



The Hazzard collection. Number 23 1963

Sharrock, Floyd W.

Madison, Wisconsin: Society for American Archaeology and the University of Wisconsin Press, 1963

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Archives of Archaeology
Number 23

THE HAZZARD COLLECTION

By Floyd W. Sharrock
University of Utah

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ACKNOWLEDGMENTS

In 1961, as an employee of the University of Utah Glen Canyon Project, I became interested in the material herein referred to as the "Hazzard Collection" because artifacts had been illustrated and listed (e. g., Kent, 1957) as being from areas (and probably from sites) under investigation by the University of Utah. Study of the materials was made possible through a grant from the Penrose Fund of the American Philosophical Society (Grant No. 2973). My sincere thanks go to the American Philosophical Society for this generosity.

Several persons aided in the compilation of the data, including C. Sylvia Wilson, University of Utah, and Caroline Dosker of the Pennsylvania Museum. I am particularly indebted to A. Frances Eyman, of the American Section of the University Museum for making the local arrangements for the study and for many other courtesies.

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INTRODUCTION

1.

At the onset, it seems appropriate to note that the designation "The Hazzard Collection" is here selected only for convenience. It might equally (or more) appropriately have been called something else because of the many persons involved. However, due credit is given to the various individuals concerned in the History section.

The Hazzard Collection belongs to, and is housed at, the Pennsylvania University Museum. A few specimens are on loan to the Mesa Verde National Park Museum and are there displayed. Some (Appendix, Entry 2) artifacts selected by Phebe Hearst are at the University of California, Berkeley. Most of the material at Pennsylvania remains in storage, although limited amounts are displayed in the American Section of the Museum.

During the limited period of study, as many of the artifacts were examined and photographed as was possible, and the pertinent provenience and related historical documents (herein referred to or reproduced) were taken from the University Museum archives. The primary purpose of the study was to correlate, if possible, those artifacts and records concerning the Glen Canyon area with site and other records at the University of Utah. As the study progressed, however, it became obvious that many of the original records were lost. Since records were imprecise at best, extensive correlation of provenience and comprehensive study was impractical or impossible. The gross data are presented here as a record of the size and wealth of the collection.

The story of the Hazzard Collection can never be deciphered with any degree of certainty. The collection is clearly not the result of a single collecting expedition to a restricted area. Rather, the material now in the possession of the University of Pennsylvania Museum consists of several small collections from several areas. The exact dates of these collections, the collectors, and the dispositions subsequent to collection perhaps will never be unraveled. The following, thus, purports only to present the more reliable data about the collection and subsequent disposal.

The history begins with the discovery of the Mesa Verde ruins in 1888 by the Wetherill brothers. In that era of antiquarianism, the Four Corners of the Southwest fell easy prey to those who sought large numbers of unusual, well preserved archeological specimens. Although profit could not have been a prime motivating factor in the beginning, once interest was aroused collections and sales became a lucrative business and must have been a factor in creating the burst of activity in the Southwest in the years immediately following 1890. In virtually every collecting expedition of that era, the Wetherills were directly or indirectly involved. After having collected at most of the sites now included in Mesa Verde National Park, they began to branch out, ranging as far as Grand Gulch, Utah, and even into the left bank tributaries of the Colorado River. In addition to collections they made personally, they either may have farmed out jobs under their supervision or acted as guides for other collectors or both. In any venture in

which they were involved, the Wetherill name stands out. Because other persons were involved, and because of sales and combinations of collections, etc., a tangle now impossible to unravel was created.

McNitt (1957) recorded the disposition of several of the Wetherill collections, which he describes as "first," "second," etc. The Wetherill collection involved here is the one taken from the Mesa Verde in 1889 (the second) and added to in 1891-92 (McNitt, 1957, 31-3). The entire collection was sold to C. D. Hazzard of the H. J. Smith Exploring Company of Illinois (McNitt, 1957, 32-3, 325). There is evidence that what is now considered the second Wetherill collection includes some material privately collected. According to Harvey P. Smith (personal communication, May 1962), the son of H. Jay Smith, his father went to Mesa Verde shortly after the discovery of Mesa Verde and quartered at the Wetherill ranch in Durango, Colorado. Smith organized an exploring party that included a photographer and the artist Alex J. Fournier. This party recovered some of the artifacts now in the collection. That Smith was there is evidenced by photographs of Ruin Canyon (Hovenweep), Utah, and a drawing by Fournier that appeared in a publication (Anonymous, 1893, passim) concerning the 1893 display of the Smith material at the World's Columbian Exposition. In the credits, the Wetherills are noted only for "their pioneer work in exploring the Mancos region." A version of the disposal of the second Wetherill collection which can almost certainly be discounted is given by Green (1891).

"In fact nothing but an outside observation of these ruins [in Mesa Verde] had been made until about two years ago. Then Messrs. Charles McLoyd in company with some other gentlemen made some explorations of the ruins found in Mancos Canon Colo. They gathered a small collection which was purchased by the Historical Society of Denver for \$3,000. Soon after this the Wetherills (several brothers living on a ranch near Mancos, Colo.) made extensive explorations, digging through all the ruins of that part of the country. Their industrious efforts were rewarded by a most magnificent collection. This collection was brought to Durango, the nearest railroad town where the writer had located in quest of health and where he first became intensely interested in this special department of archaeological study. The Wetherill collection was a new inspiration to look farther into the unexplored field of America's pre-historic races. If Mr. Wethrell's [sic] collection could have been obtained for a few thousand dollars "a tender heel" would have no doubt taken it in. The collection, however, was taken to Denver and was (the last account the writer had of it) bonded to an English Company for the handsome sum of \$10,000."

The collection of which Green speaks apparently is the second collection. That it went to Europe is highly improbable since all evidence indi-

cates the collection is now, in fact, at Philadelphia and since no other Wetherill collection than that in Sweden* (the third Wetherill collection) is known to have left the country. Further speculation on this point seems unwarranted. In addition to its almost certain physical presence at the University of Pennsylvania Museum, the sale by the Wetherills to Hazzard (an agent of the H. J. Smith Exploring Co.?) is attested by two short hand-written papers in the University Museum of Pennsylvania archives titled "Collection of Cliff Dweller relics Collected by the Wetherill Bros. and C. C. Mason" with a notation "Sold to Chas. D. Hazzard." Possibly H. Jay Smith merely added material he personally collected to that he bought (through Hazzard?) from the Wetherills.

The second major group of material in the Hazzard Collection is the McLoyd collection -- equally as confused as the Wetherill second collection since two collecting expeditions are involved. Materials from the first, collected in the winter of 1890-91 may be wholly or partially included in the Hazzard Collection; material from the second is in the Hazzard Collection. But correlating the collections from the geographic area from which they came is impossible. The names of Charles McLoyd, C. C. Graham and the retired Rev. C. H. Green of Kentucky are associated with the 1890-91 McLoyd collection. According to McNitt (1957, 55) this collection was taken from Grand Gulch, Utah. It was brought to Denver and sold to Green

*The "third" collection was made for Nordenskiold and has been recently studied by Charlie R. Steen, National Park Service.

who had come west for his health. So enthralled was Green that he subsequently packed into Grand Gulch to add to his collection. The Green material was put on exhibit in Chicago at the Art Institute Building, 10 Van Buren Street, concurrent with, but not part of, the Chicago Exposition. Subsequent to the Fair (and the art exhibit), Green's material may have been sold to Hazzard to be joined with the Wetherill second collection (plus material collected by Smith?). The only good evidence that it is now in the Hazzard Collection is a distinctive artifact (a pair of crutches), listed in the Green catalog (Green, 1891) as: "22. Pair of Crutches, made of forked sticks, the tops cushioned with yucca fibre and covered with buckskin." Such a pair of crutches (No. 711a, Table 1) on loan to Mesa Verde National Park Museum from the Hazzard Collection, is so distinctive as to indicate that they are the same as those from the 1890-91 McLoyd collection. However, several other distinctive artifacts listed in the Green catalog are definitely not in the Hazzard Collection. Hence, C. D. Hazzard probably came into possession of only a portion of Green's (McLoyd) material. A second McLoyd collection taken from Grand Gulch, Utah, Arizona, New Mexico and the Colorado River Canyon area seems to be now included, in its entirety, in the Hazzard Collection. After the sale of his first collection (?) to Green, McLoyd and Graham, in the company of John Wetherill (McNitt, 1957, 55) dug in several left bank tributaries of the Colorado River (Armstrong, White, Moqui, Red, Lost, Deep and Lake canyons) and apparently (judging from the original catalog tags) the mainstem of the

Colorado in the area between the San Juan-Colorado confluence northward to the Colorado-White Canyon confluence. Members of this expedition were McLoyd, Howard and Charles (C. C.) Graham, Wash and Sevi Patrick and, for a time, John Wetherill. Since John Wetherill was unaware of visits to the mainstem (Appendix, Entry 4), obviously this part of the trip came after his departure from the expedition. This McLoyd collection undoubtedly came into the possession of Hazzard since it is now at the University Museum of Pennsylvania.

Some small amount of confusion exists regarding the two McLoyd collections. Green (1891, 18) adds a note of uncertainty by having McLoyd and Graham "... spending the entire winter of 1890-91 in the uninhabited, desolate, arid regions of Southeastern Utah, Northeastern Arizona and Northwestern New Mexico, having previously explored the Cliff Dweller region of Southwestern Colorado The collection was a marvel of completeness both in quantity and variety, and was concluded beyond all question to be larger and more complete than the Wetherill Collection. This splendid collection was purchased by Rev. C. H. Green for several thousand dollars before it reached the bounds of civilization."

Thus, either McNitt (1957, 55) or Green (1893, 18) is mistaken about the area from which the first McLoyd collection was taken. Whatever the circumstances, however, the second McLoyd collection is the second major component of the Hazzard Collection. Pieces from the first McLoyd collection may be included.

One other small private collection is also incorporated in the Hazzard Collection (Appendix, Entry 1). This includes 26 individual and lots of artifacts from the Cortez, Colorado area. The shipping list notation of December 13, 1892 certifies shipment by collector C. M. Viets, to Richard Wetherill at Mancos on 7 December 1892. A notation on the front page reads, "in boxes 1 to 28. Packed with the Wetherill Collection. This collection was bought by C. D. Hazzard of C. M. Veits [sic] when I was at Cortez and shipped to me with part of Wetherill collection shipe [sic] at that date; /C. D. Hazzard/."

The World's Columbian Exposition was held at Chicago in 1893 three years before Utah achieved statehood. Hence, Utah Territory and the State of Colorado were both involved with Southwestern prehistoric displays at Jackson Park along with Green's display at the Chicago Art Institute. Utah's exhibit apparently had no connection with any of the present Hazzard Collection although it did duplicate much of the material. Utah's role at the Exposition is described in a publication authored by the Utah World's Fair Commission (McDaniel, 1894). Because Utah was the only territory to have its own building, its citizens went to some lengths to provide an appropriately impressive display, one aspect of which was prehistory. On the recommendation of the executive committee, a Department of Ethnology and Archaeology, including isolated and collective exhibits, was established with Don McGuire of Ogden as Chief of the Department (McDaniel, 1894, 19-20). Although not essential to this paper, the follow-

ing is included because of its historical interest:

"The exhibits in the Utah Building attracted a wonderful number of visitors. The Archaeological specimens interested the scholar and the curiosity-seeker alike. The mummy known as "the King of the Blue Mountains"*, was a silent but wonderfully apt witness of the fact that in ages past a people resided in Utah who possessed a considerable knowledge of the arts and sciences as we understand such things to-day" (McDaniel, 1894, 40).

"Our feature of the exhibit in the [Utah] building was the archaeological remains. At first it was decided to place this exhibit in the Anthropological Building, but later it was thought best to place it in the Utah Building as it was historical in character and properly belonged to the building" (McDaniel, 1894, 80).

* This unlovely creature elicited the following sonnet by a visitor to the display (McDaniel, 1894, 40).

THE CLIFF DWELLER

ON THE MUMMY DISPLAYED IN THE
UTAH STATE BUILDING, JACKSON PARK

Mute remnant of a long-departed race,
Perpetual sleeper from the entombed cliff,
That liest yucca-wrapped, immobile, stiff,
With shriveled limbs, and meager, shrunken face!

Robbed art thou now of thine athletic grace,
That laughed at dizzy heights, and urged thy skiff
O'er many a watery precipice, as if
Fear in thy naked bosom had no place.

Little didst thou dream, long centuries ago,
The white man's eyes should sometime gaze on thee,
Striving up curious interest to know
The secret of thy birth, eternally

Locked up within thy narrow, earth-worn shell,
Leaving thy tale for these poor tools to tell.

--St. George Best

The Utah materials seem not to have been gathered from areas overlapping with the McLoyd materials. In McDaniel (1894, 105-10) are noted the following areas from which collections were taken:

"...going to Willard, Box Elder County, the shore of Salt Lake west of Plain City, Box Elder Co., South Ogden, Provo and Payson, Paragonah [sic] ... opened the largest mound which I called the Royal Palace of Paragonah... St George area, along the Santa Clara, Rio Virgin and the Wicha Virgin River, Nine Mile Canyon, Emery Co. and San Juan County, from which was obtained 4 mummies of the extinct race. These were in a good state of preservation and with these was a large quantity of cloth, corn, pottery, cotton, implements of stone, bone, horn and wood owned, made and used by the lost race. From Platt D. Lyman, of Bluff City, Utah, we obtained the greatest part of this collection, upon agreement to return same to him at Salt Lake City, at the close of the fair... At the close of the exposition the entire collection was returned to Salt Lake City where it now lies in the Exposition Building, subject to the order of the Utah World's Fair Commission.

"The mummies and much of the other articles being the property of Platt D. Lyman, of Bluff City, it is expected that the state will buy them or turn them over to Dr. Talmage, of the Salt Lake Deseret [now Temple Square Museum] Museum" (McDaniel, 1894, 109-10).

It is fairly obvious from the above that the Utah Territory's exhibit was accumulated especially for the exhibit, was exhibited separately from any other Southwestern collection, and was returned to separate private owners or to (now) Temple Square Museum in Salt Lake City.

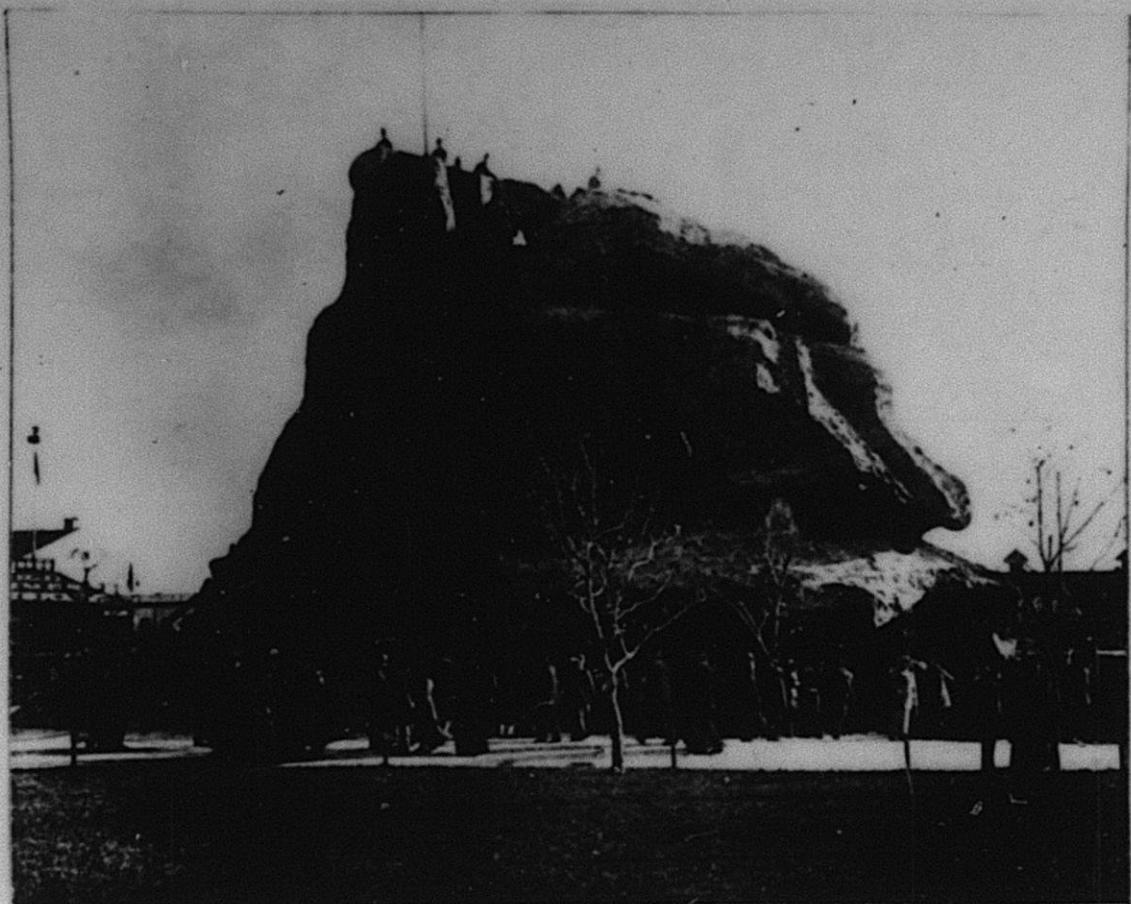
The disposal of the materials (those of the Territory of Utah excluded) that were shown at the Columbian Exposition is not clear-cut. This problem revolves around the material of the Colorado State display -- the first and fourth Wetherill collections. (The first was that sold for \$3000 to the Denver Historical Society; the fourth was material collected specifically for Colorado by the Arthur P. Wilmarth Expedition [Wetherill sponsored] in 1892.)

McNitt (1957, 56) says the material of the fourth expedition was displayed in the anthropological building at the Fair and was subsequently incorporated into the first collection at the Colorado State Museum in Denver (McNitt, 1957, 33). Also, in a statement prepared by Mason and signed by the Wetherills, Mason says, "The state collection was the last we made in Mesa Verde; after the Fair it was brought back to Colorado and is now in the State Museum at Denver" (McNitt, 1957, 326). A check with the Colorado State Museum indicates the collection is there. According to Orian L. Lewis (personal communication, November 1962) the Colorado State Historical Society's collection includes material from a) a Wetherill expedition to Mancos Canyon, 1888-89 and b) the Arthur F. Wilmarth Expedition to Mesa Verde, 1892. This latter collection, by Wilmarth for Wetherill and Mason, was made specifically for the State Historical Society of Colorado, being

purchased for approximately \$3000. The collection was sent to the Chicago World's Fair in 1893, but was returned to the Denver Museum shortly thereafter. There seems to be no profit in speculating too long about what actually happened. It is merely assumed here that the first and fourth Wetherill collections most probably now belong to the State of Colorado.

A different version of the disposition of the Colorado State Exhibit materials is related in a letter dated 14 May 1894, Los Angeles, from Hector Alliot (an agent of the then ailing Hazzard) to Stewart Culin (Appendix, Entry 5) re sale of the Hazzard Collection. "The C. D. Hazzard collection now comprises not only the whole of the collection exhibited at the mountain [the Battle Rock reproduction] but also [sic] in Entire [sic] Cliff Dwellers collection of the Colorado State Exhibited in the Anthropological Building. These two collections, now merged into one, form, as you know, a matchless exposé of the Cliff Dwellers civilization." It appears that Alliot was mistaken about the material included. Later, in an agreement between Hazzard and University Museum of Pennsylvania, Hazzard makes the same error (Appendix, Entry 6).

Green's exhibit is known to have been separate (above). The Colorado Southwestern exhibit material was exhibited in the Anthropological Building. The Hazzard material was located on the midway in the southern part of Jackson Park near the Anthropological Building. Here was a reconstruction of Battle Rock Mountain of the McElmo Valley (Fig. 1).



THE CLIFF-DWELLERS.—Near the Anthropological Building, in the southern part of the park, was the striking reproduction which is portrayed in the engraving. It represented Battle Rock Mountain, in the Mc Elmo Valley of Colorado. It had the appearance of rock and earth, though built of timbers, iron, steel, stone and boards, and all was used to simulate nature. The entrance was into a cavern, made to give the effects of a canyon, and in niches, high up, were the miniature houses of the ancient men who once peopled the mesas and table lands of the southwestern territories. These houses were built one-sixth of the real size, but portions of the real houses were also included, in order to give a clear and truthful impression to the visitor. In another room was a museum of relics, showing remains of the cliff-dwellers and their implements, weapons and pottery. The reader is to know that, ages ago, a people, for reasons unknown, sought niches in the cliffs, now hundreds of feet above the rivers, and there, in places almost inaccessible, built their houses and villages. ledges of rock were shown in a fallen state, with houses crushed beneath, and houses again built above them. Escalating paths led up the cliffs and through to the outer air, whence the visitor might ascend to the summit, as seen in the engraving. A fee of twenty-five cents was charged to enter this instructive exhibit, which was one of the worthiest entertainments of the Exposition.

Figure 1. Battle Rock of McElmo Canyon, reconstructed for the World's Columbian Exposition to house the Hazzard Collection display. (Photo courtesy of New York Public Library)

In niches of the mock mountain were cliff dwellings, 1/6 actual size, reconstructed as they had been found. Apparently, the "mountain" was hollow, in the form of a cavern; a trail led through to the top. In and on the mountain, the materials owned by Smith and/or Hazzard, the second Wetherill and McLoyd collections (?) and the Viets collection, were displayed for a fee of twenty-five cents per head.

According to Harvey P. Smith (personal communication, May 1962), Hazzard financed the midway exhibit and received his portion of the profits. Near the end of the Fair, H. Jay Smith fell seriously ill and from that time knew only that the entire collection was in Hazzard's possession.

After the close of the Fair, the Hazzard Collection was loaned to the University Museum of Pennsylvania. Negotiations were begun in May 1894, by Hector Alliot (an agent of Hazzard's) for sale of the material (then on loan to University Museum of Pennsylvania). The asking price was \$25,000 (Appendix, Entry 5). By March 1895 (Appendix, Entry 6) the price was reduced to \$15,000. In February 1896, the collection was sold to the University Museum of Pennsylvania for \$14,500 (Appendix, Entry 7). Money for the purchase was supplied by Phebe A. Hearst.

At the University Muscum of Pennsylvania, the Hazzard material was displayed in a converted bathhouse; later it was placed in storage. About 1901 Phebe Hearst made a selection (Appendix, Entry 2) from the original collection and donated it to the University of California at Berkeley. About 1930 the collection was cataloged into the University Museum of Pennsylvania

system by Edgar A. Howard and was again placed in storage, where it remains except for selected materials on display there, and a few pieces on loan to Mesa Verde National Park.

ARTIFACTS

The large number and range of artifacts in the Hazzard Collection precluded extensive analysis. Further, since provenience data were so general, little can be done regarding place of origin except to say that most are probably from Mesa Verde. Those collected by McLoyd represent a mixture of Mesa Verde and Kayenta branch artifacts since the Colorado River and its left bank tributaries are known to contain artifacts of both styles. However, the collection is predominantly of Mesa Verde branch origin.

The importance of the collection lies in volume and gross character. A few artifacts warrant special attention because they are either unique or are poorly represented in literature concerning the Anasazi. It should be remembered that the Mesa Verde occupants are not well known. While every Southwestern tourist is aware of the large prehistoric settlements there, few people have seen the rich inventory of artifacts removed from the ruins prior to protection and preservation by the National Park Service. Most sites had been so gutted that artifacts now in the possession of the Park Service are essentially the culls from a much richer tradition.

Because data are so limited, the artifact descriptions are abbreviated to tabular form (Table 1). The descriptions are frequently inadequate due both to the limited amount of time available to the author for examining the artifacts and to the necessity for brevity in presenting over 1800 artifacts.

Notes on Table 1.

In Table 1, artifact descriptions include three identifying numbers. The first is a University of Utah number (UU), which was assigned in the order artifacts were described and is included so the reader may refer more easily to illustrated artifacts.

The second number is the University Museum of Pennsylvania (UMP) catalog number (e. g., 29-44-100).

The third is any number (PN) assigned prior to the UMP number. These include notations by the collector (Wetherill, McLoyd, Smith) and any provenience data that were available. The PN designators are included against the possibility that the original catalog(s) may be found.

Occasionally, groups of very similar specimens, such as basketry fragments, have been considered together, and the numerical designators have been lumped (e. g., UU:19, a-g. UMP: 29-43-463 - 470) to avoid repetition of the same descriptive information.

Since only southwestern Colorado and southeastern Utah areas are involved, state designations alone (i. e., "Colorado," rather than "southwestern Colorado") are included. Specific provenience is enclosed within parentheses. When the UMP catalog card indicated only a general "southeast Utah or southwest Colorado" provenience, the designation "SW" is used.

Variations in photograph scale should not be used as a guide to relative size of specimens. Artifacts that were considered unusual, or for some other reason seemed important, have been enlarged when possible. Because of the proximity of artifact illustrations and descriptions, which include measurements, bar scales have not been included in the illustrations.

Most of the skeletal material was on loan to the Wistar Institute and was not examined, nor was the bulk of the ceramic collection examined. Some ceramic miniatures, figurines, discs, etc., are included. Of the larger ceramic collection, some sherds are now on loan to Pennsylvania State University; some sherds and vessels were analyzed by the Works Progress Administration.

There is ample reason to question the small amount of provenience data that were recorded. For example, the McLoyd expedition collected a great deal of Basketmaker material from Lake and Red canyons. Yet, with considerable work in these two areas by the University of Utah

(Lipe, et al., 1960; Sharrock, et al., 1961), no further Basketmaker material was found. Also, some items (e.g., burden and cradle bands) have not been found in the Glen Canyon during six years of intensive excavation by the University of Utah, but are listed as being from the Glen Canyon in this collection. Perhaps the majority are correct, but the few obviously incorrect notations cast some doubt on all.

Basketry

Woven. The majority of these baskets are woven in an under-three-over-three interval twill plaiting. Elements are attached to rim rings by being bent around the rim and secured in groups of two to four between twists of yucca leaves. A common variation of this technique is a woven band just below the rim around the exterior. Here, elements are woven diagonally back and forth, forming a 3/4 in.-wide band. Ends of exhausted elements terminate in the weave.

Decoration is rare; when it occurs it usually is a pattern formed by a weave interval shift or a simple geometric design created by use of colored elements.

Basket shape variation from a general bowl shape is minimal. Some tray-like forms, with maximum depth at one side, occur.

An unusual basket is a cornucopia form made from a single yucca plant. The plant was cut just above root level; 2 in. from the stalk, leaves are held separate, side by side, by a twined leaf. The leaves are then woven in under-two-over-two interval a distance of 1 1/2 in.; there, they are turned back left and right. The cup is similar to one illustrated by Kidder and Guernsey (1919, 110-11, Fig. 40).

Twined. The single twined basket in the collection is a large circular tray of flattened reed(?) elements.

Coiled. Coiled basketry comprises almost every known coiling technique. The predominant type, however, is two-rod-and-bundle bunched foundation, simple stitch, uninterlocked, stitch slant (/), normal center. There is a wide latitude in stitches per inch, almost none in coils per inch. (Terminology in Table 1 follows Morris and Burgh, 1941.) Two forms occur most commonly -- large cone-shaped carrying baskets used with burden straps, and small bowl shapes. Geometric designs occur on both, achieved by use of colored splints. An unusual method of decoration was by use of feather quills (or possibly slick-surfaced reed grass). Designs are usually simple, whether textural or of painted splints. On bowls, designs tend to be horizontal bands of varying elaborateness. One of the more elaborate vertical designs occurs on a carrying basket.

The majority fit the above descriptions, but a few unusual forms occur. No. 53 is stacked bundle and one-split-rod foundation; No. 54 is one-rod

foundation; No. 55 is one-rod foundation, interlocked stitch. In addition to baskets, there are numerous plaques. Frequently these were used as replacements for worn-out basket bottoms.

Cradleboards

Of five "cradleboards," only two are unequivocally cradleboards. Three are somewhat questionable. No. 97 is a crude oval affair with large-mesh yucca netting padded with corn tassels; No. 98 is approximately the same. Neither seems strong enough to have withstood usage as a cradleboard. The sunshade of No. 94 is fastened to the cradle in such a manner that use as a cradleboard is questionable.

Human remains

Several desiccated burials in the collection can be temporally associated with Basketmaker or Pueblo only on the basis of presence or absence of cranial deformation. Some are rather spectacular, but indicate little more than burial custom. One of the more interesting (No. 119) is an infant in a wrapper of yucca fiber rope which was seemingly woven around the body. Burial preparation seems usually to have been a shroud of twined yucca-fiber cloth or loom-woven cotton cloth, tanned skin, or fur or feather robes. Basket impression in the skin indicates they usually covered the head.

Cradle bands and burden straps

A large number of woven straps are considered cradle bands or

burden straps. Cradle bands are those with 4-6 in. -long toggle sticks, the ends of which were tied with cord to the cradle rim. Burden straps have loop ends, and are narrower and longer than cradle bands. Yucca fiber cordage warps and wefts seem to have been preferred. Some cradle bands are decorated; burden straps are occasionally skin-covered.

Sandals/footgear

The sandal classifications follow Kidder and Guernsey (1919, 101, 157). Prevalent type is I, a, 2 -- fine twill weaving of narrow-leaf yucca, shaped to the foot with a jog at the outside. Frequently a tread is created on the underside by twisting of elements. Heels are flat or cupped. If cupped, the pucker is achieved only by extra tightness of the weave at that point. Toe-heel and side-loop ties are approximately equal in frequency.

Type II, b and III, b twined sandals are the most intricately manufactured. Dating from the Pueblo and Basketmaker periods respectively, the techniques are similar but the over-all design differs. Type II, b sandals (Kidder and Guernsey, 1919, 101) are shaped to the foot; Type III, b Basketmaker sandals have square toes and heels.

Toes of the Basketmaker sandals are customarily fringed and wrapped with buckskin. Designs are simple bands of black and/or red. Toe-heel loop-ties predominate. None of these sandals have sole treads.

Type II, b sandals are twined, jog-toed and shaped to the foot (essentially duplicating in twining the type I, a, 2 sandal). Decoration is rare;

sole tread extends from heel to toe.

Scallop-toe sandals are seldom decorated. Heels are customarily cupped by the looped heel element. The heel and instep portions are done in a simple twine; in the twining of the front one-third of the sandal, wefts enclose two warps. A sole tread, created by extra twists of wefts on the underside, occurs only in the heel and instep portions.

In addition to two- and four-warp wickerwork in yucca leaf or crushed yucca leaf (Kidder and Guernsey, 1919, 101, Basketmaker Type I, b) and a few variants of odd weave or unusual material, such as feather cordage (No. 299), there are several sandals of an uncommon plain weave (under-one-over-one weave interval). Elements of these are wide leaf yucca.

Other footgear includes rawhide and buckskin sandals, a pair of buckskin boots, and coil-without-foundation stockings. The boots are of three-piece construction -- sole, vamp, and legging. Vamps are colored red.

Vessel supports

These are doughnut-shaped supports probably used for stabilizing round-based vessels. Some were permanently attached to the vessel by a yucca leaf netting secured at the bottom to the support ring and extending to the vessel neck. Two varieties were used: a) a core of shredded bark, yucca leaves, corn husks, etc. wrapped with cord, leaf or cambium,

and b) a much more elaborate variety -- which may have had a different function -- of woven yucca leaves.

Similar to the cruder vessel supports are three basketry-splint rings. These are willow or squawbush splints, stored in doughnut-shaped bundles, intended for use as basket elements.

Miscellaneous juniper bark artifacts

Miscellaneous objects of juniper bark include torches, usually a 1-2 in.-dia. wand of shredded cambium tied at one end with a strip of cambium and charred on the opposite end. Shredded bark also was woven into mats and in one instance (No. 426) was braided into a headband (?). Two large rings of juniper bark are similar to vessel supports, but are not -- since they are much too large.

Brushes

Brushes of stiff grass stems tied at the center probably functioned simultaneously in several capacities -- as brooms, hairbrushes, etc. One (No. 445), made of rice grass with the flowers intact, is too pliable to have had such use.

Artifacts of corn plant

Artifacts manufactured from or including the corn plant are fairly rare in this collection. Two (Nos. 446, 450) were used to suspend corn for drying. No. 446 is husks knotted at the tip ends. No. 450 is a yucca leaf

chain with parts of ears still in the links.

Miscellaneous objects of yucca

Miscellaneous objects manufactured from the yucca plant comprise a large variety. Most appear to be fragments from larger objects, but some are complete.

Wooden artifacts

Miscellaneous wooden artifacts include snare sticks, knife handles, trap trigger mechanisms, fire drills and hearths, spindles, weaving implements, ceremonial objects, a variety of wooden blocks (which probably served variously as lap-boards, umbilical pads, and pillows; several are perforated, possibly for suspension), and numerous wooden foreshafts from composite reed-and-wood arrows.

Some surprising wooden artifacts are in the collection. Bows (Nos. 572, 574, and 577) show extremely fine workmanship and finish. Considered one of the finest atlatls from the United States, No. 696 has been X-rayed and is described by Mason (1928, 302-10). Other unusual items are a rattle carved in the shape of a turtle shell (No. 706), a pair of wooden crutches -- poles with forked armrests that are padded with buckskin (No. 711), carved wands (Nos. 579-596), and a carved wooden spoon (No. 555).

Digging sticks range from simple pointed poles to elaborately and completely carved scythe-like ones, to a "crook" that could pass as a

modern walking stick.

Perishables and miscellaneous

Large mats of longitudinally split willow(?) twigs strung on yucca fiber cord were probably sleeping mats or door or window coverings. Flat facets are always turned in the same direction to form one flat and one rough surface.

Similar but smaller mats are made from reeds. Too fragile for sleeping mats, these may have been door and window coverings.

Pipes include conical, tubular, and bowl shapes. No. 753 is a composite of a wooden bowl and ground stone stem; No. 755 is a composite of a ground stone bowl and a bone stem.

Robes are of fur or feather, and fur and feather, although the combination within one robe is uncommon. No. 726 has an over-all geometric design created by use of brown and white feathers.

Loom woven materials comprise some of the masterpieces of aboriginal weaving (e. g., Nos. 776, 777). Most of the pieces in this collection have been analyzed and described by Kent (1957).

Ornaments and gaming pieces

Although there is a large number of ornaments, particularly necklaces and bracelets of excellent workmanship, few are particularly unusual. Bone, shell, seeds, and various stones are used as beads. Most shells are from the Gulf of California. Olivella predominates. Glycymeris

gigantea(?) shells are used as pendants or beads. For stringing, the hinge is perforated on smaller specimens; the center mound of the shell has been removed from the larger ones.

Bone was modified, by grinding to globular shape, into "double lobe" beads (Kidder and Guernsey, 1919, 150) or in the case of bird bone, was merely cut in segments to form beads.

The finest workmanship is seen in stone. One necklace (No. 824) includes several large cameo beads, both geometric and anthropomorphic. A stone pendant (No. 831) is a carved replica of a Trachycardium sp. (?) sea shell.

Bone artifacts

Awls. Awl categories (following Kidder, 1932, 211-22), based on the amount of working of the head of the bone, are self-explanatory. Splinter awls were made by sharpening a protuberance on a fortuitous bone fragment. Generally, larger awls have been trimmed most, probably as a simple expedient for ease of handling. Mammal (deer and mountain sheep) bone was most used, possibly because more was at hand than bird or rodent bone.

Flakers are differentiated from awls only in having blunter tips. Among both awls and flakers, unusual types occur, such as those made from mammal ribs, deer, or mountain sheep ulnae, etc., but these less common forms do not appear to be of any particular significance. Needles

are distinguished from awls and flakers by the presence of an eye near the butt end. Other bone items include knives, scrapers, shredding tools (used for separating the pulpy portion of yucca leaves from the fibers), drawshaves, polishers, bodkins, whistles, and numerous objects for which not even a guess at function is hazarded. Deer or mountain sheep (probably deer) humerii fleshers are numerous and are all similar except for size variation and incised geometric design on some.

Ground and pecked stone

Ground and pecked stone artifacts include mauls and axes, primarily the latter; several are hafted, affording a precise indication of hafting techniques.

The predominant ground stone ax type is made from a fortuitous river cobble. Mere chipping or grinding of a notch or groove and sharpening of one end resulted in a usable ax. The flatter the cobble, the less the necessity for grooving; frequently only the edge was notched, since full grooving would have weakened the ax. The thicker the ax, the more likely it was to be fully grooved. On one there were three fully encircling grooves. Ridges outlining the grooves are apparent on many axes. The zenith of excellence in craftsmanship occurs in three-quarter grooved axes. On these, a single groove is customary. Never is any portion of the original stone surface discernible, and the underside is always ground nearly flat. Most of the axes are single-bitted; double-bitted specimens

occur rarely and are of medium quality finish. On single-bitted specimens, butt end form is usually determined by the shape of the original stone -- modified usually by pecking marks from use as mauls. Occasional small hematite axes are probably ceremonial since they are too soft to have functioned as cutting tools.

Mauls generally follow the progression (no temporal implication) of excellence noted in axes, but are seldom as crude as the cruder axes. Frequently, ends are symmetrical, but just as frequently have only one working end. Unusual forms occur, such as a grooved sphere, one end painted red, the other black (No. 1160). Porous volcanic rock was occasionally used for mauls.

Judging from the crude cutting techniques indicated on even small sticks in the Southwest, effectiveness of the axes was none too good. Some ineffectiveness may be attributable to poor hafting. On the several hafted specimens no handle was longer than 15 in.; one was only 5 in. In the most common hafting technique, a green twig about 1/2 in. in dia. was bent around the ax, and the two equal-length ends were bound immediately below the ax or maul, and again at the butt of the handle, with cord or yucca leaf. On double-grooved specimens particularly, and on some single-grooved specimens (if the grooves were of sufficient width), the twig encircled the stone twice, and was bound to itself.

Other ground stone items are small bowls and/or mortars, from both porphyry (No. 1141a) and porous volcanic stone, a possible weight

(No. 1082), pipes, tcamahias, "sandal lasts" of unusually large size (Nos. 1115, 1120) and a miscellany of crystals, concretions, pot lids, and smoothed stones.

Perhaps the most unusual ground stone objects are two tablets (No. 1124, 5 1/2 by 4 1/2 in. and No. 1125, 12 by 11 in. [est.]) on which are incised geometric and anthropomorphic figures. The original tag of No. 1125 states, "Exact duplicates of the pictures on this tablet were found engraved on the wall of the cave in which it was found."

Manos (Nos. 1318-1390) were a common item, the most unusual aspect being the large number that were made from porous volcanic rock -- a wise selection, since periodic sharpening would thus be unnecessary.

Ceramics

The bulk of the massive ceramic collection was not studied; here only miniatures and a few small pieces are considered. Several crude miniature bowls and dippers are probably children's toys. A rattle (No. 1811) may be a toy. A black-on-white ceramic thunderbird (No. 1812), a small flat black-on-orange spotted reel-shaped object (No. 1821) and several worked sherds, probably pot scrapers and spindle whorls, are included.

Chipped stone

With the exception of a few pieces -- one or two chipped axes and some ground/chipped axes, scrapers and drills -- the collection is com-

posed of small arrow points or blades (stemless points). Approximately half are sufficiently large to be considered possible dart points, although this is questionable since they rarely exceed 2 in. in length.

In all size categories, points and blades are generally well made. As a group, they fall easily into the "class" categories in Sharrock, et al. (1960). There is one notable exception. A large number of small side-notched triangular points (with various names, dependent on locale within the U.S.) occur in the Hazzard Collection; in the Glen Canyon collections, these are rare.

Class descriptions are as follows:

Points

Class I. Small triangular corner-notched points, with expanding straight-based stems narrower than the blade. These are finely retouched on both faces and have thinned bases.

Class II. Medium-sized points with triangular or leaf-shaped blades, diagonal notches and expanding stems with straight or slightly convex bases. All are finely retouched on both faces.

Class III. Small triangular points with straight or convex sides, side notches, and stem equal to or wider than the blade. These are bifacially worked by fine flaking and have thinned bases.

Class IV. Miniature side-notched triangular points with concave base and small basal notch. These thin delicately made points are finely flaked on both sides and basally thinned.

Class V. Small to medium triangular points with deep diagonal side notches and diagonal spurs slightly narrower than the blade. The base of these finely flaked points is concave and sharply beveled. They show pressure flaking on both sides.

Blades

Class I. Small, narrow triangular blades with concave bases.

All are finely flaked on both faces and have thinned bases.

Class II. Miniature triangular blades with straight or slightly convex sides and straight bases. All have beveled or thinned bases. Most are made from flakes only slightly retouched on inner face.

Class III. Small triangular straight-based blades with straight or slightly convex edges. All have basal thinning; most show fine flaking on both faces.

Class VIII. Medium-sized leaf-shaped finely flaked blades with rounded bases. There is a variation from controlled parallel flaking to crude irregular flaking.

Class XI. Small to medium concave-based leaf-shaped blades, with uneven worked edges, thick and roughly flaked on both sides.

Class XII. Small to medium blades that are generally leaf-shaped with straight or slightly concave bases. Some fine flaking, but not well-finished; crude asymmetrical appearance.

BASKETRY

Woven

UU: 1. UMP: 29-43-441. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-three-over-three interval; rim dia. 6 3/4 in.; depth 2 in.; bent twig rim; exterior rim band 3/4 in. wide, under-one-over-one interval; cord handle.

UU: 2. UMP: 29-43-442. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-three-over-three interval; rim dia. 5 1/2 in.; depth 2 1/2 in.; twig rim; exterior rim band 5/8 in. wide, under-one-over-one interval.

UU: 3. UMP: 29-43-451. PN:--. Prov.: Colorado (Navajo Canyon).

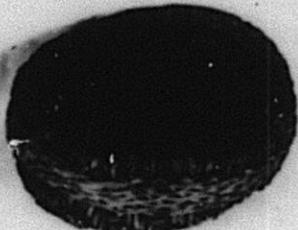
Description: Ring basket. Yucca leaf elements; checker weave, chevron pattern; under-two-over-two interval; rim dia. 6 1/4 in.; depth 1 1/2 in.; unpeeled twig rim.

UU: 4. UMP: 29-43-450. PN: 56. Prov.:

Colorado (Navajo Canyon).

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-three-over-three interval; rim dia. 6 in.; depth 2 3/4 in.; peeled twig rim; exterior rim band 1 in. wide; under-one-over-one interval. Decoration: black elements woven with natural in cross directions.

Fig. 2. Ring basket (UU:4).



UU: 4, a. UMP: 29-43-439. PN:--. Prov.: Utah (Lake Canyon).

Description: Ring basket. Mixed twill weave, design created by using black and yellow(?) yucca leaves. (MVNP).

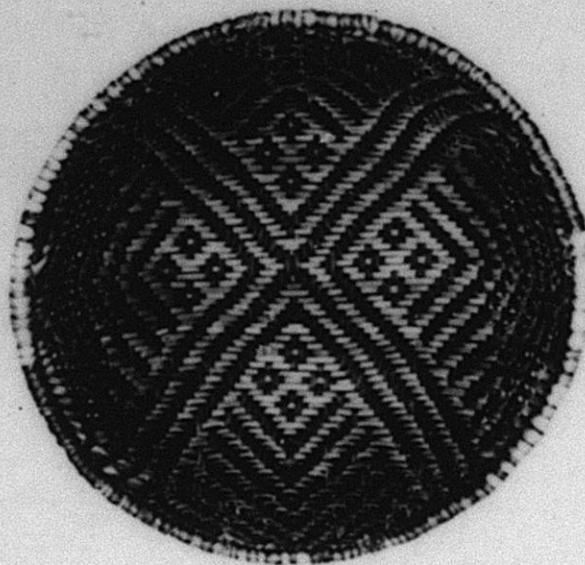


Fig. 3. Black and yellow(?) ring basket from Lake Canyon, Utah (UU:4, a.).

UU: 5. UMP: 29-43-440.

PN: 47. Prov.: Colorado (Navajo Canyon).

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-three-over-three interval; rim dia. 6 in.; depth 2 1/2 in.; exterior rim band 3/4 in. wide, under-one-over-one interval.

UU: 6. UMP: 29-43-446. PN: B-30. Prov.: Utah.

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-three-over-three interval; mixed weave; peeled twig rim; exterior band, under-one-over-one interval. Bottom missing.

UU: 7. UMP: 29-43-415. PN:--. Prov.: Utah (Deep Canyon). "Found in cave with Basketmaker mummy."

Description: Ring basket; flat. Yucca leaf elements; weave begins at rim

with under-three-over-three herringbone twill shifting to under-two-over-two plaiting to under-three-over-three; bottom is under-two-over-two, patched with under-three-over-three interval weave; rim dia. 15 in.; depth 4 1/2 in.; peeled twig rim. Decoration consists of black and natural elements. In plaited portions this creates alternate colored elements but there is no patterning in herringbone twill portions. Basket complete.

UU: 8. UMP: 29-43-436. PN:--. Prov.: Utah.

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-three-over-three interval; rim dia. 11 in.; depth 4 1/2 in.; unpeeled twig rim; exterior rim band 1 in. wide, under-two-over-two interval.

UU: 9. UMP:--. PN:--. Prov.: Utah.

Description: Ring basket. Yucca leaf elements; herringbone twill; under-three-over-three interval; rim dia. 10 in.; depth 3 3/4 in.; peeled twig rim; element butt ends woven toward center.

UU: 10. UMP: 29-43-438. PN: D-19. Prov.: Utah.

Description: Ring basket. Yucca leaf elements; herringbone twill; under-three-over-three interval; rim dia. 14 in.; depth 5 in.; peeled twig rim. Vague pattern created by natural and dark elements.

UU: 11. UMP: 29-43-452. PN:--. Prov.: SW.

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-

three-over-three interval; peeled twig rim; rim dia. 12 in.; depth 4 in.

UU: 12. UMP: 29-43-453. PN:--. Prov.: SW.

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-three-over-three interval; rim dia. 15 in.; max. depth 4 1/2 in., occurring along one edge; opposite edge is flat. Along flat edge elements are looped over rim at their center and woven in from top to bottom. Exterior rim band 1 in. wide, woven in under-one-over-one interval.

UU: 13. UMP: 29-43-448. PN: 66-1-8. Prov.: SW.

Description: Ring basket. Yucca leaf elements; herringbone pattern; under-three-over-three interval; rim dia. 12 in.; depth 4 1/2 in.; construction and shape same as No. 12 above; exterior rim band 3/4 in. wide, woven in under-one-over-one interval.

UU: 14. UMP:--. PN:--. Prov.: SW.

Description: Ring basket. Yucca leaf elements; herringbone weave; under-three-over-three in walls; bottom has 4 quadrants formed by increasing interval at 4 points along edge of bottom and at the center; rim dia. 15 in.; depth 4 1/2 in.; exterior rim band 1 in. wide, under-one-over-one interval.

UU: 15. UMP: 29-43-461. PN:--. Prov.: Utah.

Description: Ring basket. Yucca leaf elements; herringbone pattern; weave interval under-three-over-three forming scallop pattern adjacent to rim; weave varies from scallops to stacked chevrons; exterior rim band 1 in. wide.

UU: 16. UMP: 29-43-461. PN:--. Prov.: SW.

Description: Ring basket; fragmentary. Approx. 18 in. dia.; herringbone pattern; under-three-over-three twill.

UU: 17. UMP: 29-43-460. PN: E-130. Prov.: SW.

Description: Ring basket or mat; fragment. Yucca leaf elements; approx. 10 in. dia.; depth 1/2 in.; under-three-over-three interval; herringbone pattern.

UU: 18. UMP: 29-43-409. PN:--. Prov.: Utah.

Description: Ring basket. Yucca leaf elements; under-two-over-two interval; dia. approx. 4 1/2 in.; depth 1/2 to 1 in. Pattern indistinguishable, possibly child's work.

UU: 19, a-g. UMP: 29-43-463 - 470. PN:--. Prov.: SW.

Description: Ring basket and basketry or sandal fragments. Twill plaited, under-three-over-three in herringbone patterns.

UU: 20. UMP: 29-43-444. PN:--. Prov.: SW.

Description: Ring basket. Yucca leaf elements, under-three-over-three interval; rim dia. 6 in.; depth 3 1/2 in.; diamond pattern.

UU: 21. UMP: 29-43-790. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Cornucopia-shaped basket woven from single yucca plant. Stalk cut below leaves; leaves woven under-two-over-two for 1 1/2 in.

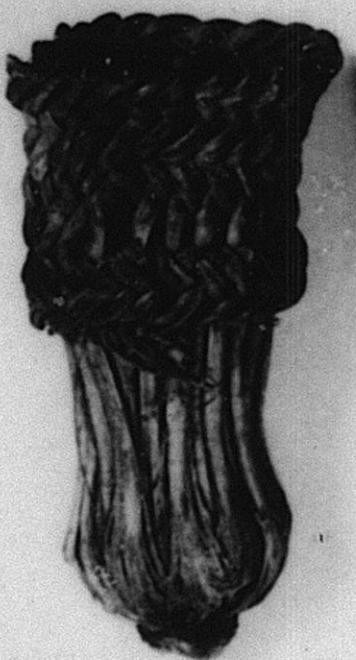


Fig. 4. Cornucopia-shaped basket woven from single yucca plant (UU:21).

distance, doubled back into the weave; separate twined leaf holds elements apart; total height 3 3/4 in.; depth 2 1/2 in.; rim dia. 2 in.

UU: 22. UMP: 29-43-454. PN:--.

Prov.: Not indicated.

Description: Twined tray. Reed elements; no less than 24 in. dia.; depth up to 8 in.; probably basin-shaped. Elements are added to walls for expansion. Fragment.

UU: 23. UMP: 29-43-472. PN:

B-75. Prov.: Utah.

Description: Twilled bag, compartmented; fragmentary. Under two-over-two interval, narrow (1/8 in.) elements tightly woven; width 7 in.; height (incomplete) 9 in.; Two divider walls interwoven at base with exterior walls; cord handle.

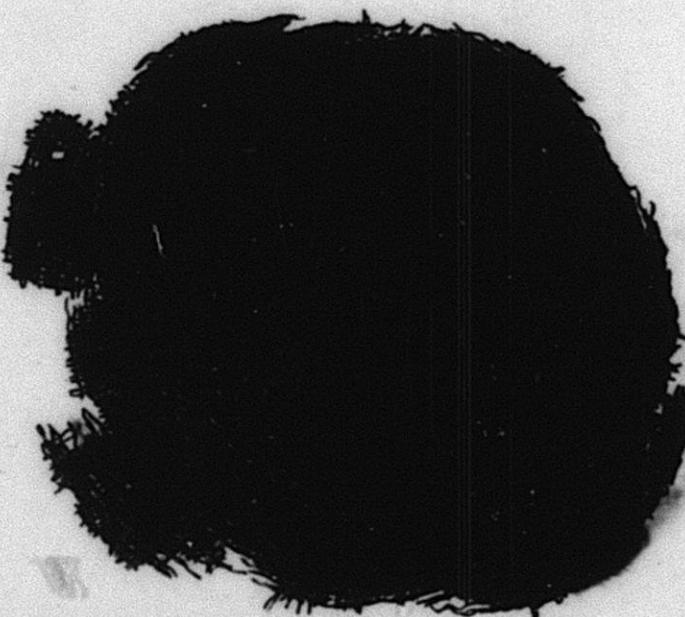


Fig. 5. Twined tray (UU:22).

UU: 24. UMP:--. PN:--. Prov.: Utah. "Basketmaker."

Description: Twilled bag; fragment. Elements unidentified grass; foundation is 1 in. dia. fiber ring; under-two-over-two interval with one-row shifts to under-three-over-two breaking pattern; length 11 1/2 in.; width 5 1/2 in.

UU: 25. UMP: 29-43-116. PN: H-5. Prov.: SW.

Description: Twined bag fragment.

UU: 26. UMP: 29-43-779. PN: H-9. Prov.: Not indicated.

Description: Twined shroud or bag; fragment.

UU: 27. UMP: 29-43-778, 780, 776. PN: H-8, 10. Prov.: SW.

Description: Twined bag fragment. Black, red and natural horizontal bands.

UU: 28. UMP: 29-43-777. PN: H-6. Prov.: SW.

Description: Twined bag fragment. Zigzag black, red and natural grouped as horizontal bands on natural.

UU: 29. UMP: 29-43-773. PN:--. Prov.: SW.

Description: Coil-without-foundation bag fragment. Two-ply yucca fiber elements.

UU: 30. UMP: 29-43-771, 774, 775. PN: H-12. Prov.: Utah (Red Canyon).

Description: Twined bag; bottom fragment. Cylindrical with tapered bottom; dia. 5 in.; depth 4 1/2 in. Black, red and black grouped as horizontal band

on natural background. Incomplete.

40.

UU: 31. UMP: 29-43-109. PN: H-46. Prov.: SW.

Description: Twined bag. Red and black horizontal bands; top dia. 8-9 in., expanding to base as shopping bag. Loop handles at opening spaced at 2 in. intervals.

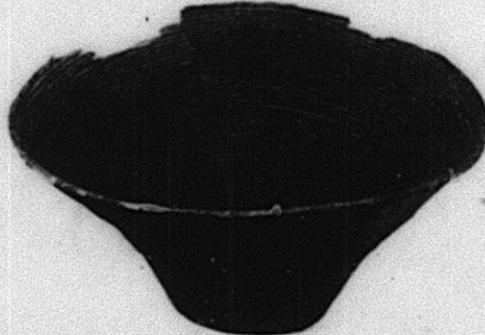
Coiled

UU: 32. UMP:--. PN: D-6. Prov.: SW.

Description: Coiled conical carrying basket. Top dia. 28 in.; depth (incomplete) 12 in.; two-rod-and-bundle bunched foundation; close coiling, uninterlocked; 5 coils, 10 stitches per in.; (/). Yucca fiber cordage handle.

UU: 33. UMP: 29-43-434. PN:--. Prov.: Utah.

Description: Coiled conical carrying basket. Top dia. (incomplete?) 14 in.; contracting to 4 in. at fragmented base; depth (incomplete) 9 1/2 in.; two-



rod-and-bundle bunched foundation; close coiling, uninterlocked; 5 coils, 8-10 stitches per in.; (/).

Design: Black and/or red on natural, triangles between lines radiating from base.

Fig. 6. Decorated conical carrying basket (UU:33).

UU: 34. UMP: 29-43-414. PN:--. Prov.: Utah.

Description: Coiled basket; repaired. Bowl-shaped; top dia. 11 1/2 in.;

depth (incomplete) 3 in.; coiled plaque base sewed to sides around corn husk foundation. Three-rod bunched foundation; uninterlocked, simple stitch; 4 coils, 12 stitches per in.; (/). Plaque base: three-rod stacked foundation, uninterlocked simple stitch; (/); 2 1/2 coils, 8 stitches per in.

UU: 35. UMP: 29-43-423. PN: D-25. Prov.: Utah (cave in Colorado River Canyon). "Found with mummified skull of Basketmaker child." See also Weltfish, 1932, 24.

Description: Coiled bowl. Top dia. 12 1/2 in.; depth 4 1/2 in.; two-rod-and bundle bunched foundation; uninterlocked, simple stitch (/); 5 coils, 13 stitches per in.; normal center.

UU: 36. UMP: 29-43-430. PN: 55. Prov.: Colorado (Navajo Canyon).

Description: Coiled bowl; incomplete. Top dia. approx. 13 in.; depth approx. 4 1/2 in.; three-rod bunched foundation ("triangular foundation," Weltfish, 1932, 17); simple stitch, uninterlocked; (/); 4 coils, 12 stitches per in.

UU: 37. UMP: 29-43-433. PN: 54. Prov.: Colorado (Navajo Canyon cliff house).

Description: Coiled bowl; incomplete. Top dia. 13 1/2 in.; depth 4 1/2 in.; three-rod bunched foundation; uninterlocked simple stitch; 3 coils, 7 stitches per in.; (/); normal center.

UU: 38. UMP:--. PN:--. Prov.: Utah.

Description: Coiled bowl. Top dia. 12 1/2 in.; depth (incomplete) 4 1/2 to 5 in.; two-rod-and-bundle foundation; simple stitch, uninterlocked; 4 coils, 12 stitches per in.; normal center; (/); Bottom repaired with coiled plaque of identical construction. Red and black decoration: squares set corner to corner extending diagonally up and down basket walls. Black squares are 2 coils, 8 stitches high and wide.

UU: 39. UMP: 29-43-424. PN:--. Prov.: Utah.

Description: Coiled bowl. Top dia. 13 1/2 in.; depth 5 1/2 in.; two-rod-and-bundle foundation; uninterlocked, simple stitch (/); 4 coils, 13 stitches per in.; normal center; flat rim created by two parallel two-rod foundation coils finished by cross-stitch. Red design in band at top and then diagonal columns extending toward center. Base covered with pitch-impregnated woven cloth.

UU: 40. UMP: 29-43-459. PN:--. Prov.: SW.

Description: Coiled bowl; incomplete, rim absent. Top dia. 13 1/2 in.; depth 3 1/2 in.; two-rod-and-pith strip; uninterlocked simple stitch; normal center; 4 coils, 14 stitches per in.; (/). Complicated red and/or black geometric design near rim.

UU: 41. UMP: 29-43-465. PN:--. Prov.: SW.

Description: Coiled basket; fragmentary. Two-rod-and-bundle foundation;

simple stitch, uninterlocked; 5 coils, 13 stitches per in. Indiscernible pattern in red and black.

UU: 42. UMP:--. PN: B-36. Prov.: Utah.

Description: Coiled basket. Top dia. 8 1/2 in.; depth 2 1/2 in.; two-rod-and-pith (or split twig) foundation; simple stitch, uninterlocked (/); 2 coils, 13 stitches per in. (see Weltfish, 1932, 25).

UU: 43. UMP: 29-43-417. PN:--. Prov.: Utah. "From cave near junction of San Juan and Colorado rivers; found with Basketmaker skull and bead necklace."

Description: Coiled bowl. Rim dia. 7 1/2 in.; depth 3 1/4 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocked; 5 coils, 8 stitches per in.; rim finished by criss-cross sewing.

UU: 44. UMP: 29-43-416. PN:--. Prov.: Utah.

Description: Coiled bowl; fragment, rim missing. Top dia. 8 in.; depth 2 1/2 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocked (/); 6 coils, 10 stitches per in.

UU: 45. UMP: 29-43-421. PN: D-14. Prov.: Utah (Colorado River Canyon).

Description: Coiled bowl; rim missing. Top dia. 10 in.; depth 4 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocked (/); 5 coils, 9 stitches per in. Interior sealed with pitch; traces of red and/or black design; remnant of string handle (see Weltfish, 1932, 20).

UU: 46. UMP: 29-43-427. PN: D-12. Prov.: Utah (Lost Canyon).

Description: Coiled basketry fragment. Two-rod-and-bundle bunched foundation; simple stitch, uninterlocked (/); 5 coils, 22 stitches per in.

UU: 47. UMP: 29-43-419. PN: D-21. Prov.: Utah (Lake Canyon). "With Basketmaker mummy" (No. 103).

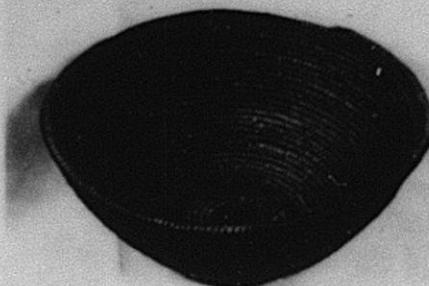


Fig. 7. Coiled bowl from Lake Canyon, Utah (UU:47).

Description: Coiled bowl. Rim dia. 10 1/4 in.; depth 4 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocked; normal center; 5 coils, 7 stitches per in.

UU: 48. UMP: 29-43-431. PN: B-42.

Prov.: Colorado (Navajo Canyon).

Description: Coiled, cylindrical, flat-based basket; rim absent. Dia. 9 1/2 in.; base dia. 8 in.; depth 3 3/4 in.; three-rod bunched foundation; simple stitch, uninterlocked (/); normal

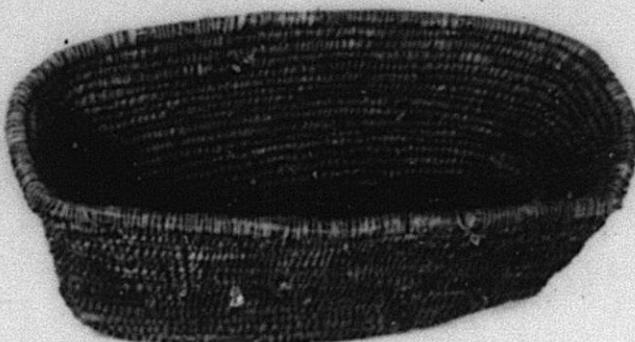


Fig. 8. Oblong coiled basket from Lake Canyon, Utah (UU:49).

center; 6 coils (4 in base plaque), 7 stitches per in.

UU: 49. UMP: 29-43-429.

PN: D-11. Prov.: Utah (Lake Canyon).

Description: Coiled basket. Oblong, 11 x 5 x 4 1/2 in.

deep; oval base with squared corners. Two-rod-and-bundle bunched foundation; simple stitch, uninterlocked (/); 4 coils, 8 stitches per in. (see Weltfish, 1932, 25).

UU: 50. UMP: 29-43-428. PN:--. Prov.:

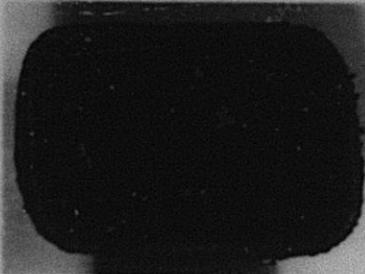


Fig. 9. Miniature oblong coiled basket (UU:50).

Colorado (Navajo Canyon).

Description: Coiled basket. Oblong, 3 1/4 x 2 1/4 x 1 1/4 in. deep; one-rod foundation; simple stitch, uninterlocked; 7 coils, 11 stitches per in. Small feather(?) quill pieces protrude through body.

UU: 51. UMP:--. PN: D-22.

Prov.: Utah (Lake Canyon).

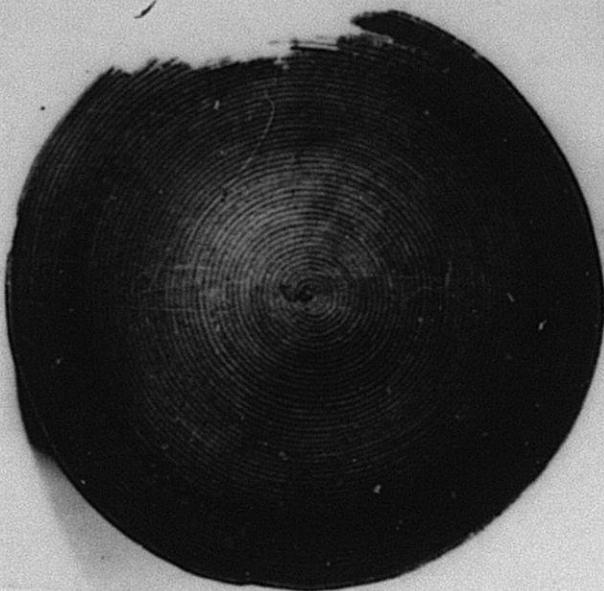


Fig. 10. Decorated coiled tray (UU:51).

~~---~~ Description: Coiled oval tray. Dia. 18 1/2 in.; depth 6 in. max. (max. occurs near edge); two-rod-and-bundle bunched foundation; simple stitch, uninterlocked (/); normal center; 5 coils, 10 stitches per in. Horizontal band design: zigzag, 2 in. from rim in red (or black).

Single coil next to rim, solid color.

UU: 52. UMP: 29-43-435. PN:--. Prov.: Utah.

Description: Coiled tray. Dia. 13 1/4 in.; depth 4 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocked (/); 6 coils, 10 stitches per in.; normal center. Decoration: zigzag black or red horizontal band, two coils at base of wall solid color.

UU: 53. UMP:--. PN:--. Prov.: Not indicated.

Description: Coiled bowl. Rim dia. 8 1/4 in.; depth 3 in.; stacked-bundle-and-split-rod foundation; simple stitch, uninterlocked (/); normal center; 5 coils, 5 stitches per in.

UU: 54. UMP: 40-31-2a. PN:--. Prov.: San Juan River Valley (collected 1932 by H. E. Montross).

Description: Coiled bowl. Dia. 11 in.; depth 3 in.; one-rod foundation; simple stitch, uninterlocked (/); normal center; 4 coils, 5 stitches per in.

UU: 55. UMP: 29-43-456. PN:--. Prov.: SW.

Description: Coiled basket wall segment. One-rod foundation; simple stitch, interlocking (/); rim finished with horizontally parallel coils.

UU: 56. UMP: 29-43-457. PN:--. Prov.: SW.

Description: Coiled tray. Dia. 11 in.; depth 1 in.; three-rod bunched foundation; interlocked, simple stitch; normal center. Decoration: split feather quills or hard-surface grass sewn in quadrants around walls.

UU: 57. UMP: 29-43-389. PN:--. Prov.: Utah.

Description: Coiled tray or lid. Dia. 7 in.; two-rod-and-split-rod bunched foundation; uninterlocked simple stitch (/); normal center; edge finished flat by omitting split rod from foundation of rim coil. Decoration: red splints and feather quills or water grass in horizontal, irregular, geometric band.

UU: 58. UMP: 29-43-458. PN:--. Prov.: SW.

Description: Coiled tray; center missing. Dia. 13 1/2 in.; two-rod-and-split-rod bunched foundation; simple stitch, uninterlocked (/); 5 coils, 12 stitches per in.; rim finished with interlocking stitches.

UU: 59. UMP: 29-43-426. PN: D-13. Prov.: Utah (Lost Canyon).

Description: Coiled basket; center missing. Dia. approx. 6 1/4 in.; depth 2 1/2 in.; single-rod foundation; simple stitch, uninterlocked (/); 5 coils, 5 stitches per in.

UU: 60. UMP: 29-43-403. PN:--. Prov.: Not indicated.

Description: Coiled basket wall fragment. Two-rod-and-split-rod foundation; simple stitch, uninterlocked (/); 5 coils, 14 stitches per in.

UU: 61. UMP: 29-43-396. PN:--. Prov.: Utah.

Description: Coiled basketry fragment, center segment (?) from tray.
Dia. 5 1/2 in.; single bundle foundation; uninterlocked, simple stitch (/);

5 coils, 10 stitches per in. Center formed around splint coil; dia. 3/4 in.

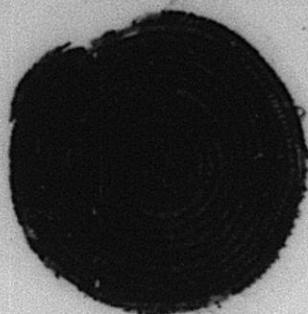


Fig. 11. Coiled basketry plaque or basketry fragment (UU:61).

ter; 3 coils, 10 stitches per in. Rim finished with two rods laid horizontally parallel. Decoration: red; sewn bird feathers or water grass.

UU: 62. UMP: 29-43-

394. PN:--. Prov.:

Utah.

Description: Coiled tray. Dia. 12 3/4 in.; depth 1 1/4 in.; two-rod stacked foundation; simple stitch, uninterlocked (/); normal cen-

UU: 63. UMP: 29-43-391. PN:--. Prov.: Utah.

Description: Coiled basket fragment (basket base). Dia. 8 1/2 in.; two-rod-and bundle foundation; simple stitch, uninterlocked; normal center; 5 coils, 10 stitches per in. Exterior pitch covered.

UU: 64. UMP: 29-43-410. PN:--. Prov.: Utah.

Description: Coiled base patch from basket. Dia. 8 1/2 in.; one-rod-and-bundle stacked foundation; simple stitch, uninterlocked (/); 5 coils, 13 stitches per in. Extensive repairing with crudely sewn splints.

UU: 66. UMP: 29-43-390. PN:--. Prov.: Utah.

Description: Coiled center basket fragment. Dia. 1 in.; normal center, two-rod bunched foundation; simple stitch, uninterlocked (/).

UU: 67. UMP: 29-43-462. PN:--. Prov.: SW.

Description: Coiled basketry fragment. One-rod foundation; uninterlocked simple stitch (/); 5 coils, 8 stitches per in.

UU: 68. UMP: 29-43-422. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Coiled basketry fragment. Two-rod-and-bundle bunched foundation; simple stitch, uninterlocked (/); 4 coils, 12 stitches per in.

UU: 69. UMP: 29-43-401. PN:--. Prov.: Utah.

Description: Coiled basketry fragment. Three-rod bunched foundation; simple stitch, uninterlocked (/); 3 1/2 coils, 10 stitches per in.

UU: 89. UMP: 29-44-317. PN:--. Prov.: SW.

Description: Coiled basket bottom. Dia. 6 1/2 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocked.

UU: 90. UMP: 29-43-432. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Coiled basket. Dia. approx. 8 in.; depth 3 in.; two-rod-and-bundle stacked foundation; simple stitch, uninterlocking (?).

UU: 91. UMP: 29-43-412. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Coiled basket; flat based. Dia. 6 in.; depth 5 in.; two-rod-and-bundle foundation; simple stitch, uninterlocked (/); normal center.

Decoration: Black base and series of black triangles around basal portion of wall.

UU: 93. UMP: 29-43-418. PN: D-4. Prov.: Not indicated.

Description: Sifter basket. Rim dia. 6 in.; depth 3 in.; one-rod foundation; spaced coiling intricate stitch, interlocked.

UU: 65. UMP: 29-43-393. PN:--. Prov.: Utah.

Description: Coiled plaque. Dia. 9 3/4 in.; foundation varies from three-rod-stacked to two-rod-and two-ply yucca fiber cord bunched; 1 1/2 coils, 9 stitches per in.; simple stitch, uninterlocked (/). Extremely crude; traces of pitch on underside.

UU: 70. UMP: 29-43-392. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat. Dia. 6 1/2 in.; one-rod foundation; simple stitch, interlocking (/); normal center; 6 coils, 6 stitches per in.

UU: 71. UMP: 29-43-387. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat. Dia. 5 1/2 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (\); normal center; 4 coils, 6 stitches per in.

UU: 72. UMP: 29-43-386. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 6 in.; one-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 10 stitches per in.

UU: 73. UMP: 29-43-395. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 5 3/4 in.; three-rod bunched foundation; simple stitch, uninterlocking (/); normal center; 4 coils, 14 stitches per in.

UU: 74. UMP: 29-43-495. PN:--. Prov.: Not indicated.

Description: Coiled plaque; circular, flat (incomplete). Dia. 5 3/4 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 10 stitches per in.

UU: 75. UMP: 29-43-404. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 4 1/2 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 14 stitches per in.

UU: 76. UMP: 29-43-402. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 4 1/2 in.; two-rod-and-reed bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 13 stitches per in.

UU: 77. UMP: 29-43-425. PN:--. Prov.: Utah (Lake Canyon).

Description: Coiled plaque; circular, flat (incomplete). Dia. 5 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 12 stitches per in.

UU: 78. UMP: 29-43-407. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 5 in.; three-rod bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 13 stitches per in.

UU: 79. UMP: 29-43-397. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 4 in.; two-rod-and-split-rod bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 14 stitches per in.

UU: 80. UMP: 29-43-388. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 4 1/8 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/); 5 coils, 20 stitches per in.

UU: 81. UMP: 29-43-406. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 3 3/4 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 15 stitches per in.

UU: 82. UMP: 29-43-420. PN: D-2. Prov.: Utah (Colorado River Canyon).

Description: Coiled plaque; circular, flat (incomplete). Dia. 3 3/4 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/); normal center; 5 coils, 8 stitches per in.

UU: 83. UMP: 29-43-408. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 5 3/4 in.; two-rod-and-bundle stacked foundation; simple stitch, uninterlocking (/); 3 1/2 coils, 13 stitches per in.

UU: 84. UMP: 29-43-399. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 3 1/2 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/); normal center; 4 coils, 15 stitches per in.

UU: 85. UMP: 29-43-398. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 3 1/2 in.; single-rod foundation; simple stitch, interlocking (\); normal center; 4 coils, 8 stitches per in.

UU: 86. UMP: 29-43-400. PN:--. Prov.: Utah.

Description: Coiled plaque; circular, flat (incomplete). Dia. 3 1/2 in.; three-rod bunched foundation; simple stitch, uninterlocking (/); normal center; 4 coils, 9 stitches per in.

UU: 87. UMP: 29-43-759. PN: D-27. Prov.: Utah (Lost Canyon).

Description: Coiled plaque; circular, flat. Dia. 3 in.; stacked rod-and-bundle foundation; simple stitch, uninterlocking (/).

UU: 88. UMP: 29-43-760. PN: D-27. Prov.: Utah.

Description: Coiled plaque; circular, flat. Dia. 3 in.; two-rod-and-bundle bunched foundation; simple stitch, uninterlocking (/).

UU: 92. UMP: --. PN:--. Prov.: Not indicated.

Description: Coiled plaque. Dia. 7 in.; two-rod-and-bundle foundation; simple stitch, uninterlocked; normal center; spaced coiling.

CRADLEBOARDS

UU: 94. UMP: 29-43-951. PN:--. Prov.: SW.

Description: Cradleboard. Guitar shaped; unpeeled ring; cross pieces are 1/4 in. dia. peeled twigs held to ring by woven matting of under-four-over-four interval; central support row 4 in. wide of similar sticks; max. length 23 1/4 in.; max. width 16 1/2 in.; upper (expanded) end has back sunshade forming closed oval, attached permanently; shade is 11 in. high. Use as cradle is questionable since there is no logical manner for placing the infant unless the shade's lower edges were once untied.

UU: 95. UMP: 29-42-384. PN:--. Prov.: Utah.

Description: Cradleboard. Guitar shaped; unpeeled twig rim covered with matting, upper 2/3. Cross-sticks of upper 2/3 held by matting to rim; back support consists of 8 sticks extending from head but terminating short of foot, held to cross pieces by cordage ties woven in zigzag pattern.

Length 25 in. max.; max. width 14 in. (For photo see Museum Bulletin (UMP), Vol. 1, No. 4, 1932, Pl. IX.)

UU: 96. UMP: 29-43-383. PN:--. Prov.: Utah (cave on Colorado River).

Description: Cradleboard. Length 18 in.; max. width 10 in.; rim of two twigs forming oval flattened at head. Cross pieces extend to within 3 in.

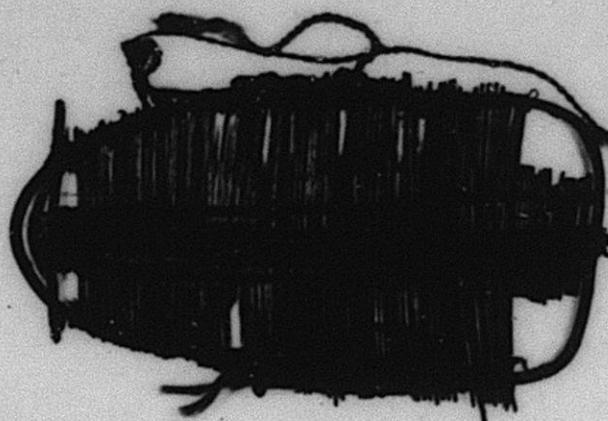


Fig. 12. Cradleboard (UU:96).

of either end but do not reach either side; 8 back support sticks are attached to the head rim and to a cross stick at the foot, and are attached to the cross pieces with a continuous zigzag tie.

UU: 97. UMP: 29-43-197. PN:--. Prov.: SW.

Description: Cradleboard (?). Oval, 18 and 13 1/2 in. dia.; unpeeled twig rim; four yucca leaves spaced lengthwise and six crosswise are twisted at each juncture to form the body. A heavy matting (up to 1 1/2 in. thick) is

composed of corn tassels laid across, butt ends all to the same side. A yucca fiber cord extending diagonally across holds matting to net.

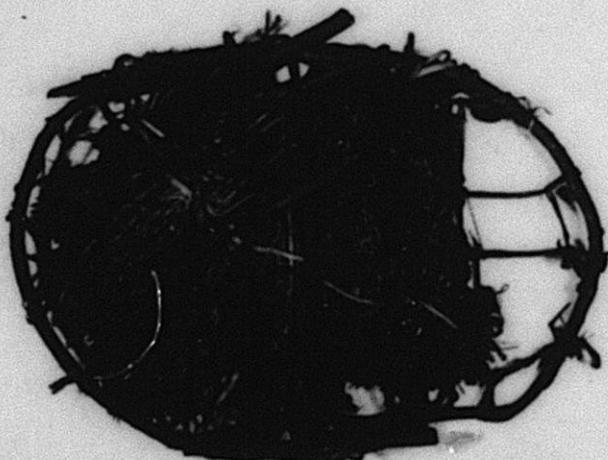


Fig. 13. Oval cradleboard (?), padded (UU:97).

UU: 98. UMP: 29-43-385. PN:--. Prov.: Utah.

Description: Cradle (?). Oval; 22 1/2 and 15 in. dia.; yucca leaf network; 2 in. squares, on unpeeled twig rim.

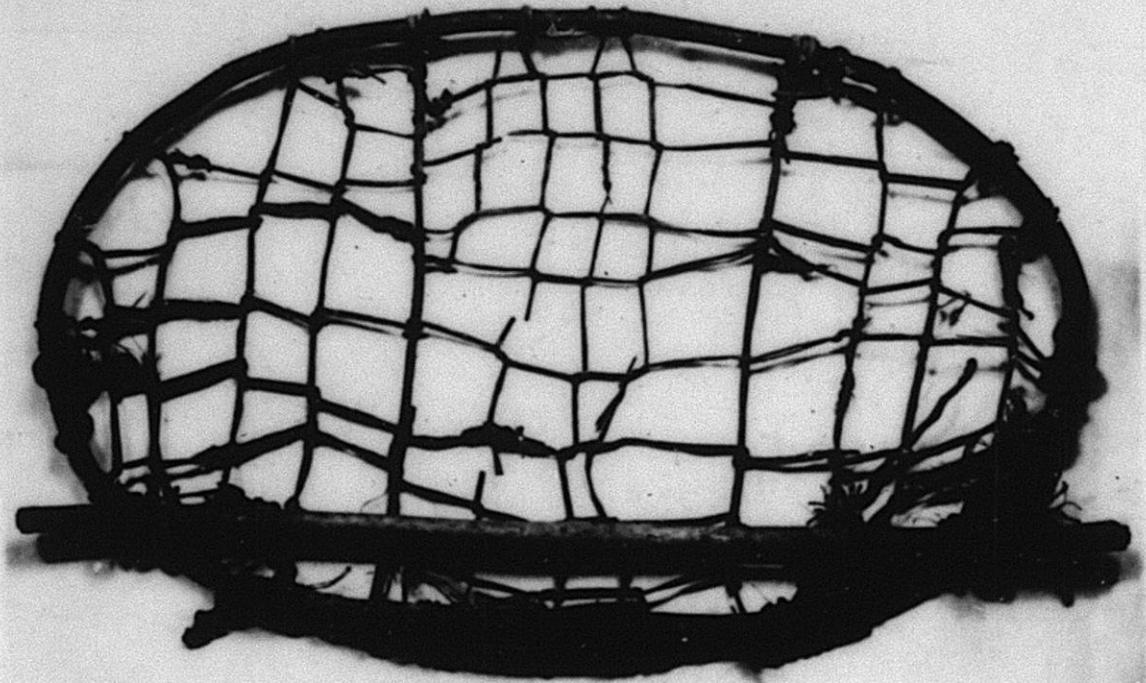


Fig. 14. Cradle (?) (UU:98).

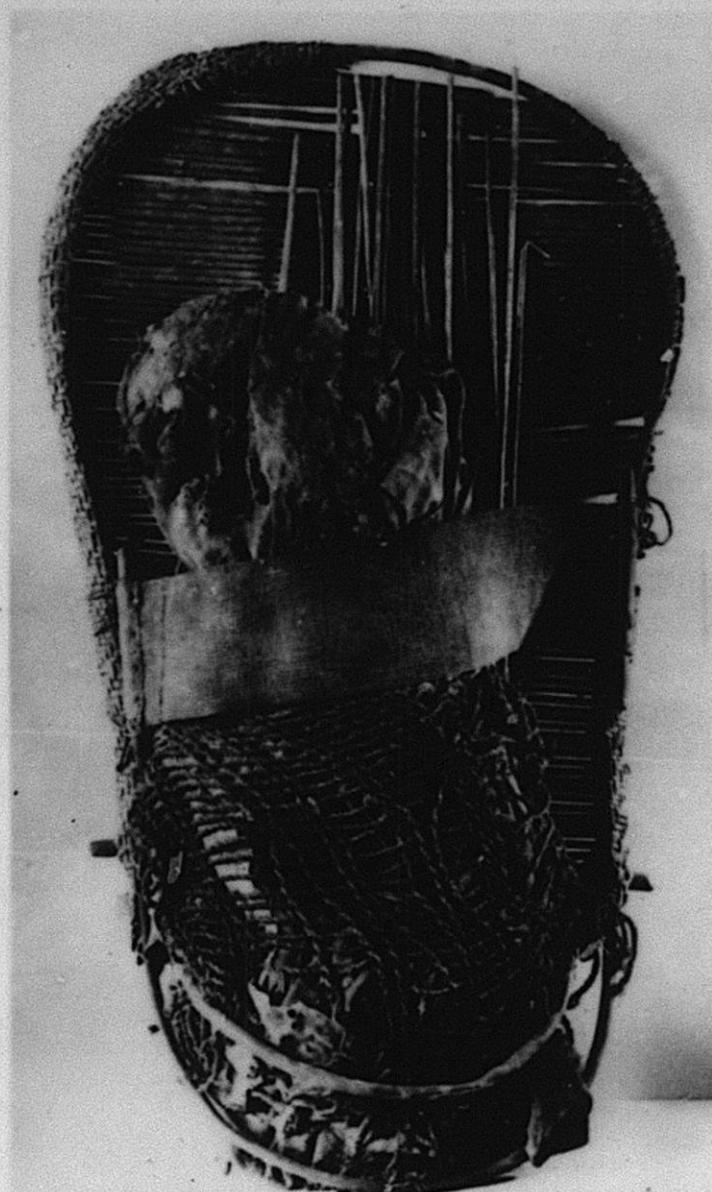


Fig. 15. Cradleboard and infant mummy (UU:99).

UU: 99. UMP: 29-43-382.

PN:--. Prov.: Utah

(Colorado River).

Description: Cradleboard.
(Display case, measurements are approximations.)
Oval, 28 in. and 15 in. in dia. Nearly identical to No. 95 above except includes stick footrest and cradle strap. Associations: infant mummy, McElmo B/W bowl and Mesa Verde B/W mug.

UU: 100. UMP: 29-43-367. PN: A-45. Prov.: Utah (Red Canyon).

Description: Infant mummy. 0-6 mos. of age; wrapped in woven cotton fabric, then in turkey feather robe (poor condition). Associations; wooden ladle (No. 709), Mesa Verde Corrugated jar.

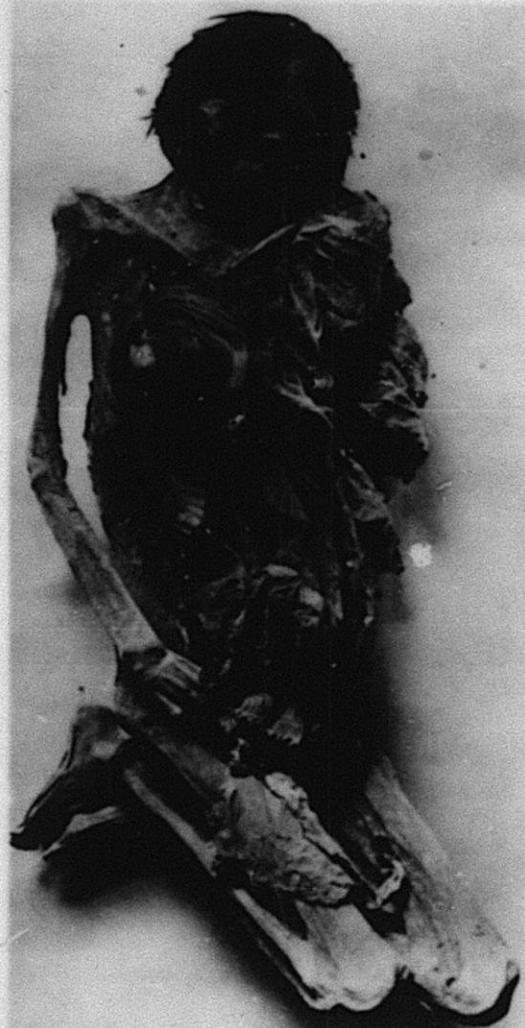


Fig. 16. Basketmaker mother and child (UU:101).

UU: 101. UMP: 29-43-365.

PN:--. Prov.: Utah (Red Canyon).

Description: Mummified female and child (29-43-366). Fragments of juniper bark covering and skin robe; basket impressions in facial skin. Associations: wooden implement and carved charm. Female is adult, semi-flexed on back, head undeformed (Basketmaker), legs flexed to left, heels under buttocks. Infant, approx. 2 years, is on adult's abdominal region, face up, legs flexed, heels at buttocks, hair cropped. Adult

has hair cordage anklet, child has hair rope necklace. Buckskin between may be remnants from child's robe. Traces of twined shroud are impressed in woman's skin. Total length 45 in.



Fig. 17. Mummified Pueblo female (UU:102).

UU: 102. UMP: 29-43-376.

PN: A-39. Prov.: Utah (Lake Canyon).

Description: Mummified female. Pueblo period (occipital deformation). Semi-flexed, left arm extended, right arm folded over chest, knees to right. Total length 48 in. Associations: painted bowl (UMP No. 22974).

UU: 103. UMP: 29-43-375. PN: A-44. Prov.: Utah (Lake Canyon).

Description: Mummified adult. Head to right, arms extended, heels drawn to near buttocks, knees to right. No cranial deformation. Covered with 2 large buckskin robes, turkey feather or fur robe (very poorly



Fig. 18. Mummified Basketmaker adult (UU:103).

preserved). Found resting on twilled matting. Associations: mountain sheep hide, coiled basket, and wooden board.

UU: 104. UMP: 29-43-369. PN: A-4. Prov.: SW.

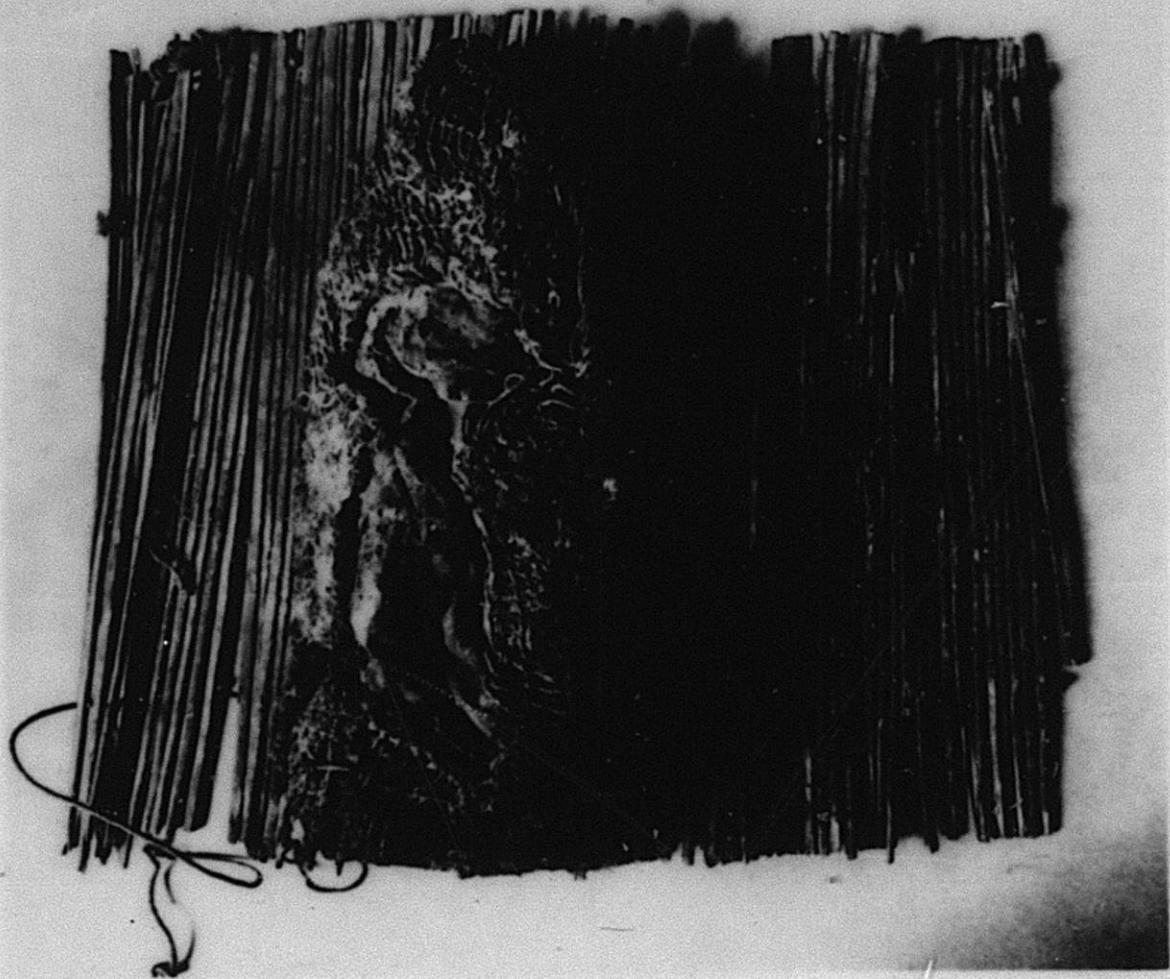


Fig. 19. Mummy of infant on willow slat mat (UIJ:104).

Description: Partially mummified infant wrapped in a woven fabric and a feather cloth within a willow slat mat. Legs flexed, left arm extended, right arm laid across thoracic region, head dropped on chest; ca. 6 months.

UU: 105. UMP: 29-43-378. PN: A-43. Prov.: Utah (cave in Colorado River Canyon).



Fig. 20. Basketmaker female (?) (UU:105).

Description: Mummified Basketmaker. Probably female; semi-flexed on back. Impressions of coiled basket in buckskin over chest. Final cover of fur robe. Total length 36 in.

UU: 106. UMP: 29-43-381.
PN: A-42. Prov.: Utah
(Deep Canyon).

Description: Basketmaker mummy, female (?). Semi-flexed; total length 32 in. Laid on 3-5 woven mats of various weaves, yucca leaf elements. None is complete; max. mat measurements taken are

48 in. long, 22 in. wide. Buckskin sack and large basket were found with burial.



Fig. 21. Basketmaker mummy and mats (UU:106).

UU: 107. UMP: 29-43-374. PN: A-12. Prov.: Utah.

Description: Mummified adult male. Pelvic girdle downward, legs flexed. Fragments of loom-woven cloth cling to body. Associations: flat coiled basket (D-29, not located).

UU: 108. UMP: 29-43-371. PN: A-4 (see also 104). Prov.: Utah (Colorado River Canyon).

Description: Mummified forearm and hand, adult.

UU: 109. UMP: 29-43-370. PN: A-5. Prov.: Utah (Colorado River Canyon).

Description: Mummified forearm and hand, adult.

UU: 110. UMP: 29-43-373. PN: A-7. Prov.: Utah (Red Canyon).

Description: Mummified lower leg, adult.

UU: 111. UMP: 29-43-372. PN: A-9. Prov.: Utah (Lake Canyon).

Description: Mummified lower leg, adult.

UU: 112. UMP: 29-43-379. PN:--. Prov.: SW.

Description: Mummified post-adolescent male.

UU: 113. UMP: 29-43-380. PN:--. Prov.: Not indicated.

Description: Mummified infant. 2-2 1/2 years (?). Laid on buckskin, covered with fur and feather robe (fur and feathers woven indiscriminately into one robe). Large piece of buckskin is laid against child.

UU: 114. UMP: 29-43-377. PN: A-37. Prov.: Utah (Lake Canyon).

Description: Mummified post-adolescent Basketmaker (male?). Tightly flexed, head thrown back. Wrapped in twined shroud, then covered with buckskin.

UU: 115. UMP: 29-44-1. PN:--. Prov.: Utah (cave near Colorado River Canyon).

Description: Adult skull, occipitally deformed.

UU: 116. UMP: 29-44-4. PN:--. Prov.: Utah (cave near Colorado River Canyon).

Description: Adult skull, occipitally deformed.

UU: 117. UMP: 29-44-3. PN:--. Prov.: Utah (cave near Colorado River Canyon).

Description: Adult skull, occipitally deformed.

UU: 118. UMP: 29-44-2. PN:--. Prov.: Utah (cave near Colorado River Canyon).

Description: Adult skull, occipitally deformed.

UU: 119. UMP: 29-43-368. PN:--. Prov.: Not indicated.

Description: Mummified infant in yucca fiber rope "cocoon," apparently woven around body. (MVNP)

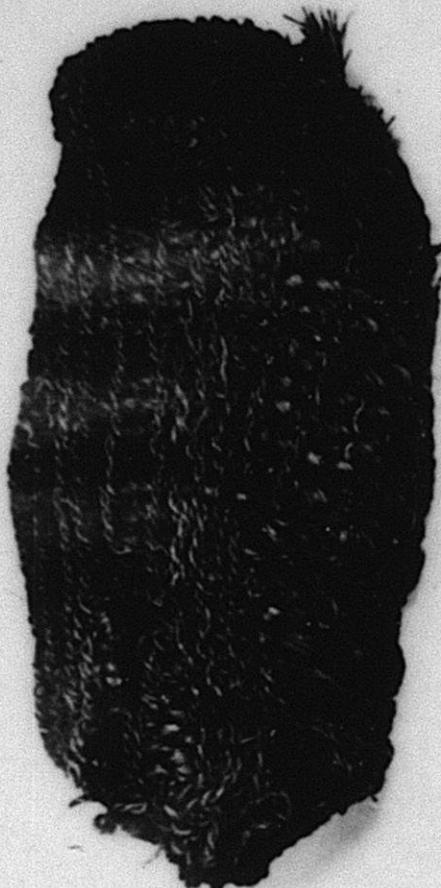


Fig. 22. Mummified infant in "cocoon" (UU:119).

UU: 120. UMP: 29-43-162. PN:--. Prov.: Colorado.

Description: Burden strap. Length 12 1/2 in.; width 2 3/4 in.; twined; yucca fiber warps, cotton (?) wefts; 9 warps, 16 wefts per in.; loop ends.

UU: 121. UMP: 29-43-166. PN:--. Prov.: Colorado.

Description: Woven band fragment. Length (incomplete) 6 in.; width 2 1/2 in.; twined; 8 warps, 17 wefts per in.

UU: 122. UMP: 29-43-164. PN:--. Prov.: Colorado.

Description: Woven band fragment. Length (incomplete) 11 in.; width 2 1/2 in.; twined; 7 warps, 16 wefts per in.

UU: 123. UMP: 29-43-104. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Burden strap. Length 19 1/4 in.; width 2 3/4 in.; twined; 22 two-ply yucca fiber warps, 20 wefts per in. Loop handles are 1 1/2 in. long made by combining warps into two warps and wrapping. (See Kent, 1957, Fig. 42, A2, for method description.)

UU: 124. UMP: 29-43-95. PN:--. Prov.: Colorado (Navajo Canyon).

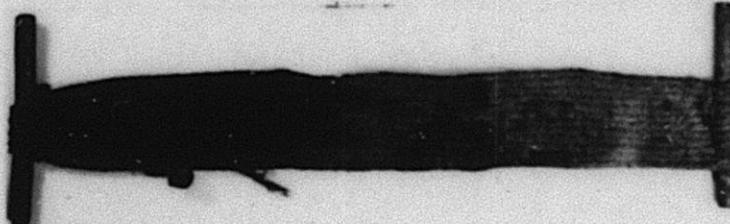


Fig. 23. Twined cradle band with toggle attachments (UU:124).

Description: Cradle band.

Length 15 1/2 in.; width

2 1/4 in.; twined; 5 warps,

14 wefts per in.; toggle ends,

4 1/2 in. long.

UU: 125. UMP: 29-43-103. PN:--. Prov.: Colorado.

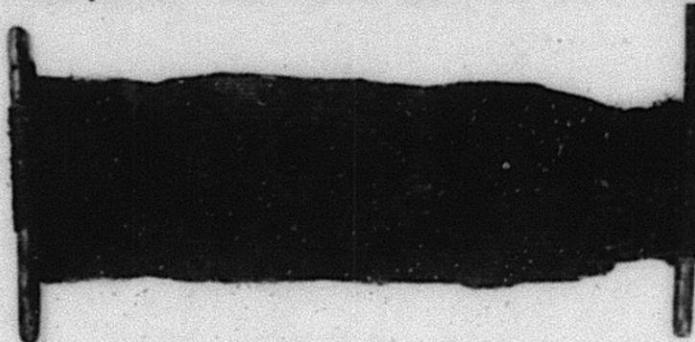
Description: Cradle band. Length 14 in.; width 2 1/2 in.; twined; 7 warps, 14 wefts per in.; toggle end, 5 in. long, covered with buckskin.

UU: 126. UMP: 29-43-93. PN:--. Prov.: Utah (cave on Colorado River).

Description: Cradle band. Length (incomplete) 9 in.; width 2 in.; twined; 7 warps, 16 wefts per in.; toggle ends.

UU: 127. UMP: 29-43-92. PN:--. Prov.: Utah (cave on Colorado River).

Description: Cradle band. Length 12 in.; width 3 3/4 in.; twined; 10 warps, 26 wefts per in. Decorative band 2 in. from one end, 3/4 in. wide, achieved



by switch in twining.

Toggle ends 6 in. long.

wrapped with buckskin.

Fig. 24. Cradle band, toggles partially wrapped with buckskin (UU:127).

UU: 128. UMP: 29-43-106. PN: B-20. Prov.: Colorado (Navajo Canyon).

Description: Woven band fragment. Length 12 1/4 in.; width 4 in.; twined; 9 warps, 11 wefts per in. One end wrapped around toggle and sewed to itself; opposite end twined to round pointed end; end is perforated. Use unknown, apparently a reworked artifact.

UU: 129. UMP: 29-43-97. PN: 60-1-8. Prov.: Colorado.

Description: Cradle band. Length 14 in.; width 2 1/2 in.; twined; 6 warps, 10 wefts per in.; toggle ends, buckskin wrapped.

UU: 130. UMP: 29-43-98. PN:--. Prov.: Colorado.

Description: Burden strap. Length (incomplete) 11 1/2 in.; width (incomplete) 1 1/2 in.; twined, extensive repair; loop handle added to original object.

UU: 131. UMP: 29-43-100. PN: H-19. Prov.: Colorado.

Description: Woven band fragment. Length (incomplete) 5 1/2 in.; width (incomplete) 1 1/2 in.; twined; 10 warps, 28 wefts per in.

UU: 132. UMP: 29-43-107. PN: H-95. Prov.: Colorado.

Description: Burden strap. Length 24 in.; width 1 1/2 in.; warp-face (Kent, 1957, 533); 7 warps, 3 wefts per in. Warps are combined in loop handles so

that loops

are twist-

ed 90°

from flat

band.



Fig. 25. Warp-face burden strap (UU:132).

UU: 133. UMP: 29-43-105. PN:--. Prov.: Colorado.

Description: Burden strap. Length (incomplete) 11 1/2 in.; width 1 3/4 in.; warp-face (Kent, 1957, 533); 10 warps, 4 wefts per in.; loop ends.

UU: 134. UMP: 29-43-94. PN: B-22. Prov.: Utah (Colorado River Canyon).

Description: Burden strap. Length 22 in.; width 1 1/2 in.; continuous weft brought through warps (through twists) at 1/2 in. intervals from one edge to the other; 11 warps, warp-ends tied in knot; loop ends.

UU: 135. UMP: 29-43-102. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Burden strap. Length 14 1/4 in.; width 2 3/4 in.; twined; 10 warps, 18 wefts per in.; center warps tied off; edge warps continue to form handle; loop ends.

UU: 136. UMP: 29-43-108. PN: H-101. Prov.: Colorado.

Description: Burden strap. Length 17 in.; width 2 1/4 in.; warp-face (Kent, 1957, 533); 14 warps, 3 wefts per in.; loop ends.

UU: 137. UMP: 29-43-99. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Burden strap. Length 11 1/4 in.; width 3/4 in.; twined; 4 warps (total), 16 wefts per in.; warps separated by 2's to form loop ends.

UU: 138. UMP: 29-43-169. PN: B-63. Prov.: SW.

Description: Head band (?); circular. Dia. approx. 5 1/2 in.; width 1/2 in.; plaited band tied with square knot; 8 1/2 in. of total length is open work with joining ties across the elements at 1 3/4 in. intervals.

UU: 139. UMP: 29-43-160. PN: H-150. Prov.: Colorado.

Description: Cradle band or burden strap fragment; cotton fiber warp.

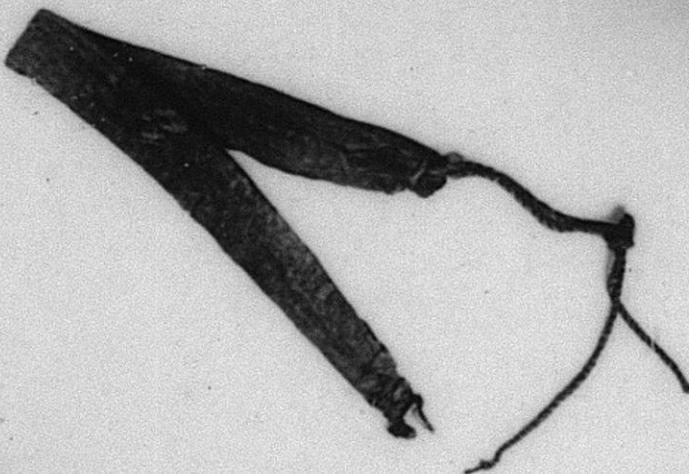
UU: 140. UMP: 29-43-167. PN:--. Prov.: Colorado.

Description: Cradle band or burden strap; yucca fiber warps.

UU: 141. UMP: 29-42-119. PN:--. Prov.: Utah or Colorado, along San Juan River.

Description: Band fragment. Red and brown; striped warp-face tie; cotton(?).

UU: 142. UMP: 29-43-770. PN: C-5. Prov.: SW.



Description: Burden strap.

Length 27 1/2 in.; width

1 3/4 in.; yucca fiber woven
band; covered completely
with buckskin sewn to itself
and stitched to inner band
(skin may have been painted
red); loop ends.

Fig. 26. Buckskin-wrapped yucca fiber burden
strap (UU:142).

UU: 143. UMP: 29-43-766. PN:--. Prov.: SW.

Description: Burden strap. Length 25 in.; width 1/2 to 3/4 in.; hide, with
yucca cord loops attached by slip knots.

UU: 144. UMP: 29-43-764. PN:--. Prov.: SW.

Description: Burden strap; end fragment. Length (incomplete) 9 1/2 in.; partially skin-covered; yucca cord end loop.

UU: 145. UMP: 29-43-761. PN:--. Prov.: SW.

Description: Skin-covered woven belt fragment. Length (incomplete) 13 in.; width 1 in.

UU: 146. UMP: 29-43-781. PN:--. Prov.: SW.

Description: Woven band fragment. Length 10 1/2 in.; width 3/4 in.; yucca fiber elements.

UU: 147. UMP: 29-43-763. PN:--. Prov.: SW.

Description: Burden strap fragment. Yucca fiber elements; yucca cord loop end.

UU: 148. UMP: 29-43-672. PN:--. Prov.: SW.

Description: Woven band of apocynum fibers. Length 4 in.; width 1/2 in.

UU: 149. UMP: 29-43-768. PN:--. Prov.: SW.

Description: Band fragment. Length (incomplete) 17 in.; width 3/4 in.
Red and yellow on natural color design.

UU: 150. UMP:--. PN:--. Prov.: Not indicated.

Description: Burden strap fragment. Length 14 in.; width 3 1/2 in.; tapestry weave. Elaborate decoration of various shades of brown and natural.

UU: 151. UMP: 29-43-101. PN: H-86. Prov.: Not indicated.

Description: Burden strap. Length 18 in.; width 3 in.; woven in red, black, white, and natural design; probably tapestry weave.

SANDALS

UU: 152. UMP: 29-43-639. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length 9 3/4 in.; width 4 1/4 in.; right foot; square toe; square heel; toe-heel loop tie.

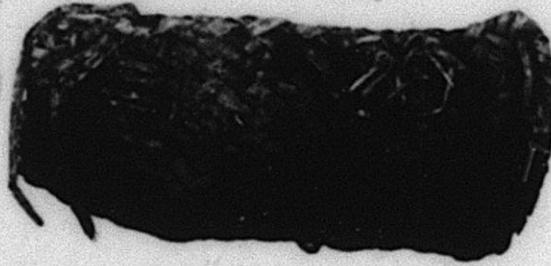


Fig. 27. Type I, a, 1 sandal (UU:153).

UU: 153. UMP: 29-42-833. PN:--.

Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length 10 1/2 in.; width 4 1/4 in.; right (?) foot; square toe; square heel; side loop tie.

UU: 154. UMP: 29-43-642. PN: E-1. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length 9 1/2 in.; width 3 3/4 in.; square toe; square heel; toe-heel loop tie.

UU: 155. UMP: 29-42-834. PN: E-93. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length 9 1/2 in.; width 4 1/2 in.; square toe; square heel; side loop tie; corn and juniper bark padded.

UU: 156. UMP: 29-43-638. PN: E-39. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length 8 1/4 in.; width 4 in.; right foot; square toe; square heel; side loop tie.

UU: 157. UMP: 29-43-636. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length (incomplete) 6 1/2 in.; width 3 1/4 in.; round (?) toe.

UU: 158. UMP: 29-43-633. PN: E-19. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length 9 1/4 in.; width 4 1/4 in.; left (?) foot; round toe; square heel; side loop tie.

UU: 159. UMP: 29-43-637. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length 9 3/4 in.; width 3 1/2 in.; square toe; square heel; toe-heel loop.

UU: 160. UMP: 29-42-818. PN: E-29. Prov.: Utah.

Description: Sandal, Type I, a, 1. Length 10 in.; width 4 1/4 in.; right foot; side loop tie.

UU: 161. UMP: 29-43-646. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 1. Length (incomplete) 6 in.; width 4 in.; side loop tie; corn-husk padded heel.

UU: 162. UMP: 29-43-640. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 1. Length 11 in.; width 4 in.; square toe; side loop tie.

UU: 163. UMP: 29-43-721. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 1.

UU: 164. UMP: 29-43-713. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 1. Round heel.

UU: 165. UMP: 29-43-749. PN:--. Prov.: Colorado.

Description: Sandal, Type I, a, 1.

UU: 166. UMP: 29-43-634. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 2. Length (incomplete) 7 in.; width 3 1/2 in.; left foot; side loop tie.

UU: 167. UMP: 29-45-55. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 8 1/2 in.; width 4 in.; left foot; jog toe; round heel.

UU: 168. UMP: 29-43-552. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 in.; width 3 1/2 in.; right foot; jog toe; round heel; toe-heel loop tie.

UU: 169. UMP: 29-43-562. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 11 in.; width 4 1/2 in.; left foot; curved toe; curved heel; toe-heel loop tie.

UU: 170. UMP: 29-42-814. PN:--. Prov.: Utah.

Description: Sandal, Type I, a, 2. Length 6 1/2 in.; width 3 1/2 in.; right foot; jog toe; cupped heel; toe-heel tie.

UU: 171. UMP: 29-43-534. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 3 1/2 in.; right foot; curved toe; round heel; toe-heel tie.

UU: 172. UMP: 29-43-540. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 9 1/2 in.; width 3 1/2 in.

UU: 173. UMP: 29-43-541. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 7 1/4 in.; width 3 1/4 in.; left foot; jog toe; round heel; toe-heel (?) tie.

UU: 174. UMP: 29-43-542. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 6 3/4 in.; width 6 1/4 in.; right foot; round toe; round heel; toe-heel (?) tie.

UU: 175. UMP: 29-43-543. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 8 3/4 in.; width 3 3/4 in.; left

foot; jog toe; cupped heel; toe-heel (?) tie.

UU: 176. UMP: 29-43-544. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 8 1/2 in.; width 3 3/4 in.; left foot; jog toe; cupped heel; toe-heel (?) tie.

UU: 177. UMP: 29-43-545. PN: E-21(?). Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 10 in.; width 4 1/4 in.; left foot; round toe; round heel; toe-heel tie.

UU: 178. UMP: 29-43-546. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 in.; width 4 in.; left foot; round toe; round heel; toe-heel tie.

UU: 179. UMP: 29-43-578. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 2 3/4 in.; width 3 1/4 in.; right foot; unfinished.

UU: 180. UMP: 29-43-566. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 4 in.; width 4 in.; cupped heel; side loop tie.

UU: 181. UMP: 29-43-567. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 4 in.; width 2 1/8 in.; left foot; jog toe.

UU: 182. UMP: 29-43-565. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 6 1/2 in.; width 3 3/4 in.; left foot; jog toe.

UU: 183. UMP: 29-43-564. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/2 in.; width 4 in.; right foot; jog toe; cupped heel; toe-heel (?) tie.

UU: 184. UMP: 29-43-561. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 1/2 in.; left foot; jog toe; cupped heel; toe-heel tie.

UU: 185. UMP: 29-43-563. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 9 1/2 in.; width 4 1/2 in.; left (?) foot; toe-heel tie.

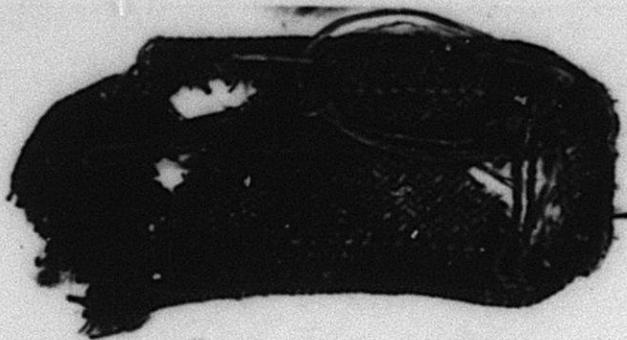
UU: 186. UMP: 29-43-560. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Width 4 1/2 in.; left foot; jog toe; side loop tie.

UU: 187. UMP: 29-43-547. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/4 in.; width 4 1/2 in.; right foot; jog toe; cupped heel; toe-heel tie.

UU: 188. UMP: 29-43-548. PN:--. Prov.: SW.



Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 4 1/4 in.; left foot; jog toe; cupped heel.

Fig. 28. Type I, a, 2 sandal (UU:188).

UU: 189. UMP: 29-43-549. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 1/4 in.; left foot; jog toe; cupped heel.

UU: 190. UMP: 29-43-553. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 9 in.; width 4 1/4 in.; right foot; round heel; side loop tie.

UU: 191. UMP: 29-43-554. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in; width 3 3/4 in.; right foot; jog toe; round heel; criss-cross tie.

UU: 192. UMP: 29-43-555. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 in.; width 4 1/2 in.; right foot; jog toe; side loop tie.

UU: 193. UMP: 29-43-556. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 8 in.; width 3 3/4 in.; right foot; jog toe; cupped heel; toe-heel loop tie.

UU: 194. UMP: 29-43-557. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 4 1/4 in.; width 4 1/4 in.; right foot; jog toe.

UU: 195. UMP: 29-43-558. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 1/4 in.; left foot; jog toe; cupped heel; toe-heel tie.

UU: 196. UMP: 29-43-559. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 3/4 in.; left foot; jog toe; round heel; side loop tie.

UU: 197. UMP: 29-43-535. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 in.; width 4 1/4 in.; right foot; jog toe; cupped heel; side loop tie.

UU: 198. UMP: 29-43-536. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/4 in.; width 3 3/4 in.; left foot; jog toe; cupped heel; toe-heel loop tie.

UU: 199. UMP: 29-43-537. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 8 1/4 in.; width 4 in.; left foot; jog toe; cupped heel; toe-heel loop tie.

UU: 200. UMP: 29-43-538. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/4 in.; width 4 1/2 in.; left foot; jog toe; cupped heel; side loop tie.

UU: 201. UMP: 29-43-539. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 8 in.; width 4 in.; right foot; jog toe; round heel; side loop tie.

UU: 202. UMP: 29-43-530. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/4 in.; width 4 1/2 in.; left foot; jog heel; side loop tie; corn husk insole.

UU: 203. UMP: 29-43-831. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 11 in.; width 5 in.; right foot; jog toe; side loop tie; juniper bark insole.

UU: 204. UMP: 29-43-586. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 in.; width 4 in.; left foot; jog toe; side loop tie.

UU: 205. UMP: 29-43-732. PN: E-147. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 3 in.; width 2 1/2 in.; unfinished.

UU: 206. UMP: 29-43-594. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 3 3/4 in.; right foot; shaped toe; side loop tie.

UU: 207. UMP: 29-43-593. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 3/4 in.; right foot; jog toe; cupped heel; side loop tie.

UU: 208. UMP: 29-43-592. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Right foot; angular toe; round heel; side loop tie.

UU: 209. UMP: 29-43-590. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 1/2 in.; left foot; jog toe; cupped, rounded heel; side loop tie.

UU: 210. UMP: 29-43-589. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 8 in.; width 4 in.; cupped, squared heel; side loop tie.

UU: 211. UMP: 29-43-588. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 11 1/2 in.; width 4 1/2 in.; left foot; jog toe; side loop tie.

UU: 212. UMP: 29-43-587. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 11 in.; width 4 1/2 in.; right foot; shaped toe; side loop tie. Edge decoration by weave interval shift.

UU: 213. UMP: 29-43-591. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 1/2 in.; left foot; jog toe; side loop tie. 1/2 in. edge by weave interval shift.

UU: 214. UMP: 29-43-585. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 4 1/2 in.; left foot; jog toe; round heel; side loop tie.

UU: 215. UMP: 29-43-571. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 8 1/2 in.; width 4 1/2 in.; cupped heel; toe-heel tie.

UU: 216. UMP: 29-43-582. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Width 4 1/2 in.; side loop tie.

UU: 217. UMP: 29-43-572. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/2 in.; width 4 1/4 in.; left foot; jog toe; side loop tie.

UU: 218. UMP: 29-43-584. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 4 in.; right foot; shaped toe; side loop tie.

UU: 219. UMP: 29-43-573. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 11 in.; width 5 in.; right foot; jog toe; side loop tie.

UU: 220. UMP: 29-43-730. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Width 4 1/2 in.; side loop tie.

UU: 221. UMP: 29-43-574. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 10 1/2 in.; width 5 1/2 in.; right foot; jog toe; cupped heel; side loop tie.

UU: 222. UMP: 29-43-727. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 2 1/2 in.; width 2 1/2 in.; unfinished.

UU: 223. UMP: 29-43-583. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 in.; width 4 1/4 in.; right foot; jog toe; cupped heel; toe-heel tie.

UU: 224. UMP: 29-43-576. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 9 1/2 in.; right foot;

jog toe; toe-heel tie.

UU: 225. UMP: 29-43-377. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 7 in.; width 4 in.; side loop tie.

UU: 226. UMP: 29-43-579. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 8 1/4 in.; width 4 1/4 in.; right foot; shaped toe; cupped heel.

UU: 227. UMP: 29-43-581. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 7 in.; width 4 in.; right foot; shaped toe; cupped heel; side loop tie; juniper bark insole.

UU: 228. UMP: 29-43-580. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 8 1/2 in.; width 4 in.; side loop tie.

UU: 229. UMP: 29-43-568. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 1/2 in.; left foot; angular jog toe; cupped heel; toe-heel tie.

UU: 230. UMP: 29-43-569. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 3/4 in.; width 4 1/4 in.; side loop tie; repaired.

UU: 231. UMP: 29-43-729. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 7 1/2 in.; width 3 1/2 in.; right foot.

UU: 232. UMP: 29-43-575. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 9 1/2 in.; width 4 1/2 in.; left foot; jog toe; toe-heel tie; corn cob twisted in instep strap.

UU: 233. UMP: 29-43-728. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 3 1/2 in.; width 1 1/2 in.; left foot; shaped toe; unfinished child's sandal.

UU: 234. UMP: 29-43-615. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 2. Right foot; shaped toe; unfinished.

UU: 235. UMP: 29-43-622. PN: 27. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 in.; right foot; jog toe; round, cupped heel; side loop tie; used as insole in plain weave sandal.

UU: 236. UMP: 29-43-696. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 3/4 in.; width 4 in.; right foot; shaped toe; round, cupped heel; side loop tie.

UU: 237. UMP: 29-43-666. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/4 in.; width 4 in.; left foot;

shaped toe; round, cupped heel; toe-heel tie.

UU: 238. UMP: 29-43-606. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 11 1/4 in.; width 4 in.; left foot; shaped toe; round, cupped heel; side loop tie.

UU: 239. UMP: 29-43-598. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 11 1/2 in.; width 4 1/2 in.; side loop tie.

UU: 240. UMP: 29-43-608. PN:--. Prov.: Colorado (Mancos Canyon).

Description: Sandal, Type I, a, 2. Length 9 3/4 in.; width 4 in.; right foot; shaped toe; cupped heel; side loop tie; corn husk heel pad.

UU: 241. UMP: 29-43-607. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 10 in.; width 4 in.; side loop tie.

UU: 242. UMP: 29-43-600. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 11 in.; width 4 1/2 in.; side loop tie.

UU: 243. UMP: 29-43-599. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 in.; width 4 1/4 in.; left foot; shaped toe; round, cupped heel; side loop tie.

UU: 244. UMP: 29-43-677. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 in.; width 3 3/4 in.; square toe; round, cupped heel; yucca fiber cordage elements.

UU: 245. UMP: 29-43-604. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 10 in.; width 4 1/4 in.; left foot; jog toe; toe-heel tie.

UU: 246. UMP: 29-43-675. PN: E-32. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 9 in.; width 4 1/2 in.; round, cupped heel; toe-heel tie; yucca fiber cordage elements.

UU: 247. UMP: 29-43-678. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 3/4 in.; width 4 in.; left foot; shaped toe; round, cupped heel; toe-heel tie; yucca fiber cordage elements.

UU: 248. UMP: 29-43-596. PN: E-101. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/2 in.; width 4 1/2 in.; right foot; shaped toe; overcast edge.

UU: 249. UMP: 29-43-698. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 5 in.; width 3 in.; cupped heel.

UU: 250. UMP: 29-43-699. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 6 in.; width 3 1/2 in.; round heel.

UU: 251. UMP: 29-43-708. PN: E-108. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 9 1/2 in.; width 4 1/2 in.; side loop tie.

UU: 252. UMP: 29-43-664. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 7 in.; width 4 1/4 in.; square heel.

UU: 253. UMP: 29-43-605. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 9 1/2 in.; width 4 1/2 in.; left foot; jog toe.

UU: 254. UMP: 29-43-674. PN: E-48. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 4 1/4 in.; right foot; jog toe; round heel; side loop tie; feather cordage in ties.

UU: 255. UMP: 29-43-597. PN: E-63. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 4 in.; left foot; jog toe; round heel; toe-heel tie.

UU: 256. UMP: 29-43-603. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 6 in.; width 4 in.

UU: 257. UMP: 29-43-602. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 2 3/4 in.; right foot; shaped toe; round heel; toe-heel tie.

UU: 258. UMP: 29-43-601. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/2 in.; width 4 1/4 in.; right foot; shaped toe; round, cupped heel; toe-heel tie.

UU: 259. UMP: 29-43-676. PN: E-51. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 3/4 in.; width 4 in.; right foot; shaped toe; round, cupped heel; toe-heel tie. Mate to No. 247.

UU: 260. UMP: 29-43-597. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 9 in.; width 4 in.; side loop tie; corn husk insole.

UU: 261. UMP: 29-43-709. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/4 in.; width 3 1/4 in.; right foot; jog toe; round heel; toe-heel tie.

UU: 262. UMP: 29-43-697. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 11 in.; width 4 1/2 in.; toe-heel tie.

UU: 263. UMP: 29-43-700. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 11 1/2 in.; width 4 1/2 in.; left foot; jog toe; repaired heel; side loop tie.

UU: 264. UMP: 29-43-701. PN: E-10. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 10 in.; width 4 in.; square heel; toe-heel tie.

UU: 265. UMP: 29-43-663. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (estimated) 10 in.; width (estimated) 4 1/2 in.; round, cupped heel.

UU: 266. UMP: 29-43-665. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 4 in.; right foot; shaped toe; round, cupped heel; side loop tie.

UU: 267. UMP: 29-43-712. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/2 in.; width 3 1/2 in.; left foot; shaped toe; square heel; toe-heel tie.

UU: 268. UMP: 29-43-702. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 9 in.; width 4 1/2 in.; side loop tie.

UU: 269. UMP: 29-43-703. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 5 in.; width 4 1/2 in.; left foot; jog toe.

UU: 270. UMP: 29-43-662. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Round toe; side loop tie.

UU: 271. UMP: 29-43-707. PN: E-125. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 3/4 in.; width 4 in.; left foot; jog toe; round heel; side loop tie.

UU: 272. UMP: 29-43-710. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 4 in.; right foot; jog toe; toe-heel tie.

UU: 273. UMP: 29-43-648. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/2 in.; width 5 in.; left foot; jog toe; square, cupped heel.

UU: 274. UMP: 29-43-635. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 2. Length 8 in.; width 3 1/2 in.; right foot; jog toe; square heel.

UU: 275. UMP: 29-43-632. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 2. Length (incomplete) 7 1/2 in.; width 3 1/2 in.; left foot; shaped toe.

UU: 276. UMP: 29-43-650. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 10 1/4 in.; width 4 3/4 in.; left foot; jog toe; square, cupped heel; side loop tie.

UU: 277. UMP: 29-43-652. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 9 1/2 in.; width 4 3/4 in.; right foot; jog toe.

UU: 278. UMP: 29-43-651. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Width 4 1/2 in.; left foot; shaped toe; side loop tie.

UU: 279. UMP: 29-43-649. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length 11 1/2 in.; width 4 3/4 in.; right foot; jog toe.

UU: 280. UMP: 29-43-641. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type I, a, 2. Length (incomplete) 11 in.; width 3 3/4 in.; right foot; jog toe; unfinished.

UU: 281. UMP: 29-43-673. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Length (incomplete) 4 1/2 in.; width 3 1/2 in.; left foot; jog toe.

UU: 282. UMP: 29-42-815. PN:--. Prov.: Utah.

Description: Sandal, Type I, a, 2. Right foot; shaped toe, side loop tie.

UU: 283. UMP: 29-42-812. PN:--. Prov.: Utah.

Description: Sandal, Type I, a, 2. Left foot; jog toe; 2 sandals.

UU: 284. UMP: 29-43-717. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

UU: 285. UMP: 29-43-725. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

UU: 286. UMP: 29-43-724. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

UU: 287. UMP: 29-43-716. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

UU: 288. UMP: 29-43-718. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

UU: 289. UMP: 29-43-714. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

UU: 290. UMP: 29-43-723. PN: E-12. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

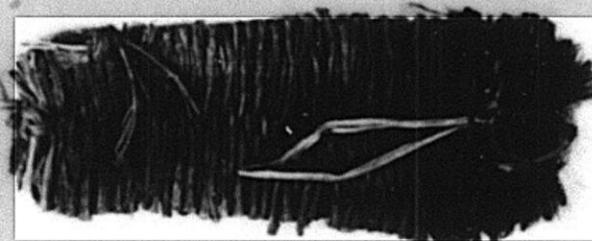
UU: 291. UMP: 29-43-720. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

UU: 292. UMP: 29-43-667. PN:--. Prov.: SW.

Description: Sandal, Type I, a, 2. Fragment; unmeasured.

UU: 293. UMP: 29-43-671. PN: E-59. Prov.: SW.



Description: Sandal, Type I, b. Length 10 1/2 in.; width 4 in.; toe-heel tie; 2 warps.

Fig. 29. Type I, b sandal (UU:293).

UU: 294. UMP: 29-43-672. PN: E-49. Prov.: SW.

Description: Sandal, Type I, b. Length 10 1/2 in.; width 4 in.; toe-heel tie; 2 warps.

UU: 295. UMP: 29-43-669. PN: E-106. Prov.: SW.

Description: Sandal, Type I, b. Length (incomplete) 8 in.; width 4 in.; 2 warps.

UU: 296. UMP: 29-43-668. PN:--. Prov.: SW.

Description: Sandal, Type I, b. Length 10 in.; width 4 in.; 4 warps.

UU: 297. UMP: 29-43-670. PN:--. Prov.: SW.

Description: Sandal, Type I, b. Length (estimated) 9 1/2 in.; width 3 1/4 in.;

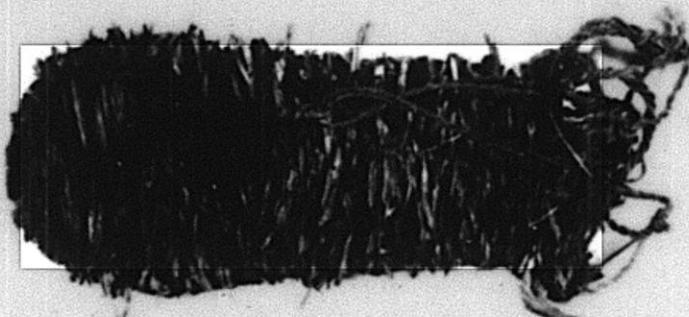
UU: 300. UMP: 29-43-473. PN:--. Prov.: Utah.

Description: Sandal, Type I, b. 2 warps.

UU: 298. UMP: 29-43-173. PN:--. Prov.: SW.

Description: Sandal, variant. Length 7 1/2 in.; width 3 3/4 in.; toe-heel tie; warps missing (2); corn husk wefts.

UU: 299. UMP: 29-42-830. PN: E-57. Prov.: SW.



Description: Sandal, Type I, b, variant. 4 yucca fiber cord warps; turkey feather wefts.

Fig. 30. Type I, b sandal (variant); turkey feather wefts (UU:299).

UU: 301. UMP: 29-43-475. PN:--. Prov.: Utah.

Description: Sandal, Type I, b, variant. Length 8 in.; width 4 in.; 2 warps; grass warps and wefts.

UU: 308. UMP:--. PN:--. Prov.: Utah (San Juan River).

Description: Sandal, Type I, b, variant. Length 7 1/2 in.; width 4 in.; crude wickerwork of small-stemmed grass.

UU: 306. UMP: 29-43-687. PN:--. Prov.: Utah.

Description: Sandal, Type BM I, a. Length 6 3/4 in.; width 3 in.; 4 warps; child's sandal.

UU: 307. UMP:--. PN: E-124. Prov.: Colorado (Mesa Verde).

Description: Sandal, Type BM I, a. Length (incomplete) 6 1/2 in.; width 4 1/2 in.; toe-heel tie; 4 warps; 3 mummified toes intact.

UU: 344. UMP: 29-43-645. PN: E-64. Prov.: SW.



Fig. 31. Type II, a sandal (UU:344).

Description: Sandal, Type II, a.
Length 11 1/4 in.; width 4 in.;
6 warps, 5 wefts per in.;
continuous warp; square heel;
pointed toe.

UU: 345. UMP: 29-43-644. PN: E-52. Prov.: SW.

Description: Sandal, Type II, a. Length 8 1/2 in.; width 3 in.; 6 warps; 8 wefts per in.; 3 paired warps of continuous strand; instep tie continuation of warp ends from heel; pointed toe; square heel.

UU: 346. UMP: 29-43-715. PN:--. Prov.: SW.

Description: Sandal, Type II, a, variant. Length 8 in.; width 4 in.; wicker-work of turkey feather cordage.

UU: 302. UMP: 29-42-825. PN:--. Prov.: Utah.

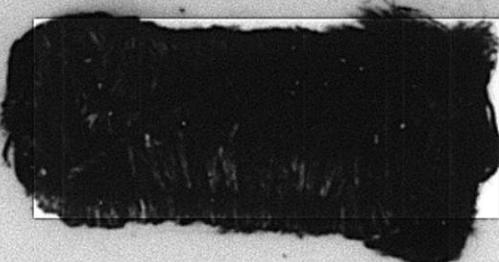


Fig. 32. Basketmaker Type I, b sandal (UU:302).

UU: 303. UMP: 29-43-688. PN:--. Prov.: Utah.

Description: Sandal, Type BM I, b. Length 8 1/2 in.; width 4 1/2 in.; 4 warps; crushed yucca leaf.

UU: 304. UMP: 29-43-686. PN:--. Prov.: Utah.

Description: Sandal, Type BM I, b. Length (estimated) 10 in.; width 4 1/2 in.; toe-heel tie; 4 warps; crushed yucca leaf.

UU: 305. UMP: 29-43-685. PN: E-8. Prov.: Utah.

Description: Sandal, Type BM I, b. Length 10 in.; width 4 3/4 in.; side loop tie; 4 warps.

UU: 329. UMP: 29-43-655. PN:--. Prov.: SW.

Description: Sandal, Type II, b. 10 warps, 27 wefts per in. Fragment; identical in shape to Type I, a, 2 sandal; left foot; jogged.

UU: 316. UMP: 29-43-675. PN:--. Prov.: SW.

Description: Sandal, Type II, b. Length 10 1/2 in.; width 3 1/4 in.; 8 warps, 20 wefts per in.; toe-heel tie; rounded toe and heel.

UU: 317. UMP: 29-42-817. PN:--. Prov.: Utah.



Fig. 33. Type II, b sandal (UU:317).

Description: Sandal, Type II, b.

Length (estimated) 12 in.; width
4 3/4 in.; 8 warps, 20 wefts
per in.; buckskin toe-heel tie.

UU: 318. UMP: 29-43-165.

PN:--. Prov.: Colorado.

Description: Sandal, Type II, b.

Length (estimated) 10 in.; width
3 1/2 in.; 10 warps, 20 wefts
per in.; rounded toe and heel.

UU: 320. UMP: 29-43-719.

PN:--. Prov.: SW.

Description: Sandal, Type II, b.

8 warps, 20 wefts per in.

UU: 321. UMP: 29-42-827. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Sandal, Type II, b. Length 10 in.; width 4 1/4 in.; toe-heel
tie. Buckskin toe wrapping, brown and yellow band decoration. Twine
interval: 2 warps throughout.

UU: 343. UMP: 29-43-163. PN:--. Prov.: Not indicated.

Description: Sandal, Type II,b. Right foot; jogged.

UU: 309. UMP: 29-43-734. PN:--. Prov.: SW.

Description: Sandal, Type III,b. 8 warps, 23 wefts per in.; patterned sole.

UU: 310. UMP: 29-43-731. PN:--. Prov.: SW.

Description: Sandal, Type III,b. Small fragment.

UU: 311. UMP:--. PN:--. Prov.: Not indicated.

Description: Sandal, Type III,b. Length 6 1/4 in.; width 2 1/2 in.; 9 warps, 22 wefts per in.; toe-heel tie. Red-band decorated; cupped heel; square toe; fringed; indented at center of toe.

UU: 312. UMP: 29-43-656. PN: E-73. Prov.: Utah.

Description: Sandal, Type III,b. Length 7 in.; width 3 1/4 in. Pair tied together; red and black band decoration; square heel and toe; fringed toe.

UU: 313. UMP: 29-43-653. PN:--. Prov.: SW.

Description: Sandal, Type III,b. Length (incomplete) 9 in.; 8 warps, 22 wefts per in. Angular design at center of fragment.

UU: 314. UMP: 29-43-733. PN:--. Prov.: SW.

Description: Sandal, Type III,b. Length (estimated) 10 in.; width 4 in. Colored design; square toe.

UU: 315. UMP: 29-43-654. PN:--. Prov.: SW.

Description: Sandal, Type III, b. 8 warps, 22 wefts per in. Colored design (?); round toe and heel.

UU: 319. UMP: 29-43-722. PN:--. Prov.: SW.

Description: Sandal, Type III, b. Width (incomplete) 3 1/2 in.; colored band design (?).

UU: 322. UMP: 29-43-683. PN:--. Prov.: Utah.

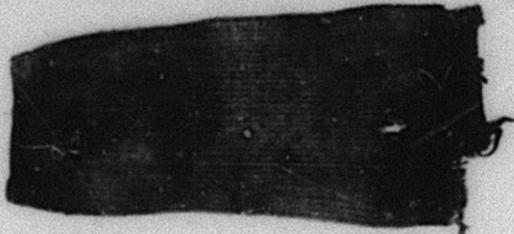


Fig. 34. Type III, b sandal (UU:322).

Description: Sandal, Type III, b.
Length 9 1/2 in.; width 4 1/2 in.;
buckskin fringe toe; alternate
wefts and outer 3 warps are red.

UU: 323. UMP: 29-43-692. PN: E-16. Prov.: Utah.

Description: Sandal, Type III, b. Length 9 1/2 in.; width 3 1/4 in.; 3 warps, 16 wefts per in.; toe-heel tie. Pair of sandals; buckskin-wrapped toe; red band design.

UU: 324. UMP: 29-43-659. PN: E-71. Prov.: Utah.

Description: Sandal, Type III, b. Length (estimated) 11 in.; width 4 1/2 in.; 8 warps, 20 wefts per in.; side loop tie.

UU: 326. UMP: 29-43-684. PN:--. Prov.: Utah.

Description: Sandal, Type III, b. Length 10 in.; width 5 in.; toe-heel tie.

Fringed toe of fibers.

UU: 327. UMP: 29-42-822. PN: E-69. Prov.: Utah.

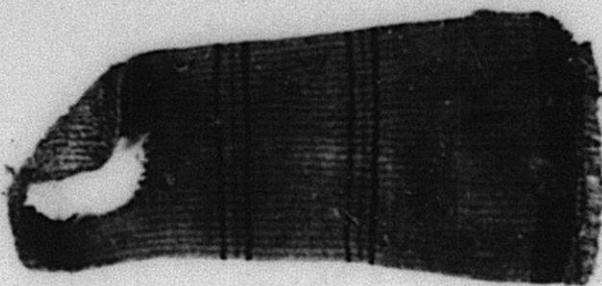


Fig. 35. Type III, b sandal (UU:327).

Description: Sandal, Type III, b. Width 4 in.; 8 warps, 20 wefts per in.; square toe and heel; toe finished with yucca cord wrap. Black and red band design.

UU: 328. UMP: 29-42-821. PN:--. Prov.: Utah.

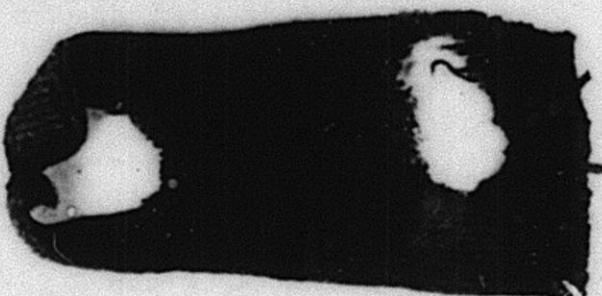


Fig. 36. Type III, b sandal (UU:328).

Description: Sandal, Type III, b. Length 9 in.; width 4 in.; 7 warps, 20 wefts per in.; toe-heel tie; buckskin-wrapped toe; red and black band design.

UU: 330. UMP: 29-43-658. PN: E-53. Prov.: Utah.

Description: Sandal, Type III, b. Length (incomplete) 8 1/4; width 4 in.; 7 warps, 20 wefts per in.; side loop tie.

UU: 333. UMP: 29-42-820. PN: E-35. Prov.: Utah.

Description: Sandal, Type III, b. Width 4 1/2 in.; buckskin-wrapped square toe; pair tied together.

UU: 334. UMP: 29-43-693. PN:--. Prov.: Utah.

Description: Sandal, Type III, b. Length 6 in.; width 2 3/4 in.; toe-heel tie. Red band design.

UU: 336. UMP: 29-43-691. PN:--. Prov.: Utah.

Description: Sandal, Type III, b. Length (estimated) 7 in.; width 2 1/2 in.; 7 warps, 24 wefts per in.; square toe and heel. Red and black band design.

UU: 339. UMP: 29-43-711. PN: E-33. Prov.: Utah.

Description: Sandal, Type III, b. Length (estimated) 10 in.; width 4 1/2 in.; toe-heel tie.

UU: 340. UMP: 29-43-690. PN: E-127. Prov.: Utah.

Description: Sandal, Type III, b. Length (incomplete) 4 1/2 in.; width (estimated) 2 1/2 in.; 9 warps, 20 wefts per in. Red band design.

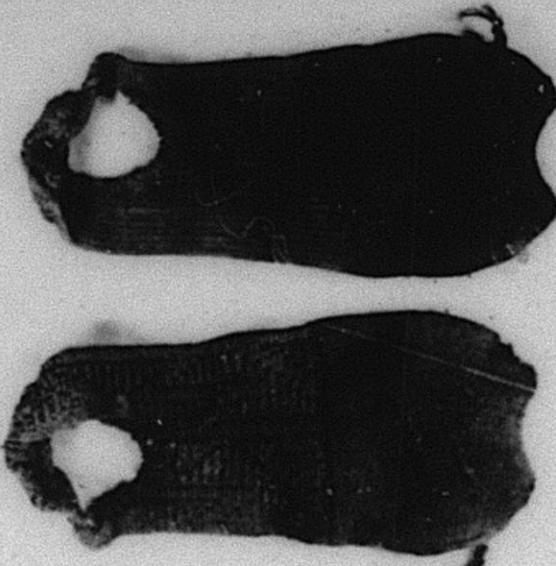
UU: 341. UMP: 29-43-694. PN: E-126. Prov.: Utah.

Description: Sandal, Type III, b. Length 5 in.; width 2 in.; child's sandal.

UU: 342. UMP: 29-43-689. PN:--. Prov.: Utah.

Description: Sandal, Type III, b. Length 4 in.; width 2 1/2 in.; child's sandal.

UU: 325. UMP: 29-43-682. PN: E-103. Prov.: SW.



Description: Sandal, scallop-toed. Length 10 in.; width 4 1/2 in.

UU: 331. UMP: 29-43-680.

PN: E-79. Prov.: Utah.

Description: Sandal, scallop-toed. Length 9 in.; width 4 1/2 in.; toe-heel tie; hour

Fig. 37. Top and bottom view of scallop-toed sandal (UU:325).

UU: 332. UMP: 29-43-660. PN:--. Prov.: Utah.

Description: Sandal, scallop-toed. Length 9 1/2 in.; width 3 3/4 in.

UU: 335. UMP: 29-43-661. PN:--. Prov.: SW.

Description: Sandal, scallop-toed. Length 10 in.; width (estimated) 3 1/4 in.; 9 warps, 26 wefts per in.; toe-heel tie.

UU: 337. UMP: 29-43-681. PN: E-61.

Description: Sandal, scallop-toed. Length 8 in.; width 5 in.

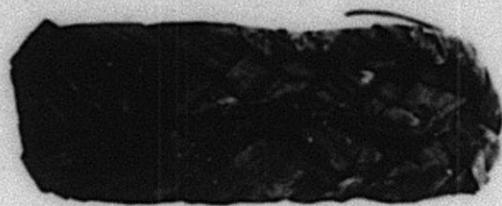
UU: 338. UMP: 29-43-657. PN: E-104. Prov.: Utah.

Description: Sandal, scallop-toed. Length 9 1/2 in.; width 4 in.; side loop tie.

UU: 347. UMP: 29-43-726. PN:--. Prov.: SW.

Description: Sandal, plain weave (under-one-over-one). Length (incomplete) 7 in.; width 3 1/2 in.; wide-leaf yucca (brocada) elements.

UU: 348. UMP: 29-43-614. PN: E-14. Prov.: Colorado (Mesa Verde).



Description: Sandal, plain weave (under-one-over-one). Length 9 1/2 in.; width 3 1/4 in.; wide-leaf yucca elements.

Fig. 38. Plain weave sandal (UU:348).

UU: 349. UMP: 29-43-618. PN: E-28. Prov.: Colorado (Mesa Verde).



Description: Sandal, plain weave (under-one-over-one). Length (incomplete) 9 1/4 in.; width 4 1/4 in.; toe-heel tie; wide-leaf yucca elements.

Fig. 39. Plain weave sandal (UU:349).

UU: 350. UMP:--. PN: E-122. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length (incomplete) 9 in.; width 4 in.; side loop tie; wide-leaf yucca elements.

UU: 351. UMP: 29-43-610. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length (incomplete) 6 in.; width 3 1/2 in.; wide-leaf yucca elements.

UU: 352. UMP: 29-43-609. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length (estimated) 10 in.; width 3 3/4 in.; left foot; wide-leaf elements.

UU: 353. UMP: 29-43-613. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 7 3/4 in.; width 2 3/4 in.; toe-heel tie; wide-leaf elements.

UU: 354. UMP: 29-43-616. PN: E-100. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length (incomplete) 7 1/2 in.; width 4 in.; wide-leaf elements; side loop ties of narrow-leaf yucca; heel pad of corn husks.

UU: 355. UMP: 29-43-627. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 10 in.; width 4 in.; left foot; wide-leaf elements.

UU: 356. UMP: 29-43-626. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 9 3/4 in.; width 4 in.; right foot; toe-heel tie; wide-leaf elements.

UU: 357. UMP: 29-42-832. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 10 in.; width 3 1/4 in.; unfinished; wide-leaf elements.

UU: 358. UMP: 29-43-612. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 11 3/4 in.; width 4 in.; right foot; pointed toe; wide-leaf elements.

UU: 359. UMP: 29-43-617. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 10 in.; width 4 in.; side loop ties; wide-leaf elements.

UU: 360. UMP: 29-43-621. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length (incomplete) 9 in.; width 4 1/4 in.; slightly irregular weave; wide-leaf elements.

UU: 361. UMP: 29-43-620. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 9 in.; width 4 1/4 in.; wide-leaf elements.

UU: 362. UMP: 29-42-826. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 9 1/2 in.; width 4 in.; left foot; wide-leaf elements.

UU: 363. UMP: 29-43-625. PN: E-22. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 10 in.; width 4 in.; left foot; wide-leaf elements.

UU: 364. UMP: 29-43-624. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length (incomplete)

7 in.; width 4 in.; left foot; wide-leaf elements.

UU: 365. UMP: 29-42-835. PN: E-13. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 9 1/4 in.; width 3 1/4 in.; left foot; toe-heel tie; wide-leaf elements.

UU: 366. UMP: 29-43-611. PN: E-123. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 11 in.; width 4 in.; left foot; wide-leaf elements.

UU: 367. UMP: 29-43-631. PN: E-121. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 9 1/4 in.; width 4 1/4 in.; left foot; wide-leaf elements.

UU: 368. UMP: 29-43-630. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 9 1/2 in.; width 4 in.; side loop tie; wide-leaf elements.

UU: 369. UMP:--. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 10 1/4 in.; width 3 1/4 in.; right foot; wide-leaf elements.

UU: 370. UMP:--. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 10 in.; width 4 1/2 in.; left foot; side loop tie; wide-leaf elements.

UU: 371. UMP: 29-43-622. PN: E-27. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length 11 in.; width 4 1/2 in.; side loop tie; wide-leaf elements.

UU: 372. UMP: 29-43-628. PN:--. Prov.: Colorado (Mesa Verde).

Description: Sandal, plain weave (under-one-over-one). Length (incomplete) 9 1/2 in.; width 3 3/4 in.; toe-heel tie; wide-leaf elements.

MISCELLANEOUS FOOTGEAR AND LEGGINGS

Note: In addition to buckskin, rawhide, and cordage articles, sandals that do not fall into the Kidder and Guernsey sandal types are included here.

UU: 373. UMP: 29-43-675. PN:--. Prov.: Utah.

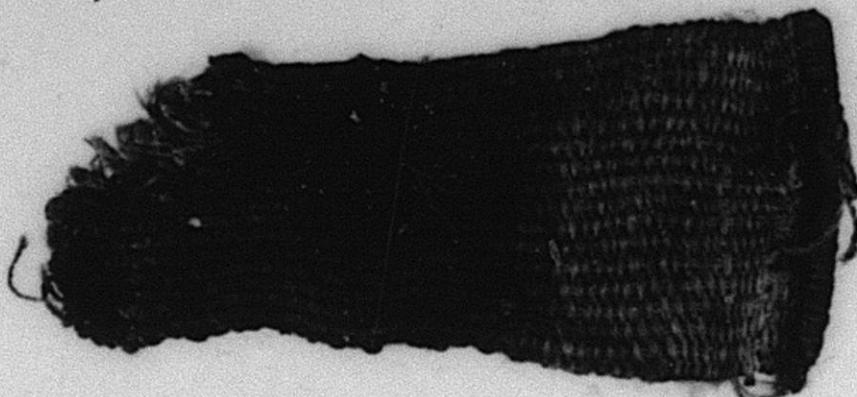


Fig. 40. Plain open weave Basketmaker sandal (UU:373).

Description:

Sandal. Square toe and heel; open weave twill; length 10 in.; width 4 3/4 in. Yucca fiber.

UU: 374. UMP: 29-42-823. PN:--. Prov.: Utah.

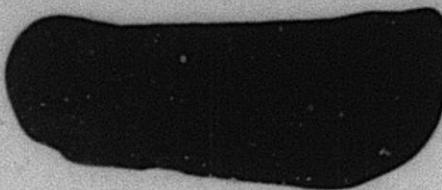


Fig. 41. Plain open weave Basketmaker sandal (UU:374). in. Yucca fiber.

Description:

Sandal. Plain open weave; square toe and heel; toe-heel tie; length 8 3/4 in.; width 4 1/4 in. Yucca fiber.

UU: 375. UMP: 29-43-706. PN:--. Prov.: SW.



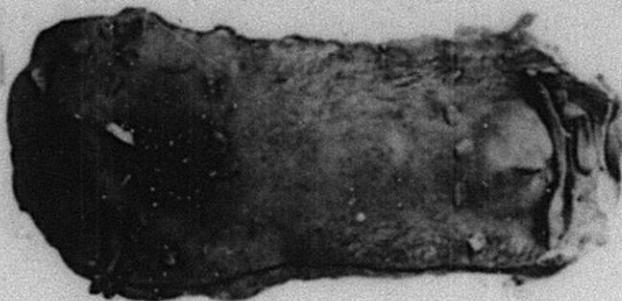
Description: Rawhide sandal, Type IV.

Shaped to right foot; jogged; buckskin

and yucca fiber tie remnants; length 8 1/4

Fig. 42. Hide sandal (UU:375). in.; width 3 in.

UU: 376. UMP: 29-43-704. PN: E-26. Prov.: SW.



Description: Buckskin

sandal, Type IV. Double

thickness sewn together with

buckskin; buckskin toe-heel

tie; length 11 1/4; width

5 1/2 in.

Fig. 43. Buckskin sandal (UU:376).

UU: 377. UMP: --. PN:--. Prov.: Not indicated.



Description: Pair of buckskin

boots. Sole extends 1 1/2 in.

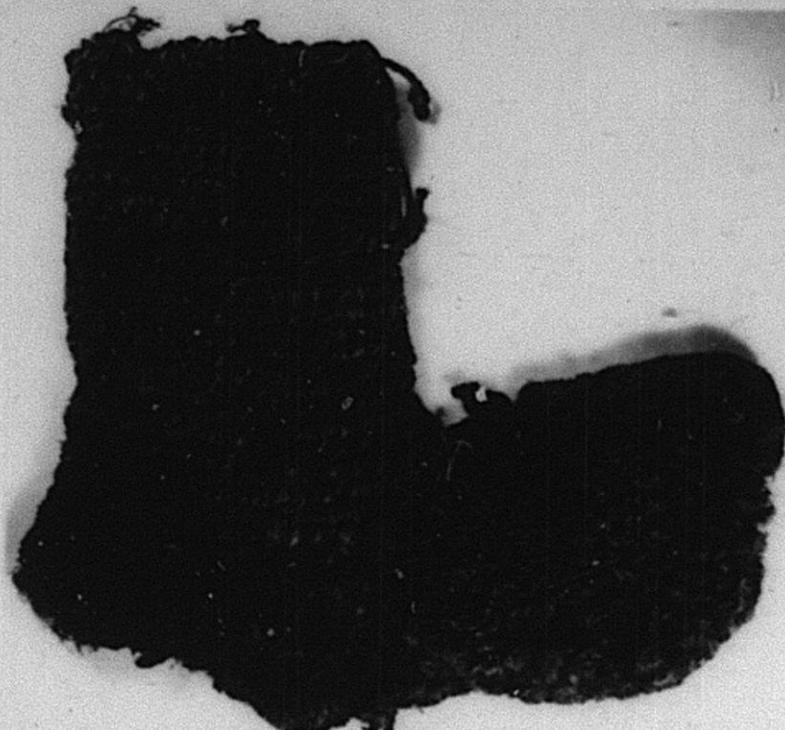
up side of foot; legging is 5 1/2

in. high; puckerred vamp painted

red; length 9 1/2 in.

Fig. 44. Buckskin boot (UU:377).

UU: 378. UMP: 29-43-114. PN:--. Prov.: Colorado.



Description:

Stocking of fiber
cord and hide. Coil-
without-foundation
(Kidder and Guern-
sey, 1919, 117) or
closed loop (Kent,
1957, 586-7); length
10 1/2 in.; height
7 in.; for right foot.

Fig. 45. Stocking. Coil-without-foundation weave (UU:378).

UU: 379. UMP: 29-43-121. PN:--. Prov.: Colorado.

Description: Stocking. Coil-without-foundation; identical to No. 378 except
made for left foot.

UU: 380. UMP: 29-43-123. PN: B-4, F-11. Prov.: Utah. "...found with
skull of cave dweller."

Description: Legging of hair cordage; two pieces sewn together; 15 in. long;
dia. (?) 5 in.

UU: 381. UMP: 29-43-737. PN:--. Prov.: Colorado.

Description: Dia. 8 in.; yucca; yucca leaf net attached.

UU: 382. UMP: 29-43-738. PN:--. Prov.: Colorado.

Description: Dia. 7 1/2 in.; juniper bark; yucca leaf net attached.

UU: 383. UMP: 29-43-736. PN:--. Prov.: Colorado.

Description: Dia. 7 1/2 in.; yucca; yucca leaf net attached.

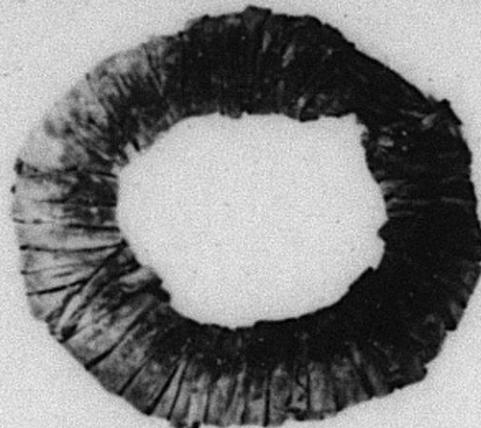
UU: 384. UMP: 29-43-735. PN:--. Prov.: Colorado.

Description: yucca; fragmentary.

UU: 385. UMP: 29-42-907. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; wrapped with yucca leaf.

UU: 386. UMP: 29-42-877. PN:--. Prov.: Utah (ruin on Colorado River).



Description: Dia. 8 in.; juniper bark;
wrapped with yucca leaf.

UU: 387. UMP: 29-42-878. PN:--.

Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; wrap-
ped with yucca leaf.

Fig. 46. Juniper bark core, yucca
leaf-wrapped pot rest (UU:386).

UU: 388. UMP: 29-42-874. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 9 1/2 in.; yucca; wrapped with yucca leaf.

UU: 389. UMP: 29-43-873. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 7 in.; yucca; wrapped with yucca leaf.

UU: 390. UMP: 29-43-871. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 3/4 in.; yucca; wrapped with yucca leaf.

UU: 391. UMP: 29-43-881. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 10 in.; yucca; oval; wrapped with yucca leaf.

UU: 392. UMP: 29-43-887. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; wrapped with yucca leaf.

UU: 393. UMP: 29-42-875. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 6 in.; yucca; wrapped with yucca leaf.

UU: 394. UMP: 29-42-874. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; wrapped with yucca leaf.

UU: 395. UMP: 29-42-882. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; wrapped with yucca leaf.

UU: 396. UMP: 29-42-880. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 1/2 in.; yucca; wrapped with yucca leaf.

UU: 397. UMP: 29-42-288. PN: E-141. Prov.: Utah (ruin on Colorado River).

Description: Dia. 5 3/4 in.; juniper bark; partial vessel net of cord; ring wrapped with corn husk.

UU: 398. UMP: 29-42-886. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 6 in.; juniper bark; cord net attached.

UU: 399. UMP: 29-42-900. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 5 1/4 in.; yucca; corn husk and fiber wrapped.

UU: 400. UMP: 29-42-893. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; loosely tied with yucca leaf.

UU: 401. UMP: 29-42-901. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; loosely tied with yucca leaf.

UU: 402. UMP: 29-42-897. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; loosely tied with yucca leaf.

UU: 403. UMP: 29-42-890. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 9 in.; yucca; loosely tied with yucca leaf.

UU: 404. UMP: 29-42-898. PN: E-142. Prov.: Utah (ruin on Colorado River).

Description: Dia. 7 in.; yucca; loosely tied with yucca leaf.

UU: 405. UMP: 29-42-899. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 6 1/2 in.; crushed fiber; cordage wrapped.

UU: 406. UMP: 29-42-889. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 5 in.; corn leaves and flowers; yucca leaf wrapped.

UU: 407. UMP: 29-42-909. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 6 in.; yucca; corn husk wrapped; cord net attached.

UU: 408. UMP: 29-42-908. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 7 1/2 in.; yucca; wrapped with turkey feather cordage.

UU: 409. UMP: 29-42-903. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; wrapped with yucca leaf.

UU: 410. UMP: 29-42-902. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 8 in.; yucca; wrapped with yucca leaf.

UU: 411. UMP: 29-42-911. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Dia. 6 1/2 in.; corn leaf core; wrapped with woven cotton (?) cloth; cloth tied with buckskin.

UU: 412. UMP: 29-43-744. PN:--. Prov.: Colorado.

Description: Dia. 11 in.; yucca; yucca leaf jar net attached.

UU: 413. UMP: 29-43-743. PN:--. Prov.: Colorado.

Description: Dia. 5 1/2 in.; juniper bark; juniper bark tie.

UU: 414. UMP: 29-42-876. PN:--. Prov.: Utah (ruin on Colorado River).

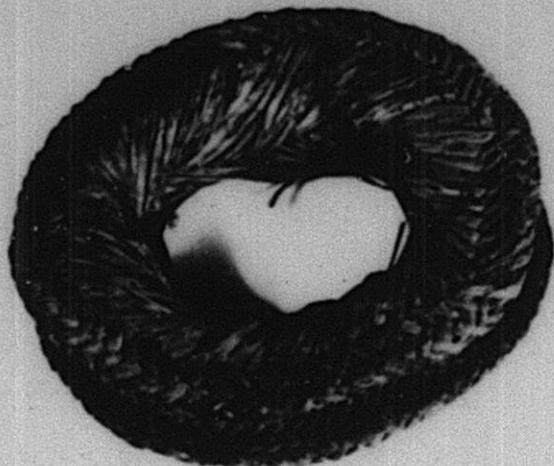


Fig. 47. Twill woven spool-shaped jar or head rest (UU:414).

Description: Jar or head rest.

Spool shaped; dia. 5 3/4 in.; twill woven (under-two-over-two).

UU: 415. UMP: 29-42-896.

PN:--. Prov.: Utah (cave on Colorado River).

Description: Jar or head rest. Spool shaped; dia 5 3/4 in.; twill woven (under-two-over-two).

UU: 416. UMP: 29-42-891. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Jar or head rest. Spool shaped; dia. 5 in.; twill woven (under-two-over-two).

UU: 417. UMP: 29-42-892. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Jar or head rest. Spool shaped; dia. 5 3/4 in.; twill woven (under-two-over-two).

UU: 418. UMP: 29-42-906. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Jar or head rest. Spool shaped; dia. 4 in.; twill woven
(under-two-over-two).

UU: 419. UMP: 29-42-905. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Jar or head rest. Spool shaped; dia. 4 3/4 in.; twill woven
(under-two-over-two).

UU: 420. UMP: 29-42-904. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Jar or head rest. Spool shaped; dia. 5 1/2 in.; twill woven
(under-two-over-two).

BASKETRY-SPLINT RINGS

UU: 421. UMP: 29-42-872. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Yucca leaf ring. Dia. 8 1/2 in.

UU: 422. UMP: 29-43-742. PN:--. Prov.: Colorado.

Description: Yucca leaf ring. Dia. 10 in.; tied with yucca leaf.

UU: 423. UMP: 29-43-740. PN:--. Prov.: Colorado.

Description: Splint ring. Dia. 8 1/2 in.; squaw bush (?).

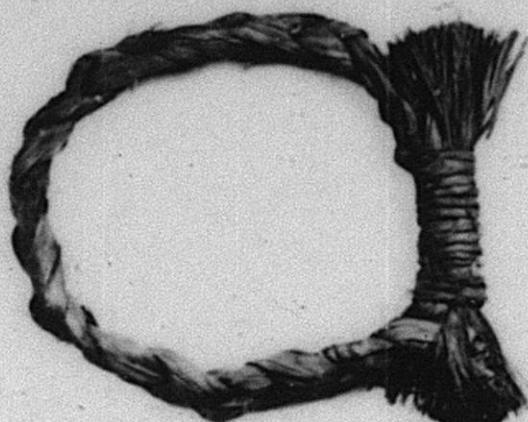
UU: 424. UMP: 29-43-68. PN:--. Prov.: Utah (cave on Colorado River).

Description: Shredded juniper bark torch. Dia. 1 in.; length 13 in.; base wrapped with yucca leaf; loose end scorched.

UU: 425. UMP: 29-43-67. PN:--. Prov.: Utah (cave on Colorado River).

Description: Shredded juniper bark torch. Dia. 2 1/2 in.; length 11 1/2 in.; one end bound with yucca leaf.

UU: 426. UMP: 29-43-55. PN:--. Prov.: Utah (cave on Colorado River).



Description: Head band (?) of braided, shredded juniper bark. Dia. 6 in.; ends bound by juniper bark wrapping which also encloses 7 in.-long hank of shredded yucca.

Fig. 48. Juniper bark head band (?) (UU:426).

UU: 427. UMP: 29-43-745. PN:--. Prov.: Colorado.

Description: Ring of juniper bark. Dia. 7 in.; tied with yucca leaves.

UU: 428. UMP: 29-43-74. PN: H-171. Prov.: Utah (cave on Colorado River).

Description: Mat. Width 9 in.; length 7 in.; bark is twined across wefts in "V" pattern, leaving long loose ends.

UU: 429. UMP: 29-43-82. PN: L-78. Prov.: Utah (cave on Colorado River).

Description: Torch. Length 6 1/2 in.; dia. 1 1/2 in.; end wrapped with yucca leaf; loose end scorched.

UU: 430. UMP: 29-43-84. PN: L-77. Prov.: Utah (cave on Colorado River).

Description: Torch. Length 7 in.; dia. 3/4 in.; one end wrapped with juniper bark; opposite end scorched.

UU: 431. UMP: 29-43-78. PN: B-66. Prov.: Utah (cave on Colorado River).

Description: Shredded juniper bark bundle. Length 7 in.; width 3/4 in.; thickness 1 1/2 in.; several folds stuck together with unknown substance.

UU: 432. UMP: 29-43-80. PN: B-65. Prov.: Utah (cave on Colorado River).

Description: Shredded juniper bark pad. Length 5 1/2 in.; width 1 1/4 in.

UU: 433. UMP: 29-43-83. PN:--. Prov.: Utah (cave on Colorado River).

Description: Small fragment of woven juniper bark blanket (?).

UU: 434. UMP: 29-42-894. PN:--. Prov.: Utah (cave on Colorado River).

Description: Shredded juniper bark ring. Dia. 6 in.; bound with cordage.

UU: 435. UMP: 29-42-895. PN:--. Prov.: Utah (cave on Colorado River).

Description: Shredded juniper bark ring. Dia. 6 in.; bound with yucca leaves.

BRUSHES

UU: 436. UMP: 29-43-64. PN:--. Prov.: Utah (cave on Colorado River).

Description: Brush of grass stems bound with yucca cord tie at center; length 5 in.; dia. 5/8 in.

UU: 437. UMP: 29-43-66. PN: B-70(?). Prov.: Utah (cave on Colorado River).

Description: Brush of grass stems, yucca fiber tie. Length 5 in.; dia. 1 in.

UU: 438. UMP: 29-43-65. PN:--. Prov.: Utah (cave on Colorado River).

Description: Brush of grass stems, cord tie. Length 6 in.; dia. 1 3/8 in.

UU: 439. UMP: 29-43-63. PN:--. Prov.: Utah (cave on Colorado River).

Description: Brush of grass stems, cord tie. Length 9 1/2 in.; dia. 1 1/2 in.

UU: 440. UMP: 29-43-62. PN:--. Prov.: Utah (cave on Colorado River).

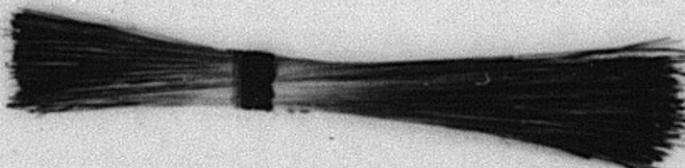


Fig. 49. Brush of grass stems tied by yucca fiber cord (UU:440).

Description: Brush of grass stems, cord tie. Length 17 in.; dia. 1 1/2 in.; human hair clinging to end.

UU: 441. UMP: 29-43-61. PN:--. Prov.: Utah (cave on Colorado River).

Description: Brush of grass stems, cord tie. Length 14 in.; dia. 1 1/4 in.

UU: 442. UMP: 29-43-60. PN: L-20. Prov.: Utah (cave on Colorado River).

Description: Brush of grass stems, cord tie. Length 14 in.; dia. 1 1/2 in.

UU: 443. UMP: 29-43-70. PN:--. Prov.: Utah (cave on Colorado River).

Description: Brush of grass stems, cord tie. Length 14 in.; dia. 1 1/4 in.

UU: 444. UMP: 29-43-88. PN:--. Prov.: Utah (cave on Colorado River).

Description: Brush of grass stems, tie missing. Length 18 in.; dia. 2 1/8 in.

UU: 445. UMP:--. PN:--. Prov.: Utah (cave on Colorado River).

Description: Brush of rice grass, flowers intact, yucca leaf tie. Length 12 in.; dia. 1/2 in.

UU: 645. UMP: 29-43-47. PN:--.

Prov.: Utah (cave on Colorado River).

Description: 1/2 in.-dia. stick with yucca fiber bristles attached to form brush.

Fig. 50. Stick handle brush
(UU:645).



CORN PLANT ARTIFACTS



UU: 446. UMP: 29-43-58.

PN:--. Prov.: Utah (cave on Colorado River).

Description: Remnants of corn ears, husks pulled back and tied together with yucca leaf, apparently for suspension while drying. (18 remnants).

Fig. 51. Corn ear suspension-for-drying method (UU:446).

UU: 447. UMP:--. PN: L-2. Prov.: Not indicated.

Description: Bundle of folded bark with corn husk wrap and yucca leaf tie.

Length 2 3/4 in.; dia. 1 1/2 in.

UU: 448. UMP: 29-43-77. PN:--. Prov.: Utah (cave on Colorado River).

Description: Corn husks folded in bundle. Length 7 in.; dia. 1 in.

UU: 449. UMP: 29-43-159. PN:--. Prov.: Colorado.

Description: Charm (?) of 11 corncob sections 1 - 1 1/2 in. long tied into bundle with yucca fiber yarn.

UU: 450. UMP: 29-43-75. PN:--. Prov.: Colorado.



Description: Yucca leaf chain
for corn suspension. Corn ear
remnants in 6 links. Fiber
cord attached to chain 10 in.
long with resin globules 2 1/2 in.
apart.

Fig. 52. Yucca leaf chain for corn ear
suspension, corn remnants intact (UU:450).

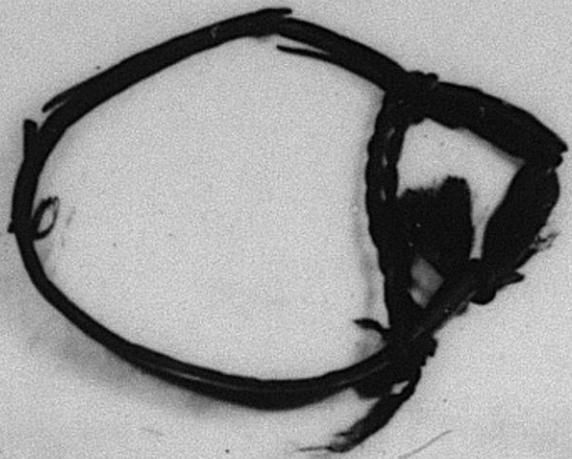
UU: 451. UMP: 29-43-222. PN:--. Prov.: Colorado.

Description: Six parallel cobs bound with cord.

UU: 702. UMP: 29-43-7. PN:--. Prov.: Utah (Colorado River).

Description: Spindle. Length 18 in.; pointed ends; corncob whorl with some
cotton fiber clinging to cob.

UU: 452. UMP: 29-43-54. PN:--. Prov.: Utah (cave on Colorado River).



Description: Head band (?).

Dia. 6 in.; consists of two wideleaf yucca leaves laid together, butt ends opposite. Butt ends are tied with cord with butts protruding beyond tie.

UU: 453. UMP: 29-43-748.

Fig. 53. Yucca leaf head band (?)
(UU:452).

PN: E-145. Prov.: Colorado.

Description: Four yucca leaves knotted together and pulled into 4 1/2 in. dia. ring, tied in 4 places with yucca leaf.

UU: 454. UMP: 29-43-747. PN:--. Prov.: Colorado.

Description: Yucca leaf bundle (loom anchor?). Length 9 in.; tied with yucca leaf.

UU: 455. UMP: 29-43-746. PN:--. Prov.: Colorado.

Description: Lanceolate two-warp wickerwork object. Length 4 in.

UU: 456. UMP: 29-43-69. PN:--. Prov.: Utah (cave on Colorado River).

Description: Bundle of yucca leaves bound with feather cordage. Leaves parallel, butt ends together; length 17 in.; dia. 4 in.

UU: 457. UMP: 29-43-79. PN:--. Prov.: Utah (cave on Colorado River).

Description: Yucca leaf bundle, leaves bent in S-shape and tied.

UU: 458. UMP: 29-43-156. PN:--. Prov.: Utah (cave on Colorado River).

Description: Bundle of chewed (?) yucca leaves with expanding ends.

Length 3 3/4 in.; dia. 2 in.; held together by sticky substance. Perforated (for suspension?).

UU: 459. UMP: 29-43-161. PN:--. Prov.: Colorado.

Description: Small bundle of folded yucca leaves tied at center. Length 3 1/2 in.

UU: 460. UMP: 29-43-172. PN:--. Prov.: SW.

Description: Cord of 3 Z-twisted yucca leaves. Length 12 in.

UU: 461. UMP: 29-43-171. PN: H-156. Prov. SW.

Description: Small bundle of folded yucca leaves tied at center. Length 4 in.

UU: 462. UMP: 29-43-170. PN:--. Prov.: SW.

Description: Small curving pad of under-one-over-one weave interval.

Length 6 in.; width 1 1/2 in.; element ends protrude from one end; opposite end is finished square.

UU: 463. UMP:--. PN:--. Prov.: SW.

Description: Small circular fragment of net. Dia. 5 in.; coil-without-foundation weave of yucca leaves.

UU: 464. UMP: 29-43-757. PN: L-80. Prov.: SW.

Description: Ball; Dia. 2 1/2 in.; yucca leaves knotted together in long strand.

UU: 465. UMP: 29-43-788. PN: L-6. Prov.: SW.

Description: Object of 15 bunched yucca leaves, each looped around the bundle, under itself, and left protruding 2 1/2 in. to side along main stem, 6 in. long.

UU: 466. UMP: 29-43-769. PN:--. Prov.: SW.

Description: Belting of plain weave yucca leaves, knotted to itself. Dia. approx. 2 in.

UU: 467. UMP: 29-42-288. PN:--. Prov.: Not indicated.

Description: Small yucca fiber ring. Dia. 5 in.

UU: 468. UMP: 29-43-72. PN:--. Prov.: Utah (cave on Colorado River).

Description: Sheaf of approx. 20 yucca leaves tied with yucca leaf; ends of some are knotted.

UU: 469. UMP: 29-43-76. PN: L-88. Prov.: Utah (cave on Colorado River).

Description: Yucca leaf chain for stringing corn for drying.

Tabular Wood Blocks

Note: The following tabular blocks were probably used variously as umbilical pads, scoops, lapboards, etc. All are partially or completely smoothed.

UU: 475. UMP: 29-43-939. PN:--. Prov.: SW.

Description: 4 1/2 x 2 1/2 x 1/2 in.; no perforations; smoothed, rounded corners; beveled ends.

UU: 476. UMP: 29-43-937. PN:--. Prov.: SW.

Description: 7 x 6 1/2 in.; no perforations; curving bark, possibly part of cradleboard.

UU: 477. UMP: 29-43-956. PN:--. Prov.: SW.

Description: 12 3/4 x 4 1/4 x 1/2 in.; perforations: corner, 1; center, long edge, 1.

UU: 478. UMP: 29-43-943. PN:--. Prov.: Colorado (Mesa Verde; Cliff Palace site).

Description: 12 3/4 x 4 3/4 x 3/4 in.; perforations: corner, 1; center, long edge, 1. One square, one rounded end.

UU: 479. UMP: 29-43-955. PN:--. Prov.: SW.

Description: 13 x 5 1/4 x 1/2 in.; no perforations; one end cut diagonally.

UU: 480. UMP: 29-43-457. PN:--. Prov.: SW.

Description: 13 1/4 x 4 (incomplete) x 1/4 in.; no perforations; concave-convex; one rounded end.

UU: 481. UMP: 29-43-944. PN:--. Prov.: SW.

Description: 13 1/4 x 4 x 3/8 in.; 6 perforations scattered along edges; one rounded end.

UU: 482. UMP: 29-43-972. PN:--. Prov.: Utah.

Description: 11 x 3 1/4 x 1/4 in.; perforations: corner, 1; center, long edge, 1. Irregular outline.

UU: 483. UMP: 29-43-958. PN:--. Prov.: SW.

Description: 10 1/2 x 4 in.; elongated oval; strongly concave-convex; basin stained.

UU: 484. UMP: 29-43-954. PN:--. Prov.: SW.

Description: 11 3/4 x 3 1/4 (incomplete) x 1/2 in.; 2 perforations along one edge; incomplete; perforations retain remnants of yucca.

UU: 485. UMP: 29-43-945. PN: H-14. Prov.: SW.

Description: 14 1/4 x 3 1/2 x 1/2 in.; no perforations; troughed oval; one squared end.

UU: 485. UMP: 29-43-938. PN:--. Prov.: SW.

Description: 15 1/4 x 3 1/4 x 3/8 in.; 2 perforations at corners of round end; one rounded end.

UU: 486, a. UMP: 29-43-953. PN:--. Prov.: SW.

Description: 15 1/2 x 2 x 1/4 in.; perforations: corner, 1; center, 1. One rounded end.

UU: 486, b. UMP: 29-43-940. PN: F-114. Prov.: SW.

Description: 5 x 3 1/2 x 3/4 in.; perforations at corners of one end; bark block, probably umbilical pad.

UU: 486, c. UMP: 29-43-941. PN:--. Prov.: Utah (Lake Canyon; found with Basketmaker mummy).

Description: 6 x 4 1/2 x 3/4 in.; umbilical pad.

UU: 486, d. UMP: 29-43-942. PN: F-98. Prov.: Utah.

Description: 7 x 4 1/2 x 1 in.; concave-convex; rounded corners.

UU: 486, e. UMP: 29-43-959. PN:--. Prov.: SW.

Description: 10 1/4 x 5 1/4 x 1/2 in.; concave-convex; rounded corners.

UU: 486, f. UMP: 29-43-963. PN:--. Prov.: SW.

Description: 23 1/2 x 5 3/4 x 1/2 in.; perforations: corners of one end.

UU: 486, g. UMP: 29-43-965. PN:--. Prov.: SW.

Description: 19 1/2 x 7 1/2 x 1 in.; perforations: 3 corners; one perforation with yucca cord fragment.

UU: 486, h. UMP: 29-43-960. PN:--. Prov.: SW.

Description: 19 3/4 x 5 3/4 x 1 in.; perforations: corners of one end.

UU: 486, i. UMP: 29-43-964. PN:--. Prov.: SW.

Description: 20 3/4 x 8 1/2 x 1 in.; perforations: corners of one end; center, each long edge.

UU: 486, j. UMP: 29-43-962. PN:--. Prov.: SW.

Description: 19 x 6 1/4 x 1 in.; perforations: corners of one end.

UU: 486, k. UMP: 29-43-323. PN:--. Prov.: SW.

Description: 9 1/2 x 2 3/4 x 1 in.; oval; convex-concave.

UU: 486, l. UMP: 29-43-981. PN:--. Prov.: SW.

Description: 13 x 4 1/2 x 1/2 in.; perforations: two corners of one edge, center of opposite edge.

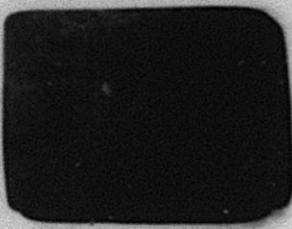
UU: 486, m. UMP: 29-43-975. PN:--. Prov.: Utah.

Description: 13 x 5 x 1/2 in.; perforations: one corner, one edge (off center).

UU: 486, n. UMP: 29-43-973. PN:--. Prov.: Utah.

Description: 13 3/4 x 4 1/4 x 1/2 in.; perforations: one corner; one edge (off center).

UU: 486, o. UMP: 29-43-976. PN:--. Prov.: Utah.


Description: 8 1/2 x 6 1/4 x 3/4 in.; perforations: two corners; center, one edge.

UU: 486, p. UMP: 29-43-980. PN:--. Prov.: Utah.

Description: 13 x 4 1/2 x 1/2 in.; perforations:
Fig. 54. Perforated wooden tablet (UU:486, one corner, center of one edge.
o).

UU: 486, q. UMP: 29-43-979. PN:--. Prov.: Utah.

Description: 10 1/4 x 5 3/4 x 1/2 in.; perforations: center, one edge.

UU: 486, r. UMP: 29-43-982. PN:--. Prov.: Utah.

Description: 10 3/4 x 3 x 1/2 in.; 3 perforations; irregular outline.

UU: 486, s. UMP: 29-43-978. PN: F-100. Prov.: Utah.

Description: 9 1/2 x 3 1/2 x 1/2 in.; irregular outline.

UU: 486, t. UMP: 29-43-970. PN:--. Prov.: Utah.

Description: 5 x 5 1/4 x 1/4 in.; no perforations; irregular outline.

UU: 486, u. UMP: 29-43-974. PN:--. Prov.: Utah.

Description: 9 x 5 1/2 x 1 in.; no perforations; irregular outline.

UU: 486, v. UMP: 29-43-971. PN:--. Prov.: Utah.

Description: 10 x 4 x 1 in.; no perforations; irregular outline.

UU: 486, w. UMP: 29-43-977. PN:--. Prov.: Utah.

Description: 11 1/4 x 4 1/2 x 3/4 in.; no perforations; irregular outline.

UU: 486, x. UMP: 29-43-961. PN:--. Prov.: SW.

Description: 8 x 5 1/2 x 1 in.; no perforations; irregular outline.

UU: 486, y. UMP: 29-43-967. PN:--. Prov.: SW.

Description: 8 x 4 x 1 1/2 in.; no perforations; irregular outline.

UU: 652. UMP: 29-43-26. PN:--. Prov.: Utah (cave on Colorado River).

Description: Rectangular block 4 1/4 x 1 1/4 x 1 1/4 in.; 1/4 in. -deep hole drilled in one end.

UU: 722. UMP: 29-43-801. PN: F-16. Prov.: SW.

Description: Umbilical pad. Trapezoidal; 8 x 6 in. and 5 x 1 in. Concave-convex. Sheepskin stretched over and sewn.

UU: 760. UMP: 29-43-793. PN: L-60. Prov.: Not indicated.

Description: Flat, rectangular wood block, 3 x 8 in. Decorated with red, blue, and brown feathers; completely wrapped with cord; feathers laid lengthwise and held by spaced cords around block.

Arrow or Dart Foreshafts

Note: The following foreshafts are wood.

UU: 490. UMP: 29-43-828. PN:--. Prov.: SW.

Description: Total length 10 3/4 in.; tang length 3 in.; sharp shoulder.

UU: 491. UMP: 29-43-849. PN: F-121. Prov.: SW.

Description: Total length 7 in.; tang length 1 in.; sharp shoulder; notched tip; resin traces on tang.

UU: 492. UMP: 29-43-836. PN:--. Prov.: SW.

Description: Total length 7 1/2 in.; tang length 1 1/2 in.; sharp shoulder.

UU: 493. UMP: 29-43-829. PN:--. Prov.: SW.

Description: Total length 9 1/4 in.; tang length 3 in.; sharp shoulder.

UU: 494. UMP: 29-43-852. PN:--. Prov.: SW.

Description: Total length 11 in.; tang length 1 1/2 in.; sharp shoulder; blunt tip; resin traces on tang.

UU: 495. UMP: 29-43-830. PN:--. Prov.: SW.

Description: Total length 10 1/4 in.; tang length 1 1/2 in.; sharp shoulder.

UU: 496. UMP: 29-43-864. PN:--. Prov.: SW.

Description: Total length 9 1/4 in.; tang length 1 1/8 in.; sharp shoulder;

notched tip; resin traces on tang; sinew binding at top.

UU: 497. UMP: 29-43-845. PN:--. Prov.: SW.

Description: Total length 6 3/4 in.; tang length 1 1/8 in.; sharp shoulder; resin traces on tang; fire-hardened point.

UU: 498. UMP: 29-43-848. PN: F-55. Prov.: SW.

Description: Total length 8 3/4 in.; tang length 2 1/8 in.; sharp shoulder.

UU: 499. UMP: 29-43-851. PN: F-21. Prov.: Utah (Deep Canyon).

Description: Total length 10 1/4 in.; tang length 1 1/4 in.; sharp shoulder; notched tip.

UU: 500. UMP: 29-43-850. PN:--. Prov.: SW.

Description: Total length 10 3/4 in.; tang length 2 3/4 in.; sharp shoulder; resin on tang.

UU: 501. UMP: 29-43-843. PN:--. Prov.: SW.

Description: Total length 11 1/4 in.; tang length 5/8 in.; sharp shoulder.

UU: 502. UMP: 29-43-830. PN:--. Prov.: SW.

Description: Total length 10 1/4 in.; tang length 1 1/2 in.; sharp shoulder.

UU: 503. UMP: 29-43-835. PN: F-65. Prov.: SW.

Description: Total length 8 in.; tang length 1 1/2 in.; sharp shoulder; tip wrapped with fiber.

UU: 504. UMP: 29-43-853. PN: F-42. Prov.: Utah.

Description: Total length 9 1/4 in.; tang length 1 in.; sharp shoulder.

UU: 505. UMP: 29-43-846. PN:--. Prov.: SW.

Description: Total length 9 3/4 in.; tang length 3/4 in.; sloped shoulder; blunt tip; tip fire-hardened.

UU: 506. UMP: 29-43-847. PN:--. Prov.: SW.

Description: Total length 11 3/4 in.; tang length 3 1/4 in.; sharp shoulder.
Dart foreshaft; feather vane attached to tang.

UU: 507. UMP: 29-43-842. PN:--. Prov.: SW.

Description: Total length 9 1/2 in.; sloped shoulder; 4 spaced grooves
extending length of shaft.

UU: 508. UMP: 29-43-831. PN:--. Prov.: SW.

Description: Foreshaft, set in fragment of reed mainshaft.

UU: 509. UMP: 29-43-833. PN:--. Prov.: SW.

Description: Total length 7 1/2 in.; tang length 2 1/4 in.; sharp shoulder;
notched tip; set in fragment of reed mainshaft.

UU: 510. UMP: 29-43-834. PN:--. Prov.: SW.

Description: Total length 11 1/4 in.; tang length 2 3/4 in.; sharp shoulder;
set in fragment of reed mainshaft; tip fire-hardened.

UU: 511. UMP: 29-43-837. PN: F-70. Prov.: SW.

Description: Total length 4 in.; tang length 1 1/2 in.; sharp shoulder.

UU: 511, a. UMP: 29-43-870. PN:--. Prov.: Utah.

Description: Shouldered arrow foreshaft.

UU: 511, b. UMP: 29-43-891. PN:--. Prov.: Utah (Deep Canyon).

Description: Notched tip; expanded shoulder; arrow foreshaft.

UU: 511, c-1. UMP: 29-43-890, 894, 895, 893, 897, 892, 899, 911, 844, 827.

PN:--. Prov.: Utah (Deep Canyon).

Description: Expanded shoulder; arrow foreshafts.

UU: 694. UMP: 29-42-671. PN:--. Prov.: Utah (Colorado River).

Description: Atlatl dart foreshaft. Wood foreshaft length 8 in.; dia. 1/4 in.; large side-notched point secured with sinews.

UU: 711, b. UMP: 29-43-932. PN:--. Prov.: Utah.

Description: Atlatl dart foreshaft with point (MVNP).

Composite Dart

UU: 695. UMP: 29-43-950. PN:--. Prov.: Not indicated.

Description: Composite dart (?). Wooden shaft 22 1/2 in. long with sinew warps at ends and wavy, incised lines on body. Needle-like bone point 4 1/2 in. long, set into cup in shaft.

Arrow Mainshafts

UU: 560. UMP: 29-43-861. PN:--. Prov.: Utah.

Description: Reed arrow mainshaft fragment. Red and black band decoration; sinew ties; vane fragments.

UU: 561. UMP: 29-43-43. PN: F-129. Prov.: Utah (cave on Colorado River).

Description: Reed arrow mainshaft fragment. Red band decoration.

UU: 562. UMP: 29-42-982. PN: F-79. Prov.: Utah (cave on Colorado River).

Description: Nock end from large wooden shaft.

UU: 563. UMP: 29-43-880. PN: F-82. Prov.: Utah (Deep Canyon).

Description: Reed arrow mainshaft. Black and red band decoration; sinew vane wrappings; wooden nock reinforcement.

UU: 564. UMP: 29-43-883. PN: F-63. Prov.: Utah (Deep Canyon).

Description: Reed arrow mainshaft; sinew wrapped vanes. Red band decoration.

UU: 565. UMP: 29-43-881. PN:--. Prov.: Utah (Deep Canyon).

Description: Reed arrow mainshaft; sinew wrapped vanes. Red band decoration.

Arrows

UU: 566. UMP:--. PN:--. Prov.: Not indicated.

Description: Wooden arrow. Length 33 3/4 in.; nocked; notched to receive point; no decoration.

UU: 567. UMP: 29-43-799. PN:--. Prov.: SW.

Description: Wooden arrow fragment. Length 28 in.; tip broken; sinew vane wrapping.

UU: 568. UMP: 29-43-797. PN:--. Prov.: SW.

Description: Wooden arrow. Length 26 in.; butt nocked; tip blunt. Red and black band decoration; sinew vane wrapping.

UU: 569. UMP: 29-43-798. PN:--. Prov.: SW.

Description: Wooden arrow. Length 28 1/2 in.; pointed tip; nocked butt. No decoration; sinew vane wrappings.

UU: 570. UMP: 29-43-797. PN:--. Prov.: SW.

Description: Red-painted wooden arrow. Length 21 1/2 in.; pointed tip; nocked butt; sinew vane wrappings.

UU: 571. UMP:--. PN:--. Prov.: Not indicated.

Description: 3 composite reed and wood arrows. Total length 36-38 in.; wooden foreshafts 8 in. long; butts nocked; undecorated; sinew vane wrappings; notched to receive points.

UU: 576. UMP:--. PN: F-82. Prov.: Not indicated.



Description:

2 composite

reed and wood

foreshaft

Fig. 55. Two composite reed/wood arrows; stone points intact (UU:576).

arrows. Length 33 in. including 8 in. foreshaft; wooden nocks inserted in reed mainshaft; sinew-vane wrapping; small side-notched triangular points held by sinew wrappings. Red and black decoration.

Spear

UU: 575. UMP: 29-42-960. PN: F-83. Prov.: Utah (Lake Canyon).



Description: Spear.

Length 42 1/2 in.;

Fig. 56. Spear with broken point (UU:575).
tapers from pointed butt to spatulate tip with stone-point base held by
sinew wrapping and resin. Shaft dia. 1 in.

Atlatl

UU: 696. UMP: 29-43-49. PN: F-130. Prov.: Utah (Colorado River).

Description: Atlatl (Mason, 1928). Length 24 1/2 in.; rawhide finger grips;
flat stone and animal tooth charms beneath grip, upper side; limonite con-
cretion on underside.

Bows

UU: 572. UMP: 29-42-962. PN:--. Prov.: SW.

Description: Bow. Length 41 1/2 in.; max. camber (relaxed) 1 1/4 in.; bow round at center, tapering and flattened to rounded tips. Repaired with sinew and bark wrapping.

UU: 573. UMP:--. PN:--. Prov.: Not indicated.

Description: Bow. Length 42 in.; max. camber (relaxed) 2 1/2 in.; flattened; tapers to ends; repaired.

UU: 574. UMP:--. PN:--. Prov.: Not indicated.

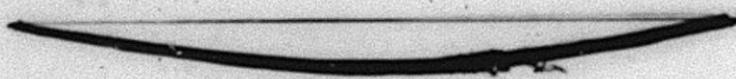


Fig. 57. Bow (UU:574).

Description: Bow.

Length 50 in.; max.

camber (relaxed)

1 3/4 in.; expanded

grip wrapped with

rawhide over buckskin; sinew wraps at 1 1/2 in. intervals. Flattened oval in cross-section; tapers to rounded tips.

UU: 577. UMP:--. PN:--. Prov.: Utah (Lake Canyon).

Description: Bow, broken to fit with burial; two composite reed and wood arrows, one wood arrow. Bow is 56 in. long, similar to No. 574 (above) but with yucca wrappings. Composite arrows have sinew vane wrappings; red and black decorations and small triangular side-notched points. Wood arrow duplicates these but has wood main- and foreshaft.

hafted Drills and Knives

UU: 693. UMP: 29-42-676. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Small, hafted drill. 5 1/2 in. nocked twig shaft; crude stone bit secured with yucca fiber binding and resin.

UU: 699. UMP: 29-42-675. PN:--. Prov: Utah (Lost Canyon).

Description: Hafted drill. Length 1 1/2 in.; irregular drill set into side of 6 in.-long stick and secured with resin and cord wrapping.

UU: 700. UMP: 29-42-674. PN: C-10. Prov.: Utah (Red Canyon).

Description: Hafted dril^y. Slender irregular bit set into end notch of peeled, smoothed stick. Handle 6 1/4 in. long with bow-string marks (?) at center.

UU: 701. UMP: 29-42-672. PN:--. Prov.: Colorado (Mancos Canyon).

Description: Hafted double-bladed knife. Haft length 9 in.; triangular, side-notched points attached with sinew at ends.

UU: 703. UMP: 29-43-665? PN:--. Prov.: Not indicated.

Description: Knife handle (blade missing). Length 4 in.; width 1 1/2 in. Fringed buckskin wrapping (handle sheath).

UU: 704. UMP: 29-43-668. PN:--. Prov.: Utah.

Description: Hafted knife. Length 5 in.; smoothed handle (Kent, 1957, Fig. 125).

UU: 705. UMP: 29-42-673. PN: C-100. Prov.: Utah (Deep Canyon).

Description: Hafted knife. Handle length 6 3/4 in.; serrated blade 1 1/4 in. long, set into notch and secured with resin.

UU: 710. UMP: 29-42-669. PN: C-92. Prov.: Utah (Lake Canyon).



Fig. 58. Hafted stone knife (UU:710).

Description: Hafted chipped stone knife. Length 8 in.; width at juncture of handle and blade 1 1/4 in.

UU: 711, c. UMP: 29-42-664. PN:--. Prov.: Utah.

Description: Hafted knife (MVNP).



Fire Making Apparatus

UU: 527. UMP: 29-42-975. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Hearth stick.

UU: 528. UMP: 29-42-475. PN: F-73. Prov.: Utah (cave on Colorado River).

Description: Hearth stick.

UU: 529. UMP: 29-42-976. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Hearth stick.

UU: 530. UMP: 29-42-973. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Hearth stick.

UU: 531. UMP: 29-42-971. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Large tablet, used secondarily as fire hearth.

UU: 532. UMP: 29-42-972. PN: F-145. Prov.: Utah (Colorado River Canyon).

Description: Fire drill mainshaft, yucca leaf tie for missing foreshaft.

UU: 533. UMP: 29-43-28. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 534. UMP: 29-43-30. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 535. UMP: 29-42-980. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 536. UMP: 29-42-29. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 537. UMP: 29-43-31. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 538. UMP: 29-43-17. PN: F-139. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 539. UMP: 29-42-983. PN: F-31. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 540. UMP: 29-43-15. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 541. UMP: 29-43-20. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 542. UMP: 29-43-13. PN: F-58. Prov.: Utah (Colorado River Canyon).

Description: Fire drill foreshaft.

UU: 542, a. UMP: 29-43-22. PN:--. Prov.: Utah (cave on Colorado River).

Description: Fire drill foreshaft, grooved from use with bowstring.

UU: 543. UMP: 29-42-974. PN:--. Prov.: Utah (cave on Colorado River).

Description: Broken fire hearth and drill, tied together with yucca leaf.

UU: 544. UMP: 29-42-969. PN:--. Prov.: Utah (cave on Colorado River).

Description: Flat stick fire hearth, 10 1/4 in. long; one end perforated as if for suspension; hearth cups at opposite end.

UU: 544, a. UMP: 29-43-877. PN:--. Prov.: Utah (cave on Colorado River).

Description: Fire hearth.

UU: 544, b. UMP: 29-42-968. PN:--. Prov.: Utah (cave on Colorado River).

Description: Fire hearth.

UU: 544, c. UMP: 29-42-790. PN:--. Prov.: Utah (near Colorado River).

Description: Fire hearth.

UU: 544, d. UMP: 29-43-979. PN:--. Prov.: Utah (cave on Colorado River).

Description: Fire hearth.

UU: 544, e. UMP: 29-43-879. PN:--. Prov.: Utah (Deep Canyon).

Description: Fire hearth (?).

UU: 545. UMP: 29-42-972. PN:--. Prov.: Utah (cave on Colorado River).

Description: Fire hearth.

UU: 546. UMP: 29-43-18. PN:--. Prov.: Utah (cave on Colorado River).

Description: Fire drill foreshaft.

UU: 578. UMP: 29-43-10. PN:--. Prov.: Utah (cave on Colorado River).

Description: Small fire drill (?) bow. Length 22 in.; nearly straight; ends grooved for bowstring; plano-convex cross-section.

Wooden Awls

UU: 547. UMP: 29-43-42. PN:--. Prov.: Utah (cave on Colorado River).

Description: Awl. Length 8 in.; rounded butt.

UU: 548. UMP: 29-42-986. PN:--. Prov.: Utah (cave on Colorado River).

Description: Awl. Length 9 3/4 in.

UU: 549. UMP: 29-42-990. PN: F-30. Prov.: Utah (cave on Colorado River).

Description: Awl. Length 8 1/2 in.; rounded butt.

UU: 550. UMP: 29-42-986. PN:--. Prov.: Utah (cave on Colorado River).

Description: Awl. Length 6 3/4 in.; flat butt.

UU: 551. UMP: 29-42-997. PN:--. Prov.: Utah (cave on Colorado River).

Description: Awl. Length 6 3/4 in.; flat butt.

UU: 552. UMP: 29-42-987. PN:--. Prov.: Utah (cave on Colorado River).

Description: Awl. Length 8 in.; flat butt.

UU: 553. UMP: 29-42-989. PN:--. Prov.: Utah (cave on Colorado River).

Description: Awl. Length 8 1/4 in.; flat butt.

UU: 554. UMP: 29-42-992. PN:--. Prov.: Utah (cave on Colorado River).

Description: Awl. Length 9 in.; flat butt.

UU: 763. UMP: 29-43-871. PN:--. Prov.: Utah.

Description: Wood awl set in pottery handle (possibly broken black-on-white dipper handle). Total length 12 in.; awl (less the tang set into handle) 9 3/4 in.

UU: 764. UMP: 29-42-241. PN: C-66. Prov.: Utah.

Description: Wood awl set in 2 1/2 in. section of deer leg bone (joint enlargement forms handle-nub); wood point 1 1/2 in. long.

Wooden Needle

UU: 708. UMP: 29-43-40. PN:--. Prov.: Utah (cave on Colorado River).

Description: Needle. Length 7 1/2 in.; flat, tapers to point; perforated, expanded base; yucca cord loop through perforation.

Wooden Scrapers

UU: 647. UMP: 29-43-39. PN: F-46. Prov.: Utah (cave on Colorado River).

Description: Wooden scraper (?). Length 7 1/2 in.; width 1 1/2 in.; one edge worn thin.

UU: 685. UMP: 29-43-915. PN: F-132. Prov.: Utah (Deep Canyon).

Description: Small, chisel-like scraper, both ends sharpened. 5 3/8 x 1 1/8 x 1/8 in.

UU: 689. UMP: 29-43-38. PN:--. Prov.: Utah (cave on Colorado River).

Description: Batten; flat stick; rounded ends. Length 24 in.; width 2 in.

UU: 698. UMP: 29-43-37. PN:--. Prov.: Utah (Colorado River).

Description: Batten; one rounded, one square end. Length 20 1/4 in.; width 2 1/2 in.

Reed and Willow Mats or Screens

UU: 697. UMP: 29-43-190. PN:--. Prov.: Not indicated.

Description: Mat of split willow limbs strung on yucca cordage; width 35 in.

UU: 742. UMP: 29-43-188. PN:--. Prov.: SW.

Description: Fragments from reed mat. Reeds (approx. 30 in. long) are laid parallel and twined together with yucca leaf.

UU: 743. UMP: 29-43-739. PN:--. Prov.: SW.

Description: Screen or mat of unidentified soft reeds strung on yucca cord. Width 29 in.; length 20 in. (incomplete?).

UU: 744. UMP: --. PN:--. Prov.: SW.

Description: Mat or screen of split willow (?) twigs. Length 56 in.; width 35 in. Slats are laid parallel, flat surfaces laid in one direction. Strings (yucca cords) are threaded through slats parallel with flat surface. Slats have squared, almost spatulate, ends. Pith canal usually in evidence entire length (width of mat).

UU: 745. UMP: 29-43-198. PN:--. Prov.: SW.

Description: Mat or screen of split willow. Length (incomplete) 11 in.; width 43 in.

UU: 746. UMP: 29-43-185. PN:--. Prov.: SW.

Description: Mat or screen of split willow. Length (incomplete) 27 in.; width 44 in.

UU: 747. UMP: 29-44-205. PN:--. Prov.: SW.

Description: Mat or screen of split willow. Length (incomplete) 57 in.; width 40 in.

UU: 748. UMP: 29-43-191. PN:--. Prov.: SW.

Description: Mat or screen of split willow. Length 62 in.; width 44 in.

UU: 749. UMP:--. PN:--. Prov.: SW.

Description: Mat or screen of split willow. Length (incomplete) 19 in.; width 37 in.

UU: 750. UMP: 29-44-207. PN:--. Prov.: SW.

Description: Mat or screen of split willow. Length (incomplete) 29 in.; width 39 in.

UU: 751. UMP: 29-43-193. PN:--. Prov.: SW.

Description: Mat or screen of split willow. Length 52 in.; width 34 in.

Wooden Crutches

UU: 711, a. UMP: 29-42-963. PN:--. Prov.: SW.

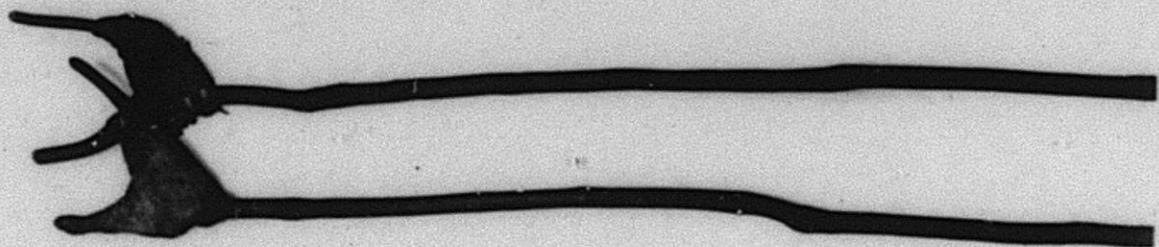


Fig. 59. Wooden crutches (UU:711, a).

Description: Pair of wooden crutches. Forked sticks, armrests padded with buckskin over yucca fiber. Length ca. 3 1/2 ft. (MVNP).

Wooden Sickle (?)

UU: 488. UMP: 29-43-947. PN: F-106. Prov.: SW.

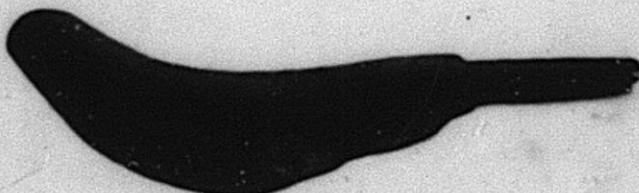


Fig. 60. Wood sickle (?) (UU:488).

Description: Polished, curving handle (sickle?). Max. length 19 in.; max. blade width 3 3/4 in.; handle 4 3/4 in. long, rounded and smoothed. Concave edge is serrated; convex edge thinned.

Wooden Spoons or Scoops

UU: 555. UMP: 29-43-872. PN: F-77. Prov.: Utah (cave on Colorado River).

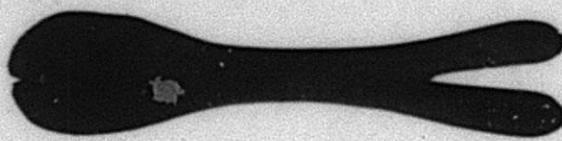


Fig. 61. Wooden spoon (UU:555).

Description: Wooden spoon.

Length 8 in.; bowl width 1 3/4 in.; thickness 1/4 in.; forked handle; scoop bowl.

UU: 711, d. UMP: 29-43-969. PN:--. Prov.: Utah.

Description: Wooden scoop (MVNP).

UU: 709. UMP: 29-43-936. PN: H-102. Prov.: Utah (Red Canyon; assoc. with mummy No. 100).

Description: Wooden dipper. Total length 8 in.; handle 5 in.; bowl 2-3 in. deep.

Cleaver-like Object

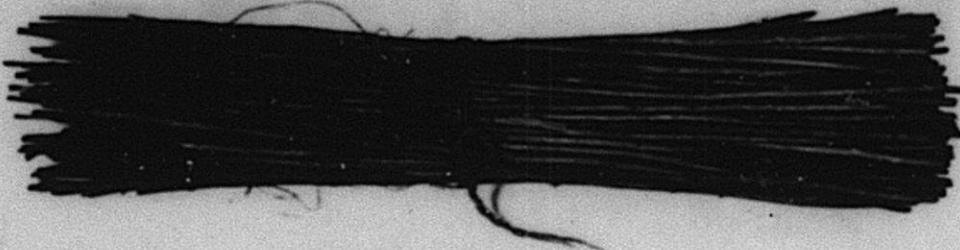
UU: 559. UMP: 29-44-328. PN:--. Prov.: SW.

Description: Flat cleaver-like wooden object 8 1/4 in. long, 3 1/2 in. wide (max.); 4 in.-long handle; shape is that of handled quadrant, the handle edge being a continuation of one of the straight edges of the quadrant.

Snare Sticks

UU: 471. UMP: 29-43-71. PN: F-136. Prov.: Utah (cave on Colorado River).

Description: Snare bundle containing approx. 100 snares. Bundle is 3 in.



dia., 16

in. long.

Individual

snares are

1/8 in. dia.,

Fig. 62. Snare bundle (UU:471).

vary in length. Each has a binding 4-6 in. from one end under which is attached a 4-6 in. hair, knotted at loose end. This tip of stick is painted red. (See Sharrock, et al., 1963, for similar bundle.)

Wooden Headdress (?)

UU: 673. UMP: 29-43-907. PN:--. Prov.: Utah (Deep Canyon).

Description: Five needle-like peeled and smoothed sticks, each with one flat end, one pointed end, held parallel by yucca fiber yarn twining at base. Also bound across center, with feathers under this binding, plume-ends toward flat ends of sticks. Probably a headdress.

"Figure 4" Trap

UU: 711. UMP: 29-43-873. PN: F-59. Prov.: Utah.

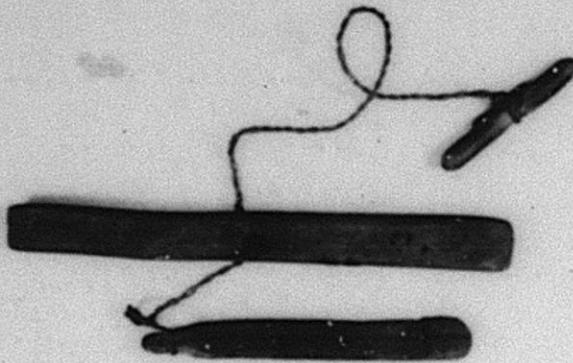


Fig. 63. "Figure 4" trap (UU:711).

Description: String apparatus, "Figure 4" trap. Elongate prop $7 \times 3/4 \times 3/8$ in.; perforated at center; one end is spatulate. 14 in.-long string

threaded through perforation. One string-end is attached to center of grooved peg; at opposite string-end is longitudinal stick-section (4 1/2 in. long), longitudinal groove on flat side, section of original circumference left as stop on one end; encircling string secured by knob at other end.

Wrapped Rings

UU: 474. UMP: 29-43-751. PN: E-138. Prov.: Colorado.

Description: 2 1/2 in. dia. stick ring wrapped with yucca leaf.

UU: 719. UMP: 29-43-754. PN: E-144. Prov.: Utah.

Description: Small ring of yucca fiber wrapped with yucca fiber. Dia. 2 in.

UU: 720. UMP: 29-43-750. PN: E-144. Prov.: Utah.

Description: Small ring of yucca fiber wrapped with yucca fiber. Dia. 3 1/2 in.

UU: 721. UMP: 29-43-752. PN:--. Prov.: Colorado.

Description: Small ring formed of cord-wrapped twig. Dia. 2 1/2 in.

Double-ring Ceremonial Object

UU: 762. UMP: 29-43-125. PN:--. Prov.: Utah (object in what was, presumably, a medicine man's kit).

Description: Ceremonial object with wood splint handle, head of two wood-splint oval rings, interlocked in "X"-position. Ring's circumference 5 in. (See Kidder and Guernsey, 1919, Fig. 64, for similar object.)

Digging and Rabbit Sticks

UU: 597. UMP: 29-42-933. PN:--. Prov.: SW.

Description: Length 38 in.; unpeeled branch; spatulate tip.

UU: 598. UMP: 29-42-916. PN:--. Prov.: SW.

Description: Length 40 in.; crooked branch; spatulate, pointed tip.

UU: 599. UMP: 29-42-930. PN:--. Prov.: SW.

Description: Length 32 1/2 in.; smoothed; knob handle; thinned, curved blade, edge on convex side.

UU: 600. UMP: 29-42-924. PN:--. Prov.: SW.

Description: Length 34 in.; knob handle; spatulate, round-cornered blade.

UU: 601. UMP: 29-42-938. PN:--. Prov.: SW.

Description: Length 35 in.; unpeeled stick; spatulate, round-cornered blade.

UU: 602. UMP: 29-42-939. PN:--. Prov.: SW.

Description: Length 21 in.; unpeeled stick; spatulate, round-cornered blade.

UU: 603. UMP: 29-42-932. PN:--. Prov.: SW.

Description: Length 40 1/2 in.; unpeeled stick; spatulate blade; tip broken.

UU: 604. UMP: 29-42-943. PN:--. Prov.: SW.

Description: Length 42 in.; peeled, smoothed branch; spatulate, round-cornered tip.

UU: 605. UMP:--. PN:--. Prov.: Not indicated.

Description: Length 35 1/2 in.; peeled stick; spatulate blade.

UU: 606. UMP: 29-42-915. PN:--. Prov.: SW.

Description: Length 24 in.; peeled, use-smoothed stick; spatulate, round-cornered tip.

UU: 607. UMP: 29-42-956. PN:--. Prov.: SW.

Description: Length 27 in.; peeled stick; pointed tip.

UU: 608. UMP: 29-42-957. PN:--. Prov.: SW.

Description: Length 20 1/2 in.; peeled stick, tapering down from rounded butt to round-pointed tip.

UU: 609. UMP: 29-42-925. PN:--. Prov.: SW. .

Description: Length 26 1/2 in.; peeled, knurled stick; spatulate, curving blade.

UU: 610. UMP: 29-42-965. PN:--. Prov.: SW.

Description: Length 30 in.; curved stick, peeled; pointed tip.

UU: 611. UMP: 29-42-918. PN:--. Prov.: Colorado (Mesa Verde; Cliff Palace).

Description: Length 22 in.; smoothed stick, expanding from butt to spatulate, rounded blade.

UU: 612. UMP: 29-42-917. PN:--. Prov.: SW.

Description: Length 23 1/2 in.; rounded butt, flattened to spatulate, round-cornered tip.

UU: 613. UMP: 29-42-940. PN:--. Prov.: SW.

Description: Length 19 in.; smoothed stick; spatulate, pointed blade.

UU: 614. UMP: 29-42-931. PN:--. Prov.: SW.

Description: Length 36 in.; smoothed, regular-surfaced, expanding from rounded butt to pointed tip.

UU: 615. UMP: 29-42-934. PN:--. Prov.: SW.

Description: Length 33 1/2 in.; smoothed, regular-surfaced shaft, spatulate, pointed tip.

UU: 616. UMP: 29-42-923. PN:--. Prov.: SW.

Description: Length 37 in.; carved knob handle; smoothed; spatulate, pointed tip.

UU: 617. UMP: 29-42-922. PN:--. Prov.: SW.

Description: Length 30 1/2 in.; carved knob handle; long, flattened spatulate blade with symmetrical edges.

UU: 618. UMP: 29-42-926. PN:--. Prov.: SW.

Description: Length 17 in.; rough-cut butt; spatulate, round-cornered tip.

UU: 619. UMP: 29-42-936. PN:--. Prov.: SW.

Description: Length 22 in.; ax-handle shape; spatulate blade.

UU: 620. UMP: 29-42-914. PN:--. Prov.: SW.

Description: Length 34 in.; rounded butt; regular-surfaced shaft; spatulate, round-cornered tip.

UU: 621. UMP: 29-42-919. PN:--. Prov.: SW.

Description: Length 30 1/4 in.; keel-shaped; both ends worked to blade on convex edge.

UU: 622. UMP: 29-42-928. PN:--. Prov.: SW.

Description: Length 45 in.; roughly keel-shaped; both ends worked to blade on convex edge.

UU: 623. UMP: 29-42-927. PN:--. Prov.: SW.

Description: Length 34 in.; both ends spatulate; round-cornered tips.

UU: 624. UMP: 29-42-929. PN:--. Prov.: SW.

Description: Length 29 1/2 in.; double-bladed; spatulate tips.

UU: 625. UMP: 29-42-951. PN:--. Prov.: SW.

Description: Length 18 in.; peeled stick; right-angle handle formed from parent branch; spatulate, pointed blade.

UU: 626. UMP: 29-44-6. PN: F-109. Prov.: Utah (cave on Colorado River).



Fig. 64. Wooden digging stick (UU:626).

Description: Length 46 in. Ca. 2/3 shaft, 1/3 blade; beautifully worked; completely carved and smoothed; varnish-like use polish. Handle 1 1/8 in. dia.; blade expands to a maximum of 3 1/2 in. wide, 3/8 in. thick. Working edge is convex, opposite is straight, extending along plane of handle.

UU: 627. UMP: 29-42-950. PN:--. Prov.: SW.

Description: Length 34 1/2 in.; crook handle; 3 1/2 in.-long rawhide over sinew wrap below crook; pointed tip.

UU: 628. UMP: 29-44-206. PN:--. Prov.: SW.

Description: Length 35 in.; irregular; angled handle 4 1/2 in. long. Blunt tip.

UU: 629. UMP: 29-42-948. PN:--. Prov.: SW.

Description: Length 31 1/4 in.; crook handle; blunt, charred tip.

UU: 630. UMP: 29-42-949. PN:--. Prov.: SW.

Description: Length 36 in.; unpeeled stick; round-pointed tip; forked butt.

UU: 631. UMP: 29-43-51. PN:--. Prov.: SW.

Description: Length 24 in.; unpeeled stick; round-pointed tip; forked butt.

UU: 632. UMP: 29-42-942. PN:--. Prov.: SW.

Description: Length 30 in.; unpeeled stick; round-pointed tip; forked butt.

UU: 633. UMP: 29-42-958. PN:--. Prov.: SW.

Description: Length 26 in.; unpeeled stick; round-pointed tip.

UU: 634. UMP: 29-42-941. PN:--. Prov.: SW.

Description: Length 26 1/2 in.; round butt; spatulate end.

UU: 635. UMP: 29-42-935. PN:--. Prov.: SW.

Description: Length 16 1/2 in.; unpeeled stick; rounded butt; spatulate tip.

UU: 636. UMP: 29-42-952. PN:--. Prov.: SW.

Description: Length 25 1/2 in.; peeled and smoothed split stick.

UU: 637. UMP: 29-42-921. PN:--. Prov.: SW.

Description: Length 25 1/2 in.; narrow spade-like blade; round, smooth handle.

UU: 638. UMP: 29-42-920. PN:--. Prov.: SW.

Description: Length 32 in.; knob handle; smoothed overall; spatulate blade; diagonal tip.

UU: 639. UMP: 29-42-944. PN:--. Prov.: SW.

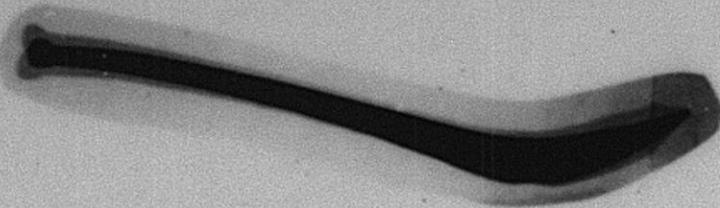


Fig. 65. Digging or rabbit stick (UU:639).

Description: Length 31 in.; scimitar-like blade (rabbit stick ?); knob handle; curving shaft, concave-convex (plan) blade.

UU: 640. UMP: 29-42-945. PN:--. Prov.: SW.

Description: Length 24 in.; diggin', or rabbit stick; carved and smoothed throughout; round shaft; curving, expanded blade.

UU: 641. UMP: 29-43-16. PN:--. Prov.: Utah (cave on Colorado River).

Description: Length 17 1/2 in.; unpeeled stick; end worked to point.

UU: 692. UMP: 29-42-953. PN:--. Prov.: SW.



Fig. 66. Crook-handled stick (UU:692).

Description: Peeled, smoothed crook-handled stick. Length 13 in.; possibly a digging stick.

Loom (?) Poles

UU: 487. UMP: 29-43-946. PN:--. Prov.: SW.

Description: Peeled limb, ends cut square; length 16 1/2 in.; dia. 1 in.; conical hole 9 in. deep drilled into one end.

UU: 556. UMP: 29-43-34. PN:--. Prov.: Utah (cave on Colorado River).

Description: Smoothed pole. Length 12 in.; dia. 1 in.; cone-shaped perforations 1/4 in. deep in both ends. Probably part of loom.

UU: 557. UMP: 29-43-32. PN: E-14. Prov.: Utah (cave on Colorado River).

Description: Smoothed pole. Length 15 1/2 in.; dia. 1 in.; shallow end holes; transverse striations. Probably part of loom.

UU: 558. UMP: 29-43-33. PN:--. Prov.: Utah (cave on Colorado River).

Description: Smoothed pole. Length 15 1/4 in.; dia. 1 in.; shallow end holes; transverse striations. Probably part of loom.

Carved Sticks

Note: The following are carved wooden sticks ("prayer wands"), usually with flat, spear-shaped tips, narrow ridge or collar (of the original stick diameter) left on the shaft.

UU: 579. UMP: 29-42-997. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 16 in.; length of head (collar to end) 2 3/4 in.

UU: 580. UMP: 29-42-998. PN:--. Prov.: Utah (cave on Colorado River).

Description: Length 10 3/8 in.; length of head (collar to end) 2 in.

UU: 581. UMP: 29-42-993. PN:--.

Fig. 67. Carved wooden wand (UU:581). Prov.: Utah (cave on Colorado River).

Description: Total length 13 in.; length of head (collar to end) 3 3/4 in.

UU: 582. UMP: 29-42-999. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 9 in.; length of head (collar to end) 2 1/8 in.

UU: 583. UMP: 29-42-994. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 14 in.; head missing.

UU: 584. UMP: 29-42-996. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 13 1/2 in., length of head (collar to end) 2 1/2 in.

UU: 585. UMP: 29-43-1. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 11 1/2 in.; length of head (collar to end) 2 1/4 in.

UU: 586. UMP: 29-43-2. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 11 1/4 in.; length of head (collar to end) 3 in.

UU: 587. UMP: 29-43-3. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 12 3/4 in.; head missing.

UU: 588. UMP: 29-43-4. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 14 in.; length of head (collar to end) 2 1/4 in.

UU: 589. UMP: 29-43-11. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 9 3/4 in.; length of head (collar to end) 3 in.

UU: 590. UMP: 29-43-888. PN:--. Prov.: Utah (Deep Canyon).

Description: Total length (incomplete) 7 1/2 in.; length of head (collar to end) 2 3/4 in.

UU: 591. UMP: 29-43-885. PN:--. Prov.: Utah (Deep Canyon).

Description: Total length (incomplete) 6 in.; length of head (collar to end) 2 3/4 in.

UU: 592. UMP: 29-43-887. PN:--. Prov.: Utah (Deep Canyon).

Description: Total length 9 1/4 in.; length of head (collar to end) 1 1/4 in.

UU: 593. UMP: 29-43-884. PN:--. Prov.: Utah (Deep Canyon).

Description: Total length (incomplete) 4 in.; length of head (collar to end) 2 1/2 in.

UU: 594. UMP: 29-42-995. PN:--. Prov.: Utah (cave on Colorado River).

Description: Total length 11 in.; length of head (collar to end) 2 in.

UU: 595. UMP: 29-43-886. PN:--. Prov.: Utah (Deep Canyon).

Description: Total length (incomplete) 8 in.; length of head (collar to end) 1 1/2 in.

UU: 596. UMP: 29-42-966. PN:--. Prov.: SW.

Description: Total length 36 in.; long (incomplete), crooked, irregular shaft; knob handle.

UU: 707. UMP: 29-43-6. PN:--. Prov.: Utah (cave on Colorado River).

Description: Carved stick. Length 8 in.; tapers to both ends; one raised carved collar, two carved bulbous areas, and knob at end (bodkin?).

Peeled, Smoothed Sticks

UU: 642. UMP: 29-43-14. PN: F-61. Prov.: Utah (cave on Colorado River).

Description: Length 6 1/4 in.; peeled, smoothed stick.

UU: 643. UMP: 29-42-981. PN:--. Prov.: Utah (cave on Colorado River).

Description: Length 5 in.; peeled, smoothed stick.

UU: 644. UMP: 29-42-984. PN:--. Prov.: Utah (cave on Colorado River).

Description: Length 5 in.; peeled, smoothed stick.

UU: 649. UMP: 29-43-44. PN:--. Prov.: Utah (cave on Colorado River).

Description: Length 6 1/4 in.; dia. 1/4 in.; peeled, smoothed stick; possibly nocking residue.

UU: 654. UMP: 29-43-27. PN:--. Prov.: Utah (cave on Colorado River).

Description: Length 11 1/4 in.; dia. 5/8 in.; peeled, smoothed stick; one pointed, one chisel-shaped end.

UU: 655. UMP:--. PN: F-140. Prov.: Utah (cave on Colorado River).

Description: Peeled stick. Length 6 1/4 in.; dia. 1/2 in.; wrapped at center with sinew and yucca, attaching feather. One end rounded and charred.

UU: 656. UMP: 29-43-36. PN:--. Prov.: Utah (cave on Colorado River).

Description: Bundle of 12 peeled, smoothed sticks with cut and smoothed ends. Each is slightly curved. Occasionally, pairs are bound with cord. Bundle is 8 1/2 in. long, 3/4 in. dia.

UU: 668. UMP: 29-43-904. PN: F-72. Prov.: Utah (Deep Canyon).

Description: Two peeled and smoothed sticks. Length 10 in.; dia. 1/8 in.; bound together with yucca leaf near one end.

UU: 669. UMP: 29-43-905. PN: F-23. Prov.: Utah (Deep Canyon).

Description: Identical to No. 668.

UU: 670. UMP: 29-43-909. PN: F-19. Prov.: Utah (Deep Canyon).

Description: Identical to Nos. 668 and 669, except 3 sticks.

UU: 671. UMP: 29-43-906. PN: F-20. Prov.: Utah (Deep Canyon).

Description: Identical to No. 670 except binding is at extreme end of sticks.

UU: 672. UMP: 29-43-908. PN:--. Prov.: Utah (Deep Canyon).

Description: Bundle of 5 peeled and smoothed sticks, 10 1/2 in. long, heavily bound for 5 in. at center with yucca fibers.

UU: 674. UMP: 29-43-896. PN:--. Prov.: Utah (Deep Canyon).

Description: Tapering, partially peeled stick. Length 10 1/2 in.; dia. 1/2 in.; pointed tip.

UU: 677. UMP: 29-43-933. PN: F-120. Prov.: SW.

Description: Peeled, smoothed stick. Length 15 in.; dia. 1/2 in.; 1 in.-sinew binding one end.

UU: 678. UMP: 29-43-935. PN: F-84. Prov.: SW.

Description: Peeled, smoothed stick, flat ends. Wrapped at 1 in. intervals with sinew; painted red.

Diagonally Striated Sticks

UU: 650. UMP: 29-43-24. PN: F-10. Prov.: Utah (cave on Colorado River).

Description: Stick 5 in. long, 1 1/2 in. dia.; ends rough cut; diagonal striations.

UU: 651. UMP: 29-43-23. PN:--. Prov.: Utah (cave on Colorado River).

Description: Stick 4 1/2 in. long, 1 1/2 in. dia.; ends rough cut; diagonal striations.

UU: 653. UMP: 29-43-25. PN: F-24. Prov.: Utah (cave on Colorado River).

Description: Rough-cut stick 4 3/4 in. long, 3/4 in. dia.; diagonal striations.

Short, Rough-cut Sticks

Note: The following are short sticks, up to 7 1/2 in. long and 1/2 in. dia.; ends are rough-cut. Use unknown.

UU: 657. UMP: 29-43-929. PN: F-57. Prov.: SW.

UU: 658. UMP: 29-43-918. PN: F-49. Prov.: Utah (Deep Canyon).

UU: 659. UMP: 29-43-874. PN: F-75. Prov.: Utah (Deep Canyon).

UU: 660. UMP: 29-43-916. PN: F-91. Prov.: Utah (Deep Canyon).

UU: 661. UMP: 29-43-927. PN: F-56. Prov.: SW.

UU: 662. UMP: 29-43-920. PN: F-48. Prov.: Utah (Deep Canyon).

UU: 663. UMP: 29-43-913. PN: F-32. Prov.: Utah (Deep Canyon).

UU: 664. UMP: 29-43-925. PN: F-81. Prov.: Utah (Deep Canyon).

UU: 665. UMP: 29-43-917. PN: F-35. Prov.: Utah (Deep Canyon).

UU: 666. UMP: 29-43-912. PN: F-36. Prov.: Utah (Deep Canyon).

UU: 667. UMP: 29-43-919. PN: F-60. Prov.: Utah (Deep Canyon).

Other Worked Sticks

Note: Many of the following specimens are smoothed or partially smoothed; several are of appropriate size and shape to have been foreshaft blanks. Here they are considered merely worked sticks. Unless a specimen varies from the others included here, it is not described separately.

UU: 512. UMP: 29-43-865. PN:--. Prov.: Utah.

UU: 513. UMP: 29-43-866. PN:--. Prov.: Utah.

UU: 514. UMP: 29-43-863. PN:--. Prov.: Utah.

UU: 515. UMP: 29-43-868 (12 specimens). PN:--. Prov.: Utah.

UU: 516. UMP: 29-43-867 (10 specimens). PN:--. Prov.: Utah.

UU: 517. UMP: 29-43-858. PN:--. Prov.: Utah.

Description: Length 5 in.; dia. 1 in.; smoothed; one side cut away, leaving "hook" end.

UU: 518. UMP: 29-43-859. PN: F-67. Prov.: Utah.

UU: 519. UMP: 29-43-856. PN:--. Prov.: Utah.

UU: 520. UMP: 29-43-857. PN:--. Prov.: Utah.

Description: Pointed, unpeeled stick.

UU: 521. UMP: 29-43-855. PN:--. Prov.: Utah.

UU: 522. UMP: 29-43-862. PN:--. Prov.: Utah.

UU: 523. UMP: 29-43-838. PN:--. Prov.: SW.

UU: 524. UMP: 29-43-854. PN: F-25. Prov.: Utah.

Description: Worked stick. Length 7 in.; ground near ends.

UU: 526. UMP: 29-43-8. PN:--. Prov.: Utah (cave on Colorado River).

Description: Two sticks, tied together by 2-4 in. cord. Longer is 21 1/2 in. long, 1/4 in. dia., and sharp-pointed. Shorter is 7 3/4 in. long, 1/4 in. dia., blunt ends. Probably a weaving tool or part of snare.

UU: 489. UMP: 29-43-800. PN:--. Prov.: SW.

Description: Twig bundle tied at center with twig. Length 18 in.; dia. 2 in.

UU: 675. UMP: 29-43-878. PN:--. Prov.: Utah (Deep Canyon).

Description: Pointed stick. Length 12 in.; dia. 3/4 in.; painted red (?).

UU: 676. UMP: 29-43-928. PN:--. Prov.: SW.

Description: Broken, needle-like stick. Length 7 1/2 in.

UU: 684. UMP: 29-43-922. PN:--. Prov.: Not indicated.

Description: Stick. Length 4 in.; dia. 1/4 in.; one side cut away for 3/4 of length, leaving complete circumference at only one end.

UU: 686, 687, 688. UMP: 29-43-914, 921, 924. PN:--. Prov.: Utah (Deep Canyon).

Description: Longitudinal sections from slender sticks; 4-6 in. long.

UU: 690. UMP: 29-42-937. PN:--. Prov.: SW.

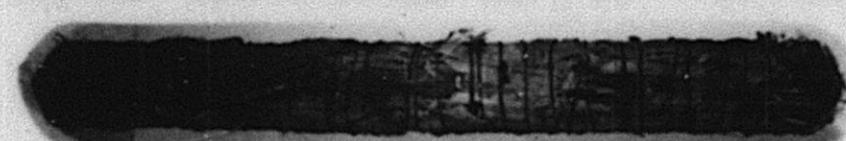
Description: Club-like stick. Length 24 in.; round base; irregular, blunt tip.

UU: 691. UMP: 29-42-959. PN:--. Prov.: SW.

Description: Club-like stick. Length 38 in.; round base; irregular, blunt tip.

Reed-walled Tube

UU: 739. UMP: 29-43-192. PN: L-40. Prov.: SW.



Description: Tube.

Length 34 in.; dia. 4
in.; walls formed of

Fig. 68. Reed-walled tube (UU:739).

reeds twined at 5 in. intervals with yucca leaves. Corn husk tube wrap held by yucca leaf wrappings; one tube end is closed with corn husks. Tube filled with wads of shredded bark, each approx. 5 in. long (possibly kindling).

Reed and Stick Containers

UU: 740. UMP: 29-43-189. PN:--. Prov.: SW.

Description: Reed and stick container. Truncated cone of vertical reeds and sticks twined together to form walls. Top dia. 20 in. Possibly basket from panier-like object. (See No. 741.)

UU: 741. UMP: 29-43-194. PN: B-30. Prov.: SW.

Description: Pannier-like reed container on framework of two uprights and two cross-pieces. Container is attached by its base and part of wall. Flexible walls of basket are vertical reeds, held by twining. Top opens (to 23 1/2 in. dia.) as collapsible paper cup. Possibly a back-pack. Total height of uprights 36 in.; width approx. 15 in. Container approx. 28 in. deep (Smith Exploring Co., 1893, 20).

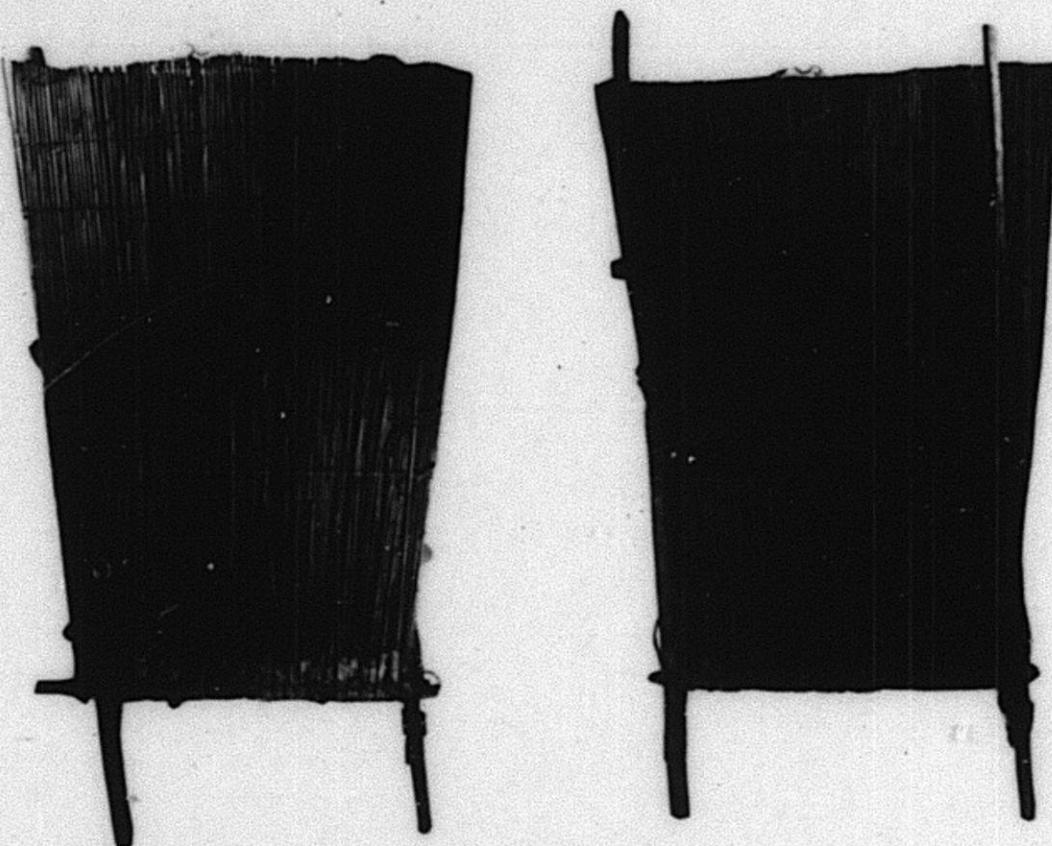


Fig. 69. Front (left) and back view of pannier-like reed container (UU:741).

Loom Anchors or Wall Hangers

Note: The following are loom anchors or wall hangers; ends of twig bound with yucca, leaving small loop; 5 1/2 in. to 8 1/2 in. long.

UU: 679, 680, 681, 682, 683, 470. UMP: 29-43-901, 902, 899, 898, 896, 53.

PN:-- (except No. 683: F-44). Prov.: Utah (Deep Canyon; except No. 470, from cave on Colorado River).

Rattles

UU: 718. UMP: 29-43-140. PN:--. Prov.: Utah.

Description: Small walnut (?) rattles (?) strung in groups of two.

UU: 706. UMP: 29-43-795. PN: L-26. Prov.: Utah (Colorado River Canyon; found with infant mummy).

Description: Wooden rattle made in turtle-shell shape. Hollow contains seeds. Halves are tied together with sinew. An 11 in. -long stick shaft extends through center, serves as a handle.

UU: 757. UMP: 29-43-785. PN: L-24. Prov.: Utah (Colorado River Canyon; found with Basketmaker infant mummy).



Fig. 70. Deer hoof rattle (UU:757).

Description: Deer hoof rattle.

Handle, two parallel 10 in. sticks, is bound in 3 places with sinew; upper binding has

heart-shaped stone included.

Rattles of deer hooves are attached on 3 in. buckskin thongs, between 2 bindings.

Miscellaneous Wood and Other Organics

UU: 472. UMP: 29-43-81. PN:--. Prov.: Utah (cave on Colorado River).

Description: Twigs, grass and yucca leaves folded and tied to form torch bundle. End scorched.

UU: 473. UMP: 29-43-85. PN: F-144, L-35. Prov.: Utah (cave on Colorado River).

Description: (a) 1 in. dia. flat-coiled splint. (b) Two 1 1/4 in. dia. flat-coiled splints.

UU: 525. UMP: 29-43-985. PN: F-89? Prov.: Utah (cave on Colorado River).

Description: Ring. Dia. 14 in.; formed of unpeeled twig tied to itself.

UU: 758. UMP: 29-44-315. PN:--. Prov.: SW.

Description: Bundle of 20 spines of Unicorn plant bound with yucca cordage.

UU: 646. UMP: 29-43-45. PN:--. Prov.: Utah (cave on Colorado River).

Description: Broken bark object. 3 x 1 in.; perforated at center with yucca fiber loop attached.

UU: 648. UMP: 29-43-41. PN:--. Prov.: Utah (cave on Colorado River).

Description: Small, knifeblade-shaped hardwood object. 4 x 3/4 in.

CORDAGE ITEMS

UU: 765. UMP: 29-43-158. PN:--. Prov.: Colorado ("Side-knot for matron's hair").

Description: T-shaped object formed of a bundle of cordage, individual cords cemented together. Stem width 3/4 in.; total length 4 1/4 in.; max. width at end protrusions 2 1/2 in.

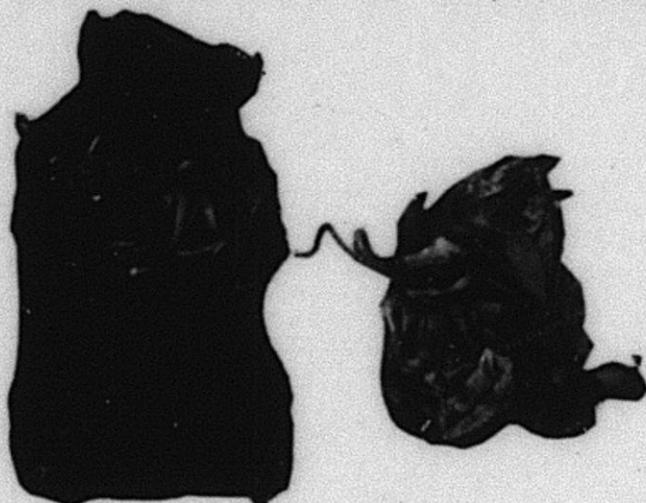
UU: 766, a. UMP: 29-43-791. PN:--. Prov.: Utah.

Description: Two-ply yucca fiber cords.

UU: 766, b, c. UMP: 29-43-787, 783. PN:--. Prov.: SW.

Description: Two-ply yucca fiber cords.

UU: 756. UMP: 29-43-110. PN:--. Prov.: Colorado.



Description: Rectangular bag woven of 2-ply hair cordage. Length 9 1/2 in.; width 5 1/2 in.; coil-without-foundation weave; heavily repaired with yucca leaf. Bag contained bundle (3 in. dia.) of strips of

Fig. 71. Woven bag with contents (UU:756). tanned mountain sheep skin with hair intact. Bundle tied with yucca cord; bag tied with yucca cord.

BUNDLES OF HUMAN HAIR

UU: 715. UMP: 29-43-178. PN:--. Prov.: SW.

Description: Bundle of human hair. Length 6 in.; dia. 3/8 in.; tied at center with hair; ends cut square.

UU: 716. UMP: 29-43-362. PN:--. Prov.: SW.

Description: Bundle of human hair. Length 3 in.; dia. 1/4 in.; tied at center with yucca fiber yarn.

LOOM-WOVEN FABRICS

UU: 767. UMP: 29-43-155. PN:--. Prov.: Colorado.

Description: Rectangular pouch made of two equal-sized pieces sewn together, then turned inside out. Length 8 1/4 in.; width 3 in.; edge of opening finished with overcast stitch. 22 warps and wefts per square in.; plain weave.

UU: 768. UMP: 29-43-154. PN:--. Prov.: Colorado.

Description: Plain weave pouch fragment, possibly knife scabbard. Depth 5 in.; width 2 1/4 in.; of apocynum (?) fibers. 15 warps, 12 wefts per in.

UU: 769. UMP: 29-42-176. PN:--. Prov.: SW.

Description: Cloth fragment, decorated. 4 x 2 in. (incomplete); 6 warps, 6 wefts per in.; plain weave. Small patch of decoration (repair?) with black thread.

UU: 770. UMP: 29-42-182. PN: B-25. Prov.: Utah (Lake Canyon).

Description: Rectangular fragment, plain weave cloth. 28 x 20 1/2 in.; 22 warps, 19 wefts per in. Braid tassel attached at one corner.

UU: 771. UMP: 29-43-112. PN:--. Prov.: Colorado.

Description: Fragment of reversed twill tapestry with interlocked red, white and brown wefts. 10 1/2 x 7 in (Kent, 1957, Fig. 55).

UU: 772. UMP: 29-43-122. PN: H-14. Prov.: Colorado.

Description: Fragment of over-two-under-two diamond twill cloth. 8 x 12 in. Red, yellow-brown and white wefts (Kent, 1957, Fig. 60).

UU: 773. UMP: 29-43-177. PN:--. Prov.: SW.

Description: Three fabric pieces tied together. (a) plain weave; (b) plain weave; cotton; 9 wefts, 16 warps per in.; and (c) plain weave cotton cloth; dark brown, white, and light brown stripes.

UU: 774. UMP: 29-43-772. PN:--. Prov.: SW.

Description: 5 small fragments, plain weave cotton cloth.

UU: 775. UMP: 29-43-153. PN:--. Prov.: Colorado.

Description: Reversed twill knife sheath (Kent, 1957, Fig. 57); white, brown, and red; 8 1/4 x 3 1/2 in.

UU: 776. UMP: 29-43-181. PN:--. Prov.: Utah (Lake Canyon; found wrapped in item No. 777).

Description: Plain weave sash, brown stripe decoration (Kent, 1957, Fig. 12). Length 8 ft. 1 1/2 in.; width 7 1/2 in.

UU: 777. UMP: 29-43-183. PN:--. Prov.: Utah (Lake Canyon).

Description: Brown tie-dye blanket, cotton thread. Width 51 1/2 in.; length 44 in.; corner tassels (Kent, 1957, 568, Fig. 83).

WOVEN PADS

UU: 712. UMP: 29-43-174. PN: B-60. Prov.: SW.

Description: Woven circular pad, folded at center and stitched. Dia. 4 1/2 in.; irregular weave; material primarily cotton or apocynum with random yucca fiber threads sewn; edged with cord (cotton or apocynum?).

UU: 713. UMP: 29-43-180. PN:--. Prov.: SW.

Description: Decorated pad similar to No. 712. Dia. 5 in.; yellow with brown wedge woven across.

UU: 714. UMP: 29-43-179. PN:--. Prov.: SW.

Description: Fragmentary pad similar to Nos. 712 and 713, loosely and irregularly woven of yucca fibers.

FUR AND FEATHER ROBES AND APRON

UU: 723. UMP: 29-43-363. PN:--. Prov.: SW.

Description: Fur and feather robe. Width 28 in.; length 29 in. (possibly incomplete); primarily fur cordage used, but occasional feather cordage. Twined warps spaced at 1 in. intervals.

UU: 724. UMP:--. PN: H-49. Prov.: Not indicated.

Description: Feather robe fragment. Width 38 in.; length 18 in.

UU: 725. UMP:--. PN: B-1. Prov.: Not indicated.

Description: Complete feather robe. Width 31 in.; length 20 in. Only quill portion of feathers remains.

UU: 727. UMP:--. PN: H-17. Prov.: Not indicated.

Description: Fur and feather robe. Approx. 36 x 36 in.; poor condition.

UU: 728. UMP: 29-43-364. PN: H-64. Prov.: SW.

Description: Feather robe. 52 x 48 in.

UU: 729. UMP:--. PN:--. Prov.: Not indicated.

Description: Feather robe. 36 x 33 in.

UU: 730. UMP:--. PN: B-6. Prov.: Not indicated.

Description: Fur and feather robe. 21 x 31 in.

UU: 726. UMP:--. PN: B-1. Prov.: Not indicated.

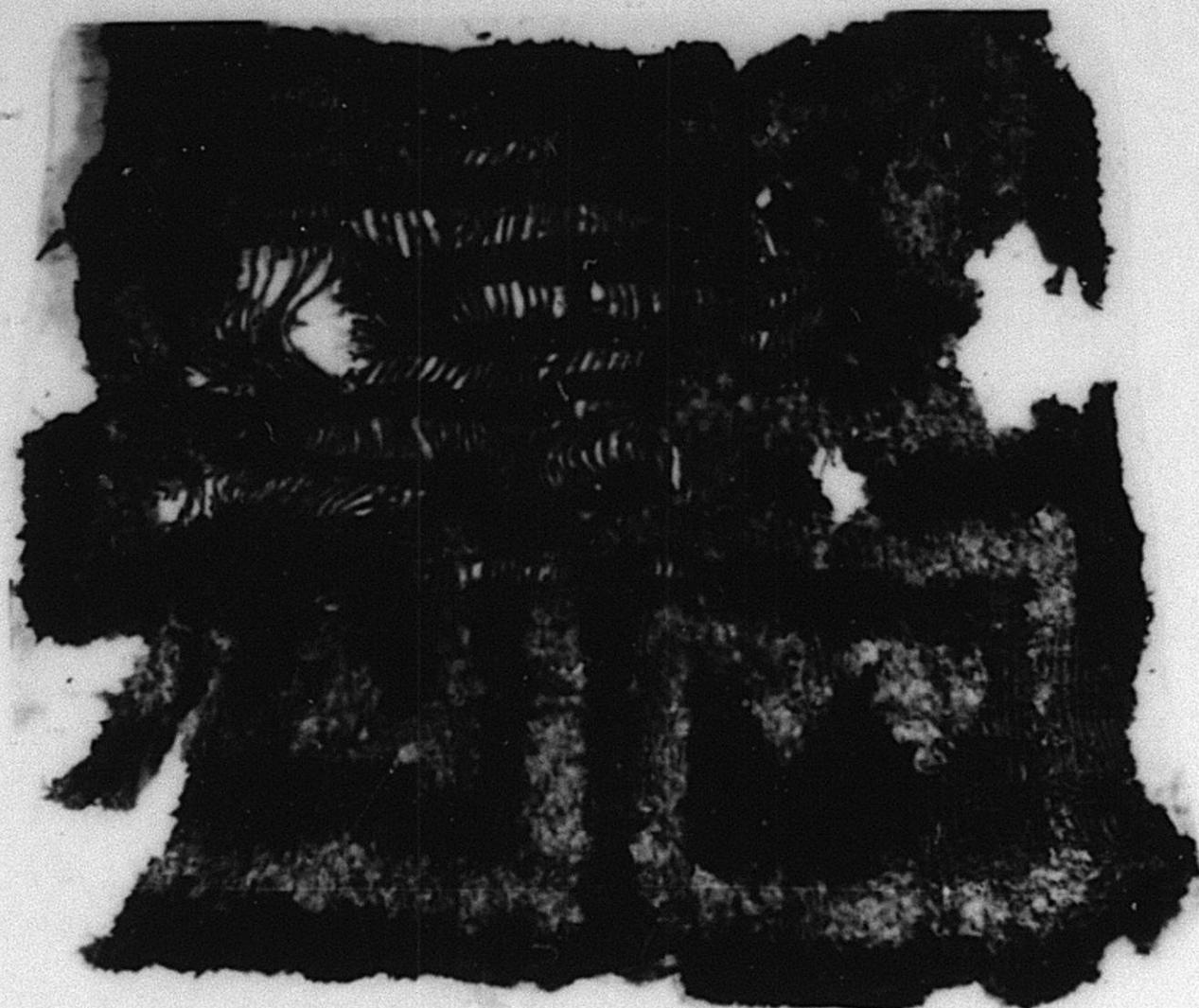


Fig. 72. Feather robe; design in brown and white feathers (UU:726).

Description: Feather robe. Elaborate geometric design achieved by use of brown and white feathers. Incomplete.

UU: 731. UMP:--. PN: B-1. Prov.: Not indicated.

Description: Feather robe fragment. Length (incomplete) 24 in.

UU: 732. UMP:--. PN: H-71. Prov.: Not indicated.

Description: Feather robe fragment. Width 24 in.

UU: 733. UMP:--. PN: N-63. Prov.: Not indicated.

Description: Fur robe fragment.

UU: 734. UMP:--. PN: H-50. Prov.: Not indicated.

Description: Feather robe. Width 24 in.

UU: 735. UMP:--. PN:--. Prov.: Not indicated.

Description: 7 fragments of fur (1); fur and feather (1); and feather (5) robes.

UU: 736. UMP:--. PN: H-27. Prov.: Not indicated.

Description: Feather robe fragment.

UU: 737. UMP:--. PN: H-170. Prov.: Not indicated.

Description: Feather robe fragment. Width 25 in.

UU: 738. UMP:--. PN: H-51. Prov.: Not indicated.

Description: Fur and feather apron (?). Length 15 in.; width 16 in.; consists of belt and free-hanging strands of varying lengths.

FEATHERS

UU: 761. UMP: 29-43-48. PN:--. Prov.: Utah (cave on Colorado River).

Description: Hawk (?) wing feather on needle-like wood handle. Feather attached with cord wrapping. Total length 10 in.

UU: 717. UMP: 29-43-838. PN:--. Prov.: Colorado (Mesa Verde).

Description: Two parallel rows, one atop the other, of 4 turkey feathers each; strung tightly on yucca fiber to form bundle.

STORAGE GOURDS

UU: 778, a-d. UMP: 29-43-196. PN: K-5, K-12, K-10, K-11. Prov.:

Colorado (Navajo Canyon; cliff house).

Description: Cucurbita meloformis (catalog card, identifier unknown)

Nine orange gourds, 4 unworked; 5 have tops cut away to form a cup receptacle.

UU: 779. UMP: 29-43-992. PN:--. Prov.: Utah.

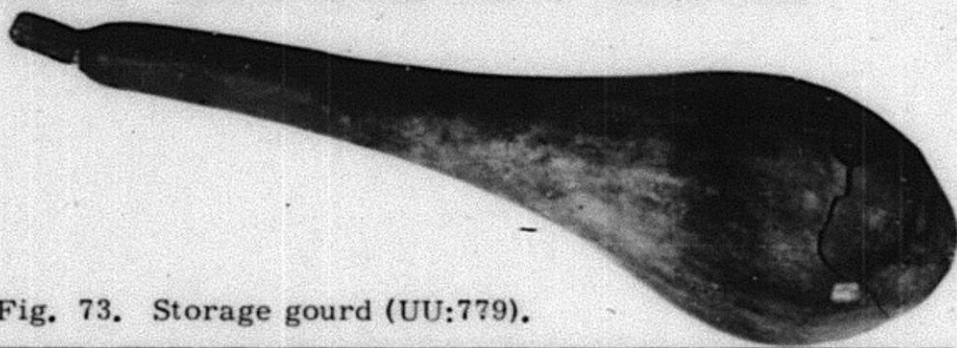


Fig. 73. Storage gourd (UU:779).

Description:

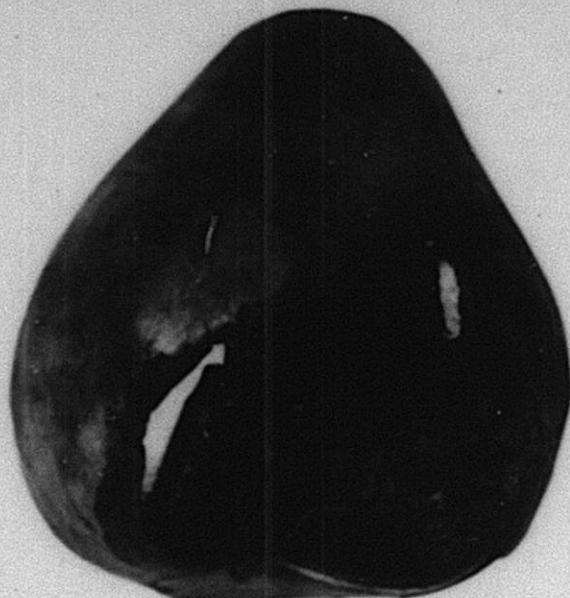
Long-necked
gourd. Tip of
neck cut away
and plugged

with corncob. Contained yellow powdery material. Total length 23 in.; average neck dia. 3 in.; max. dia. 7 1/2 in.

UU: 780. UMP: 29-43-996. PN:--. Prov.: SW.

Description: Large Cucurbita pepo. Dia. 11 1/2 in.; height 12 in. One side broken out, possibly unintentional.

UU: 781. UMP: 29-43-998. PN: K-6?. Prov.: Utah (Lost Canyon).



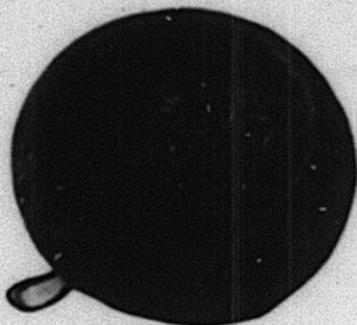
Description: Cucurbita sp. Dia.

7 in.; height 10 in.; sloping short neck. 6 in. dia. oval hole cut in one side; 1/2 in. dia. hole at tip of neck (peduncle area).

A yucca cord (2 strands) is loosely strung across the hole, parallel to the height axis of the gourd.

Fig. 74. Worked gourd (UU:781).

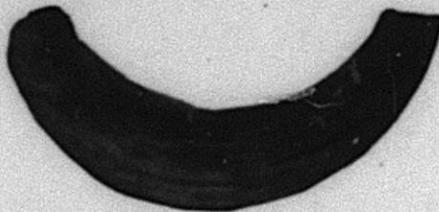
UU: 782. UMP: 29-44-778. PN:--. Prov.: SW.



Description: Cucurbita sp. Neck completely removed, leaving truncated spheroid. A leather strip is attached through the base around a wooden toggle on the interior. It is knotted on the exterior so as to be held firm.

Fig. 75. Gourd with leather strap handle (UU:782).

UU: 785. UMP: 29-42-225. PN: G-97. Prov.: Utah.



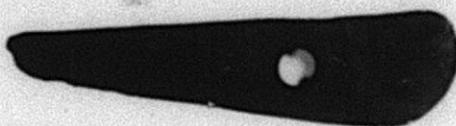
Description: Horn sickle (?). Length 12 1/4 in.; width 3 in. Plano-convex in section, concave-convex in plan.

Fig. 76. Horn sickle (UU:785). One end cut square, the opposite end beveled to rounded blade edge. Both edges are use-smoothed. Mountain sheep horn.

UU: 786. UMP: 29-43-822. PN: G-25. Prov.; SW.

Description: Horn disc spindle whorl. Dia. 2 1/4 in.; center perforation 1/4 in.

UU: 787. UMP: 29-42-226. PN: G-96. Prov.: SW.



Description: Horn digging-stick tip. Length 8 in.; max. blade width 2 1/4 in., tapering to butt; 3/4 in. dia. perforation at center.

Fig. 77. Perforated horn digging-stick tip (UU:787).

UU: 788. UMP: 29-42-227. PN: G-99. Prov.: SW.

Description: Horn digging-stick tip. Length 8 3/4 in. Handle 5 1/2 in.; blade 3 1/4 in.; sides of handle inset. Blade at shoulders, 2 in. wide.

UU: 789. UMP: 29-42-229. PN:--. Prov.: SW.

Description: Horn digging-stick tip fragment.

UU: 790. UMP: 29-42-228. PN:--. Prov.: SW.



Fig. 78. Horn digging-stick tip, tie intact (UU:790).

Description: Horn digging-stick tip. Triangular in plan; $10\frac{1}{8}$ x $2\frac{3}{4}$ in. max. Edges slightly indented near base for hafting.

Remnants of turkey-feather cord hafting tie.

UU: 791, a-e. UMP:--. PN: C-48, --, F-38, G-94, --. Prov.: Utah (Colorado River Canyon).

Description: Cylindrical to slightly flattened short ($1\frac{3}{4}$ to $3\frac{1}{4}$ in.) horn objects. Squared ends. Probably flakers, but possibly gaming pieces.

UU: 792. UMP: 29-42-230. PN: G-101. Prov.: Not indicated.

Description: Horn digging-stick tip. Length $16\frac{1}{4}$ in.; width $4\frac{1}{2}$ in.; narrow-pointed handle, tang length 5 in.; wide, square shoulders.

UU: 1085. UMP: 29-42-192. PN:--. Prov.: SW.



Fig. 79. Antler ornament or flaker (UU:1085).

Description:

Slender antler tool or ornament. Length $11\frac{1}{8}$ in.; dia. $1/2$ in.; one rounded, one sharp-pointed end.

UU: 793. UMP: 29-43-814. PN:--. Prov.: SW.

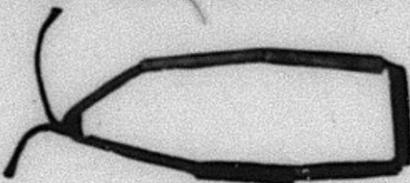


Fig. 80. Turkey bone bead necklace (UU:793).

Description: Necklace. 7 tubular bone (turkey?) beads strung on yucca fiber cord.
Necklace dia. 6 in.

UU: 794. UMP: 29-43-815. PN:--. Prov.: SW.

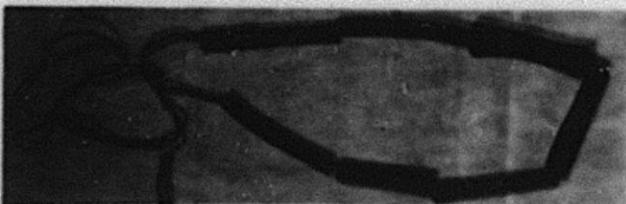


Fig. 81. Turkey bone bead necklace (UU:794). dia. 8 1/4 in.

Description: Necklace. 7 tubular bone (turkey?) beads strung on yucca fiber cord. Necklace

UU: 795. UMP: 29-43-816. PN: G-20. Prov.: SW.

Description: 16 unstrung tubular bone (turkey?) beads (as used in Nos. 793, 794).

UU: 796. UMP: 29-42-237. PN:--. Prov.: SW.

Description: Cylindrical bone bead, broken lengthwise. Length 3 in.

UU: 797. UMP: 29-42-208. PN:--. Prov.: SW.

Description: Cylindrical bone bead. Length 1 3/4 in.

UU: 798. UMP: 29-44-488. PN:--. Prov.: SW.

Description: 10 cylindrical bone (turkey?) beads, from 2 to 5 in. long.

UU: 799. UMP: 29-44-584. PN:--. Prov.: SW.

Description: Cylindrical bone (turkey?) bead. Length 4 1/2 in.

UU: 800. UMP:--. PN: I-1. Prov.: SW.

Description: Necklace. Composed of 1 in.-long bone (turkey?) beads placed so that they fit together in cupped fashion. Dia. 6 in.

UU: 801. UMP: 29-43-810. PN:--. Prov.: Utah.



Fig. 82. Hackberry seed bracelet or necklace (UU:801).

Description: Necklace of hackberry seeds, strung on cotton fiber cord. Length (incomplete) 8 in.

UU: 802. UMP: 29-43-803. PN:--. Prov.: Utah (Red Canyon; found with Basketmaker skull).

Description: Bracelet. Olivella shell beads and disc beads from unidentified shells, strung on yucca fiber cord.



Fig. 83. Shell bracelet (UU:802). (cave on Colorado River).

Description: Bracelet. 13 Olivella shells strung on 3-ply yucca fiber cord. Dia. 2 1/2 in.

UU: 804. UMP: 29-43-806. PN: I-9. Prov.: Utah (Deep Canyon).

Description: Bracelet. 11 Olivella shells; dia. 2 in.

UU: 805. UMP: 29-43-807. PN:--. Prov.: Utah (Red Canyon; found with Basketmaker skull).

Description: Bracelet. 14 Olivella shells strung on yucca fiber cord; dia. 2 1/4 in.

UU: 806. UMP: 29-44-509. PN:--. Prov.: SW.

Description: 4 shell beads, varying sizes.

UU: 807. UMP: 29-44-508. PN:--. Prov.: SW.

Description: Several shell-bracelet fragments; 3 Olivella shell beads.

UU: 808. UMP: 29-44-367. PN:--. Prov.: SW.

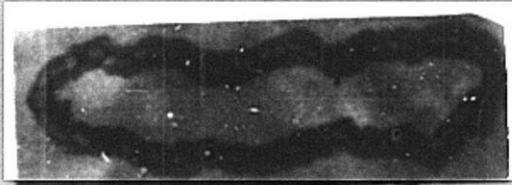


Fig. 84. Olivella shell bead bracelet (UU:808).

Description: Bracelet of 69 restrung Olivella shell beads; dia. 4 in.

UU: 809. UMP: 29-44-368. PN:--.

Prov.: SW.

Description: Necklace of 33 restrung Olivella shells. Original length unknown.

UU: 810, a-c. UMP: 29-42-863, 865, 864. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Olivella shell, single beads. "c" is resin-filled.

UU: 811. UMP: 29-44-310. PN:--. Prov.: SW.

Description: 5 shells strung as bracelet (?). Glycymeris gigantea(?); center removed leaving ring; hinge perforated for stringing.

UU: 812. UMP: 29-44-359. PN:--. Prov.: SW.

Description: 5 Glycymeris gigantea(?) shell pendants(?). Hinges perforated for stringing.

UU: 813. UMP: 29-44-358. PN:--. Prov.: SW.

Description: 3 Glycymeris gigantea(?) shell pendants(?). 1 in. dia. center section removed; hinges perforated for stringing.

UU: 814. UMP: 29-44-506. PN:--. Prov.: SW.

Description: 3 Glycymeris gigantea (?) shells; hinges perforated for stringing.

UU: 815. UMP: 29-43-804. PN: I-10. Prov.: Utah (Lake Canyon; found with Basketmaker skull).



Description: Bracelet. Dia. 3 in.; strung on yucca fiber cord; beads globular or truncated-globular; 2 disc-shaped beads. Bone (5), volcanic tufa (5), hematite (3).

Fig. 85. Bone, tufa and hematite bead bracelet (UU:815).

UU: 816. UMP: 29-43-807. PN: I-14 (?). Prov.: Utah (Lost Canyon).

Description: Bracelet. One very large Olivella and 12 small unidentified shells, one bone disc bead, strung on yucca fiber cord. Dia. 1 3/4 in.

UU: 817. UMP: 29-43-811. PN: I-4. Prov.: Utah (Colorado River).



Fig. 86. Pendant or charm (UU:817).

Description: Pendant. Length 5 in.: Olivella beads, unidentified shell and bone disc beads (including double-lobe bone) irregularly spaced on yucca cord.

UU: 818. UMP: 29-44-312. PN:--. Prov.: SW.

Description: Necklace. 45 Olivella shells, 1 unidentified shell disc, and 1 rectangular bone bead; restrung.

UU: 819. UMP: 29-44-314. PN:--. Prov.: SW.

Description: Necklace, strung on buckskin. Dia. 7 in.; Olivella shell, unidentified shell, and 1 bone disc bead.



Fig. 87. Necklace (UU:820).

UU: 820. UMP: 29-44-313. PN:--. Prov.: SW.

Description: Necklace, strung on buckskin. 34 Olivella shell, 1 pottery disc, 1 stone disc, 1 azurite (?), 1 globular bead, and 1 shell pendant.

UU: 821. UMP: 29-44-362. PN:--. Prov.: SW.

Description: Necklace, apparently restrung. Dia. 6 in.;

shell and bone discs, shell and bone double-lobe beads. Pendant, of 1 small shell and 1 turquoise piece, attached.

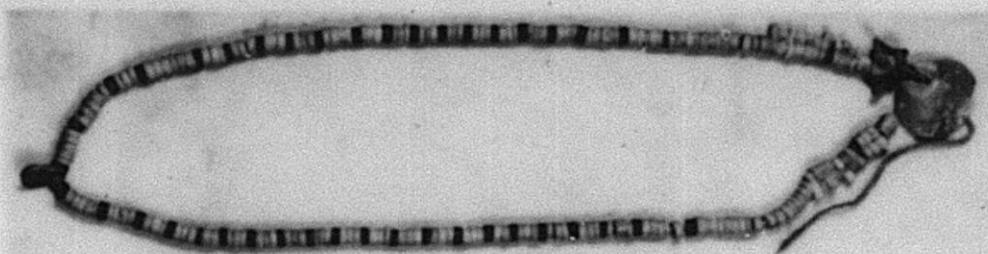


Fig. 88., Necklace (UU:821).

UU: 822. UMP: 29-44-363. PN:--. Prov.: SW.

Description: Bracelet, strung on rawhide. Dia. 4 in.; 10 Olivella, 5 Glycymeris gigantea shells (3 with center removed, 2 complete, but with perforated hinges); 3 small bone or shell discs, 7 unidentified shells, and 2 irregular bone beads.

UU: 823. UMP: 29-44-364. PN:--. Prov.: SW.

Description: Restrung necklace. Shell and stone beads, shell pendant.

UU: 832. UMP: 29-44-353. PN:--. Prov.: SW.

Description: Carved stone dog effigy, perforated (for stringing?). Length 1 1/2 in.

UU: 834, a, b. UMP: 29-44-510, 511. PN:--. Prov.: SW.

Description: Irregular shell-segment pendants.

UU: 824. UMP: 29-44-311. PN:--. Prov.: SW.

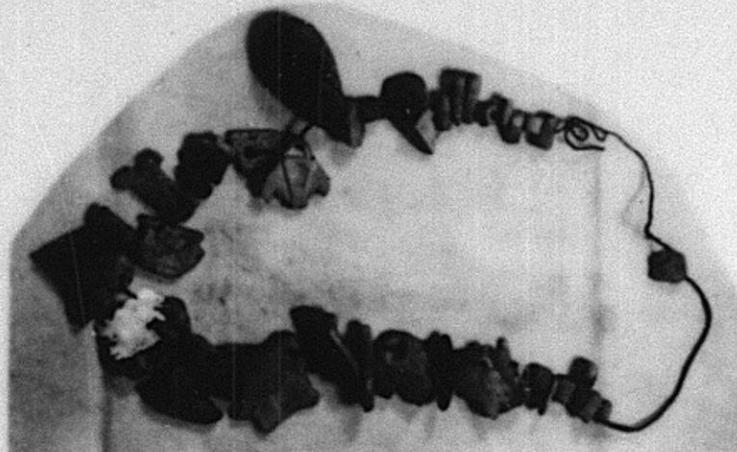


Fig. 89. Necklace (UU:824).

Description: Necklace.

Dia. approx. 9 in.; large, irregular stone beads, various outlines, frequently with incised designs.

UU: 825. UMP: 29-43-786(?).

PN:--. Prov.: Utah (Colorado River Canyon; found around neck of infant).

Description: Necklace (?). Length 30 in.; cylindrical stone beads on hair cord; heavy mat of string fringe is pendant to main strand in center area; pendant length approx. 5 in.

UU: 835. UMP: 29-44-520. PN:--. Prov.: SW.

Description: One-half (?) of stone finger (?) ring. Width 1/4 in.; dia. 5/8 in.

UU: 836, a-f. UMP: 29-44-512, 13, 15, 17, 14, 19. PN:--. Prov.: SW.

Description: Shell pendants, complete and/or fragmentary; irregular geometric forms.

UU: 826. UMP:--. PN: I-12. Prov.: Not indicated.

Description: Bracelet. Dia. 3 in.; shell disc, Olivella shell, bone and turquoise beads.

UU: 827. UMP: 29-44-309. PN:--. Prov.: SW.

Description: Glycymeris gigantea bracelet, perforated hinge.



Fig. 90. Shell pendant (UU:828).

UU: 828. UMP: 29-44-304. PN:--. Prov.: SW.

Description: Shell pendant.

UU: 829. UMP: 29-44-297. PN:--. Prov.: SW.

Description: Shell pendant. Length 2 1/2 in.; perforated through large end.



Fig. 91. Shell pendant (UU:829).

UU: 830. UMP: 29-44-360. PN:--. Prov.: SW.

Description: Stone pendant. Flat, oval; dias. 1 in. and 3/4 in.



Fig. 92. Stone imitation of shell pendant (UU:831).

UU: 831. UMP: 29-44-361. PN:--. Prov.: SW.

Description: Stone pendant. Length 2 1/2 in.; width 1 3/4 in. Carved in imitation of Trachycardium sp. shell.

UU: 837, a-q. UMP: 29-44-369, 370, 361, 348, 340, 319, 535, 570, 565, 544, 543, 505, 500, 501, 502, 495, 497. PN:--. Prov.: SW.

Description: Shell, bone, stone beads and pendants.

UU: 838. UMP: 29-42-246. PN:--. Prov.: SW.

Description: Deer (?) rib gorget. Length 6 5/8 in.; perforated at each end.

UU: 839, a-e. UMP: 29-44-491, 493, 492, 503, 494. PN:--. Prov.: SW.

Description: (a) Azurite chunks (bead blanks?); (b) Manganese chunks (bead blanks?); (c) Malachite chunks (bead blanks?); (d) Stone beads, round or square (uncounted); (e) Hornblende crystals (bead blanks).

UU: 840. UMP: 29-43-913. PN: F-51, F-52. Prov.: SW.

Description: Dice (one wood and one reed). Length 3 3/4 in. and 5 1/4 in., respectively.

Awls

Note: The following (841-890) are awls made from bird bone; head of bone intact.

UU: 841-861. PN:--. Prov.: SW.

UMP: 29-42-87, 92, 94, 95, 96, 97, 98, 100, 105, 97, 266, 91, 106, 103, 101, 93, 89, 88, 99, 235, 285.

UU: 862-875. PN:--. Prov.: Utah.

UMP: 29-42-76, 67, 74, 80, 83, 73, 77, 78, 68, 79, 70, 69, 82.

UU: 876-881. PN:--(except No. 881: G-49). Prov.: SW.

UMP: 29-42-198, 104, 109, 110, 161, 169.

UU: 882-889. PN:--. Prov.: Utah.

UMP: 29-42-37, 40, 42, 46, 35, 33, 32, 44.

UU: 890. PN:--. Prov.: SW.

UMP: 29-44-471.

Note: The following (891-904) are bone awls; head of bone intact.

UU: 891. UMP: 29-42-128. PN: C-62. Prov.: SW.

Description: Deer or mountain sheep tibia.

UU: 892. UMP: 29-42-32. PN: C-59. Prov.: Utah.

Description: Deer or mountain sheep long bone.



UU: 893. UMP: 29-42-151.

PN: C-43. Prov.: Utah.

Description: Deer or mountain sheep bone.

Fig. 93. Bone awl; head of bone intact (UU:893).

UU: 894-896. UMP: 29-42-136, 262, 65. PN:--. Prov.: Utah.

Description: 1 bobcat and 2 deer ulnae, respectively.

UU: 897, 898. UMP: 29-42-22, 23. PN:--. Prov.: Utah.

Description: Deer or mountain sheep bone.

UU: 899-903. UMP: 29-42-203; 29-44-470, 446, 441, 451. PN:--. Prov.: SW.

Description: Deer or mountain sheep bone.

UU: 904. UMP: 29-42-155. PN:--. Prov.: SW.

Description: Bird bone.

Note: The following (905-926) are bone awls; head of bone split.

UU: 905-908. UMP: 29-42-123, 127, 125, 154. PN:--. Prov.: SW.

Description: Deer or mountain sheep bone.

UU: 909-919. UMP: 29-42-50, 48, 129, 130, 133, 135, 172, 171, 31, 166, 162.

PN:--. Prov.: Utah.

Description: Deer or mountain sheep bone.

UU: 920-926. UMP: 29-42-120, 25, 134, 214, 153, 236, 445. PN:--(except No. 925: G-78). Prov.: SW.

Description: Deer or mountain sheep bone.

Note: The following (927-965) are bone awls; head of bone split and smoothed.

UU: 927. UMP: 29-42-156. PN:--. Prov.: SW.

Description: Bird bone.

UU: 928-931. UMP: 29-42-75, ?, 38, 30. PN:--. Prov.: Utah.

Description: Bird bone.

UU: 932-934. UMP: 29-42-234, 249, 124. PN:--. Prov.: SW.

Description: Deer or mountain sheep bone.

UU: 935-943. UMP: 29-42-53, 54, 51, 58, 250, 102, 137, 121, 118. PN:--. Prov.: Utah.



Description: Deer or mountain sheep bone.

UU: 944. UMP: 29-42-181.

PN:--. Prov.: Utah.

Description: Bobcat ulna.

Fig. 94. Bone awl (UU:943).

UU: 945, 946. UMP: 29-42-84, 71. PN:--. Prov.: Utah.

Description: Deer or mountain sheep bone.

UU: 947-956. UMP: 29-42-158, 180, 167, 206, 27, 216, 226, 28, 126, 213.

PN:--(except Nos. 953: G-48; 954: G-13). Prov.: SW.

Description: Deer or mountain sheep bone.

UU: 957-965. UMP: 29-42-444, 442, 483, 480, 463, 454, 455, 475, 457. PN:--.

Prov.: Utah.

Description: Deer or mountain sheep bone.

Note: The following (966-1004) are bone awls; head of bone absent.

UU: 966-971. UMP: 29-42-86, 160, 168, 164, 165, 163. PN:--(except Nos.

967: G-96; 971: G-11). Prov.: SW.

Description: Bird bone.

UU: 972-979. UMP: 29-42-41, 36, 34, 43, 47, 39, 45, 209. PN:--(except No.

978: G-91). Prov.: Utah.

Description: Bird bone.

UU: 980-985. UMP: 29-42-140, 175, 139, 141, 146, 55. PN:--. Prov.: Utah.

Description: Deer or mountain sheep bone.

UU: 986. UMP: 29-42-143. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Deer or mountain sheep bone.

UU: 987-990. UMP: 29-42-112, 116, 170, 159. PN:--. Prov.: SW.



Description: Deer or mountain sheep bone.

Fig. 95. Deer or mt. sheep bone awl (UU:989).

* UU: 992. UMP: 29-42-29. PN:--. Prov.: Utah.

Description: Deer or mountain sheep bone.

UU: 993-1004. UMP: 29-42-59, 61, 144, 220; 29-44-456, 468, 453, 467, 458, 479, 476, 452. PN:--. Prov.: SW.

Description: Deer or mountain sheep bone.

UU: 1005-1010. UMP: 29-42-185, 184, 186, 111, 176, 177. PN: G-60, G-57, G-52, ---, ---, ---. Prov.: SW.

Description: Deer or mountain sheep bone rib awls.

UU: 1011. UMP: 29-42-148. PN:--. Prov.: SW.

Description: Deer or mountain sheep bone splinter awl.

UU: 1012. UMP: 29-42-181. PN:--. Prov.: Utah.

Description: Bird bone splinter awl.

Note: The following (1013-1036) are awl fragments.

UU: 1013-1015. UMP: 29-42-173. PN:--. Prov.: SW.

UU: 1016. UMP: 29-42-63. PN:--. Prov.: Utah.

Description: Deer or mountain sheep bone awl fragment.

UU: 1017. UMP: 29-42-52. PN:--. Prov.: Utah.

UU: 1018. UMP: 29-42-212. PN:--. Prov.: SW.

UU: 1019. UMP: 29-42-210. PN:--. Prov.: SW.

Description: Bird (?) bone awl fragment.

UU: 1020-1029. UMP: 29-42-138, 131, 145, 205, 215, 219, 211; 29-44-460,
440, 443. PN:--. Prov.: SW.

Description: Deer or mountain sheep bone awl fragments.

UU: 1030. UMP: 29-44-472. PN:--. Prov.: SW.

Description: Bird bone awl fragment.

UU: 1031-1036. UMP: 29-44-466, 459, 464, 469, 462, 465. PN:--. Prov.: SW.

Description: Deer or mountain sheep bone awl fragments.

UU: 1037. UMP: 29-42-236. PN: G-65. Prov.: SW.

Description: Awl. Made from deer mandible; butt includes 6 teeth; total
length of awl 3 5/8 in.

UU: 1038. UMP: 29-42-119. PN:--. Prov.: SW.

Description: Double-pointed awl; length 4 1/2 in.

UU: 1039. UMP: 29-42-157. PN: G-9. Prov.: SW.

Description: Awl. Made from deer or mountain sheep scapula; thin portion removed, remaining thick edge sharpened to point.

UU: 1040. UMP: 29-42-24. PN: G-67. Prov.: Utah.

Description: Double-pointed awl; length 3 5/8 in.

UU: 1041. UMP: 29-42-247. PN:--. Prov.: Utah.

Description: Awl fragment. Length 5 in.; width 1 in.; encircling groove near point.

UU: 1107. UMP: 29-42-218. PN:--. Prov.: SW.

Description: Awl or flaker. Length 3 1/2 in.; head of bone removed.

Fleshers

Note: The following (1042-1065) are bone fleshers that vary mainly in length (5 to 6 1/2 in.). Size is dependent on dimensions of bone blank. All are manufactured from deer or mountain sheep humerii. The nub and a diagonal-sectioned portion of the bone remain; the edge is use-smoothed.

UU: 1042-1059. UMP: 29-42-12, 13, 7, 14, 2, 1, 3, 15, 10, 4, 16, 19, 8, 5, 20, 9, 18, 17. PN:--(except Nos. 1046: G-3(?); 1047: G-34). Prov.: SW.

UU: 1060. UMP: 29-42-11. PN:--. Prov.: SW.

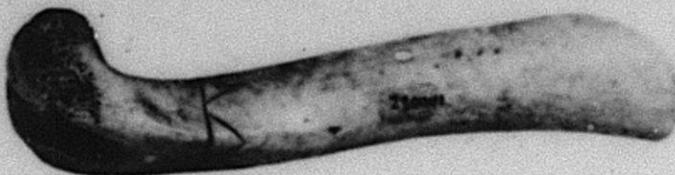


Fig. 96. Bone flesher, incised decoration (UU:1060).

Description: Bone flesher.

Incised decoration.

UU: 1061. UMP: 29-42-265.

PN:--. Prov.: Utah.

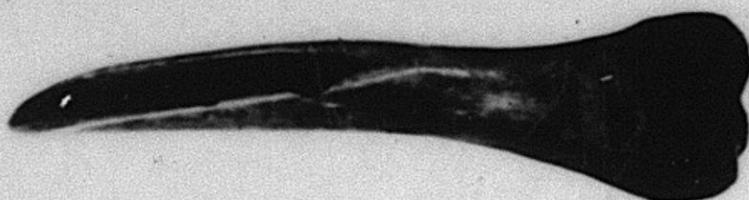


Fig. 97. Undecorated bone flesher (UU:1061).

UU: 1062, 1063. UMP: 29-44-448, 449. PN:--. Prov.: SW.

Description: Bone fleshers. Incised decoration.

UU: 1064, 1065, 1065, a. UMP: 29-44-450, 447; 29-42-201. PN:--. Prov.: SW.

Flakers

UU: 1066, 1067. UMP: 29-42-188, 187. PN: G-70, 50. Prov.: SW.

Description: Short flakers made from deer or mountain sheep ribs. Lengths 2 3/4 in., 2 1/4 in.; smoothed overall; blunt-pointed tips.

UU: 1068. UMP: 29-42-182. PN:--. Prov.: SW.

Description: Deer or mountain sheep rib flaker. Length 5 3/4 in.

UU: 1069. UMP:--. PN: G-18. Prov.: SW.

Description: Deer or mountain sheep ulna flaker. Length 4 1/2 in.; head partly smoothed.

UU: 1070, 1071. UMP: 29-42-245, 204. PN:--. Prov.: SW.

Description: Flakers made from deer or mountain sheep long bone, head of bone split. Length 3 1/2 to 4 1/2 in.

UU: 1072. UMP: 29-42-207. PN:--. Prov.: SW.

Description: Deer antler flaker. Length 4 in.

UU: 1073. UMP: 29-42-193. PN:--. Prov.: SW.

Description: Deer antler flaker, double pointed. Length 5 in.

UU: 1074. UMP: 29-42-248. PN:--. Prov.: SW.

Description: Deer bone flaker. Length 4 1/4 in.; head of bone missing; corkscrew shaped (slightly spiraled).

Drawshaves

UU: 1075. UMP: 29-42-284. PN: G-72. Prov.: SW.

Description: Deer long bone drawshave. Bone split longitudinally; edges use-smoothed.

UU: 1076. UMP: 29-42-285. PN:--. Prov.: SW.



Fig. 98. Deer longbone drawshave (UU:1076).

Description: Deer long bone drawshave. Bone split longitudinally; edges use-smoothed.

Knives

UU: 1077. UMP: 29-42-282. PN:--. Prov.: SW.

Description: Flat, knife-shaped object. Length 7 1/4 in.

UU: 1078. UMP: 29-42-283. PN: 94-4-2. Prov.: SW.

Description: Curving, knife-shaped object. Length 8 in.; width 1/2 in.; both edges sharpened.

UU: 1086. UMP: 29-43-934. PN: G-39. Prov.: SW.

Description: Knife, serrated edge. Length 4 3/8 in.; width 1/2 in.; serrations on convex edge.

UU: 1087. UMP: 29-42-239. PN: G-28. Prov.: SW.

Description: Deer scapula knife made by trimming the fossa rim, cutting the distal end square, cutting a convex edge through the thin portion and beveling to knife-sharpness. Length 8 3/4 in.; width 2 in.

UU: 1100. UMP: 29-42-277. PN:--. Prov.: SW.

Description: Knife/scaper. Length 4 3/4 in.; tapers to max. width of 1 in.; wide end beveled, narrow end worked to rounded blade edge.

UU: 1092. UMP: 29-42-279. PN:--. Prov.: SW.



Fig. 99. Bone knife made from deer scapula (UU:1092).

portion of head of bone remains; both edges sharpened.

UU: 1105. UMP: 29-42-278. PN:--. Prov.: SW.

Description: Knife. Curving; length 4 1/2 in.; convex edge sharpened; smoothed overall.

Polishers, Scrapers and Shredders

UU: 1099. UMP: 29-42-240. PN:--. Prov.: SW.

Description: Deer tibia polisher. Smoothed overall; length 3 1/2 in.; blunt end.

UU: 1081. UMP: 29-42-181. PN:--. Prov.: SW.

Description: Thumbnail-shaped bone scraper. Length 1 5/8 in.; max. width 3/4 in.; blade edge formed by beveling from concave side of original bone across wide end.

UU: 1082. UMP: 29-42-181. PN:--. Prov.: SW.

Description: Deer rib polisher or scraper. Length 3 1/4 in.; flat; smooth; worn thin.

UU: 1094. UMP: 29-42-223. PN: G-87. Prov.: SW.

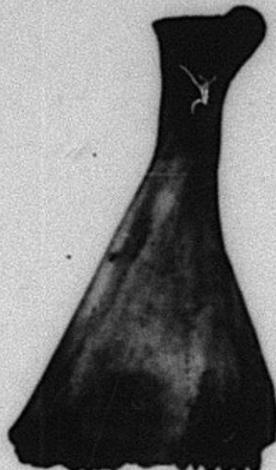


Fig. 100. Deer scapula shredder (UU:1094).

Description: Deer scapula, serrated blade formed on distal end (for shredding fibers?).

UU: 1095. UMP: 29-44-715. PN:--.

Prov.: SW.

Description: Gouge or scraper made from deer or mountain sheep humerus. Length 5 3/4 in.; width 1/4 in.

Bodkins and Needles

UU: 1080. UMP: 29-42-179. PN:--. Prov.: SW.

Description: Needle. Length 3 3/4 in.; width 3/4 in.; made from deer long-bone. Smoothed overall; flat; perforated.

UU: 1084. UMP: 29-42-260. PN:--. Prov.: SW.



Fig. 101. Bone bodkin or needle (UU:1084).

Description: Bodkin or needle. Length 9 1/4 in.; expanded, shouldered

base, 3/4 in. wide, for eye.

UU: 1102. UMP: 29-42-178. PN:--. Prov.: SW.

Description: Needle fragment. Length 4 3/4 in.

UU: 1106. UMP: 29-42-275. PN: G-38. Prov.: SW.



Description: Bodkin. Length 8 3/4 in.; thickness 1/8 in.; max. width 1/2 in.;

Fig. 102. Bone bodkin (UU:1106). square cut butt.

UU: 1108. UMP: 29-42-56. PN:--. Prov.: SW.

Description: Bodkin. Length 8 1/2 in.; head of bone removed; smoothed overall.

UU: 1110. UMP: 29-44-481. PN:--. Prov.: SW.

Description: Needle. Length 5 in.; width at base 3/4 in.; three transverse incisions below eye.

UU: 1111. UMP: 29-44-461. PN:--. Prov.: SW.

Description: Needle. Length 3 1/2 in.; width at base 1/2 in.; eye rim partly broken away.

UU: 1109. UMP: 29-42-56. PN:--. Prov.: SW.

Description: Bodkin. Length 8 1/2 in.; head of bone removed; smoothed overall.

UU: 1112. UMP: 29-44-478. PN:--. Prov.: SW.

Description: Needle. Length 5 1/4 in.; width at base 3/4 in.; eye off-center at base.

UU: 1113. UMP: 29-44-439. PN:--. Prov.: SW.

Description: Needle (?); broken tip. Length 6 1/4 in.; width 1 1/4 in.; eye centered at base.

Whistle

UU: 1114. UMP: 29-42-195. PN: G-51. Prov.: SW.

Description: Whistle, of curving bird bone. Length 3 in.; both heads of bone removed. Hole at center of concave side, partly blocked with pitch. Stacked chevron incisions extend length of bone.

Miscellaneous Worked Bone

UU: 1079. UMP: 29-42-286. PN: G-24. Prov.: SW.

Description: Chisel-like tool. Length 6 in.; made from deer longbone by splitting longitudinally, then severing head from one end of bone and working that end to chisel-like blade.

UU: 1083. UMP: 29-42-191. PN: G-58. Prov.: SW.

Description: Deer rib with transverse incisions; use unknown.

UU: 1089. UMP: 29-42-196. PN:--. Prov.: SW.

Description: Turkey (?) bone, both heads removed. No function apparent.

UU: 1090. UMP: 29-42-243. PN: G-37. Prov.: SW.

Description: Turkey (?) bone cut through diagonally and sharpened.

UU: 1091. UMP: 29-42-244. PN:--. Prov.: SW.

Description: Deer bone section. Length 4 1/2 in.; width 1/2 in.; tapering form; one end cut square.

UU: 1093. UMP: 29-42-147. PN:--. Prov.: SW.

Description: Fragment of blunt-ended tool. Length 3 1/2 in.; width 5/8 in.

UU: 1101. UMP: 29-42-197. PN: G-31. Prov.: SW.

Description: Flat, curving tool. Length 3 in.; width 5/8 in.; end beveled.

UU: 1103. UMP: 29-42-289. PN:--. Prov.: SW.

Description: Implement 5 1/2 in. long, 3/4 in. wide; one end cut square; blunt. Opposite end is rounded blunt.

UU: 1104. UMP: 29-42-281. PN:--. Prov.: SW.

Description: Fragment from spatulate end tool. Broken end worked to awl point.

GROUND AND PECKED STONE

Manos

UU: 1318. UMP: 29-44-168. PN:--. Prov.: SW.

Description: Ovoid mano, 1-hand. 4 x 2 1/2 x 1 1/4 in.; 2 faces; sandstone.

UU: 1319. UMP: 29-44-180. PN:--. Prov.: SW.

Description: Ovoid mano, 1-hand. 4 1/4 x 3 1/2 x 2 in.; 2 faces; sandstone.

UU: 1320. UMP: 29-44-169. PN:--. Prov.: SW.

Description: Ovoid mano, 1-hand. 4 3/4 x 3 3/4 x 1 1/2 in.; 2 faces; sandstone.

UU: 1321. UMP: 29-44-167. PN:--. Prov.: SW.

Description: Ovoid mano, 1-hand. 4 1/4 x 2 3/4 x 1 1/8 in.; 1 face; sandstone.

UU: 1322. UMP: 29-44-183. PN:--. Prov.: SW.

Description: Rectangular mano, 1-hand. 5 x 3 1/2 x 1 1/2 in.; 2 faces; sandstone.

UU: 1323. UMP: 29-44-170. PN:--. Prov.: SW.

Description: Ovoid mano, 1-hand. 4 3/4 x 3 1/4 x 2 in.; 2 faces; sandstone.

UU: 1324. UMP: 29-44-185. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $9\frac{1}{2} \times 4\frac{1}{4} \times 1$ in.; 2 faces
(on one side); sandstone.

UU: 1325. UMP: 29-44-171. PN:--. Prov.: SW.

Description: Ovoid mano, 2-hand. $8\frac{1}{2} \times 4 \times 1\frac{1}{2}$ in.; 2 faces; sand-
stone.

UU: 1326. UMP: 29-44-193. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $8\frac{1}{4} \times 3 \times 1\frac{3}{4}$ in.; 1 face;
sandstone.

UU: 1328. UMP: 29-44-203. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $11\frac{1}{2} \times 4 \times \frac{3}{4}$ in.; 3 faces;
sandstone.

UU: 1329. UMP: 29-44-202. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $10\frac{1}{4} \times 5 \times 1$ in.; 2 faces;
sandstone.

UU: 1330. UMP: 29-44-201. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $9 \times 4\frac{1}{2} \times \frac{3}{4}$ in.; 3 faces;
sandstone.

UU: 1331. UMP: 29-44-204. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $12\frac{1}{4}$ x $5\frac{1}{2}$ x $\frac{1}{2}$ in.; 2 faces; sandstone.

UU: 1332. UMP: 29-44-196. PN:--. Prov.: SW.

Description: Ovoid mano, 2-hand. 7 x $3\frac{1}{4}$ x $2\frac{1}{4}$ in.; 2 faces; sandstone.

UU: 1333. UMP: 29-44-197. PN:--. Prov.: SW.

Description: Loaf (irregular)-shaped mano, 1-hand. 6 x $3\frac{1}{4}$ x 2 in.; 1 face; sandstone.

UU: 1334. UMP: 29-44-198. PN:--. Prov.: SW.

Description: Loaf-shaped mano, 1-hand. $6\frac{1}{2}$ x $3\frac{3}{4}$ x $2\frac{1}{4}$ in.; 2 faces; sandstone.

UU: 1335. UMP: 29-44-225. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $7\frac{1}{2}$ x 4 x 1 in.; 2 faces; sandstone.

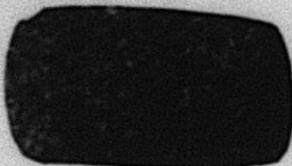
UU: 1336. UMP: 29-44-212. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $8\frac{1}{4}$ x $3\frac{3}{4}$ x 2 in.; 2 faces; sandstone.

UU: 1337. UMP: 29-44-221. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 7 x 3 1/4 x 1 1/2 in.; 2 faces; sandstone.

UU: 1338. UMP: 29-44-220. PN:--. Prov.: Colorado.



Description: Rectangular mano, 2-hand.

6 3/4 x 3 3/4 x 1 1/4 in.; 2 faces; volcanic,
porous stone.

Fig. 103. Mano made from
porous volcanic stone (UU:1338).

UU: 1339. UMP: 29-44-210. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 9 3/4 x 3 3/4 x 1 1/2 in.;
2 faces; sandstone.

UU: 1340. UMP: 29-44-211. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 8 3/4 x 3 1/4 x 1 in.; 2 faces;
sandstone.

UU: 1341. UMP: 29-44-209. PN:--. Prov.: Colorado.

Description: Ovoid mano, 1-hand. 4 1/4 x 3 1/4 x 1 1/2 in.; 2 faces;
sandstone.

UU: 1342. UMP: 29-44-213. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 7 1/4 x 3 3/4 x 1 3/4 in.;
2 faces; volcanic stone.

UU: 1343. UMP: 29-44-214. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $8\frac{3}{4} \times 3\frac{3}{4} \times 1\frac{3}{4}$ in.;
2 faces; sandstone.

UU: 1344. UMP: 29-44-212. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $8\frac{1}{2} \times 4\frac{1}{4} \times 1\frac{1}{4}$ in.;
2 faces; volcanic stone.

UU: 1345. UMP: 29-44-223. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $7\frac{1}{2} \times 4 \times 1\frac{1}{4}$ in.; 2 faces;
sandstone.

UU: 1346. UMP: 29-44-215. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $7\frac{1}{2} \times 4 \times 1\frac{3}{4}$ in.; 1 face;
sandstone.

UU: 1347. UMP: 29-44-217. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $8\frac{3}{4} \times 4\frac{1}{4} \times 2$ in.; 2 faces;
volcanic stone.

UU: 1348. UMP: 29-44-222. PN:--. Prov.: Colorado.

Description: Rectangular mano, 1-hand. $5\frac{1}{4} \times 3\frac{3}{4} \times 1$ in.; 2 faces;
sandstone.

UU: 1349. UMP: 29-44-219. PN:--. Prov.: Colorado.

Description: Irregular-shaped mano, 1-hand. 6 1/2 x 4 x 2 in.; 1 face; sandstone.

UU: 1350. UMP: 29-44-208. PN:--. Prov.: Colorado.

Description: Turtle back-shaped mano, 1-hand. 6 x 3 3/4 x 1 3/4 in.; 1 face; sandstone.

UU: 1351. UMP: 29-44-216. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 8 1/4 x 4 x 1 3/4 in.; 2 faces; sandstone.

UU: 1352. UMP: 29-44-376. PN:--. Prov.: SW.

Description: Ovoid mano, 1-hand. 4 1/4 x 3 1/4 x 2 1/4 in.; 3 faces; sandstone.

UU: 1353. UMP: 29-44-385. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. 7 3/4 x 3 3/4 x 1 1/2 in.; 2 faces; sandstone.

UU: 1354. UMP: 29-44-374. PN:--. Prov.: SW.

Description: Rectangular mano, 1-hand. 6 x 2 x 2 in.; 4 faces; volcanic stone.

UU: 1355. UMP: 29-44-371. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $7\frac{1}{4}$ x 4 x $2\frac{3}{4}$ in.; 2 faces; volcanic stone.

UU: 1356. UMP: 29-44-387. PN:--. Prov.: SW.

Description: Rectangular mano, 1-hand. 4 x 3 x 1 in.; 2 faces; volcanic stone.

UU: 1357. UMP: 29-44-375. PN:--. Prov.: SW.

Description: Ovoid mano, 1-hand. $5\frac{1}{2}$ x $3\frac{1}{2}$ x $\frac{3}{4}$ in.; 2 faces; sandstone.

UU: 1358. UMP: 29-44-384. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. 8 x 4 x $\frac{1}{2}$ in.; 2 faces; volcanic stone.

UU: 1359. UMP: 29-44-386. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. 8 x $3\frac{1}{2}$ x 2 in.; 2 faces; volcanic stone.

UU: 1360. UMP: 29-44-38(?). PN:--. Prov.: SW.

Description: Rectangular mano, 1-hand. $5\frac{3}{4}$ x $3\frac{3}{4}$ x $1\frac{1}{2}$ in.; 2 faces; sandstone.

UU: 1361. UMP: 29-44-382. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $7\frac{1}{4}$ x 4 x 1 in.; 2 faces; sandstone.

UU: 1362. UMP: 29-44-372. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $9\frac{3}{4}$ x $3\frac{1}{2}$ x $1\frac{1}{2}$ in.; 1 face; volcanic stone.

UU: 1363. UMP: 29-44-381. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $7\frac{1}{4}$ x $3\frac{1}{2}$ x 1 in.; 2 faces; volcanic stone.

UU: 1364. UMP: 29-44-379. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $7\frac{1}{2}$ x $4\frac{1}{4}$ x $1\frac{1}{4}$ in.; 2 faces; volcanic stone.

UU: 1365. UMP: 29-44-383. PN:--. Prov.: SW.

Description: Ovoid mano, 2-hand. 7 x $3\frac{3}{4}$ x 1 in.; 2 faces; volcanic stone.

UU: 1366. UMP: 29-44-379. PN:--. Prov.: SW.

Description: Ovoid mano, 1-hand. $5\frac{1}{2}$ x $2\frac{3}{4}$ x $1\frac{1}{4}$ in.; 2 faces; sandstone.

UU: 1367. UMP: 29-44-391. PN:--. Prov.: SW.

Description: Rectangular mano, 1-hand. 6 x $3\frac{1}{4}$ x 2 in.; 2 faces; sandstone.

UU: 1368. UMP:--. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $8\frac{1}{4}$ x 4 x $3\frac{1}{2}$ in.; 1 face; volcanic stone; finger grooves on sides.

UU: 1369. UMP: 29-44-390. PN:--. Prov.: SW.

Description: Rectangular mano, 2-hand. $8\frac{1}{2}$ x 4 x $1\frac{1}{2}$ in.; 2 faces; volcanic stone.

UU: 1370. UMP: 29-44-389. PN:--. Prov.: SW.


Description: Elongated oval-shaped mano, 2-hand. $10\frac{1}{2}$ x $4\frac{1}{4}$ x $1\frac{3}{4}$ in.; 1 face; volcanic stone.

Fig. 104. Mano made from porous volcanic stone (UU:1370).

UU: 1371. UMP: 29-44-394. PN:--. Prov.: SW.

Description: Rectangular mano, 1-hand. $4\frac{1}{4}$ x 3 x $1\frac{1}{4}$ in.; 2 faces; sandstone.

UU: 1372. UMP: 29-44-393. PN:--. Prov.: SW.

Description: Rectangular to ovoid mano, 1-hand. 4 x $2\frac{3}{4}$ x $1\frac{3}{4}$ in.; 2 faces; sandstone.

UU: 1373. UMP: 29-44-226. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $6\frac{3}{4}$ x $3\frac{3}{4}$ x $1\frac{1}{4}$ in.; 2 faces; volcanic stone.

UU: 1374. UMP: 29-44-228. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2?-hand. Fragment x 3 3/4 x 1 in.;
1 face; volcanic stone.

UU: 1375. UMP: 29-44-243. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 8 1/2 x 4 x 1 in.; 3 faces;
volcanic stone.

UU: 1376. UMP: 29-44-242. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 7 3/4 x 3 3/4 x 1 1/4 in.;
2 faces; volcanic stone.

UU: 1377. UMP: 29-44-235. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 7 x 3 3/4 x 3/4 in.; 2 faces;
volcanic stone.

UU: 1378. UMP: 29-44-241. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 7 x 3 3/4 x 3/4 in.; 2 faces;
volcanic stone.

UU: 1379. UMP: 29-44-240. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. 7 1/4 x 3 3/4 x 3/4 in.;
2 faces; sandstone.

UU: 1380. UMP: 29-44-239. PN:--. Prov.: Colorado.

Description: Rectangular to ovoid mano, 2-hand. $8 \times 3\frac{3}{4} \times 1\frac{1}{4}$ in.;
2 faces; sandstone.

UU: 1381. UMP: 29-44-238. PN:--. Prov.: Colorado.

Description: Rectangular to ovoid mano, 2-hand. $7\frac{1}{4} \times 4 \times 3\frac{3}{4}$ in.;
1 face; volcanic stone.

UU: 1382. UMP: 29-44-237. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $8\frac{3}{4} \times 4\frac{1}{2} \times 1$ in.; 2 faces;
volcanic stone.

UU: 1383. UMP: 29-44-227. PN:--. Prov.: Colorado.

Description: Rectangular to ovoid mano, 1-hand. $5 \times 3 \times 1\frac{3}{4}$ in.;
2 faces.

UU: 1384. UMP: 29-44-236. PN:--. Prov.: Colorado.

Description: Rectangular mano, 2-hand. $6\frac{1}{4} \times 3\frac{1}{2} \times 3\frac{3}{4}$ in.; 2 faces.

UU: 1385. UMP: 29-44-52. PN:--. Prov.: Utah (Lake Canyon).

Description: Ovoid mano, 2-hand. $6\frac{1}{2} \times 3\frac{3}{4} \times 1$ in.; 1 face;
porphyritic rock.

UU: 1386. UMP: 29-44-50. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Rectangular to ovoid mano, 2-hand. $6\frac{3}{4} \times 3\frac{3}{4} \times 1$ in.;

2 faces; porphyritic rock.

UU: 1387. UMP: 29-44-51. PN:--. Prov.: Not indicated.

Description: Turtle back- to ovoid-shaped mano, 1-hand. $5\frac{1}{2}$ x 4 x $1\frac{1}{4}$ in.; 1 face.

UU: 1388. UMP: 29-44-43. PN:--. Prov.: Not indicated.

Description: Turtle back- to ovoid-shaped mano, 1-hand. 5 x $3\frac{1}{2}$ x $1\frac{3}{4}$ in.; 1 face.

UU: 1389. UMP: 29-44-40. PN:--. Prov.: Utah (Lake Canyon).

Description: Rectangular mano, 2-hand. $7\frac{1}{2}$ x $4\frac{1}{4}$ x 1 in.; 1 face.

UU: 1390. UMP: 29-44-49. PN:--. Prov.: Not indicated.

Description: Rectangular (?) mano. Fragment x $3\frac{1}{2}$ x 2 in.; 2 faces.

Note: The following manos (UU: 1394-1402) range in diameter from 2 in. to $4\frac{1}{2}$ in.

UU: 1394-1402. UMP: 29-44-174, 172, 173, 175, 195, 400, 395, 399, 398.

PN:--. Prov.: SW.

Pestles

UU: 1145. UMP: 29-44-179. PN:--. Prov.: SW.

Description: Hammerstone or pestle. Length 6 in.; dia. $2\frac{1}{2}$ in.

UU: 1147. UMP: 29-44-199. PN:--. Prov.: SW.

Description: Pestle. Length 5 3/4 in.; dia. 1 1/2 in.

UU: 1150. UMP: 29-44-392(?). PN:--. Prov.: SW.

Description: Pestle. Length 3 3/4 in.; dia. 2 1/4 in.

UU: 1151. UMP: 29-44-230. PN:--. Prov.: Colorado.

Description: Pestle/mano. Length 6 1/2 in.; center dia. 3 1/2 in.; one side flattened from use as grinder.

UU: 1152. UMP: 29-44-44. PN: C-14. Prov.: Utah (Lost Canyon).

Description: Pestle. Length 6 1/2 in.; dia. 2 1/2 in.

Hammerstones

Note: The following hammerstones range in diameter from 1 3/4 in. to 3 in.

UU: 1391-1405. UMP: 29-44-29, 172-176, 178, 195, 395-400, 734. PN:--(except No. 1391; C-15). Prov.: 1391, Utah (Lost Canyon); 1392-1404, SW. 1405, Utah.

Mauls

UU: 1160. UMP: 29-42-857. PN:--. Prov.: Utah.

Description: Length 3 1/2 in.; full groove; symmetrical, rounded bits.

UU: 1161. UMP: 29-44-77. PN:--. Prov.: SW.

Description: Length 6 3/4 in.; full double grooves; flat butt; single bit.

UU: 1162. UMP: 29-44-79. PN:--. Prov.: SW.

Description: Length 6 1/2 in.; full groove; flat butt; single bit.

UU: 1163. UMP: 29-44-38. PN:--. Prov.: Colorado (Navajo Canyon).

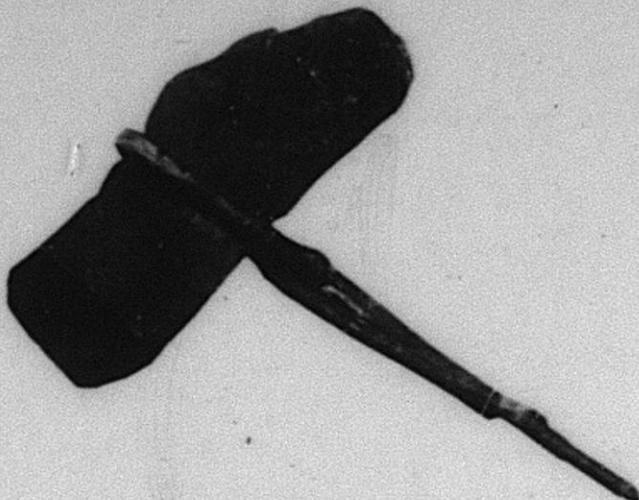


Fig. 105. Crude hafted maul (UU:1163).

Description: Length 10 in.; full groove; crude; irregular; flat butt; single bit; bent twig single wrap handle 9 in. long, tied to itself with yucca fiber; sandstone (?).

UU: 1164. UMP: 29-44-36.

PN:--. Prov.: SW.

Description: Length 6 in.; full groove; rounded butt; single bit.

UU: 1165. UMP: 29-44-37. PN:--. Prov.: SW.

Description: Length 5 1/2 in.; no groove; expanded bulbous butt; single bit.

UU: 1166. UMP: 29-44-411. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; full groove; symmetrical, rounded bits.

UU: 1167. UMP: 29-44-407. PN:--. Prov.: SW.

Description: Length 4 in.; full groove; symmetrical, flat bits; porous volcanic stone.

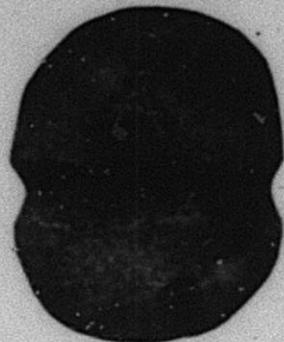
UU: 1168. UMP: 29-44-412. PN:--. Prov.: SW.

Description: Length 7 3/4 in.; full groove; symmetrical, rounded bits.

UU: 1169. UMP: 29-44-409. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; notched groove; symmetrical, rounded bits.

UU: 1170. UMP: 29-44-410. PN:--. Prov.: SW.



Description: Length 4 1/2 in.; full groove; symmetrical, rounded bits.

UU: 1171. UMP: 29-44-421. PN:--.

Prov.: SW.

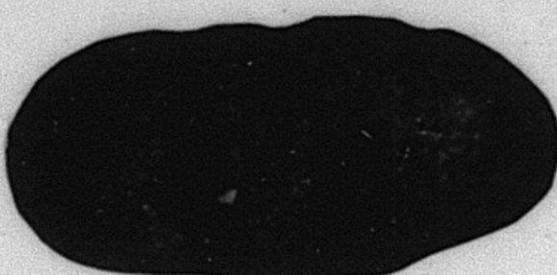
Description: Length 4 1/2 in.; full groove; expanded, bulbous butt.

Fig. 106. Maul (UU:1170).

UU: 1172. UMP: 29-44-408. PN:--. Prov.: SW.

Description: Length 5 1/2 in.; full groove; symmetrical, rounded bits; crude.

UU: 1173. UMP: 29-44-134. PN:--. Prov.: SW.



Description: Length 6 in.; triple groove; symmetrical, rounded bits.

UU: 1174. UMP: 29-44-138. PN:--.

Prov.: SW.

Description: Length 5 in.; full groove; symmetrical, rounded bits.

Fig. 107. Triple groove maul (UU:1173).

UU: 1175. UMP: 29-44-131. PN:--. Prov.: SW.

Description: Length 8 in.; full groove; symmetrical, rounded bits.

UU: 1176. UMP: 29-44-166. PN:--. Prov.: SW.

Description: Length 3 in.; full groove; symmetrical, rounded bits.

UU: 1177. UMP: 29-44-162. PN:--. Prov.: SW.

Description: Length 6 in.; edge-notch groove; irregular, double bits.

UU: 1178. UMP: 29-44-177. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; edge-notch groove; irregular, double bits; crude.

UU: 1179. UMP: 29-44-181. PN:--. Prov.: SW.

Description: Length 4 1/2 in.; edge-notch groove; irregular, double bits; crude.

UU: 1180. UMP: 29-44-191. PN:--. Prov.: SW.

Description: Length 6 1/2 in.; full groove; symmetrical, double bits.

UU: 1181. UMP: 29-44-189. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Length 5 in.; 3 edge-notch grooves; symmetrical, double bits.

UU: 1182. UMP: 29-44-192. PN:--. Prov.: SW.

Description: Full groove; ovoid, small end section set off by groove; incisions run from groove to bit (?). Maul (?).

UU: 1183. UMP: 29-44-405. PN:--. Prov.: SW.

Description: Length 3 1/2 in.; full groove; symmetrical, flat bits.

UU: 1184. UMP: 29-44-401. PN:--. Prov.: SW.

Description: Length 4 1/2 in.; full groove; rounded butt; single bit.

UU: 1185. UMP: 29-44-406. PN:--. Prov.: SW.

Description: Length 4 1/2 in.; 3/4 groove; symmetrical, double bits; flat underside.

UU: 1186. UMP: 29-44-404. PN:--. Prov.: SW.

Description: Length 3 in.; full groove; symmetrical, flat, double bitted.

UU: 1187. UMP: 29-44-403. PN:--. Prov.: SW.

Description: Length 3 in.; full groove; crude, double bitted; porous volcanic stone.

UU: 1188. UMP: 29-44-402. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; full groove; crude; double bitted; porous volcanic stone.

UU: 1189. UMP: 29-44-232. PN:--. Prov.: Colorado.

Description: Length 5 in.; 3/4 groove; single bit; flat underside.

UU: 1190. UMP: 29-44-233. PN:--. Prov.: Colorado.

Description: Length 4 in.; 3/4 groove; single bit; flat underside.

UU: 1191. UMP: 29-44-122. PN:--. Prov.: Colorado.

Description: Length 7 1/2 in.; edge-notch groove; bulbous butt; single bit.

UU: 1192. UMP: 29-44-102. PN:--. Prov.: SW.

Description: Length 7 1/2 in.; edge-notch groove; bulbous butt; single bit.

UU: 1193. UMP: 29-44-101. PN:--. Prov.: SW.

Description: Length 3 1/2 in.; full groove; flat butt; single bit.

UU: 1194. UMP: 29-44-100. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; full groove; symmetrical; double bitted.

Axes

UU: 1195. UMP: 29-44-35. PN: G-1. Prov.: Colorado (Navajo Canyon).

Description: Length 6 3/4 in.; full groove; single bit.

UU: 1196. UMP: 29-44-7 ?. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; full groove; single bit.

UU: 1197. UMP: 29-44-59. PN:--. Prov.: SW.

Description: Length 6 in.; full groove; single bit.

UU: 1198. UMP: 29-44-67. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; groove ridges; single bit.

UU: 1199. UMP: 29-44-66. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; single bit.

UU: 1200. UMP: 29-44-57. PN:--. Prov.: SW.

Description: Length 6 1/4 in.; full groove; single bit.

UU: 1201. UMP: 29-44-65. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; single bit.

UU: 1202. UMP: 29-44-55. PN:--. Prov.: SW.

Description: Length 4 1/2 in.; full groove; single bit.

UU: 1203. UMP: 29-44-56. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; single bit.

UU: 1204. UMP: 29-44-64. PN:--. Prov.: SW.

Description: Length 5 1/4 in.; full groove; single bit.

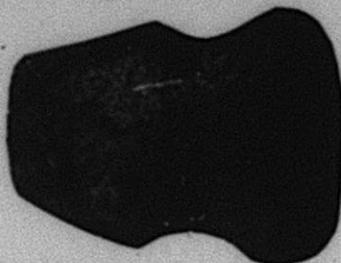
UU: 1205. UMP: 29-44-58. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; single bit.

UU: 1206. UMP: 29-44-68. PN:--. Prov.: SW.

Description: Full groove; fragmentary.

UU: 1207. UMP: 29-44-20. PN:--. Prov.: SW.



Description: Length 4 1/2 in.; full groove; single bit.

UU: 1208. UMP: 29-44-22. PN:--.

Fig. 108. Ground stone ax (UU:1207). Prov.: SW.

Description: Length 6 1/2 in.; full groove; single bit.

UU: 1209. UMP: 29-44-19. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; single bit.

UU: 1210. UMP: 29-44-25. PN:--. Prov.: SW.

Description: Length 4 3/4 in.; full groove; single bit.

UU: 1211. UMP: 29-44-24. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; full groove; single bit.

UU: 1212. UMP: 29-44-21. PN:--. Prov.: SW.

Description: Length 5 1/2 in.; full groove; single bit.

UU: 1213. UMP: 29-44-17. PN:--. Prov.: Utah (Lake Canyon).

Description: Length 6 1/2 in.; edge notch groove; symmetrical, double bitted.

UU: 1214. UMP: 29-44-14. PN:--. Prov.: SW.

Description: Length 5 1/2 in.; edge notch groove; incomplete; intact bit serrated; black stone.

UU: 1215. UMP: 29-44-23. PN:--. Prov.: SW.

Description: Length 5 1/2 in.; edge notch groove; incomplete; single bit.

UU: 1216. UMP: 29-44-72. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; single bit.

UU: 1217. UMP: 29-44-80. PN:--. Prov.: SW.

Description: Length 6 1/2 in.; full groove; single bit.

UU: 1218. UMP: 29-44-74. PN:--. Prov.: SW.

Description: Length 6 1/2 in.; full groove; single bit.

UU: 1219. UMP: 29-44-70. PN:--. Prov.: SW.

Description: Length 5 1/2 in.; full groove; single bit.

UU: 1220. UMP: 29-44-69. PN:--. Prov.: SW.

Description: Length 4 in.; full groove; single bit.

UU: 1221. UMP: 29-44-78. PN:--. Prov.: SW.

Description: Length 7 1/2 in.; full groove; single bit.

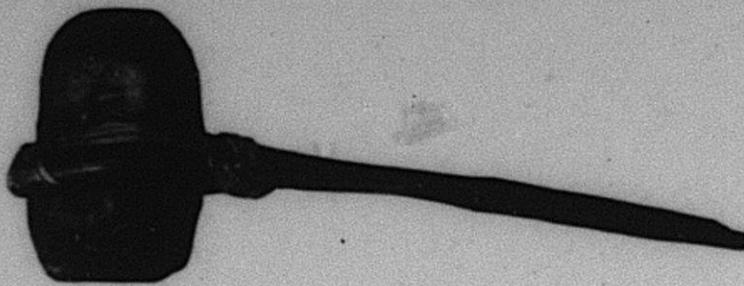
UU: 1222. UMP: 29-44-75. PN:--. Prov.: SW.

Description: Length 8 in.; full groove; single bit.

UU: 1223. UMP: 29-44-73. PN:--. Prov.: SW.

Description: Length 7 3/4 in.; full groove; single bit.

UU: 1224. UMP: 29-44-61. PN:--. Prov.: SW.



Description: Length

5 in.; full groove;

single bit; 10 in.

twig handle, double

wrapped, tied to

itself.

Fig. 109. Hafted ground stone ax (UU:1224).

UU: 1225. UMP: 29-44-60. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; full groove; single bit; fragmentary twig handle.

single wrapped, tied to itself.

UU: 1226. UMP: 29-44-26. PN:--. Prov.: SW.

Description: Length 4 3/4 in.; full groove; single bit.

UU: 1227. UMP: 29-44-28. PN:--. Prov.: SW.

Description: Length 4 3/4 in.; full groove; single bit.

UU: 1228. UMP: 29-44-30. PN:--. Prov.: SW.

Description: Length 6 in.; edge groove; single bit; polished black slate.

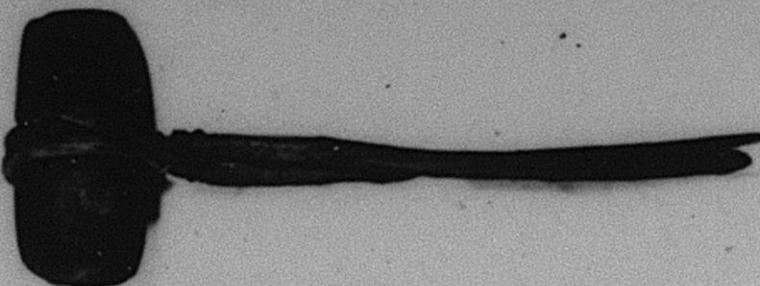
UU: 1229. UMP: 29-44-32. PN:--. Prov.: Utah (Lake Canyon).

Description: Length 6 1/2 in.; full groove; single bit.

UU: 1230. UMP: 29-44-31. PN:--. Prov.: SW.

Description: Length 6 3/4 in.; edge notch; single bit.

UU: 1231. UMP: 29-44-712. PN:--. Prov.: SW.



Description: Length 5 1/4 in.; full groove; double bitted; 12 in. twig handle double wrapped.

Fig. 110. Hafted ground stone ax (UU:1231).

UU: 1232. UMP: 29-44-37. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Length 3 1/2 in.; edge notch groove; double bitted; 12 in. twig handle, double wrapped.

UU: 1233. UMP: 29-44-424.. PN:--. Prov.: SW.

Description: Length 4 1/4 in.; full groove; single bit.

UU: 1234. UMP: 29-44-416. PN:--. Prov.: SW.

Description: Length 8 in.; full groove; single bit.

UU: 1235. UMP: 29-44-423. PN:--. Prov.: SW.

Description: Length 4 1/4 in.; full groove; single bit.

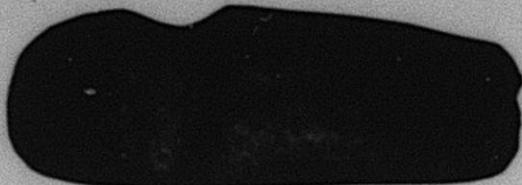
UU: 1236. UMP: 29-44-422. PN:--. Prov.: SW.

Description: Length 4 1/2 in.; full groove; single bit.

UU: 1237. UMP: 29-44-414. PN:--. Prov.: SW.

Description: Length 2 3/4 in.; edge notch groove; single bit.

UU: 1238. UMP: 29-44-419. PN:--. Prov.: SW.



Description: Length 7 1/2
in.; 3/4 groove; single bit;
flat underside.

Fig. 111. Ground stone ax (UU:1238).

UU: 1239. UMP: 29-44-417. PN:--. Prov.: SW.

Description: Length 4 in.; 3/4 groove; incomplete; flat underside.

UU: 1240. UMP: 29-44-418. PN:--. Prov.: SW.

Description: Length 3 1/4 in.; 3/4 groove; single bit; flat underside.

UU: 1241. UMP: 29-44-415. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; edge notch groove; double bit; serrated
blades.

UU: 1242. UMP: 29-44-151. PN:--. Prov.: SW.

Description: Length 4 3/4 in.; edge notch groove; single bit.

UU: 1243. UMP: 29-44-135. PN:--. Prov.: SW.

Description: Length 4 1/4 in.; full groove; single bit.

UU: 1244. UMP: 29-44-149. PN:--. Prov.: SW.

Description: Length 3 in.; full groove; single bit.

UU: 1245. UMP: 29-44-133. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; 3/4 groove; single bit.

UU: 1246. UMP: 29-44-160. PN:--. Prov.: SW.

Description: Length 6 1/4 in.; full groove; single bit.

UU: 1247. UMP: 29-44-152. PN:--. Prov.: SW.

Description: Length 6 1/4 in.; full groove; single bit.

UU: 1248. UMP: 29-44-155. PN:--. Prov.: SW.

Description: Length 6 in.; edge notch groove; single bit.

UU: 1249. UMP: 29-44-136. PN:--. Prov.: SW.

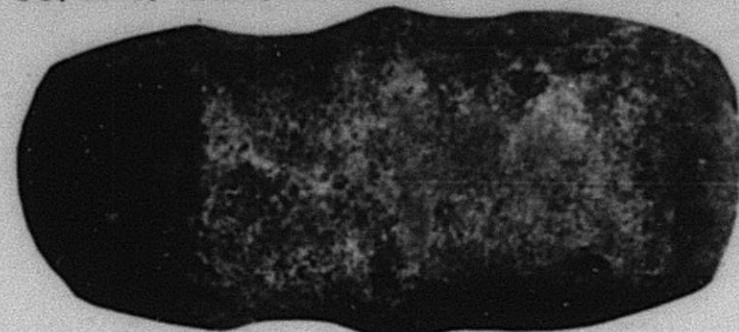


Fig. 112. Double full groove ax (UU:1249).

Description: Length 6 1/2 in.; double bitted; double full grooved.

UU: 1250. UMP: 29-44-159.

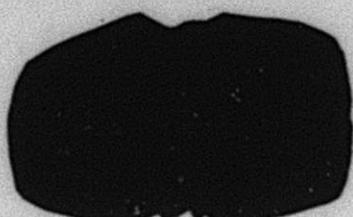
PN:--. Prov.: SW.

Description: Length 3 3/4 in.; edge notch groove; single bit.

UU: 1251. UMP: 29-44-140. PN:--. Prov.: SW.

Description: Length 5 in.; edge notch groove; double bitted.

Fig. 113. Edge-notched ax, portion of hafting material remaining (UU:1251).



UU: 1252. UMP: 29-44-139. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; double bitted.

UU: 1253. UMP: 29-44-137. PN:--. Prov.: SW.

Description: Length 4 in.; full groove; double bitted.

UU: 1254. UMP: 29-44-147. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; full groove; single bit.

UU: 1255. UMP: 29-44-146. PN:--. Prov.: SW.

Description: Edge notch groove; single bit.

UU: 1256. UMP: 29-44-148. PN:--. Prov.: SW.

Description: Length 3 in.; full groove; single bit.

UU: 1257. UMP: 29-44-159. PN:--. Prov.: SW.

Description: Length 5 in.; edge notch groove; single bit.

UU: 1258. UMP: 29-44-157. PN:--. Prov.: SW.

Description: Length 3 1/4 in.; edge notch groove; single bit.

UU: 1259. UMP: 29-44-143. PN:--. Prov.: SW.

Description: Single bit.

UU: 1260. UMP: 29-44-145. PN:--. Prov.: SW.

Description: Length 4 in.; full groove.

UU: 1261. UMP: 29-44-156. PN:--. Prov.: SW.

Description: Length 7 1/2 in.; edge notch groove; double bitted.

UU: 1262. UMP: 29-44-153. PN:--. Prov.: SW.

Description: Length 4 in.; full groove; single bit.

UU: 1263. UMP: 29-44-168. PN:--. Prov.: SW.

Description: Length 2 3/4 in.; edge notch groove; single bit.

UU: 1264. UMP: 29-44-144. PN:--. Prov.: SW.

Description: Length 4 1/4 in.; edge notch groove; single bit.

UU: 1265. UMP: 29-44-141. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; full groove; double bitted; twig handle
double-looped for hafting.

UU: 1266. UMP: 29-44-154. PN:--. Prov.: SW.

Description: Length 5 in.; edge notch groove; single bit.

UU: 1267. UMP: 29-44-142. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; 3/4 groove; single bit; flat underside.

UU: 1268. UMP: 29-44-163. PN:--. Prov.: SW.

Description: Length 9 1/4 in.; edge notch groove; single bit.

UU: 1269. UMP: 29-44-200. PN:--. Prov.: SW.

Description: Length 5 in.; edge notch groove; single bit.

UU: 1270. UMP: 29-44-47. PN:--. Prov.: Utah.

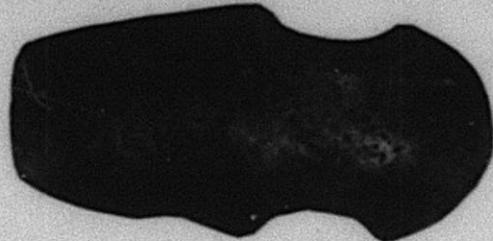


Fig. 114. Ground stone ax
(UU:1270).

Description: Length 5 in.; edge notch groove;
single bit.

UU: 1271. UMP: 29-44-42. PN:--. Prov.:
Utah (Lost Canyon).

Description: Length 4 1/2 in.; edge notch groove; single bit.

UU: 1272. UMP: 29-44-53. PN: C-32. Prov.: Utah (Lost Canyon).

Description: Length 5 1/4 in.; edge notch groove; single bit.

UU: 1273. UMP: 29-44-482. PN:--. Prov.: SW.

Description: Length 7 1/4 in.; full groove; single bit.

UU: 1274. UMP: 29-44-81. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; full groove; single bit.

UU: 1275. UMP: 29-44-94. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; single bit.

UU: 1276. UMP: 29-44-88. PN:--. Prov.: SW.

Description: Length 5 1/2 in.; full groove; single bit.

UU: 1277. UMP: 29-44-92. PN:--. Prov.: SW.

Description: Length 4 1/4 in.; full groove; single bit.

UU: 1278. UMP: 29-44-83. PN:--. Prov.: SW.

Description: Length 6 1/4 in.; full groove; single bit.

UU: 1279. UMP: 29-44-87. PN:--. Prov.: SW.

Description: Length 6 in.; double full groove; single bit.

UU: 1280. UMP: 29-44-86. PN:--. Prov.: SW.

Description: Length 4 3/4 in.; double full groove; single bit.

UU: 1281. UMP: 29-44-98. PN:--. Prov.: SW.

Description: Length 5 1/4 in.; full groove; single bit.

UU: 1282. UMP: 29-44-95. PN:--. Prov.: SW.

Description: Length 4 in.; full groove; single bit.

UU: 1283. UMP: 29-44-96. PN:--. Prov.: SW.

Description: Length 9 1/2 in.; full groove; single bit.

UU: 1284. UMP: 29-44-97. PN:--. Prov.: SW.

Description: Length 3 1/2 in.; full groove; single bit.

UU: 1285. UMP: 29-44-85. PN:--. Prov.: SW.

Description: Length 4 1/2 in.; full groove; single bit.

UU: 1286. UMP: 29-44-90. PN:--. Prov.: SW.

Description: Length 4 in.; full groove; single bit.

UU: 1287. UMP: 29-44-84. PN:--. Prov.: SW.

Description: Length 7 in.; full groove; single bit.

UU: 1288. UMP: 29-44-120. PN:--. Prov.: SW.

Description: Length 6 in.; full groove; single bit.

UU: 1289. UMP: 29-44-116. PN:--. Prov.: SW.

Description: Length 3 3/4 in.; full groove; single bit.

UU: 1290. UMP:--. PN:--. Prov.: SW.

Description: Length 6 in.; edge notch groove; single bit.

UU: 1291. UMP: 29-44-115. PN:--. Prov.: SW.

Description: Length 6 1/4 in.; edge notch groove; single bit.

UU: 1292. UMP: 29-44-125. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; full groove; single bit.

UU: 1293. UMP: 29-44-119. PN:--. Prov.: SW.

Description: Length 4 1/2 in.; full groove; single bit.

UU: 1294. UMP: 29-44-130. PN:--. Prov.: SW.

Description: Length 6 3/4 in.; full groove; single bit.

UU: 1295. UMP: 29-44-129. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; full groove; single bit.

UU: 1296. UMP: 29-44-123. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; edge notch groove; single bit.

UU: 1297. UMP: 29-44-121. PN:--. Prov.: SW.

Description: Length 4 3/4 in.; edge notch groove; single bit.

UU: 1298. UMP: 29-44-127. PN:--. Prov.: SW.

Description: Length 8 in.; edge notch groove; single bit.

UU: 1299. UMP: 29-44-128. PN:--. Prov.: SW.

Description: Length 6 1/2 in.; full groove; single bit.

UU: 1300. UMP: 29-44-124. PN:--. Prov.: SW.

Description: Length 6 1/4 in.; edge notch groove; single bit.

UU: 1301. UMP: 29-44-117. PN:--. Prov.: SW.

Description: Length 4 3/4 in.; edge notch groove; single bit.

UU: 1302. UMP: 29-44-118. PN:--. Prov.: SW.

Description: Full groove; single bit.

UU: 1303. UMP: 29-44-113. PN:--. Prov.: SW.

Description: Length 5 in.; edge notch groove; single bit.

UU: 1304. UMP: 29-44-112. PN:--. Prov.: SW.

Description: Length 5 3/4 in.; edge notch groove; single bit.

UU: 1305. UMP: 29-44-109. PN:--. Prov.: Not indicated.

Description: Length 7 in.; edge notch groove; single bit.

UU: 1306. UMP: 29-44-99. PN:--. Prov.: SW.

Description: Length 4 in.; full groove; single bit.

UU: 1307. UMP: 29-44-108. PN:--. Prov.: SW.

Description: Length 4 in.; edge notch groove; single bit.

UU: 1308. UMP: 29-44-98. PN:--. Prov.: SW.

Description: Length 3 1/2 in.; full groove; single bit.

UU: 1309. UMP: 29-44-105. PN:--. Prov.: SW.

Description: Length 6 1/4 in.; edge notch groove; single bit.

UU: 1310. UMP: 29-44-106. PN:--. Prov.: SW.

Description: Length 6 in.; full groove; single bit.

UU: 1311. UMP: 29-44-114. PN:--. Prov.: SW.

Description: Length 5 1/4 in.; edge notch groove; single bit.

UU: 1312. UMP: 29-44-110. PN:--. Prov.: SW.

Description: Length 6 1/4 in.; edge notch groove; single bit.

UU: 1313. UMP: 29-44-102. PN:--. Prov.: SW.

Description: Length 3 1/4 in.; full groove; single bit.

UU: 1314. UMP: 29-44-104. PN:--. Prov.: SW.

Description: Length 4 1/4 in.; full groove; single bit; twig handle 13 in. long.
double wrapped.

UU: 1315. UMP: 29-44-103. PN:--. Prov.: SW.



Fig. 115. Hafted ground stone
ax (UU:1315).

Description: Length 4 1/2 in.; edge
notch groove; single bit; twig handle,
single wrapped. (MVNP).

UU: 1316. UMP: 29-44-62(?). PN:--.

Prov.: SW.

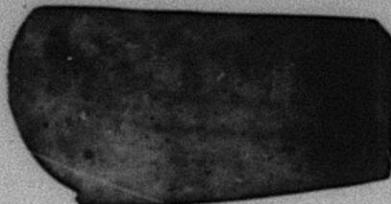
Description: Length 5 in.; full groove;
single bit.

UU: 1317. UMP: 29-44-63. PN:--. Prov.: SW.

Description: Length 5 in.; full groove; single bit; twig handle 13 in. long.
double wrapped.

Sandal Lasts

UU: 1115. UMP: 29-42-745. PN:--. Prov.: Colorado (Navajo Canyon).



Description: Sandal last. Tan sandstone; length 10 1/2 in.; width at jog toe 5 3/8 in.; width at heel 4 1/4 in.

Fig. 116. Sandstone jog-toe sandal last (UU:1115).

UU: 1116. UMP: 29-42-750. PN: G-7.

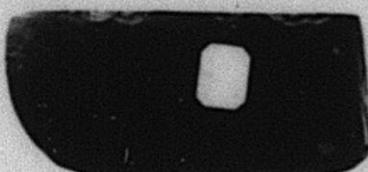
Prov.: Colorado ('3rd left hand fork of Johnson Canyon').

Description: Sandal last. Length 13 in.; width at jog toe 6 in.; width at heel 5 in.

UU: 1117. UMP: 29-42-744. PN:--. Prov.: Colorado.

Description: Sandal last. Black (slate?). Length 10 1/2 in.; width at jog toe 5 3/4 in.; width at heel 5 in.

UU: 1118. UMP: 29-42-751. PN: G-7. Prov.: Colorado (Navajo Canyon).



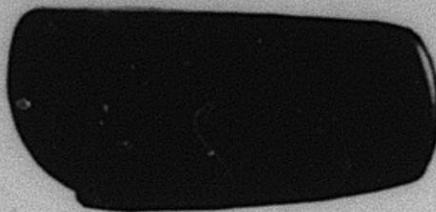
Description: Sandal last. Black (slate?); no jog; length 9 3/4 in.; width 4 3/4 in.

Fig. 117. Black slate sandal last (UU:1118).

UU: 1119. UMP: 29-42-749. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Broken sandal last. Length (incomplete) 7 in.; width 5 1/2 in.

UU: 1120. UMP: 29-42-752. PN: G-7. Prov.: Colorado (Navajo Canyon).



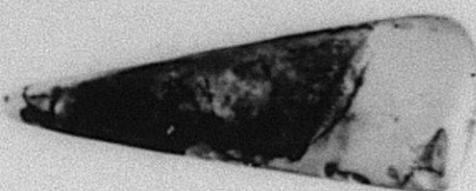
Description: Sandal last.

Polished slate (?); rounded heel; length 12 in.; width at jog toe $5\frac{3}{4}$ in.; width at

Fig. 118. Polished slate jog-toe sandal last (UU:1120). heel $4\frac{3}{4}$ in.

Tcamahias

UU: 1126. UMP: 29-44-10. PN: C-36. Prov.: Utah (Colorado River).



Description: Tcamahia. Tan; length $8\frac{3}{4}$ in.; rounded blade $3\frac{1}{2}$ in. wide; pointed base.

Fig. 119. Tan tcamahia (UU:1126).



Fig. 120. Black slate tcamahia (UU:1127).

UU: 1127. UMP: 29-44-16. PN: G-6.

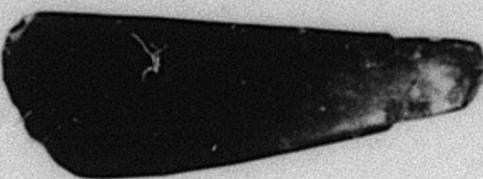
Prov.: Colorado (Navajo Canyon).

Description: Tcamahia. Black slate (?); length 9 in.; blade width 3 in.; rounded base and blade.

UU: 1128. UMP: 29-44-13. PN:--. Prov.: SW.

Description: Tcamahia. Tan; length $13\frac{1}{2}$ in.; blade width $3\frac{3}{4}$ in.; pointed base. Broken blade, chipping marks along edges, otherwise smooth.

UU: 1129. UMP: 29-44-15. PN: G-6. Prov.: Colorado (Navajo Canyon).



Description: Tcamahia.

Black slate; length 11 in.;
diagonal blade, width
3 3/4 in.; shouldered (1/8
in. inset) for hafting.

Fig. 121. Black slate tcamahia, shouldered
for hafting (UU:1129).

UU: 1130. UMP: 29-42-731. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Black tcamahia fragment.

UU: 1131. UMP: 29-42-737. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Red tcamahia fragment.

UU: 1132. UMP: 29-42-738. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Gray tcamahia fragment.

UU: 1133. UMP: 29-42-730. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Tan tcamahia fragment.

Sandstone Pot Lids (?)

UU: 1121. UMP: 29-42-740. PN:--. Prov.: Utah (ruin on Colorado River).

Description: Pot lid (?). Flat sandstone disc, dia. 3 1/2 in.

UU: 1122, a-d. UMP: 29-42-741, 868, 869, 870. PN:--. Prov.: Utah
(ruin on Colorado River).

Description: Pot lids (?). Flat sandstone discs, 3 3/4 in., 3 1/2 in., 3 7/8 in., 5 in. in dia., respectively.

UU: 1123. UMP: 29-42-754. PN:--. Prov.: Colorado.

Description: Irregular, flat sandstone object 1/4 in. thick; 8 in. and 6 in. in dia.; two perforations at edge. Possibly pot lid.

Incised Stone Tablets

UU: 1124. UMP: 29-42-746. PN: C-61. Prov.: Utah (Lake Canyon).



Fig. 122. Small stone tablet with petro-glyph incisions (UU:1124).

Description: Thin rectangular stone tablet with geometric and anthropomorphic petroglyphs;

5 1/2 x 4 3/4 x 1/4 in.

UU: 1125. UMP: 29-42-748.

PN:--. Prov.: Utah (ruin on Colorado River).

Description: Thin rectangular stone tablet with geometric and

anthropomorphic petroglyphs; micaceous shale; 12 x 11 x 1/4 in.

Stone and Composite Pipes

UU: 753. UMP: 29-42-867. PN: L-8. Prov.: Utah (Deep Canyon).



Description: Tubular polished slate (?) pipe.

Slight expansion at center; length 3 1/4 in.; center dia. 1 in.

Fig. 123. Polished slate (?) tubular pipe (UU:753).

UU: 754. UMP: 29-42-786. PN:--. Prov.: Utah (Red Canyon).

Description: Composite pipe. Wood bowl 1 1/4 in. dia. at top; 2 1/2 in. base; 1 1/2 in. deep. Bowl contains tobacco crust. Ground stone, tubular mouth piece 5/8 in. dia., 1 3/4 in. long, inserted in base of bowl.

UU: 755. UMP: 29-42-785. PN: L-29. Prov.: Utah (Colorado River Canyon; found buried with Basketmaker woman).

Description: Composite pipe. Ground stone bowl approx. 1 in. dia.; tubular bone mouthpiece inserted in bowl base. Bowl approx. 2 in. deep; mouthpiece approx. 2 in. long.

UU: 1134. UMP: 29-44-568. PN:--. Prov.: SW.

Description: Cylindrical pipe fragment with conically hollowed bowl, made from porous volcanic rock. Length 2 1/4 in.; dia. at top of bowl 1 in.

UU: 1135. UMP: 29-44-572. PN:--. Prov.: SW.

Description: Cylindrical pipe fragment with tubular bowl perforation. Length 1 1/2 in.; dia. at top of bowl 1 in.

Mortars and Bowls

UU: 1141. UMP: 29-44-427. PN:--. Prov.: SW.

Description: Mortar. Small rectangular mortar of porous volcanic stone.

3 x 2 3/4 x 1 1/4 in. overall; bin 2 1/4 x 2 1/2 x 1 in.

UU: 1141, a. UMP: 29-44-234. PN:--. Prov.: SW.

Description: Flat-based porphyritic stone bowl. Depth 1 1/4 in.; dia. 3 1/2 in.



Fig. 124. Double-bin paint mortar (UU:1142).

2 1/2 in. One basin is stained black, the other red.

UU: 1148. UMP: 29-44-224. PN:--. Prov.: Colorado.

Description: Small mortar in rectangular slab (max. mortar dia. 4 in.).

UU: 1156. UMP: 29-42-856. PN:--. Prov.: Utah (Red Canyon).

Description: Small paint mortar made from concretion. Rim dia. 2 1/2 in.; red-stained interior.

Polishing Stones

UU: 1137, a-c. UMP: 29-44-553, 551, 552. PN:--. Prov.: SW.

Description: Elongated polishers, pebbles smoothed from use. 2 1/2 to 3 1/2 in. long; dia. 3/4 in.

UU: 1153, a, b. UMP: 29-44-41, 46. PN:--. Prov.: SW.

Description: Elongated smoothed pebbles. Lengths 5 in., 5 1/2 in.

UU: 1155. UMP: 29-44-45. PN: C-8. Prov.: Utah (Red Canyon).

Description: Flat porphyritic river pebble polisher. Length 5 1/2 in.; width 2 1/4 in.; thickness 3/8 in.

UU: 1158, a, b. UMP: 29-42-733, 735. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Elongate river pebble polishers.

Paint Clays (?)

UU: 759, a-d. UMP: 29-42-858, 860, 859, 850. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Green paint clay, yellow paint clay, tan paint clay (?), and gray paint clay (?), respectively.

Hematite, Quartz Crystals, and Concretions

UU: 1138. UMP: 29-44-557. PN:--. Prov.: SW.

Description: Columnar quartz crystal. Flat, rounded-smoothed ends; length 1 1/2 in.; dia. 5/8 in.

UU: 1139, a-c. UMP: 29-44-555, 556, 554. PN:--. Prov.: SW.

Description: Cylindrical hematite objects. Length 2-2 1/2 in.; dia. 5/8 in.; flat ends; smoothed.

UU: 1140, a-m. UMP: 29-44-571, 569, 559, 563, 564, 560, 561, 562, 541, 542, 572, 545, 540. PN:--. Prov.: SW.

Description: Smoothed stones, crystals, concretions. Irregular shapes.

UU: 1159, a-f. UMP: 29-42-793, 794, 795, 796, 797, 798. PN:--. Prov.: Utah (Colorado River Canyon).

Description: Small cylindrical hematite objects with flat ends. Each is less than 3 in. in length, 3/4 in. in dia.

Miscellaneous Ground Stone

UU: 1136. UMP: 29-44-566. PN:--. Prov.: SW.

Description: Globular volcanic rock, truncated ends, perforated. Dia. 2 in.

UU: 1143. UMP: 29-44-33. PN: C-6. Prov.: Utah (Lost Canyon).

Description: Turtle-shaped stone. 3 x 1 1/4 in. dia.; height 1 in.
possibly an atlatl weight.

UU: 1144. UMP: 29-44-39. PN:--. Prov.: Colorado (Navajo Canyon).

Description: Large sandstone block (9 x 5 x 3 1/2 in.) with parallel
grooves 9 in. long, 1/2 in. deep; probably for sharpening bone implements.

UU: 1146. UMP: 29-44-190. PN:--. Prov.: SW.

Description: Elongated ovoid rock. Length 6 1/2 in.; dia. 1 1/4 in.; use
unknown.

UU: 1149. UMP: 29-44-377. PN:--. Prov.: SW.

Description: Oval vesicular volcanic stone; conical holes drilled in end.

UU: 1154. UMP: 29-44-54. PN:--. Prov.: Utah (Lake Canyon).

Description: Flat sandstone slab. 17 x 7 x 1 1/4 in.; straight parallel
sides; irregular ends; ripple-marked surface.

UU: 1157. UMP: 29-42-739. PN:--. Prov.: Utah (Red Canyon).

Description: Flat, diamond-shaped sandstone object; each linear side 5 1/2
in.

CHIPPED STONE

Points

Class I. Small triangular corner-notched points, with expanding straight-based stems narrower than the blade. These are finely retouched on both faces and have thinned bases. UU: 1406-1523. UMP (listed by provenience):

Colorado River 29-42-302, 4; 21, 3 4 5; 32, 4 7; 43, 5, 8; 50, 1, 2, 5,
7, 8, 9; 62, 3, 4, 5, 8; 71; 83, 4, 7; 97, 8, 9.
29-42-400, 1, 2; 26; 36; 44, 5, 6, 8; 52; 64, 5, 6, 7, 8;
73, 5, 7; 83, 7, 9.

29-42-513, 14, 15, 19; 27, 8; 30, 2, 3, 6, 7, 8, 9; 43, 4,
8; 60, 1, 5, 9; 72, 6; 81, 4; 91.

29-42-606, 8; 12, 16, 19; 21; 32; 58.

29-43-369.

29-43-821.

29-44-345.

29-44-576; 94, 8.

29-44-600, 3, 5; 16, 17, 18; 20, 9; 35, 6; 41, 4, 5; 51, 3;
63; 79; 85; 91, 4, 5.

Red Canyon 29-42-311.

Lake Canyon 29-42-307, 8.

Class II. Medium-sized points with triangular or leaf-shaped blades, diagonal notches, and expanding stems with straight or slightly convex bases.

UU: 1524-1540. UMP:

Southwest 29-42-484; 689.
 29-44-308; 579; 81, 2; 91, 6; 601, 4; 42; 55;
 73; 81, 3, 7; 90.

Class III. Small triangular points with straight or convex sides, side notches, and stem equal to or wider than the blade. These are bifacially worked in fine flaking and have thinned bases. UU: 1541-1561. UMP:

Colorado River 29-42-296; 328; 49; 53; 419; 33; 53, 4; 69;
 517; 35; 68; 71; 82, 3; 627.
 29-44-633, 4; 40, 8; 59.

Class IV. Miniature side-notched triangular points with concave base and small basal notch. These thin delicately made points are finely flaked on both sides and are basally thinned. UU: 1562-1564. UMP:

Colorado River 29-42-459.
 29-43-820.
 29-44-585.

Class V. Small to medium triangular points with deep diagonal side notches and diagonal spurs slightly narrower than the blade. The base of these finely flaked points is concave and sharply beveled. They show pressure flaking on both sides. UU: 1565-1577. UMP:

Colorado River 29-42-295; 343; 471; 556; 87.

29-43-818.

29-44-592; 646; 54; 66; 74, 5; 86.

Fragments and Uniques. UU: 1578-1706. UMP:

Southwest 29-43-305; 13 (86C)*; 46; 61; 74; 86; 95.

29-43-417; 41; 51, 5, 6, 8; 62; 70; 88; 90, 1.

29-43-509 (U); 21, 2, 6, 9; 31; 42, 5; 50, 4, 7, 8; 66;
74, 5, 6, 7; 89; 90, 2.

29-43-611, 14, 15, 19; 23, 5, 7; 37, 8, 9; 40, 1, 2, 3, 5,
6, 8; 52, 3, 6, 9; 62.

29-44-335, 7, 8, 9; 40, 1, 5, 7; 86, 7; 90, 5, 7, 9.

29-44-602, 6, 7, 8; 10, 11, 12, 13, 14, 15, 19; 24, 5; 30,
1, 2, 7; 43, 9; 50, 6, 7, 8; 61, 4, 5, 8; 70, 7; 80, 2,
9; 92, 3, 6, 7, 8.

29-44-817, 19.

Red Canyon 29-42-300; 478; 605.

Colorado River 29-42-322; 54.

*Original collector's catalog number.

Unique B. Small triangular side-notched concave-based points. UU: 1698-1755. UMP:

Utah 29-42-326, 7, 8, 9; 30, 3, 5, 6, 8; 40, 1, 2, 4; 51; 82,
5, 6, 8.
29-42-403, 4, 5, 6, 7, 9; 10, 11, 12, 13, 14, 16; 20, 2, 3,
4, 5; 49; 50; 60, 1; 98.
29-42-559; 64; 73, 9; 85; 93.
29-43-492, 3, 4, 5.
29-44-609; 21, 7; 60, 2; 71, 2; 84.

Blades

Class I. Small narrow triangular blades with concave bases. All are finely flaked on both faces and have thinned bases. UU: 1756-1761. UMP:

Colorado River 29-42-391, 2, 3, 5; 563; 626.

Class II. Miniature triangular blades with straight or slightly convex sides and straight bases. All have beveled or thinned bases. Most are made from flakes only slightly retouched on inner face. UU: 1762-1794. UMP:

Colorado River 29-42-312 (86C); 72, 3, 5, 6, 7, 8, 9; 80; 450; 97,
8, 9; 501, 4; 62; 70; 622, 8; 34, 5; 44; 51, 2, 5;
78.

Lake Canyon 29-42-299; 303 (73C); 669.

Class VIII. Medium-sized leaf-shaped finely flaked blades with rounded bases. There is a variation from controlled parallel flaking to crude irregular flaking. UU: 1795-1814. UMP:

Southwest 29-44-623; 38, 9; 47; 88.

Colorado River 29-42-318; 42; 505, 7, 8; 11; 49; 88; 92, 6;
613; 57; 60.

Lake Canyon 29-42-293 (64C); 316.

Class XI. Small to medium concave-based leaf-shaped blades, with uneven worked edges; thick and roughly flaked on both sides. UU: 1815-1816. UMP:

Colorado River 29-42-510; 661.

Class XII. Small to medium blades that are generally leaf-shaped with straight or slightly concave bases. Some fine flaking, but not well finished; crude asymmetrical appearance. UU: 1817. UMP:

Colorado River 29-42-506.

Uniques and Fragments. UU: 1821-1830. UMP:

Colorado River 29-42-381; 503, 72(U); 623, 4; 31, 6; 49.

Lake Canyon 29-42-306, 7.

260.

Knives

Lanceolates. Range in size: length 2 3/4 - 4 1/2 in.; width 1 1/4 - 2 in.

UU: 1818-1820. UMP:

Southwest

29-44-480; 588, 9.

CERAMICS

UU: 833. UMP: 29-44-528. PN:--. Prov.: SW.

Description: Ceramic pendant. Teardrop shaped; length 2 1/2 in.; 4 perforations spaced along edge.

UU: 1811. UMP: 29-44-300. PN:--. Prov.: Colorado.

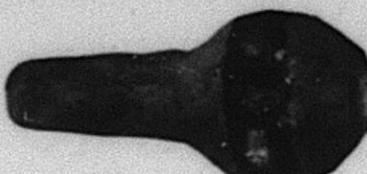

Description: Ceramic rattle. Gourd shaped; length 2 1/8 in.; dia. 1/8 in. Decoration: orange with brown band.

Fig. 125. Gourd-shaped ceramic rattle (UU:1811).

UU: 1812. UMP: 29-44-302. PN:--. Prov.: N.E. Arizona.



Description: Ceramic "thunderbird." Length 1 7/8 in.; profile thickness 1/2 in. Decoration: black-on-white design on back.

UU: 1813. UMP: 29-44-534. PN:--. Prov.: SW.

Description: Miniature bowl, undecorated.

Fig. 126. Ceramic "thunderbird" (UU:1812). Max. dia. 1 1/2 in.; depth 1 1/2 in.

UU: 1814. UMP: 29-44-547. PN:--. Prov.: SW.

Description: Miniature dipper, broken handle. Rim dia. 2 in.; depth 3/4 in. Interior black-on-white design; crushed rock and clay temper.

UU: 1815. UMP: 29-44-549. PN:--. Prov.: SW.

Description: Miniature dipper. Rim dia. 1 in.; depth 3/4 in. Black-on-white line motif.

UU: 1816. UMP: 29-44-548. PN:--. Prov.: SW.

Description: Miniature dipper. Rim dia. 1 in.; depth 3/8 in. Black-on-white design.

UU: 1817. UMP: 29-44-702. PN:--. Prov.: SW.

Description: Miniature bowl. Rim dia. 3 in.; depth 1 1/4 in.; no decoration.

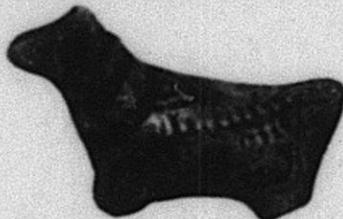
UU: 1818. UMP: 29-44-538. PN:--. Prov.: SW.

Description: Miniature bowl. Rim dia. 1 3/4 in.; depth 3/4 in.; sand temper; no decoration.

UU: 1819. UMP: 29-44-536. PN:--. Prov.: SW.

Description: Miniature olla. Max. dia. 2 in. Handle remnant; sand/crushed rock temper.

UU: 1820. UMP: 29-44-522. PN:--. Prov.: SW.

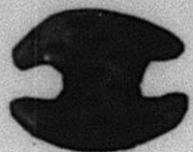


Description: Mountain sheep or dog effigy. Length 2 in.; height 1 in.

Decoration: line design; reddish-brown-on-white.

Fig. 127. Mountain sheep or dog effigy (UU:1820).

UU: 1821. UMP: 29-44-521. PN:--. Prov.: SW.



Description: Flat oval object with deep indentations at ends. Length 1 1/4 in.; width 1 1/2 in. Decoration: black spots on orange.

Fig. 128. Ceramic object (UU:1821).

UU: 1822. UMP: 29-44-531. PN:--. Prov.: SW.

Description: Miniature black-on-white bowl. Rim dia. 1 7/8 in.; depth 1 in.

UU: 1823. UMP: 29-44-532. PN:--. Prov.: SW.

Description: Miniature bowl. Rim dia. 1 1/8 in.; depth 1 in. Undecorated.

UU: 1824. UMP: 29-44-533. PN:--. Prov.: SW.

Description: Miniature Mesa Verde White Ware bowl. Oval with thick everted rim. Max. rim dia. 2 in.; depth 1 in.

UU: 1825. UMP: 29-44-539. PN:--. Prov.: SW.

Description: Miniature cup. Rim dia. 1 in.; depth 1 in.; extremely crude.

UU: 1826, a-b. UMP: 29-44-298, 299. PN:--. Prov.: Colorado.

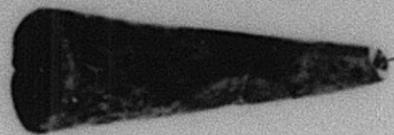
UU: 1826, c-d. UMP: 29-44-524, 516. PN:--. Prov.: SW.

Description: Perforated discs (spindle whorls). Dias. 1 1/2 to 2 3/4 in.

UU: 1827, a-f. UMP: 29-44-356, 355, 526, 529, 527, 525. PN:--. Prov.: SW.

Description: Pottery disc pot scrapers. Dia. approx. 1 in.

UU: 752. UMP: 29-42-848. PN: H-10?. Prov.: Utah (Colorado River).



Description: Conical clay pipe. Length 2 1/2
in.; bowl dia. 1/2 in.

Fig. 129. Conical clay pipe
(UU:752).

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Miscellaneous Material Pertaining to Hazzard Collection

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Note: Original spelling and punctuation have been retained in the following entries; [sic] has been used only when serious misunderstanding seemed possible.

In Boxes from #1 to #28

Packed With the Wetherill Collections

This collection was bought by C D Hazzard of C M Veits [sic]
when I was at Cortez & shiped to me with part of Wetherill
Collection shipe at that date.

(signed) C D Hazzard

- | | | | |
|------|-----|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nos. | 1. | Corrugated Jar 5 1/2 in. high.
22.874 | These three pieces [1, 2, 3]
were found 12 m. N. W.
from Cortez, Colo., in
burial mound in front of
skull grouped together
cup on side. |
| | 2. | Painted Cup 3 in. high.
23.057 | |
| | 3. | Bowl. inside painting. broken. | |
| | 4. | Pitcher. 8 1/2 in. high.
23.098 | |
| | 5. | Broken Bowl. | |
| | 6. | Bottom part of pitcher. Broken edges ground down.
(23.088) | |
| | 7. | Cup 4 1/2 in. high. Found in mound 15 m. N. from Cortez
23.047 | |
| | 8. | Bowl. 8 in. diameter | These three pieces [8, 9, 10]
found in grave with skeleton |
| | 9. | Mug 3 in. high
23.029 | 12 miles N. W. from Cortez |
| | 10. | Small Ladle. part of
handle broken off. | |
| | 11. | Perfect Cup 4 1/2 in. high.
23.043 | |

12. Corrugated Jar 5 1/2 in. high. These three pieces [12, 13, 14] were found in burial mound 14 m. N.W. from Cortez
13. Plain, rough Jar. 4 1/2 in. high.
22. 857
14. Painted Pitcher with handle 6 1/4 in high.
15. Double Vase. Found at Juarez Spring N.W. of Cortez in grave
(73. 092) under skeleton.
16. Fine painted mug. 3 1/4 in. high.
(23. 072)
17. Very rough unpainted mug.
29. 083
- No. 18. Mug. 3 3/4 in. high.
19. Pitcher with piece broken out of side.
23. 070
20. Mug with handle gone.
23. 062
21. Bowl. Small piece broken from top.
22. Bowl broken in two pieces.
23. [Small dippers
24.] with handles gone.
25. Dipper and handle (handle broken off) and four or five broken vessels.
26. Box containing 250 Arrow Points. -Also Bone Implements & Trinkets found on Mounds.

The above relics were packed in box and delivered to

Richard Wetherill at Mancos on the 7th of December 1892

Cortez Colo. Dec. 13-1892

(signed) C. M. Viets

THE HAZARD COLLECTION OF CLIFF-DWELLER MATERIAL.

A Selection from the Original Collection
in the University of Pennsylvania.

Basketry.

- 1 "Loosely plied yucca colander used in steaming food."
- 2 "Loosely plied yucca colander used in steaming food."
- 3 "Small yucca colander. Cliff-house in Navajo Canon."
- 4 "Small basket colander. Cliff-house in Navajo Canon."
- 5 "Basket bowl used in food preparation. Cliff-house in Navajo Canon."
- 6 Part of a cylindrical basket. Cliff-house in Navajo Canon. (# 46.)
- 7 "Small basket found in a cliff-house in Colorado River Canon." (#1-D.)
- 8 Rim of yucca colander.
- 9 Small basket colander. (B-39.)
- 10 Flat dish-like basket.
- 11 "Large flat basket with black line around the top. Found in a ruin in Lost Canon." (D-1.)
- 12 "Basket used in serving parched corn and nuts." (# 31-D.)
- 13 "Very large flat basket found in a cliff-house in Deer Canon." (# 8-D.)
- 14 Bundle of split yucca blades for basket work. (# 166-B.)

- 15 Stone hammer. Grooved.
- 16 Stone hammer. Grooved.
- 17 Stone axe. Grooved. Large. Good edge.
- 18 Stone axe. Grooved. Chipped and Ground.
- 19 " " " Pebble "
- 20 Stone axe. Grooved. Pebble. Ground.
- 21 Stone axe. Pebble. Ground. Grooved.
- 22 Stone axe. Grooved. Pebble. Ground.
- 23 Stone axe. Grooved. Pebble. Pecked and ground.
- 24 Stone axe. Grooved. Ground edge.
- 25 Stone axe. Double grooved. Ground edge.
- 26 Stone hammer. Grooved. Pecked and chipped.
- 27 Stone axe. Double edged. Grooved.
- 28 Stone axe. Double grooved. Pebble.
- 29 Stone axe. Grooved. Natural pebble.
- 30 Stone axe. Grooved. Natural pebble. Ground.
- 31 Stone axe. Blunted. Grooved.
- 32 Stone axe. Grooved. Elongated edge. Pecked and ground.
- 33 Stone axe. Grooved. Edge battered.
- 34 Stone hammer. Grooved pebble. Shows use.
- 35 Stone axe. Grooved. Battered edge.
- 36 Stone axe. Grooved. Natural pebble.

- 37 Stone axe. Grooved. Edge battered from use. 272.
- 38 Stone axe. Grooved pebble. Edge ground.
- 39 Stone axe. Grooved. Chipped and ground.
- 40 Stone axe. Grooved. Polished edge.
- 41 Stone axe. Grooved. Hafted. Axe ground. (# 2-C.)
- 42 Stone axe. Grooved. Hafted. Axe chipped and ground.
- 43 Stone axe. Grooved. Hafted. Ground pebble. ✓
- 44 Stone axe. Grooved. Hafted. Pecked and ground.
- 45 Stone axe. Grooved. Hafted. Axe ground.
- 46 Stone axe. Grooved. Hafted. Double edged. Pecked.
- 47 "Manos or Mullers." Sandstone. (8.)
- 48 "Hand chisels for dressing wood and skin. Jasper." (4.)
- 49 "Hand chisels for dressing wood and skin. Slate." (2.)
- 50 "Sandal lasts used in platting," etc. (3.)
- 51 "Grinding and finishing stone used in stone and wood working."
- 52 Stone maul. Rough. Slightly grooved.
- 53 Stone jar covers. (4.)
- 54 "Rasping stone of calcareous sandstone."
- 55 "Sauce mortar."
- 56 "Water or amulet stone. Fetichistic."
- 57 Hammer or pecking stones. (2.)
- 58 "Polishing stone for rough smoothing."
- 59 "Manos or hand mullers." (Minor metates.) (4.)
- 60 "Pottery (Pink stone) and cannel coal mosaic for inlaying on gum of

- 61 Fragments of chalcedony arrow points and knives. (5 packages.)
62 Polishing stone.

Bone Implements.

- 63 "Draw knife."
64 "Tawing and shaving tool for two hand use."
65 "Highly finished sewing and weaving bodkins." (2.)
66 "Gouges and polishers from humeri of deer." (12.) ✓
67 "Plaiting and sewing bodkins made of tibia of deer." (6.)
68 "Plaiting bodkins made from splinters of deer bone." (7.)
69 "Curved bodkins, deer ribs, etc." (10.)
70 "Puncturing and pressing bodkins." (2.)
71 "Bodkin used for puncturing and stretching strands."
72 "Small bodkins of deer bone used in whipping in patterns." (2.)
73 "Highly finished bodkins. Tibia of deer." (4.)
74 "Small carving and finishing tools." (4.)
75 "Draw knife made from deer rib."
76 "Polishing tool made from hoof-core of deer." (# 74-C.)
77 Bones of deer. (6.)
78 "Fibre strippers of deer ribs." (2.) (1 - # 19-G.)
79 "Bone whistle used as deer or turkey calls." (# 22-G.)
80 "Small bone bodkins or awls." (7.) (1 - # 83-G.)
81 "Necklace rattles made from turkey and other bone shafts." (12.)

- 82 "Loose bones from necklaces." (14.) (1 - # 40-G.) 274.
- 83 "Amulet rattle of cone scales [?] and canon walnuts."
- 84 "Bodkins made of leg and wing bones of turkey." (34.) (1 - # 76-G.)
- 85 "Finishing and polishing tools of horn and bone." (3.) (1 - # 13-G.)
- 86 "Molar tooth of mountain sheep." (15-G.)
- 87 "Tawing and scraping chisels of horn." (3.) (98 - 100 - 102 - G.)
- 88 "Horn of mountain sheep softened by fire."
- 89 "Lizard." (88-L. Should be 89.)
- 90 Bone bead. (46-G.)
- 91 Bone awl. (71-G.)
- 92 Bone awl. (1-8.)
- 93 Bone implements. (8.) (1 - [?] - 6.)
- 94 Bone bodkins. (8.)
- 95 Bone awl.
- 96 Bone implements. (2.)

Weapons

- 97 Handle end of atlaxi. (124 - [?].)
- 98 Foreshaft of arrow. (69-F.)
- 99 "Boy's bird arrow."
- 100 "Simple or self-arrow for hunting."
- 101 Arrow foreshafts. Wood. "Points hardened in fire." (2.)
- 102 "Hunting arrow foreshafts. Broken by use." (4.) (64-F and 26-F.)
- 103 Reed arrows. Wood foreshafts. Stone points. (5.) (4 with points.)

- 104 Sinew-wrapped bow. Feathers under hand wrapping.
- 105 Bow. Wrapped at middle.
- 106 "Bola stone. Pyrite ball." (49-C.)

275.

Miscellaneous

- 107 "Meal whisks used, when worn, as hair brushes." (4.)
- 108 "Hair brushes or combs of grass splints." (2.)
- 109 "Bundle of cedar bark for - - hair dressing of women."
- 110 "Pillow-cases of loose-woven rushes." (2.)
- 111 "Ring used in dart-throwing game." (135-E.)
- 112 "Head-band of youth, made from yucca leaves." ✓
- 113 "Catching-rings used in games of women."
- 114 "Bundle of split yucca leaves." (149-H.)
- 115 "Prayer wands or plume sticks." (2.)
- 116 "Feather dart."
- 117 "Comb or head scratcher."
- 118 "Sticks, probably used in feather knitting." (12.)
- 119 "Pouch of magic medicine." (165-H.)
- 120 "Large oliva shell cord-pendant or button." (2.)
- 121 "Canon walnuts. Juglans originally for rattles - - ." (3.)
- 122 "Shale pipe." (22-L.)
- 123 "Sacrificial prayer arrows." (15.)
- 124 "Iron pyrites used with sacred paint."
- 125 "Red paint stone for decorating walls," etc. (2.)

- | | | |
|-----|----------------------------------------------------------------------|------|
| 126 | "Sacred green paint material. Malachite." | 276. |
| 127 | "Sacred green paint, turquoise matrix and carbonate copper." (83-L.) | |
| 128 | "Pebbles for sacred rattles." (2.) | |
| 129 | "Sacred lightning medicine stone. Aragonite." | |
| 130 | "Crystals of smoky topaz. Fetichistic." (2.) | |
| 131 | "Limonite for polishing and use as fetiches." | |
| 132 | "Water medicine tablet, used ceremonially." | |
| 133 | "Raw material for pendants." | |
| 134 | "Fragments of carbonaceous shale - - for pendants." (3.) | |
| 135 | "Aragonite, collected for - - imitation shell ornaments." (58-C.) | |
| 136 | "Unfinished large pendant of cannel coal." | |
| 137 | "Wholly shaped hematite pendant." | |
| 138 | "War arrow points." (10.) (86 and 87 C.) | |
| 139 | "Arrows and dart beads." (35.) | |
| 140 | "Knives." (24.) (72 - 5 - 88 and 88 C.) | |
| 141 | "Knives." (11.) (67-C.) | |
| 142 | "Reamers and drills." (8.) (68 - 68 - 70 - 65 and 63 C.) | |
| 143 | "Scraping and cutting flakes." (2.) | |
| 144 | "Arrow point made into reamer." | |
| 145 | "Hunting arrow for large game." | |
| 146 | "Saw knives." (3.) | |
| 147 | [?] arrows (broken) for shooting eagles." | |
| 148 | "Arrow and knife material." (3.) | |
| 149 | "Chipping [?] for fashioning - - blades." (3-G.) | |

- 150 "Bodkin trimmed for use for finishing edges of arrow points. (63-G.)
- 151 "Cutting or carving knife."
- 152 [?] drill of chalcedony." (104-C.)
- 153 "Hunting and [?] . ." (94-C.)
- 154 "Combined knife and harpoon or dart head." (98-C.)
- 155 "White paint or kaolin, for slipping ware." (54-L.)
- 156 "Hematite paint stones, for pottery. Black." (2.) (59-C.)
- 157 "Pebble pot smoothers." (4.) (37 - 38 and 57 C.)
- 158 "Pebbles for final polishing or finishing." (3.)
- 159 "Paint stone, for pottery."
- 160 "Carbonaceous clay used in making wall-cores of fine - - jars."
- 161 "Pottery clay prepared for fine pottery-making."
- 162 "Pottery scraper used in pot-building." (70-B.)
- 163 "Spatula of cottonwood for moulding or giving form to pottery."
- 164 Sandals of yucca leaves, fibre, etc. (97.) (44 - 112 - 89 - 15 - 19 -
62 - 111 - 42 - 94 - 82 - 84 - 50 - 17 - 115 - 107 - 54 - 31 - 23
97 - 30 - 43 - 2 - 113 - 109 - 105 - 5 and 76 - H.)
- 165 Sandals in course of construction. (5.) Group numbers, if any, in
No. 164.
- 166 Potsherds. To show various wares. (163.)
- 167 Large gourd shell. (3-K.)
- 168 "Meal bowl."
- 169 "Hank of yucca fibre."
- 170 "Bundle of yucca fibre."

- 171 "Hank of yucca fibre." (69-H.) 278.
- 172 Red and white corn.
- 173 White corn.
- 174 "Partially prepared fibre of yucca leaves."
- 175 "Partially prepared fibre of yucca leaves."
- 176 "Hank of yucca fibre pared and softened for spinning." (73-H.)
- 177 Narrow-leaved yucca leaves. (163-H.)
- 178 Agricultural implement.
- 179 Agricultural implement. Broad blade.
- 180 Dipper-bowl. Handle broken. No. 23134.
- 181 Dipper. White ware. Ornamented. No. 23155.
- 182 Dipper-bowl. White ware. Ornamented. No. 23132.
- 183 Dipper. Handle broken. Ornamented. No. 231[?]5.
- 184 Dipper. White ware. Grooved handle. No. 23150.
185. Dipper. Large. White ware. Ornamented. No. 23153.
- 186 Dipper. Handle broken. Ornamented. No. 23142.
- 187 Dipper. Handle broken. Hole in handle. No. 23123.
- 188 Dipper. Twisted handle. Broken. No. 23162.
- 189 Dipper-bowl. White ware. Ornamented. No. 23126.
- 190 Dipper-bowl. Ornamented. Broken. No. 23127.
- 191 Dipper-handle and part of bowl. No. 23107.
- 192 Dipper-handle. Flat. End turned over. No. 23122.
- 193 Dipper-handle. Round. Tapering. No. 23111.
- 194 Dipper-handle. End red from fire. No. 23118.

- 195 "Coiled-ware paint-pot for sacrificial paint." No. 22859. 279.
- 196 "Coiled-ware cooking-pot." No. 22872.
- 197 Corrugated jar. Black ware. No. 22875.
- 198 "Coiled-ware blue corn mush-pot." No. 23862.
- 199 Corrugated jar. Flaring rim. Black. No. 12761.
- 200 Bowl. White ware. Interior ornamented. No. 22983.
- 201 Bowl. Small. White ware. Interior ornamented. No. 22917.
- 202 Bowl. Small. White ware. Interior ornamented. No. 32833.
- 203 Bowl of dipper. White ware. Interior ornamented. No. 32814.
- 204 Bowl. Buff ware. No. 2280X.
- 205 Bowl. Buff ware. Interior decorated. No. 32924.
- 206 Bowl. White ware. Interior decorated. No. 22 [?] 72.
- 207 Bowl. White ware. Interior decorated. No. 23836.
- 208 Bowl. Buff ware. Interior and exterior decorated. No. 22835.
- 209 Bowl. Corrugated ware. Interior decorated. No. 2291X.
- 210 Jar-rest made of yucca leaves.
- 211 Bundle of turkey feathers. (10-L.)
- 212 "Pouch, of skin of female prairie dog."
- 213 "Pouch, of skin of old male prairie dog."
- 214 "Pouch, of skin of young prairie dog."
- 215 "Pouch, of skin of old male prairie dog."
- 216 Rawhide, buckskin, etc. (18 bottles.) (104 - 114 - 76 - 147 and 65 [?])
- 217 Rabbit-skin cord. (59-H.)
- 218 Textiles. Small pieces. (9 bottles.) (3-H.)

- 219 Cord of various sizes and materials. (11 bottles.) (40 - 44 - 31 - [?]
159 and 33 - H.)
- 220 Corn-cobs. (3.)
- 221 Hair cord. (111-H.)
- 222 Bunch of feathers bound with cord. (18-L.)
- 223 Human hair. Some tied in bunches. (8 bottles.) (78 and 72-A.)
- 224 Hair cord. (2 bottles.)
- 225 Pumpkin-seeds and beans.
- 226 Corn husks, tassels, etc. (5 bottles.)
- 227 Burden strap. Yucca cord bound with hair cord. (122-B.)
- 228 Wooden implements. (15.) (7 and 15-F.)
- 229 Bundle of cedar bark.
- 230 Woven bag. Colored design.
- 231 Jar-support. Plaited yucca.
- 232 Large beams from cliff-houses. (3.)
- 233 Cloth with colored designs. (2 bottles.)
- 234 Shells, bones. (14.) (22 - 32 - 29 - and 20-A.)
- 235 Mummified head.
- 236 Mummy of child.
- 237 Fragments of burial mats. (2.)
- 238 Burial mats. (2.)
- 239 Baby board.
- 240 "Pannier." Made of reeds.
- 231 "An apron of twine." (88-H.)

- 242 Burden strap. (115-H.) 281.
- 243 Mummy of child with feather-cloth blanket.
- 244 "Stem of squash." (51-H.)
- 245 "Rods used in setting up sandals." (4.)
- 246 Loop or staple. (72-F.)
- 247 "Plaiting bodkins." (3.)
- 248 "Rods used in coarse knitting." /
- 249 "Thumb-stick or crochet-needle." (22-F.)
- 250 "Wooden plaiting bodkin." (29-F.)
- 251 "Fine plaiting bodkin."
- 252 "Plaiting bodkin. Mountain mahogany."
- 253 "Cord [?] used in edging rabbit-fur robes."
- 254 "Fire-sticks made of cedar and cottonwood." (9.)
- 255 "Fire-sticks used as hand drills." (4.) (119-F.)
- 256 "Fruit-strainer of fibre."
- 257 "Cedar bark tinder bundles."
- 258 "Cedar kindling bark." (71-L.)
- 259 Sticks with hole drilled in either end. (2.)
- 260 Hatchet. Made of hard wood. (101-F.)
- 261 Water jar. Loop handles. No. 23025.
- 262 Corrugated ollas. Large. Black. (11.)
- 263 "Thunder balls."
- 264 Stone mortar.

- 265 Metate. Sandstone. Flat and thin. 282.
- 266 Jar. White ware. Small opening in top. No. 22991.
- 267 Jar. White ware. Small opening in top. No. 22996.
- 268 Jar. White ware. Small opening in top. No. 22994.
- 269 Jar-cover. Pottery. With handle. No. 23005.
- 270 Jar-cover. Pottery. With handle. No. 23010.
- 271 Jar-cover. Circular. Pottery. Flat. No. 23017.
- 272 Jar-cover. Circular. Pottery. Flat. No. 23022.
- 273 Jar-cover. Circular. Pottery. Flat. No. 23009.
- 274 Pitcher. Small. Rough. No. 23083.
- 275 Pitcher. Cylindrical top. Decorated. No. 23067.
- 276 Small jar. White ware. No. 22900.
- 277 Skeleton. Partly mummified. With rush mat.
- 278 Mummy. Adult. With rush mat.
- 279 Mummy. Adult. With rush mat.
- 280 Mugs. White ware. Decorated. (6.)
- 281 Bowl. Large. Ornamented on interior and exterior. No. 22965.
- 282 Bowl. White ware. Ornamented on the inside. No. 22907.
- 283 Bowl. White ware. Ornamented on the interior. No. 22948.
- 284 Bowl. Corrugated. No. 22919.
- 285 Bowl. White ware. Rough. No. 22898.
- 286 Bowl. White ware. Deep.
- 287 Bowl. White ware. Ornamented on the inside. No. 22963.
- 288 Bowl. White ware. Ornamented on interior. No. 22905.

UNIVERSITY OF PENNSYLVANIA
DEPARTMENT OF ARCHAEOLOGY AND PALAEONTOLOGY

Office of the President, 1811 Spruce Street, Philadelphia.

Dr. William Pepper, President
1811 Spruce Street

Mrs. Cornelius Stevenson, So. D. Sec.
237 S. Twenty-first Street

Clarence H. Clark, Treasurer
Bullitt Building

Stewart Culin, Director
University of Pennsylvania

Statement in regard to Mr. Hazard's Collection,
made by Mr. Cushing, the Ethnologist, at Washington.

He regards Mr. Hazard's collection as the most important in existence in relation to the special subject which it illustrates, namely, the cliff dweller phase of the Pueblo development. Aside from its special relation to these two subjects of the Cliff Dwellers and the Pueblo Indian, it is a most important collection in a general way on account of its great completeness. It is peculiar in one respect. If we except collections from Peru, it is the only collection which represents almost perfectly a remote stone age development of a people; represents such a development as perfectly as though collected from a living people in that condition of development. For the feather work, the textile work, the basketry, and other objects of perishable materials, are so perfectly preserved, and the collection is

so complete, not only in utilitarian objects and objects of artistic interest, but also in objects of ceremonial character, and symbolic, that we may restore in every particular, through knowledge of the modern Pueblos, who are descendants of these Indian Cliff Dwellers, the daily, the practical, and the religious life and social customs of the very ancient people to whom these collections pertain.

It would take, with good luck, one and one half years, probably, to make such a collection as that -- such collection to be gathered only by a trained man like the Wetherill Brothers, who have had a great deal of experience in this line, or a man well trained in Museum work generally. And it would cost anywhere from \$15,000 to \$30,000 to make such a collection.

WETHERILL AND COLVILLE

GUEST RANCH

Horseback and Motor Trips

Arizona : Colorado : Utah : New Mexico : Mexico

Kayenta, Arizona

March 25, 1930

Dear Mr. Howard:

I was in Philadelphia last November and tried to find the collection you speak of. There were two collections added together and purchased by Mr. Hazzard from Wetherill Bros., McLoyd, Graham, and Patrick and exhibited at the Chicago Fair. After the Fair they were turned over to the Museum, by whom I do not know.

The Basket Maker material is mostly from Grand Gulch, a tributary of the San Juan on the north. The cliff house material, that came with the McLoyd Collection, came from the White Canyon, Armstrong Canyon and the Moki Canyon, tributaries of the Colorado River on the South. This work was done by Chas. McLoyd, Howard and Charles Graham and Wash and Sevi Patrick. Lost Canyon, Deep Canyon, Red Canyon and Lake Canyon have very few ruins in them. I was with them for awhile when they were doing this work.

The other collection was one of the largest collections that ever came from the Mesa Verde and was taken out by my brothers and myself in the

winter of '89 and '90. It was all cliff house material. It included pottery, sandals, bone and stone implements, baskets and wooden implements, mummies and skeletons, leather robes, rush and willow matting, bows and arrows, bone planting sticks, disstaffs, stone beads, jet, and shell beads. The sandals were round toed, made of yucca and cedar bark. We found some pieces of cotton cloth; also pieces of buckskin that had been made into jackets and moccasins. The Basket Maker things were found in light sands and dust of the ages, also in cists or pot holes as we called them at that time. You will find in a book called the *Basket Makers*, by Samuel J. Guernsey and Dr. Kidder, published by the Peabody Museum 1921, more of the information of the Basket Makers material than I can give you in a short letter. The collection in Denver was taken out by us for the World's Fair in Chicago in 1892.

It may have been Mrs. Hearst who donated the collection to the University. She may have taken some of it for her own private collection; if so it will probably be in California. I have never heard that this is the case.

Dr. Geo. H. Pepper who was at the University for awhile has written a little on the Basket Makers. There should be in the collection of books in the Peabody Museum a catalogue of all the articles in the collection from Mesa Verde. Dr. Kidder can tell you if there is. He told me about it some eight years ago. Hoping this will help you a little in your work on the collection, I am

Very truly yours,
(signed) John Wetherill.

Los Angeles, California.

14 May 1894

My dear Sir:-

Owing to the uncertain state of Mr. Hazzard's health the Cliff Dwellers' Exhibit of the World's Fair shall not be continued in any other city - but shall be sold.

The C. D. Hazzard collection now comprises not only the whole of the collection exhibited at the mountain but also the Entire Cliff Dwellers collection of the Colorado state Exhibited in the Anthropological Building. These two collections now merged into one form, as you know, a matchless exposé of the Cliff Dwellers civilization. It comprises everything, and in many cases unique specimens of arms, utensils, pottery, cloth, implements and mummies. The price set on these two collections (now one) is \$25, 000, that is about \$2.50 per specimen.

Knowing the friendly interest you have taken in our work, I address you to ascertain if possible, whether [sic] the University of Penn. would become purchaser and if so - whom I should address, if not you. I expect to write to

Smithsonian Institution,

Field Memorial Museum,

Peabody Museum,

N. Y. Museum of Nat. History.

Do you know of any others?

288.

Any information you may be willing to send me, at your Convenience,
I shall greatly appreciate, as I know that you manage to be acquainted with
"Deus ex machina" - and a word from you may set me on the right road.

Hoping you are discovering games never seen before, and enjoying the
best of health believe me,

Very Sincerely Yours,

(signed) Hector Alliot

To

Stewart Culin Esq.

Philadelphia

We should prefer to have an American
museum to become the owner of the
collection - yet they may not desire to.
If not could you give me the name of
the proper person to address at the
British Museum?

Agreement between Mr. C. D. Hazzard of Minneapolis Minnesota and
the Department of Archaeology of the University of Pennsylvania

Mr. C. D. Hazzard of Minneapolis, Minn. hereby agrees to loan to the Department of Archaeology and Palaeotatology of the University of Pennsylvania, Philadelphia, the entire collection of objects from the Prehistoric Cliff Houses of Colorado and Utah, exhibited by him at the World's Columbian Exposition, and also his collection of similar objects displayed by the State of Colorado in the Anthropological Building, at the same exposition, in the period of two years. The said Department of Archaeology to have permission to publish any or all of said collection, to make photographs and engravings of the various objects, and to use the same for such purposes as may advance the interests of archaeological science. The said Department of Archaeology agrees to pay cartage in Chicago where collections are now stored, and expenses of transportation to Philadelphia. It agrees to place the collection as a whole on public exhibition in Philadelphia within two months after receipt of the same, and if not purchased by the said Department, to keep the collection on such public exhibition in Philadelphia during the term of the loan. The said Department in accepting the collection agrees to assume full financial responsibility for the collection from the time of its delivery in Chicago until the safe redelivery [excepting only reasonable wear of specimens under careful handling] is made of the same

to the said C. D. Hazzard. Upon arrival and examination in Philadelphia and [?] not extending beyond August 15th, 1895, the said Department of Archaeology shall have the privilege of purchasing the before mentioned collection of prehistoric objects for the sum of \$15,000 (fifteen thousand dollars) payment to be made in cash, or obligations acceptable to the vendor, and bearing interest at six per cent from date of sale. At the expiration of one year from date of shipment, the said C. D. Hazzard shall have the privilege of offering the collection for sale, provided that it has not been purchased by the Department. At the expiration of two years from date of shipment from Chicago, the said Department of Archaeology obligates itself to redeliver to said C. D. Hazzard, the entire collection, provided it be not purchased by said Department, packed and sealed in the same manner as when received by said Department, and to deliver the same to any railway station in Philadelphia to the said C. D. Hazzard. The said Department further agrees to pay all charges attendant upon the setting up, care and exhibition of the collection as well as cartage to railway station upon redelivery, if it be not purchased by said Department. The said Department further agrees that upon the collection being unpacked, a complete inventory be made in duplicate of each separate piece in the collection, a certified copy of which shall be delivered to said C. D. Hazzard. The said C. D. Hazzard agrees to be responsible for all storage charges in Chicago up to April 21, 1895, if said collection be not removed by said Department prior to that date.

Philadelphia, March 29, 1895

(signed) C D Hazzard
(signed) William Pepper

UNIVERSITY OF PENNSYLVANIA
DEPARTMENT OF ARCHAEOLOGY AND PALAEONTOLOGY

Museum of Science and Art
Office of the President

Dr. William Pepper, President
1811 Spruce Street

Philadelphia, February 7/96

This agreement witnesses that C. D. Hazzard of Minneapolis, Minn has sold to the Department of Archaeology and Palaeontology of the University of Pennsylvania his collection now in the Museum of the University of Pennsylvania and known as the Cliff Dweller Collection, together with the 5 oil paintings (there at present); and that the said Department of Archaeology and Palaeontology has agreed to pay therefor the sum of Fourteen Thousand, Five hundred Dollars (\$14, 500) in three payments viz \$5, 000 on April 1 1896; \$5, 000 on July 1, 1896; and \$4, 500 on October 1, 1896.

(signed) William Pepper

President

Witnessed

[?] Williams
Member of Bd of Managers

January 22/96

Washington D. C.

Notify Mr. Hazzard on March 1/96 that Mrs. (P) A. Hearst has agreed to buy the Hazzard collection (\$15, 000) for the Museum of Science and Art -- and that payments will be made about April 1; July 1; October 1, 1896.

(signed) Phebe A. Hearst

No. 443

Philadelphia, Jan 1 1897

UNIVERSITY OF PENNSYLVANIA

Department of Archaeology and Palaeontology

Section of American and
Prehistoric Archaeology

Received of Mrs. Phebe A. Hearst

The following objects on loan:

Collection of prehistoric objects, pottery, stone,

wood, basketry, textiles and human remains,

comprising all the objects known as the Hazzard

Collection, now in the American Hall of the Museum of

Archaeology and Palaeontology of the Univ. of Penna.


(signed) Stewart Culin
Director of the Museum
for American Curator