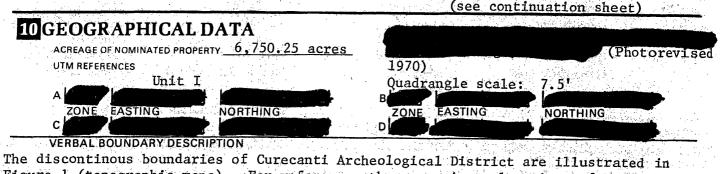


Figure 1 (topographic maps). For reference, the approximate locations of Units I, II, and III have been marked on the enclosed park brochure. The above UTM references are only for Unit I, which is the largest Unit within the District, containing 77 of its 79 sites.

continuation sheet 10-1 see LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES STATE CODE COUNTY CODE STATE. CODE COUNTY CODE **11 FORM PREPARED BY** NAME/ TITLE Bruce Jones, Archeologist Adrienne Anderson, Regional Archeologist ORGANIZATION DATE Rocky Mountain Regional Office Winters 1981-1982; 1983-1984 STREET & NUMBER TELEPHONE National Park Service - 655 Parfet Street (303) 234-2764 CITY OR TOWN P.O. Box 25287 STATE Denver Colorado 80225 **12** CERTIFICATION OF NOMINATION Property was determined eligible STATE HISTORIC PRESERVATION OFFICER RECOMMENDATION July 26, 1982 YES_XX_ NO_ 5-21-84 STATE HISTORIC PRESERVATION OFFICER SIGNATURE In compliance with Executive Order 11593, I hereby nominate this property to the National Register, certifying that the State Historic Preservation Officer has been allowed 90 days in which present the nomination to the State Review Board and to evaluate its significance. The evaluated level of significance is National State . _Local. FEDERAL REPRESENTATIVE SIGNATURE DATE TITLE June 18, 1984 FOR NPS USE ONLY I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

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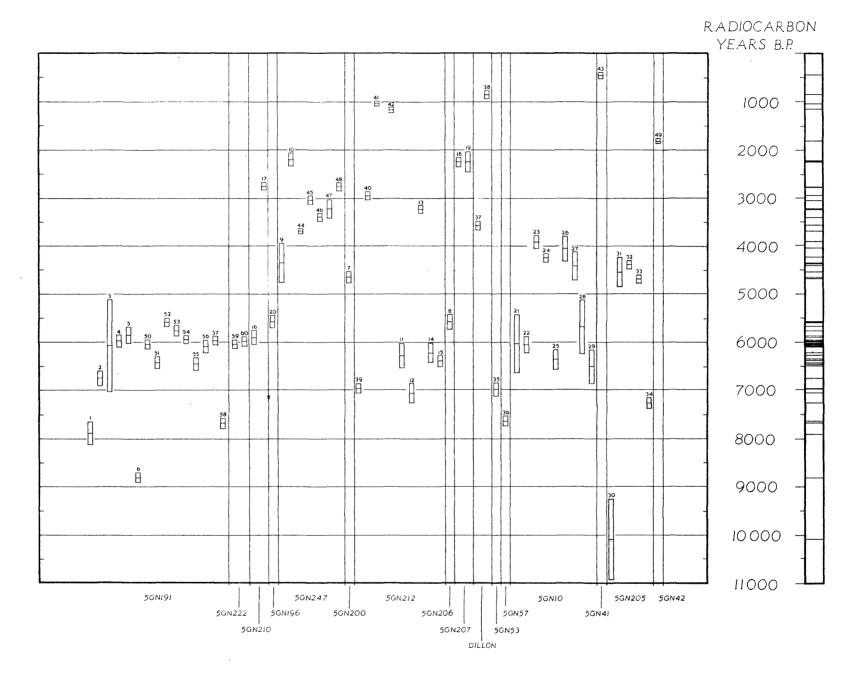


Figure 9. Distribution of radiocarbon dates from sites in and adjacent to the Curecanti Archeological District, Colorado. All of the dates have been calibrated using a radiocarbon half-life of 5,730 years and all are dendrocheonologically uncorrected.

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