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History of Great Basin Anthropological Research, 1776-1979

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COLLECTION of information on indigenous Great Basin peoples and cultures began in 1776 (Bolton 1950). However, it was not until the 1860's that any sort of systematic research program was initiated in ethnography and linguistics. Physical anthropological studies were not undertaken until the 1880's, and systematic archaeological work did not begin until after 1900. This article reviews the principal programs of research in Great Basin anthropology carried on since the 1860's, with a brief examination of earlier developments.

ETHNOGRAPHY AND LINGUISTICS

Early Descriptions

Between 1776 and 1868, information on one or more Great Basin Indian groups was collected by members of various exploration parties. These data were part of a range of topographic and "natural history" information collected, and there was no concentration on anthropological data per se.

The journal kept by Fray Escalante during the Dominguez-Escalante expedition from New Mexico into present-day Utah and Arizona in 1776 contains several passages describparty. Ute bands were met in western Colorado and the Uintah Basin, Timpanoaguts Utes near Utah Lake, Pahvant Utes south of Utah Lake, and various groups of Southern Paiute near present-day Cedar City, Utah, and along the Virgin River. These brief descriptions provide an ethnohistoric baseline for the several groups.

Lewis and Clark's descriptions of the

ing various Numic groups encountered by the

Lewis and Clark's descriptions of the Northern Shoshoni in 1804-06 (Coues 1893) provide initial information on those people. The *Journals* of the expedition (first published in 1814) contain detailed accounts of subsistence, dress, and territorial and political organization, but little on social organization or religion (Ray and Lurie 1954).

The Wilkes naval expedition of 1838-42 to the Pacific (Tyler 1968) stopped along the coast of what is now Oregon. Horatio Hale and other expedition members collected vocabularies and miscellaneous ethnographic data. Some of these data relate to various Northern Paiute bands of central Oregon and were included in Gallatin's (1848) linguistic compilation.

The numerous early trappers' and emigrants' diaries provide scattered and uneven information on various Great Basin Indians

Don D. Fowler, Historic Preservation Program, University of Nevada, Reno, NV 89557. from the 1810's through the 1850's (See Malouf 1966 and Liljeblad 1959 for evaluation of these sources, and C. Fowler 1969 for bibliography). Many of the diaries are superficial and heavily ethnocentric and must be used with caution as ethnohistoric sources.

The several federally sponsored exploring expeditions, and later, wagon road and railroad surveys, between the 1830's and 1860's which passed through the Great Basin produced varying amounts of data on indigenous peoples. For example, Stansbury's (1852) report contains only scattered ethnographic data, but the Gunnison-Beckwith report (Beckwith 1855) and the Macomb Survey in 1859 (Macomb 1876) all contain substantial amounts of ethnographic data on Great Basin peoples. Some information on the Chemehuevi Paiute along the Lower Colorado River is also found in the reports of Whipple (1856) and Ives (1861). Additional ethnographic materials are reported in the annual reports and unpublished correspondence of the Commissioner of Indian Affairs and the various Indian agents stationed at Great Basin reservations and colonies between the 1850's and 1900 (see C. Fowler 1969:293-359 for relevant bibliography).

Beginnings of Systematic Work, 1870's

The first person to devote extended periods of time to the study of Great Basin ethnography and linguistics was John Wesley Powell. Between 1868 and 1876, Powell collected substantial amounts of data on subsistence, technology, social organization, mythology, religion, and linguistics, with the aim of producing an ethnography of the Numicspeaking peoples. He did not complete the project, and his extensive manuscript and material culture collections were not published until recently (Fowler and Fowler 1971; Fowler and Matley 1979). Powell, in collaboration with George W. Ingalls, did produce the first systematic survey of Great Basin

Indian demography and political organization (Powell and Ingalls 1874; reprinted in Fowler and Fowler 1971:97-119). The report remains a baseline document for Great Basin aboriginal demography.

Between 1866 and 1877, Edward Palmer collected miscellaneous ethnographic data on the Northern Ute and Southern Paiute in the course of his archaeological and botanical collecting expeditions in southern and central Utah (Palmer 1876, 1878; Heizer 1954, 1962; Fowler and Matley 1978). In 1875, Stephen Powers collected ethnographic data on the Washo and Northern Paiute in western Nevada in the course of an expedition to gather Indian materials for the 1876 Philadelphia Exposition (Powers 1877; Fowler and Fowler 1970).

Also in the 1870's, members of the Hayden Survey, e.g., Barber (1876, 1877), Hoffman (1876, 1878), and Loew (1876), made various ethnographic observations on Great Basin peoples. The historian Hubert Howe Bancroft (1875, 1876) compiled a variety of miscellaneous ethnographic and linguistic data, much of it inaccurate, on Great Basin Indians.

A further, albeit somewhat romanticized, contribution to Northern Paiute ethnography was made by Sarah Winnemucca Hopkins (1883), the daughter of "Chief" Winnemucca.

There was a general lack of systematic ethnographic work in the Great Basin between 1880 and 1900. An exception was James Mooney's brief visit with Wovoka or Jack Wilson, the "prophet" of the 1890 Ghost Dance (Mooney 1896).

One of the first to achieve the Doctor of Philosophy in American anthropology, Alfred Louis Kroeber, did some brief ethnographic work with the Northern Ute in 1900 (Kroeber 1901, 1908) and shortly thereafter with the Washo (Kroeber 1907). In 1906, Robert H. Lowie, on his first ethnographic field trip, briefly studied the "Lemhi" Shoshoni of Idaho (Lowie 1909). In later years, Lowie "paid

scouting visits to a good many Shoshonean [Numic] groups in Idaho, Wyoming, Utah and Nevada" (Lowie 1960:76; cf. Lowie 1924a, 1924b), and in 1926 he worked for some weeks with the Washo (Lowie 1939, 1963).

In 1910, Edward Sapir worked extensively with Tony Tillohash, a Kaibab Southern Paiute who was then a student at the Indian School in Carlyle, Pennsylvania. Sapir also worked briefly with the Uintah Ute of Northern Utah. The results of his work are contained in various articles (Sapir 1910a, 1910b, 1913, 1916) and in an extensive language analysis, dictionary, and collection of texts (Sapir 1930-31). A series of ethnographic notes remains unpublished, although extended sections of them are quoted in Kelly (1964) and Fowler and Matley 1979).

Other ethnographic work conducted in the first decade of the twentieth century includes that of Ralph V. Chamberlin (1908, 1909, 1911, 1913), who collected materials on Ute and Gosiute Shoshoni ethnobiological nomenclature and toponyms. C. Hart Merriam conducted ethnographic and linguistic research among the Washo in 1903 and 1904 (Merriam 1903-35), and periodically among other Great Basin peoples (e.g., Merriam 1955:passim; Heizer 1966). Samuel Barrett briefly worked with the Washo and Northern Paiute in 1915. later publishing the first major monograph on the Washo (Barrett 1917). In the early 1920's, Grace Dangberg collected text materials on the Washo (Dangberg 1922, 1927).

In 1927 and 1928, Julian H. Steward, sponsored by the University of California, Berkeley, initiated a long-range study of various groups, beginning with the Numic Owens Valley Paiute (Steward 1933c). In 1930, Isabel T. Kelly spent three months with the Surprise Valley Paiute (Kelly 1932a, 1932b) and more extended periods with several Southern Paiute groups in 1932-34 (Kelly 1939, 1964).

The 1930's was a most active period of Great Basin ethnographic research sponsored by the University of California, Berkeley, and Yale University. Between 1934 and 1938, the University of California, Berkeley, conducted a Culture Element Survey of Native Western American groups. The immediate aim of the program was to develop lists of comparable culture elements or traits from over 200 tribes in western North America. The ultimate objective was to develop sets of data which could be statistically manipulated in hopes of elucidating aboriginal "internal history" (Kroeber 1939:passim), that is, as a device to determine cultural relationships between and among tribes. These "laundry lists," as they were sometimes called, were developed and elaborated during the course of the project. Those for Great Basin groups each include several hundred "elements" or traits, with extensive annotation. Surveys of Great Basin groups were conducted principally by Julian Steward (1941, 1943) during a six-month field season in 1935, and four months in 1936, and by Omer Stewart (1941) during nine weeks in 1936 and twelve weeks in 1937-38. Both men collected additional materials leading to their various studies of sociopolitical organization (Steward 1938), peyotism (Stewart 1944, 1968), and band organization (Stewart 1966).

Also during the 1930's, Yale University sponsored field research by five students. Willard Z. Park (1938) conducted three summers' fieldwork among the Paviotso Northern Paiute in 1933-35. Beatrice Blyth (Whiting) studied the Northern Paiute in Burns, Oregon, in the summers of 1936-38 (Whiting 1950). Maurice Zigmond (1938, 1941, 1972) worked with the Kawaiisu in 1936 and 1937. Edgar Siskin worked with the Washo in 1937 and 1938 (Siskin 1941). In the eastern Great Basin, Anne Cooke Smith (1937, 1940, 1974) studied Northern Ute material culture and mythology.

Other research during the 1930's included Demitri B. Shimkin's (1939, 1947) work with the Eastern (Wind River) Shoshoni in 1936, Carling Malouf's research among the Gosiute Shoshoni in 1938 and 1939 (Malouf 1940; Malouf and Smith 1942), and research with various Shoshoni groups by E. Adamson Hoebel (1935, 1938) and Jack Harris (1940).

In the 1940's, very little ethnographic research was conducted in the Great Basin with the exception of Fred W. Voget's (1948, 1953) work with the Eastern Shoshoni and the initiation of research with the same tribe by Åke Hultkrantz between 1948 and 1958 (Hultkrantz 1953, 1960, 1961).

The 1950's saw a renewed interest in Great Basin ethnography. The Washo were studied by several individuals. Ruth and Stanley Freed worked intermittently between 1952 and 1957 (Freed 1960, 1963; Freed and Freed 1963). In 1953, Warren d'Azevedo (1963) began long-term work with the tribe. Philip Leis (1963) conducted Washo research in 1954. Freda and Norman Scotch (1963) conducted research on epidemiology, nutrition, and diet in 1955. James Downs (1961, 1966a) conducted research in 1959. William Jacobsen, Jr., began linguistic research among the Washo in 1955 (Jacobsen 1964, 1966). John A. Price (1962) worked with the group in 1961.

Ethnographic research among other Great Basin peoples also resumed in the 1950's. Margaret Wheat (1967) began extended studies of Northern Paiute material culture. Robert Euler (1966, 1967, 1972) worked with Southern Paiute in 1956 and 1959. Joseph G. Jorgensen (1959, 1964, 1972) began an extended study of various facets of Northern Ute culture and society in 1957-58, and Gottfried Lang (1953, 1954) carried out studies in psychological anthropology of the Northern Ute during the early 1950's.

With the passage of the Indian Land Claims Commission Act of 1946, various anthropologists were employed by the U.S. Justice Department or by attorneys for the plaintiff tribes to collect data relating to aboriginal tribal distributions and lands. Sources relative to the Great Basin derived from these researches include Steward (1955a), Steward and Voegelin (1954), Murphy and Murphy (1960), and Manners (1974). (See also a general summary of these researches relating to "tribal boundaries" in Stewart 1966.) Extensive files of unpublished ethnohistoric data relating to the Land Claims cases for the Great Basin and elsewhere, collected by Omer C. Stewart, are deposited at the University of Colorado Library, Boulder.

The 1960's saw an expansion of ethnographic and linguistic research. In 1961-63, research on Southern Paiute ethnography and ethnohistory was conducted (Euler 1966, 1972; C. Fowler 1966) in conjunction with the Upper Colorado River Basin Archaeological Salvage Project of the University of Utah, centering on the Glen Canyon section of the Colorado River. Since 1964, Catherine S. Fowler and others (Fowler 1972a, 1972b; Fowler and Leland 1967) have conducted extended studies of comparative Numic ethnoscience. In 1958, James Goss initiated a long-term study of Southern Numic linguistics (Goss 1961, 1968, 1972a, 1972b). Since the mid-1960's, Wick Miller and his students have developed an extensive program in the study of Central Numic languages (Miller 1966; Miller, Tanner, and Foley 1971; Crapo 1970). In 1964 and 1965, under National Science Foundation sponsorship, the University of Nevada, Reno, conducted intensive field schools on several western Nevada Indian reservations and colonies. Several students connected with the project continued research beyond the field schools (Handelman 1967a, 1967b, 1968; Hittman 1973; Houghton 1973; Lee 1967; Lynch 1971; Mordy 1966; Olofson 1979; Shimkin and Reid 1970). Archival materials from the project are on file at the Department of Anthropology, University of Nevada, Reno.

Other recent important ethnographic works include Bean's (1972) summary of data on the Cahuilla and that of Laird (1976) on the Chemehuevis. Lawton et al. (1976, c.f. Wilke and Lawton 1976:46-47) have recently reviewed previous ethnographic and ethnohistoric data relating to aboriginal irrigation practices in Owens Valley, California.

Classifications of Great Basin Indian languages have existed since Gallatin's (1836) pioneering work in the early nineteenth century. The Powell (1891) classification has remained the standard, with various proposed changes in nomenclature (Lamb 1964; Miller 1966; Goss 1968).

The foregoing list of ethnographic and linguistic research is not exhaustive, but it is illustrative. As noted, data on Great Basin indigenes began to be collected in 1776, and more or less systematically, a century later. By 1875, Great Basin Indian peoples were already being forced onto reservations and aboriginal life-ways were in a rapid state of decline, as Powell noted in 1873 (Fowler and Fowler 1971: 97-118). Subsequent ethnographic and linguistic work was essentially "salvage ethnography" of "memory cultures."

Consonant with the tenets of the historicalist paradigm of American anthropology after 1900 (Harris 1968:250-318), a major effort in Great Basin studies, as elsewhere, was to "reconstruct" the "ethnographic present." That is, to describe aboriginal cultures as they were, in effect, the day before initial White contact. In the eastern Great Basin-Plains transition area, this approach was complicated by the fact that horses had spread to several Ute and Shoshoni groups long before any actual face-to-face White-Indian contact. In that area, the post-horse, pre-White cultures came to be baselines for the "ethnographic present." Julian Steward's (1938) classic monograph on peoples of the Great Basin is archetypical of the ethnographic present approach: a compilation of "memory cultures"

from aged informants combined with available ethnohistoric data (cf. Malouf 1966).

As previously noted the University of California traitlist studies were a major focus of research in the 1930's. These studies also were oriented toward "cultural reconstruction" as a first step toward the statistical manipulation of "traits" as a means to delineate "culture areas" and age areas (see also archaeology section, below).

Thus, until 1950, with minor exceptions (e.g., Steward 1939), Great Basin ethnographic and linguistic research was carried out within the American historicalist paradigm—reconstruction of the "ethnographic present."

By 1950, new areas of interest had developed within American anthropology, notably psychological anthropology (then generally called "culture and personality"), and medical anthropology. These interests are reflected in the works of Scotch and Scotch (1963) and Lang (1953, 1954). There was also a shift to concerns with present-day communities, with problems of acculturation and those of ethnoscience. These concerns are reflected in Great Basin studies by Houghton (1973), Mordy (1966), Shimkin and Reid (1970), Lynch (1971, 1978), Hittman (1973), Fowler and Leland (1967), Goss (1972b), and Clemmer (1978).

A bibliography of Great Basin Anthropology (C. Fowler 1969), current through 1968, lists 2000 references on archaeology, 1650 references to ethnohistorical sources, and over 2700 published and unpublished items on linguistics and ethnography. Despite this seeming plethora of data, there are serious gaps in knowledge of Great Basin aboriginal cultures and peoples. For example, data are insufficient and ambiguous enough to permit wide disagreement over the nature of Great Basin sociopolitical organization (Service 1962; Steward 1970; cf. D. Fowler 1966). Details of subsistence and technology are somewhat better understood (see Downs 1966b for a summary). Aspects of ideational

culture have been studied for specific groups (e.g., Park 1938, Smith 1940, Goss 1972b, Olofson 1979, Whiting 1950), but large gaps exist. A recent development of great interest and promise has been studies conducted by Indian people of their own histories and cultures (Johnson 1975; Nevada Intertribal Council 1974a, 1974b; Robertson 1977).

Although the Great Basin is sometimes called a "laboratory" for anthropology, such a designation may be overrated. In cultural anthropology, with one exception, no new ideas, concepts, or methods were produced in the "laboratory"—rather, research was carried out within paradigmatic and methodological frameworks developed elsewhere. The exception is Steward's (1936b, 1938, 1955b) concept of cultural ecology, which developed out of his Great Basin data and which has had wide applicability throughout the world (Murphy 1970).

PHYSICAL ANTHROPOLOGY

Relatively little research has been done on the physical anthropology of indigenous Great Basin peoples. At the turn of the century Franz Boas (1895, 1899, 1905) published a series of anthropometric observations on Ute, Southern Paiute, Shoshoni, Bannock, and Achomawi-Atsugewi peoples. These and other scattered osteological and anthropometric studies are summarized by Kennedy (1939). Recently, extant osteological collections from archaeological locales at Pyramid Lake, the Humboldt Sink, and the Lost City area were analyzed by Brooks, Galliher, and Brooks (1977). However, there is no current general overview of physical anthropological data for the Great Basin.

ARCHAEOLOGY

1850-1874

Great Basin archaeological remains were occasionally reported by members of various

exploring parties who crossed the area between about 1850 and 1874. The reports describe village sites, petrographs, scattered surface finds, and aboriginal salt mines (Stansbury 1852:182; Beckwith 1855:63; Carvalho 1858: 207; Remy and Brenchley 1861, I:364-374; Bancroft 1886:713-715). Many of these reports speculate on the origins of the remains, linking them, variously, to the Hopi of Arizona or ill-defined "Aztec" or "Mexican" empires.

1875-1900

This period saw the beginnings of excavation of sites to provide collections for eastern museums, especially the Smithsonian Institution and the Harvard University Peabody Museum. Scant, if any, attention was paid to provenience control; the aim was collections of objects. "Dr." Edward Palmer collected for both the Smithsonian and the Peabody, excavating in sites near Santa Clara and Kanab, Utah (Palmer 1876, 1878; Fowler and Matley 1978). Parts of these collections were exhibited at the 1876 Philadelphia Exposition and later partially described by Holmes (1886:passim). Others collecting for the Peabody Museum included C. C. Parry, who dug into a "mound" near St. George, Utah (Parry 1877). The federally-sponsored "Great Surveys" of the 1870's, especially the Wheeler Survey (Putnam et al. 1879), noted various archaeological sites during the course of their topographic work. Henry Montgomery, a University of Utah naturalist, excavated various "mound" sites in western and central Utah in the 1880's and early 1890's. His report (Montgomery 1894) is an attempt to summarize Utah archaeology as then known and relate the sites to a vague "Mexican" empire.

Thus, prior to 1900, Great Basin archaeology consisted of scattered observations of "antiquities," the collection of artifacts for museums with little or no attention to provenience control, and speculations about external cultural relationships. Most recorded sites were along the Wasatch Front in Utah, or in the Virgin River Valley of Utah and Nevada.

1900-1970

The principal archaeological research projects conducted in the Great Basin area between 1900 and 1920 were Neil Judd's reconnaissances and excavations at sites along the Wasatch Front in Utah between 1915 and 1920 (summarized by Judd 1926), and L. L. Loud's initial excavations at Lovelock Cave in central Nevada in 1912 (Loud and Harrington 1929; Grosscup 1960).

In 1925, Mark R. Harrington, supported by the Heye Foundation of New York and the State of Nevada, commenced excavations at the Lost City, or Pueblo Grande de Nevada, complex in the lower Moapa Valley, Nevada. In 1926, Harrington became affiliated with the Southwest Museum of Los Angeles, but continued his work at Lost City. He and his staff worked in the area through 1930, conducting surveys as well as excavations of Lost City, Mesa House, and in Paiute Cave (Harrington et al. 1930). In 1930-31, Harrington also directed the excavation of Gypsum Cave in which artifacts were reportedly found in association with the dung of the extinct ground sloth, Nothrotherium (now Nothrotheriops) sp. (Harrington 1933). This association has subsequently been disproven (Heizer and Berger 1970).

Between 1933 and 1938 Harrington resumed excavations at the Lost City complex as part of an archaeological salvage project prior to the inundation of the sites by Lake Mead. Harrington issued only scattered preliminary reports on the Lost City excavations, and the sites were not fully reported for many years until Richard Shutler (1961) pulled together the extant data and collections. During this same period, Harrington and his associates conducted surveys and test excavations in Meadow Valley Wash, Lincoln County, Nevada, and along the east slope of the Snake

Range on the Utah-Nevada border (Harrington 1936; Wheeler 1939, 1942).

Harrington subsequently directed excavations at various pluvial lake sites in the Mojave Desert area (Harrington 1948; Campbell et al. 1937) including the Stahl site (Harrington 1957), which had a buried stratum containing Pinto and Silver Lake projectile points found in association and, possibly, the remains of houses.

In the late 1920's, the Peabody Museum of Harvard University sponsored a survey and excavation program, the Claflin-Emerson Expeditions, in eastern Utah. In 1928, a survey, led by Donald Scott, was made on the Kaiparowits Plateau and in the tributaries of the Colorado River between the Escalante and Fremont rivers. In 1928 and 1929, Noel Morss, as a member of the expedition, conducted extensive survey and excavation work along the Fremont River. His report (Morss 1931) initially defined the Fremont culture. Survey work under Henry Roberts continued in 1929 and 1930 in the western tributaries of the Colorado. In 1931, Donald Scott and J. O. Brew carried out surveys and test excavations along the Green River and its tributaries from Green River, Utah, to the Uintah Mountains. With the exception of the Morss report, the results of the expedition remained unpublished until they were compiled by James H. Gunnerson (1969). While the work was outside the Great Basin, it led to the initial definition of the Fremont culture later found in the eastern Great Basin area (see below).

During the 1930's, the University of Utah conducted a variety of studies on the Fremont cultures of Utah (Steward 1933b, 1936a; Gillen 1940) and in cave sites on Promontory Point, northern Utah (Steward 1937). The latter work defined the seemingly anomalous Promontory culture, regarded by some as a variant of the Fremont culture (Aikens 1972). Also, in the 1930's Luther S. Cressman of the University of Oregon began a pioneering program of archae-

ological research in the eastern Oregon section of the Great Basin (Cressman 1943, 1956; Cressman et al. 1936, 1942) including the excavation of several important cave sites, notably Fort Rock Cave. Subsequent research was carried on in the Fort Rock region by Bedwell (1973) and Fagen (1974) and in the Warner Valley area by Weide (1975). Elsewhere in the Oregon portion of the Great Basin, excavation at the Dirty Shame Rockshelter was also undertaken (Aikens, Cole, and Stuckenrath 1977).

Archaeological research in southern Idaho began in 1929 with a survey along the Snake River in the southwestern section of the state by Louis Schellbach (1967) of the Heye Foundation. However, systematic research in southern Idaho did not begin until the 1950's (Bowers and Savage 1962; Barnes 1964; Tuohy 1962). A museum was established at Idaho State University at Pocatello (then the University of Idaho, Southern Branch) in the 1930's (Butler 1968:17-18). Under the initial direction of Earl H. Swanson, Jr., the museum has conducted a systematic research program since 1957, with many important sites being excavated (e.g., Gruhn 1961; Swanson 1974). More recent work is summarized in Butler (1978) and in the pages of the Idaho Archaeologist (Norquist 1977 et seq.). (See also Pavesic et al. 1979).

In Northern Nevada, systematic archaeological research began with the excavation of Lovelock Cave near Lovelock, Nevada, in 1912, under the direction of L. L. Loud and the sponsorship of the University of California, Berkeley (Loud and Harrington 1929). Starting in the 1930's, the University of California, Berkeley, conducted its program of Great Basin research under the leadership of the late Robert F. Heizer, including excavations of several important cave sites, notably Humboldt Cave (Heizer and Kreiger 1956), Wagon Jack Shelter (Heizer and Baumhoff 1961), South Fork Shelter (Heizer, Baumhoff,

and Clewlow 1968), Leonard Rockshelter (Heizer 1951), and the re-excavation of Lovelock Cave (Heizer and Napton 1970).

In 1958, the Nevada State Museum began a statewide archaeology program under the direction of Richard Shutler, Jr., and subsequently under Donald Tuohy. Research included the excavation of important cave sites that included Stuart Rockshelter (Shutler, Shutler, and Griffith 1960), and Deer Creek Cave (Shutler and Shutler 1963) and the large-scale re-excavation of the Tule Springs site (Wormington and Ellis 1967). Since 1966, the Desert Research Institute and the University of Nevada, Reno, have conducted surveys and excavations in eastern and southeastern Nevada (Fowler, Madsen, and Hattori 1973).

In the southern Great Basin area several archaeologists have undertaken various studies to define early lithic complexes and cultural chronologies (Hunt 1960; Wallace 1962; 1977; Warren 1967; Warren and Ore 1978). Others have defined chronologies based on projectile point sequences for other areas of the Great Basin (Lanning 1963; Clewlow 1967; Hester 1973; Heizer and Hester 1978).

During the 1970's much new archaeological research was undertaken or completed in Nevada and the extreme western Great Basin areas of California. James O'Connell (1975) conducted excavations in Surprise Valley, California, in the early 1970's. Layton (1970, 1979; Layton and Thomas 1979) conducted an excavation program in the High Rock region of northwestern Nevada (see also McGonagle 1979). Donald Tuohy (1980) directed a program of research at sites around Pyramid Lake, Nevada, and Philip Wilke (1978) researched lacustrine adaptations in the nowarid Salton Basin of California.

Throughout the decade, David Hurst Thomas conducted several projects in central Nevada. These include surveys and excavations in the Reese River Valley (Thomas and Bettinger 1976), the excavation of the deep, stratified Gatecliff Shelter in Monitor Valley and, more recently, the re-excavation of Hidden Cave near Fallon (reports on Gatecliff and Hidden Cave are presently in preparation; but see Thomas [1979:passim] on Gatecliff Shelter).

In eastern Nevada, Alan Bryan and Ruth Gruhn, in association with the Nevada State Museum, re-excavated Smith Creek Cave (Harrington 1936), and excavated several other adjacent rockshelter sites yielding a long cultural chronology (Tuohy and Rendall 1979). Elston (1971) and his associates added materially to the understanding of Washo prehistory along the east slope of the Sierra Nevada. Further south in Owens Valley, California, Bettinger (1976, 1977a, 1979) conducted extensive sampling surveys, as well as additional research in Long Valley (Bettinger 1977b). In Grass Valley, north of Austin, Nevada, Clewlow and his associates conducted an intensive program of prehistoric and historic archaeology (Clewlow and Rusco 1972; Clewlow, Wells, and Ambro 1978).

In 1949, the University of Utah established a statewide Archaeological Survey (Gunnerson 1959) under the leadership of Jesse D. Jennings. Research in the 1950's included a survey of western Utah (Rudy 1953), excavation of the Garrison site (Taylor 1954), the excavation of Danger Cave (Jennings 1957), and surveys and excavations in the Fremont areas of the state (Gunnerson 1957, 1960). From 1957 through 1963, the University of Utah also conducted the Glen Canyon project along the Colorado River. Most of the areas covered by the project lie within the Southwest archaeological province and are not discussed here (see Jennings 1966 for a summary). In the 1960's, the University of Utah sponsored excavations at several important Fremont sites (Aikens 1972; Marwitt 1968), at Hogup Cave in northwest Utah (Aikens 1970), and at other sites (Dalley 1976).

In the 1950's and early 1960's, the Univer-

sity of California, Los Angeles, sponsored excavations at several sites in the Parowan Valley, south-central Utah (Meighan *et al.* 1956).

CONCEPTUAL FRAMEWORKS

For many years Great Basin prehistory was conceptualized primarily in terms of the area being "peripheral" to other, adjacent areaseither the Southwest, or California, or both (Rohn 1973). This conception in part grew out of assumptions implicit in the historicalist paradigm of American anthropology, especially the culture-area and age-area hypotheses (Wissler 1923) which guided most North American anthropological research between 1900 and about 1940 (Willey and Sabloff 1974:88-130). These assumptions were: (1) that "traits" can be isolated and studied individually; (2) that the "history" of a trait or a trait complex is known if its areal distribution is known; and (3) that "traits" diffuse from centers of invention toward peripheral areas the "center" being the point of highest elaboration and complexity. Given these assumptions, and with no means to establish absolute chronologies, the Great Basin was seen to be "peripheral" to the Anasazi culture of the Southwest or to California. In both the Southwest and California, trait complexes were found in more elaborate forms (and, therefore, presumably earlier) than in the Great Basin.

The idea that the Great Basin was peripheral to the Southwest was most fully formulated by A. V. Kidder (1924:78-82) in his classic summary of Southwestern archaeology. Therein Kidder designated all of Utah north of the San Juan River drainage as a "Northern Peripheral District" on the basis that "Puebloid" house types, pottery, and other artifacts were less elaborate than those found in the classic Anasazi Pueblo remains in the San Juan, Chaco, and Kayenta regions of the Four Corners area.

A second concept which underlay the general model of Great Basin prehistory was the Pecos Classification, formulated in 1927 (Kidder 1927). The classification, developed principally for the Anasazi region, contains eight sequential stages or periods: Basket Maker I, or Early Basket Maker; Basket Maker II, or Basket Maker; Basket Maker III, or Late (Post-) Basket Maker; Pueblo I, or Proto-Pueblo; Pueblo II; Pueblo III, or Great Pueblo; Pueblo IV, or Proto-historic; and Pueblo V or Historic (Kidder 1927:490). As dendrochronological dating was not yet fully developed with the exact dating that the technique was later to permit, these periods or stages (except Pueblo V) in the Anasazi area were of unknown duration.

In the 1930's, non-ceramic Great Basin archaeological sites or site components were viewed as relating to the first two Basket Maker stages. Basket Maker I was defined as "a postulated stage, pre-agricultural yet adumbrating later developments"; Basket Maker II was defined as "the agricultural, atlatl-using, non-pottery-making stage" (Kidder 1927:490). Since there were "trait" similarities between Great Basin and Southwestern basketry, it was implicitly assumed that non-pottery-bearing sites or strata in the Great Basin, in which Southwestern-like basketry was found, were of equivalent age with Basket Maker sites within the Anasazi heartland. After the development of dendrochronology, and the dating of many Basket Maker sites in the Anasazi core area, the assumption of equivalent age between Anasazi Basket Maker and Great Basin "Basket Maker" sites was continued, as indicated below.

Based on his researches in Utah in the early 1930's, Julian H. Steward (1933a) divided Kidder's Northern Periphery into four subareas. The area drained by the northern tributaries of the Colorado River and lying west of the San Juan River (Steward's Area 4) was seen as part of a Northern Periphery, but

re-designated as the "Western Periphery." The rest of Utah was divided north-south along the crest of the Wasatch Mountains. East of the mountains was Area 1, vaguely divided into northern and southern sections with no definite dividing line. West of the Wasatch was Area 2, encompassing essentially the Sevier Lake drainage, and an Area 3 encompassing the Great Salt Lake drainage. The distinction between Areas 2 and 3 was made on the basis of house types (Steward 1933b) and differential artifact inventories (Steward 1936a).

In 1934, Gladwin and Gladwin (1934) proposed that the San Juan Anasazi culture "Stem" be divided into Kayenta and Nevada "branches," the Nevada "branch" being further divided into the Moapa and Parowan "Phases." Later, on the basis of pottery collections, Colton (1942) renamed the Nevada Branch, calling it the Virgin Branch (after the Virgin River), with three "foci": Muddy River, Lost City, and Mesa House, the latter two having earlier been proposed as "stages" by Harrington et al. (1930). Colton's Virgin Branch corresponds closely to Steward's (1933a) Area 4.

In her re-appraisal of the Fremont culture, and in her summary volume on the Southwest, H. Marie Wormington (1955, 1956:72-73) retained the concept of a Northern Periphery, but excluded the Virgin Branch from it. In 1956, Jennings et al. (1956) reconsidered the "Northern Periphery problem," retaining the term "Fremont" proper for Steward's Area 1 east of the Wasatch Mountains. This usage was followed by Taylor (1957) and Gunnerson (1969).

The concept of the eastern Great Basin as "peripheral" to the Southwest, together with the assumption that non-pottery bearing sites or cultural strata were coeval with the Basket Maker stage of the Anasazi "center" led Steward (1940) into a labyrinthine explanation of Great Basin prehistory. On typological grounds he posited cultural connections and

temporal contemporaneity between certain Great Basin cultures and the "Classical" Basket Maker Culture(s) of the Anasazi region. The same reasoning led him to see both the Puebloid cultures of western Utah and the Lovelock culture of western Nevada as derivative from "Classical" Basket Maker (Steward 1940:455, and Fig. 30). This was done despite the fact that several earlier writers had postulated an "early basic culture stratum" in the Great Basin, Southwest, and California antecedent to Basket Maker development (Lowie 1923; Kroeber 1923; Kelly 1932a; Zingg 1939). The primary problem lay in the lack of any applicable absolute dating methods in the Great Basin. Once radiometric dating was developed and several cave sites dated, notably Danger Cave (Jennings 1957), it was clear that the derivation of non-ceramic Great Basin cultures from Basket Maker cultures was untenable. In fact, the reverse appeared to be the case, that the Basket Maker-Pueblo tradition of the Southwest was derived from a much older and widespread Desert, or Western Archaic, culture (Jennings 1973; Irwin-Williams 1973), with the addition of cultigens and pottery. The history of the Desert Culture concept is considered below.

But despite the reversal, interpretations of the Puebloid cultures of Utah and eastern Nevada continued to be informed by the concept of a "Northern Periphery." Although Jennings and Norbeck (1955:8) proposed the abandonment of the term in the 1950's, it was not until the 1960's that proposals were put forth to completely abandon the idea of a "periphery" and accord the area a taxonomic status equivalent to the Anasazi, Mogollon, and Hohokam areas of the Southwest (Ambler 1966:170: Aikens 1972:64). Since these proposals were made, emphasis has been placed on defining subareas within the general "Fremont" area (Ambler 1966:169-287; Aikens 1972; Marwitt 1968) in terms of amalgams of prior Desert Archaic subcultures with

"Puebloid" traits—pottery, horticulture, pueblo villages, etc.

Genetic models relating to the Great Basin began in part with Lowie's (1923) early summary and speculations advanced by Krieger (1928). The first comprehensive model was advanced by Zingg (1939), who attempted to relate various archaeological complexes and Uto-Aztekan languages in Western North America and Mexico. Subsequent models were proposed by Romney (1957), Taylor (1961), and Hopkins (1965). A partial test of these models, especially as they relate to the "Numic Spread" hypothesis (Lamb 1958), has been advanced on ethnobiological grounds by C. Fowler (1972a, 1972b).

Other genetic models have focused on the Fremont cultures and their possible relationships with "Shoshonean" cultures. Most attention has been devoted to questions such as, Who were the carriers of the Fremont cultures? What happened to the cultures and peoples after ca. A.D. 1300? and, Can they be linked to, or regarded as, the ancestors of one, or more, historic groups?

Three hypotheses, with variations, have been advanced. One, proposed by Gunnerson (1962), Rudy (1953), Jennings and Norbeck (1955), Jennings (1957), and Taylor (1957), holds that the Fremont culture was an indigenous development from a Desert Culture base, with the addition of diffused traits from the Anasazi area. The Fremont culture existed for several hundred years and then broke down, due to changing environmental conditions. This forced a reversion to the older Desert Culture lifeways. Implicit in this hypothesis is the idea that the carriers of the Fremont culture(s) were the ancestors of the Numic-speaking peoples of historic times.

The second hypothesis (Steward 1933b; Wormington 1955) holds that the Fremont culture resulted from diffusion of traits from the Southwest to an indigenous population, plus some migrations from the Southwest.

After the culture collapsed, the people migrated back to the Anasazi area and were absorbed. The Fremont area was then occupied by historic Numic-speaking peoples.

A third hypothesis (Aikens 1966, 1967) holds that there was a migration of people from the Northwestern Great Plains who moved into the Great Basin and assimilated a small indigenous Archaic population. This amalgamated group then received, by diffusion, a number of traits from the Southwest. Subsequently, the Numic expansion from the western Great Basin pushed the Fremont folk onto the Great Plains where their presence is manifested archaeologically in the Dismal River culture (Gunnerson 1960). Historically, these people emerge as the Athapascan-speaking Plains Apache (Aikens 1972:63). All three hypotheses have been questioned on complex grounds, summarized by Aikens (1972), and Marwitt (1968). (See Madsen et al. [1979] for a more recent summary of the issues.)

The concept of the Desert Culture (later broadened to the Desert Archaic, and then to the Western Archaic), as formulated by Jennings (1957, 1964, 1974; Jennings and Norbeck 1955), has been the central focus of archaeological theorizing since the 1950's. The concept must necessarily be discussed in relation to an hypothesis concerning post-Pleistocene climatic fluctuation in western North America. This hypothesis was formulated by Ernst Antevs (1955) and has subsequently been modified (Baumhoff and Heizer 1965).

The hypothesis posits three sequential climatic periods since Wisconsin glacial times in the Desert West: the Anathermal, dating from ca. 9000 B.C. to 6000-5000 B.C., with climatic conditions at first like the present but growing warmer and drier; the Altithermal, from ca. 6000-5000 B.C. to ca. 2500 B.C., with arid climatic conditions, warmer and drier than at present; and the Medithermal, from ca. 2500 B.C. to the present, with a gradual amelior-

ation of the arid Altithermal climate to that of the present.

In the initial formulation of the Desert Culture concept, Jennings and Norbeck (1955:3) recognized the possible influence of such a climatic sequence:

Throughout most of the area of the Great Basin the pattern of living we have called the Desert Culture is established [by ca. 9000 B.C.]. For nearly ten millennia the same general pattern of life is followed, a nomadic wandering from valley to upland, to take advantage of the resources of nature. Although regular seasonal routes are followed, there are no permanent or substantial dwellings. Caves and rockshelters are used intermittently and many of the habitation sites are open.

As the climate varied, man appears to have continued life with little change by means of adjustment to different altitudes [italics added]. Essentially identical flora and fauna persisted to historic times, and following fluctuations in rainfall and lake levels, the range in altitude of man and the plants and animals he gathered also fluctuated.

Thus, under this hypothesis, despite climatic fluctuations, people continued to live in the Great Basin from ca. 9000 B.C. until historic times. Within this general framework, other scholars have defined regional traditions or cultures adapted to specific ecological settings, such as the lacustrine patterns around relict pluvial lakes (Weide 1968; Heizer and Napton 1970), mountain adaptations (Swanson 1974), and riverine adaptations (Daugherty 1962). (See also Hester 1973.) But despite proposed modifications and interpretation of details, the concept of the Desert Culture, or Western Archaic, remained the central conceptual framework in Great Basin prehistory (Jennings 1973; Aikens 1978a, 1978b; cf. Cressman 1977:passim for a variant interpretation).

In summary, between 1910 and the mid-1970's, studies of Great Basin prehistory were framed within an historicalist paradigm, and since the 1930's with an additional emphasis on cultural-environmental relationships, following the work of Steward (1936b, 1938, 1955b; cf. Murphy 1970).

PALEOENVIRONMENTAL STUDIES

As noted above, Great Basin prehistory as discussed between the 1950's and 1970's was framed within a model of Post-Pleistocene climatic change. However, it was clear that the model needed verification and possibly revision. During the 1960's and 1970's, much additional research was undertaken on paleoclimate and paleoenvironments within the Great Basin. Major summary papers include those by Morrison (1965), Baumhoff and Heizer (1965), Mehringer (1977), Weide and Weide (1977), Elston (1978), and Mifflin and Wheat (1979).

PRE-ARCHAIC OCCUPATIONS

The question of Pre-Archaic occupation of the Great Basin has been discussed for several decades. Reports of very early occupation at Tule Springs, Nevada, were subsequently disproven (Wormington and Ellis 1967). Surface finds of "Clovis" points and other early lithic complexes have provided tantalizing hints of "paleo-Indian" occupation within the Great Basin (Tuohy 1974). Despite extensive recent research (e.g., Davis 1978), the problem remains unsettled (see Watters 1979 for a summary of some of the problems).

HISTORIC ARCHAEOLOGY

Research on the archaeology of Euroamerican sites in the Great Basin is a relatively recent undertaking (e.g., Hardesty 1978a, 1978b, 1979; Fike and Headley 1979). So too is the archaeology of Post-Contact Native American sites. Few such sites have been systematically excavated. Those that have (Hattori 1975; Clewlow and Rusco 1972; Clewlow, Wells, and Ambro 1978) provide beginning baseline data for the study of acculturation in the Great Basin.

CULTURAL RESOURCE MANAGEMENT

The original version of this paper was essentially written prior to the watershed Cultural Resource Management Conference held in Denver, Colorado, in April, 1974 (Lipe and Lindsey 1974). Since that time, the conduct of archaeological research in the Great Basin, as elsewhere in the United States. has changed dramatically. Federal agencies and private entities have struggled to meet the requirements of federal historic preservation legislation and the mandate of Executive Order No. 11593. Numerous survey and excavation projects have been undertaken. The implications of cultural resource management in the Great Basin (and elsewhere) cannot be discussed herein (but see Fowler n.d.), but it is abundantly clear that there is a need for regional, possibly Basin-wide research designs. Since one purpose of the present paper is to elicit additional data for a more inclusive history of Great Basin anthropological research, readers are requested to bring key "CRM" reports (especially those of limited distribution) to the author's attention

NOTE

1. This article was originally prepared in 1974 as a contribution to the Great Basin volume of the new Smithsonian Handbook of North American Indians. Delays have been encountered in the publication of that volume. At the suggestion of the Journal editor, the article has been updated through 1979 and is published herein to elicit additional input from the profession. Scholars are encouraged to communicate additional data, comments, and suggestions to the author for incorporation into a revised version to be included in the Handbook.

REFERENCES

Aikens, C. Melvin

- 1966 Fremont-Promontory-Plains Relationships in Northern Utah. University of Utah Anthropological Papers No. 82.
- 1967 Plains Relationships of the Fremont: A Hypothesis. American Antiquity 32(2): 198-209.
- 1970 Hogup Cave. University of Utah Anthropological Papers No. 93.
- 1972 Fremont Culture: Restatement of Some Problems. American Antiquity 37(1): 61-67.
- 1978a The Far West. In: Ancient Native Americans, J.D. Jennings, ed., pp. 138-181.
 San Francisco: W. H. Freeman & Co.
- 1978b Archaeology of the Great Basin. Annual Review of Anthropology 7:71-87.

Aikens, C. Melvin, David L. Cole, and Robert Stuckenrath

1977 Excavations at Dirty Shame Rockshelter, Southeastern Oregon. Tebiwa No. 4.

Ambler, John Richard

1966 Caldwell Village and Fremont Prehistory. Unpublished Ph.D. dissertation in anthropology, University of Colorado, Boulder.

Antevs, Ernst

1955 Geologic-Climatic Dating in the West. American Antiquity 20(4):317-335.

Bancroft, H. H.

- 1875 The Native Races of the Pacific States: Myths and Languages. The Works of Hubert Howe Bancroft, Vol. 3. San Francisco: A. L. Bancroft and Co.
- 1875 The Native Races of the Pacific States: Wild Tribes. The Works of Hubert Howe Bancroft, Vol. 1. San Francisco: The History Co.

Barber, Edwin A.

- 1876 Language and Utensils of the Modern Utes. Bulletin of the U.S. Geological and Geographic Survey of the Territories 1876, 2(1):71-76. Washington, D.C.
- 1877 Gaming Among the Utah Indians. American Naturalist 11(6):351-353.

Barnes, Paul L.

1964 Archaeology of the Dean Site: Twin Falls County, Idaho. Washington State University, Laboratory of Anthropology, Report of Investigations 25.

Barrett, Samuel A.

1917 The Washo Indians. Bulletin of the Public Museum of the City of Milwaukee 2(1):1-52.

Baumhoff, Martin A., and Robert F. Heizer

1965 Postglacial Climate and Archaeology in the Desert West. In: The Quaternary of the United States, H. E. Wright, Jr., and D. G. Frey, eds., pp. 697-707. Princeton: Princeton University Press.

Bean, Lowell John

1972 Mukat's People. The Cahuilla Indians of Southern California. Berkeley: University of California Press.

Beckwith, E. G.

1855 Report of Explorations for a Route for the Pacific Railroad on the Line of the 41st Parallel of North Latitude [1854]. Executive Documents (Senate) 33rd Congress, 2nd Session, Document No. 78, Vol. 2, Part 2:1-108. Washington, D.C.

Bedwell, Stephen F.

1973 Fort Rock Basin Prehistory and Environment. Eugene: University of Oregon Books.

Bettinger, Robert L.

1976 The Development of Pinyon Exploitation in Central Eastern California.

Journal of California Anthropology 3(1):
81-95.

- 1977a Aboriginal Human Ecology in Owens Valley: Prehistoric Change in the Great Basin. American Antiquity 42(1):3-17.
- 1977b The Surface Archaeology of the Long Valley Caldera, Mono County, California. Riverside: University of California Archaeological Research Unit Monograph No. 1.

Boas, Franz

- 1895 Zur Anthropologie der nordamerikanischen Indianer. Verhandlungen der Gesellschaft fur Anthropologie, Ethnologie and Urgeschichte, pp. 367-411. Berlin.
- 1899 Anthropometry of Shoshonean Tribes. American Anthropologist, n.s., 1(4): 751-758.
- 1905 Anthropometry of Central California. American Museum of Natural History Bulletin 17:347-380.

Bolton, Herbert, ed.

1950 Pageant in the Wilderness: the Story of the Escalante Expedition to the Interior Basin, 1776, Including the Diary and Itinerary of Father Escalante. Utah Historical Quarterly 18(1-4):1-265.

Bowers, Alfred W., and C. N. Savage

- 1962 Primitive Man on Brown's Bench: His Environment and His Record. Idaho Bureau of Mines and Geology, Information Circular 14.
- Brooks, Sheilagh T., Melodye Galliher, and Richard H. Brooks
 - 1977 A Proposed Model for Paleodemography and Archaeology in the Great Basin. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences 12:169-194.

Butler, B. Robert

- 1968 A Guide to Understanding Idaho Archaeology. Rev. ed. Pocatello: Idaho State University Museum, Special Publication.
- 1978 A Guide to Understanding Idaho Archaeology. Third ed. Pocatello: Idaho Museum of Natural History.

- Campbell, E. W. C., W. H. Campbell, E. Antevs, C. A. Amsden, J. A. Barbieri, and F. D. Bode
 - 1937 The Archeology of Pleistocene Lake Mohave: a Symposium. Southwest Museum Papers No. 11.

Carvalho, S. N.

1858 Incidents of Travel and Adventure in the Far West: with Col. Frémont's Last Expedition Across the Rocky Mountains —1857. New York: Derby and Jackson.

Chamberlain, Ralph V.

- 1908 Animal Names and Anatomical Terms of the Goshiute Indians. Academy of Natural Sciences of Philadelphia, Proceedings 60:75-103.
- 1909 Some Plant Names of the Ute Indians. American Anthropologist 11(1):27-40.
- 1911 Ethno-botany of the Gosiute Indians of Utah. American Anthropological Association Memoirs 2(Pt. 5):329-405.
- 1913 Place and Personal Names of the Gosiute Indians of Utah. American Philosophical Society Proceedings 52(208):1-20.

Clemmer, Richard O.

1978 Pine Nuts, Cattle and the Ely Chain: Rip-Off Resource Replacement vs. Homeostatic Equilibrium. Ballena Press Publications in Archaeology, Ethnology and History No. 11:61-76.

Clewlow, C. W., Jr.

- 1967 Time and Space Relations of Some Great Basin Projectile Point Types. Berkeley: University of California Archaeological Survey Reports 70:141-149.
- Clewlow, C. William, Jr., and Mary Rusco, eds.

 1972 The Grass Valley Archeological Project:
 Collected Papers. Reno: Nevada Archeological Survey Research Papers No. 3.
- Clewlow, C. William, Jr., Helen Fairman Wells, and Richard D. Ambro
 - 1978 History and Prehistory at Grass Valley, Nevada. Los Angeles: University of California Institute of Archaeology Monograph No. 7.

Colton, Harold S.

1942 Archaeology and the Reconstruction of History. American Antiquity 8(1):1-33.

Coues, Elliot, ed.

1893 The History of the Expedition Under the Command of Lewis and Clark to the Sources of the Missouri River, Thence Across the Rocky Mountains and Down the Columbia River to the Pacific Ocean, Performed in the Years 1804-5-6 [1814]. New York: F. P. Harper.

Crapo, Richley H.

1970 Language Variation Among the Duckwater Shoshoni, Nevada. Unpublished Ph.D. dissertation in anthropology, University of Utah, Salt Lake City.

Cressman, Luther S.

1943 Results of Recent Archaeological Research in the Northern Great Basin Region of South Central Oregon. American Philosophical Society Proceedings 86(2):236-246.

1956 Klamath Prehistory: the Prehistory of the Culture of the Klamath Lake Area. American Philosophical Society Transactions 46(Pt. 4):375-515.

1977 Prehistory of the Far West: Homes of Vanished Peoples. Salt Lake City: University of Utah Press.

Cressman, Luther S., et. al.

1936 Archaeological Survey of the Guano Valley Region in Southeastern Oregon. University of Oregon Monographs, Studies in Anthropology 1:1-48.

1942 Archaeological Researches in the Northern Great Basin. Carnegie Institution of Washington Publications No. 538.

Dalley, Gardiner F.

1976 Swallow Shelter and Associated Sites.
University of Utah Anthropological
Papers No. 96.

Dangberg, Grace

1922 The Washo Language. Nevada State Historical Society Papers 3:145-152.

1927 Washo Texts. University of California Publications in American Archaeology and Ethnology 22(3):391-443.

Daugherty, Richard D.

1962 The Intermontane Western Tradition. American Antiquity 28(2):144-150.

Davis, Emma Lou, ed.

1978 The Ancient Californians. Rancholabrean Hunters of the Mojave Lakes Country. Natural History Museum of Los Angeles County, Science Series No. 29.

d'Azevedo, Warren L., ed.

1963 The Washo Indians of California and Nevada. University of Utah Anthropological Papers No. 67.

Downs, James F.

1961 Washo Religion. University of California Anthropological Records 16(9):365-385.

1966a The Two Worlds of the Washo, an Indian Tribe of California and Nevada. New York: Holt, Rinehart and Winston.

1966b The Significance of Environmental Manipulation in Great Basin Cultural Development. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences No. 1:39-56.

Elston, Robert G.

1971 A Contribution to Washo Archaeology. Nevada Archeological Survey Research Papers No. 2.

Elston, Robert G., ed.

1978 Holocene Environmental Change in the Great Basin. Nevada Archeological Survey Research Papers No. 6.

Euler, Robert C.

Southern Paiute Ethnohistory. University of Utah Anthropological Papers No. 78. Glen Canyon Series No. 28.

1967 Ethnographic Methodology: a Tri-Chronic Study in Culture Change, Informant Reliability, and Validity from the Southern Paiute. In: American Historical Anthropology—Essays in Honor of Leslie Spier, C. L. Riley and W. W. Taylor, eds., pp. 61-67. Carbondale: Southern Illinois University Press.

1972 The Paiute People. Phoenix: Indian Tribal Series.

Fagen, John L.

1974 Altithermal Occupation of Spring Sites in the Northern Great Basin. University of Oregon Anthropological Papers No. 6.

Fike, Richard E., and John W. Headley

1979 The Pony Express Stations in Utah in Historical Perspective. Bureau of Land Management, Utah Cultural Resource Series, Monograph No. 2.

Fowler, Catherine S.

1966 Environmental Setting and Natural Resources. In: Southern Paiute Ethnohistory, by R. C. Euler, pp. 13-31. University of Utah Anthropological Papers No. 78. Glen Canyon Series No. 28.

1972a Comparative Numic Ethnobiology. Unpublished Ph.D. dissertation in anthropology, University of Pittsburgh.

1972b Some Ecological Clues to Proto-Numic Homelands. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences No. 8:105-121.

Fowler, Catherine S., comp.

1969 Great Basin Anthropology—a Bibliography. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences and Humanities No.

Fowler, Catherine S., and Joy Leland

1967 Some Northern Paiute Native Categories. Ethnology 6(4):381-403.

Fowler, Don D.

1966 Great Basin Social Organization. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences and Humanities No. 1:57-74.

n.d. Cultural Resource Management. In:
Method and Theory in Archaeology,
Vol. 4, Michael Schiffer, ed. (in
preparation).

Fowler, Don D., and Catherine S. Fowler

1969 John Wesley Powell, Anthropologist. Utah Historical Quarterly 37(2):152-172.

Fowler, Don D., and Catherine S. Fowler, eds.

1970 Stephen Power's "The Life and Culture of the Washo and Paiutes." Ethnohistory 17(3-4):117-149.

1971 Anthropology of the Numa: John Wesley Powell's Manuscripts on the Numic Peoples of Western North America, 1868-1880. Smithsonian Contributions to Anthropology No. 14.

Fowler, Don D., David B. Madsen, and Eugene M. Hattori

1973 Prehistory of Southeastern Nevada. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences No. 6.

Fowler, Don D., and John F. Matley

1978 The Palmer Collection from Southwestern Utah, 1875. University of Utah Anthropological Papers No. 99 (Miscellaneous Paper No. 20).

1979 Material Culture of the Numa: the John Wesley Powell Collection, 1867-1880. Smithsonian Contributions to Anthropology No. 26.

Freed, Stanley A.

1960 Changing Washo Kinship. University of California Anthropological Records 14(6): 349-418.

1963 A Reconstruction of Aboriginal Washo Social Organization. University of Utah Anthropological Papers No. 67:8-24.

Freed, Stanley A., and Ruth Freed

1963 A Configuration of Aboriginal Washo Culture. University of Utah Anthropological Papers No. 67:41-56.

Gallatin, Albert

1836 A Synopsis of the Indian Tribes of North America. Archaeologica Americana, Transactions and Collections of the American Antiquarian Society 2:1-422. Gallatin, Albert, ed.

1848 Hale's Indians of North-west America and Vocabularies of North America. American Ethnological Society Transactions 2:iii-clxxxviii, 1-130.

Gillin, John P.

1940 Archaeological Investigations in Central Utah. Harvard University Peabody Museum of American Archaeology and Ethnology Publications 17(2).

Gladwin, Harold S., and Winifred Gladwin

1934 A Method for the Designation of Cultures and Their Variations. Globe: Gila Pueblo Medallion Papers 15.

Goss, James A.

- 1961 A Short Dictionary of the Southern Ute Language. Ignacio, Colorado: Southern Ute Tribe.
- 1968 Culture-Historical Inference from Utaztekan Linguistic Evidence. Occasional Papers of the Idaho State University Museum No. 22:1-42.
- 1972a A Basin-Plateau Shoshonean Ecological Model. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences No. 8:123-128.
- 1972b Ute Lexical and Phonological Patterns. Unpublished Ph.D. dissertation in anthropology. University of Chicago.

Grosscup, Gordon L.

1960 The Culture History of Lovelock Cave, Nevada. Berkeley: University of California Archaeological Survey Report No. 52.

Gruhn, Ruth

1961 The Archaeology of Wilson Butte Cave, South Central Idaho. Occasional Papers of the Idaho State College Museum No. 6.

Gunnerson, James H.

1957 An Archeological Survey of the Fremont Area. University of Utah Anthropological Papers No. 28.

- 1959 The Utah Statewide Archeological Survey: its Background and First Ten Years. Utah Archeology 5(4):3-16.
- 1960 The Fremont Culture: Internal Dimensions and External Relationships. American Antiquity 25(3):373-380.
- 1962 Plateau Shoshonean Prehistory: A Suggested Reconstruction. American Antiquity 28(1):41-45.
- 1969 The Fremont Culture, a Study in Culture Dynamics on the Northern Anasazi Frontier. Harvard University Peabody Museum of Archaeology and Ethnology Papers 59(2).

Handelman, Don

- 1967a The Development of a Washo Shaman. Ethnology 6(4):444-461.
- 1967b Transcultural Shamanic Healing: a Washo Example. Ethnos 32(1-4):149-166.
- 1968 Shamanizing on an Empty Stomach. American Anthropologist 70(2):353-356.

Hardesty, Donald L.

- 1978a Historical and Archaeological Investigations of the Rock Creek Stage and Telegraph Station. Carson City: Carson District, Nevada, Bureau of Land Management.
- 1978b Historical, Architectural and Archaeological Studies of Fort Churchill, Nevada. Carson City: Nevada Division of State Parks.
- 1979 The Pony Express in Central Nevada. Archaeological and Documentary Perspectives. Bureau of Land Management, Nevada, Cultural Resource Series No. 1.

Harrington, Mark R.

- 1933 Gypsum Cave, Nevada. Southwest Museum Papers No. 8.
- 1936 Smith Creek Cave. The Masterkey 10(5): 192.
- 1948 An Ancient Site at Borax Lake, California. Southwest Museum Papers No. 16.

1957 A Pinto Site at Little Lake, California. Southwest Museum Papers No. 17.

Harrington, Mark R., et al.

1930 Archaeological Explorations in Southern Nevada: Report of the First Sessions Expedition, 1929. Southwest Museum Papers No. 4.

Harris, Jack

1940 The White Knife Shoshoni of Nevada. In: Acculturation in Seven American Indian Tribes, R. Linton, ed., pp. 39-166. New York: D. Appleton-Century Company, Inc.

Harris, Marvin

1968 The Rise of Anthropological Theory. New York: Thomas Y. Crowell Co.

Hattori, Eugene M.

1975 Northern Paiutes on the Comstock: Archeology and Ethnohistory of an American Indian Population in Virginia City, Nevada. Nevada State Museum Occasional Papers No. 2.

Heizer, Robert F.

1951 Preliminary Report on the Leonard Rockshelter Site, Pershing Co., Nevada, American Antiquity 17(2):89-98.

Heizer, Robert F., ed.

- 1954 Notes on the Utah Utes by Edward Palmer, 1866-1877. University of Utah Anthropological Papers No. 17:1-8.
- 1962 Notes on the Utah Utes by Edward Palmer, 1866-1877. Utah Archeology 8(3):7-14.
- 1966 Ethnographic Notes on California Indian Tribes, by C. Hart Merriam. Berkeley: University of California Archaeological Survey Reports No. 68, Pt. 1.

Heizer, Robert F., and Martin A. Baumhoff 1961 The Archaeology of Wagon Jack Shelter. University of California Anthropological Records 20(4):119-138.

Heizer, Robert F., Martin A. Baumhoff, and C. William Clewlow, Jr.

1968 The Archaeology of South Fork Shelter (NV-EL-11), Elko County, Nevada. Berkeley: University of California Archaeological Survey Report No. 71: 1-58

Heizer, Robert F., and Rainer Berger

1970 Radiocarbon Age of the Gypsum Culture. Berkeley: University of California Archaeological Research Facility Contribution No. 7:13-18.

Heizer, Robert F., and Thomas R. Hester

1978 Great Basin Projectile Points: Forms and Chronology. Ballena Press Publications in Archaeology, Ethnology and History No. 10.

Heizer, Robert F., and Alex D. Krieger

1956 The Archaeology of Humboldt Cave, Churchill County, Nevada. University of California Publications in American Archaeology and Ethnology 47(1):10-190.

Heizer, Robert F., and Lewis K. Napton

1970 Archaeological Investigations in Lovelock Cave, Nevada. Berkeley: University of California Archeological Research Facility Contribution No. 10.

Hester, Thomas R.

1973 Chronological Ordering of Great Basin Prehistory. Berkeley: University of California Archaeological Research Facility Contribution No. 17

Hittman, Michael

1973 Ghost Dances, Disillusionment and Opiate Addiction: an Ethnohistory of Smith and Mason Valley Paiutes. Unpublished Ph.D. dissertation in anthropology, University of New Mexico, Albuquerque.

Hoebel, E. Adamson

1935 The Sun Dance of the Hekandika Shoshone. American Anthropologist 37(4): 570-581. 1938 Bands and Distributions of the Eastern Shoshone. American Anthropologist 40(3):385-415.

Hoffman, Walter J.

- 1876 Miscellaneous Ethnographic Observations. Annual Report of the Canadian Geological and Natural History Survey 10:461-478.
- 1878 Miscellaneous Ethnological Observations on Indians Inhabiting Nevada, California, and Arizona. In: Tenth Annual Report of the United States Geological and Geographical Survey of the Territories, by F. V. Hayden, Pt. 3 (Archaeology and Ethnology), pp. 461-478. Washington, D.C.

Holmes, William Henry

1886 Pottery of the Ancient Pueblos. Washington, D.C.: Bureau of Ethnology, Annual Report 4:265-360.

Hopkins, Nicholas A.

1965 Great Basin Prehistory and Uto-Aztecan. American Antiquity 31(1):48-60.

Hopkins, Sarah Winnemucca

1883 Life Among the Paiutes: Their Wrongs and Claims. Boston: Cupples, Upham and Co.; New York: G. P. Putnam's Sons.

Houghton, Ruth M.

1973 Adaptive Strategies in an American Indian Reservation Community: the War on Poverty, 1965-1971. Unpublished Ph.D. dissertation, University of Oregon, Eugene.

Hultkrantz, Åke

- 1953 Conceptions of the Soul among North American Indians. Stockholm: Ethnographical Museum of Sweden, Monograph Series Publications I.
- 1960 Religious Aspects of the Wind River Shoshoni Folk Literature. In: Culture in History, Stanley Diamond, ed., pp. 552-569. New York: Columbia University Press.
- 1961 The Shoshones in the Rocky Mountain Area. Annals of Wyoming 33(1):19-41.

Hunt, Alice P.

1960 Archeology of the Death Valley Salt Pan, California. University of Utah Anthropological Papers No. 47.

Irwin-Williams, Cynthia

1973 The Oshara Tradition: Origins of Anasazi Culture. Eastern New Mexico University Contributions in Anthropology 5(1): 1-28.

Ives, Joseph Christmas

1861 Report Upon the Colorado River of the West, Explored in 1857 and 1858. Executive Documents (House), 36th Congress, 1st Session. Document No. (Unnumbered). Washington, D.C.

Jacobsen, William H., Jr.

- 1960 Washo Linguistic Studies. Reno: University of Nevada Desert Research Institute, Social Sciences and Humanities Publications No. 1:113-136.
- 1964 A Grammar of the Washo Language. Unpublished Ph.D. dissertation in linguistics, University of California, Berkeley.

Jennings, Jesse D.

- 1957 Danger Cave. University of Utah Anthropological Papers No. 27. (Also Society for American Archaeology Memoir 14.)
- 1964 The Desert West. In: Prehistoric Man in the New World, J. D. Jennings and E. Norbeck, eds., pp. 149-174. Chicago: University of Chicago Press.
- 1966 Glen Canyon: a Summary. University of Utah Anthropological Papers No. 81. (Glen Canyon Series No. 31).
- 1973 The Short Useful Life of a Simple Hypothesis. Tebiwa 13(1):1-9.
- 1974 Prehistory of North America. Second ed. New York: McGraw-Hill Co.

Jennings, Jesse D., and Edward Norbeck

1955 Great Basin Prehistory; a Review. American Antiquity 21(1):1-11.

Jennings, Jesse D., et al.

1956 The American Southwest: a Problem in Cultural Isolation. In: Seminars in Archaeology: 1955, R. Wauchope, ed., pp. 59-128. Society of American Archaeology Memoir 11.

Johnson, Edward

1975 Walker River Paiutes, a Tribal History. Schurz, Nevada: Walker River Paiute Tribe.

Jorgensen, Joseph G.

- 1959 The Functions of Ute Folklore. Unpublished M.A. thesis in anthropology, University of Utah, Salt Lake City.
- 1964 Ethnohistory and Acculturation of the Northern Ute. Unpublished Ph.D. dissertation in anthropology. Indiana University, Bloomington.
- 1972 The Sun Dance Religion. Power for the Powerless. Chicago: University of Chicago Press.

Judd, Neil M.

1926 Archeological Observations North of the Rio Colorado. Bureau of American Ethnology Bulletin 82.

Kelly, Isabel T.

- 1932a Fundamentals of Great Basin Culture. Unpublished Ph.D. dissertation in anthropology, University of California, Berkeley.
- 1932b Ethnography of the Surprise Valley Paiute. University of California Publications in American Archaeology and Ethnology 31(3):67-210.
- 1939 Southern Paiute Shamanism. University of California Anthropological Records 2(4):151-167.
- 1964 Southern Paiute Ethnography. University of Utah Anthropological Papers No. 69. (Glen Canyon Series No. 21).

Kennedy, Kenneth A. R.

1939 The Aboriginal Population of the Great Basin. Berkeley: University of California Archaeological Survey Reports 45:1-84.

Kidder, Alfred V.

- 1924 An Introduction to the Study of Southwestern Archaeology. Phillips Academy Southwestern Expedition Papers 1.
- 1927 Southwestern Archaeology Conference. Science 66 (1716):589-591.

Kroeber, Alfred L.

- 1901 Ute Tales. Journal of American Folklore 14(55):252-285.
- 1907 The Washo Language of East Central California and Nevada. University of California Publications in American Archaeology and Ethnology 4(5):251-316.
- 1908 Notes on the Ute Language. American Anthropologist 10(1):74-87.
- 1923 The History of Native Culture in California. University of California Publications in American Archaeology and Ethnology 20(8):125-142.
- 1939 Cultural and Natural Areas of Native North America. University of California Publications in American Archaeology and Ethnology 38(1):1-242.

Laird, Carobeth

1976 The Chemehuevis. Banning, California: Malki Museum Press.

Lamb, Sydney M.

- 1958 Linguistic Prehistory in the Great Basin. International Journal of American Linguistics 24:95-100.
- 1964 The Classification of the Uto-Aztecan Languages: A Historical Survey. University of California Publications in Linguistics 34:106-125.

Lang, Gottfried O.

- 1953 A Study in Culture Contact and Culture Change: the Whiterock Utes in Transition. University of Utah Anthropological Papers No. 15.
- 1954 The Ute Development Program: a Study of Culture Change in an Underdeveloped Area Within the United States. Unpub-

lished Ph.D. dissertation in anthropology, Cornell University, Ithaca.

Lanning, Edward P.

1963 Archaeology of the Rose Springs Site, INY-372. University of California Publications in American Archaeology and Ethnology 49(3):237-336.

Lawton, Harry W., Philip J. Wilke, Mary DeDecker, and William M. Mason

1976 Agriculture Among the Paiute of Owens Valley. Journal of California Anthropology 3:13-50.

Layton, Thomas N.

- 1970 High Rock Archaeology: an Interpretation of the Prehistory of the Northwestern Great Basin. Ph.D. dissertation, Harvard University.
- 1979 Archaeology and Paleo-Ecology of Pluvial Lake Parman, Northwestern Great Basin. Journal of New World Archaeology 3(3):41-56.

Layton, Thomas N., and David Hurst Thomas
1979 The Archaeology of Silent Snake
Springs, Humboldt County, Nevada.
American Museum of Natural History
Anthropological Papers 55, (Pt. 3):249270.

Lee, Shirley W.

1967 A Survey of Acculturation in the Intermontane Area of the United States. Occasional Papers of the Idaho State University Museum 19.

Leis, Philip E.

1963 Washo Witchcraft: a Test of the Frustration-Aggression Hypothesis. University of Utah Anthropological Papers No. 67:57-68.

Liljeblad, Sven

Indian People of Idaho. In: History of Idaho, S. Beal and M. Wells, eds. pp. 29-59. Pocatello: Lewis Historical Publishing Co.

Lipe, William D., and Alexander J. Lindsey, Jr., eds.

1974 Proceedings of the 1974 Cultural Resource Management Conference, Federal Center, Denver, Colorado. Museum of Northern Arizona, Technical Series No. 14.

Loew, Oscar

1876 Notes Upon Ethnology of Southern California and Adjacent Regions. In: Annual Report Upon the Geographical Surveys West of the One Hundredth Meridian, in California, Nevada, Utah, Colorado, Wyoming, New Mexico, Arizona and Montana (under George M. Wheeler). Annual Report of the Chief of Engineers for 1876, Appendix JJ, pp. 321-328. Washington, D.C.

Loud, L. L., and Mark R. Harrington

1929 Lovelock Cave. University of California Publications in American Archaeology and Ethnology 25(1):1-183.

Lowie, Robert H.

- 1909 The Northern Shoshone. American Museum of Natural History Anthropological Papers 2(2):165-306.
- 1923 The Cultural Connections of Californian and Plateau Shoshonean Tribes. University of California Publications in American Archaeology and Ethnology 20(9): 145-156.
- 1924a Notes on Shoshonean Ethnography. American Museum of Natural History Anthropological Papers 20(3):185-314.
- 1924b Shoshonean Tales. Journal of American Folklore 37 (143-144):1-242.
- 1939 Ethnographic Notes on the Washo. University of California Publications in American Archaeology and Ethnology 36(5):301-352.
- 1960 Robert H. Lowie, Ethnologist: a Personal Record. Berkeley and Los Angeles: University of California Press.

1963 Washo Texts. Anthropological Linguistics 5(7):1-30.

Lynch, Robert N.

- 1971 Politics in a Northern Paiute Community.
 Unpublished Ph.D. dissertation in anthropology, University of Minnesota, Minneapolis.
- 1978 Cowboys and Indians: an Ethnohistorical Portrait of Indian-White Relations on Ranches in Western Nevada. Ballena Press Publications in Archaeology, Ethnology and History No. 11:51-60.

Macomb, J. N.

- 1876 Report of the Exploring Expedition from Santa Fe, New Mexico to the Junction of the Grand and Green Rivers of the Great Colorado of the West, in 1859. Washington: Government Printing Office.
- Madsen, David B., J. M. Adovasio, C. Melvin Aikens, and John P. Marwitt
 - 1979 New Views on the Fremont. American Antiquity 44(4):711-739.

Malouf, Carling

- 1940 The Gosiute Indians. Archaeology and Ethnology Papers 3. Salt Lake City. Reissued, 1950, as University of Utah Anthropological Papers No. 3.
- 1966 Ethnohistory in the Great Basin. Desert Research Institute Social Sciences and Humanities Publications 1:1-38.

Malouf, Carling, and Elmer R. Smith

1942 Some Gosiute Mythological Characters and Concepts. Utah Humanities Review 1(4):369-377.

Manners, Robert

1974 Paiute Indians I. Southern Paiute and Chemehuevi. An Ethnohistorical Report. New York: Garland Series in American Indian Ethnohistory.

Marwitt, John P.

1971 Median Village and Fremont Regional Variation. University of Utah Anthropological Papers No. 95.

McGonagle, Roberta L.

1979 Surface Archeology at High Rock Lake. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences No. 14.

Mehringer, Peter J., Jr.

1977 Great Basin Late Quaternary Environments and Chronology. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences No. 12:113-167.

Meighan, C. W.

1956 Archeological Excavations in Iron County, Utah. University of Utah Anthropological Papers No. 25.

Merriam, C. Hart

- 1930- Washo Vocabulary and Washo Vocab 1935 ulary of Flora and Fauna. Collected in
 1903, 1904, 1935. Unpublished manuscript, Department of Anthropology,
 University of California, Berkeley.
- 1955 Studies of California Indians. Berkeley: University of California Press.

Mifflin, M.D., and M. M. Wheat

1979 Pluvial Lakes and Estimated Pluvial Climates of Nevada. Nevada Bureau of Mines and Geology Bulletin No. 94.

Miller, Wick R.

1966 Anthropological Linguistics in the Great Basin. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences and Humanities No. 1:75-112.

Miller, Wick R., comp.

1972 Newe Natekwinappeh: Shoshoni Stories and Dictionary. University of Utah Anthropological Papers No. 94.

Miller, W. R., J. L. Tanner, and L. P. Foley

1971 A Lexicostatistic Study of Shoshoni Dialects. Anthropological Linguistics 13(4): 142-164.

Montgomery, Henry

1894 Prehistoric Man in Utah. The Archaeologist 2(8):227-234; (10):289-306; (11): 335-342. Waterloo, Iowa. Mooney, James

Outbreak of 1890. Bureau of American Ethnology Annual Report No. 14 (Pt. 2): 641-1110.

Mordy, Brooke D.

1966 A Conflict Over Right of Residence [Washo]. Unpublished M.A. thesis in Sociology and Anthropology, University of Nevada, Reno.

Morrison, Roger B.

1965 Quaternary Geology of the Great Basin.
 In: The Quaternary of the United States,
 H. E. Wright, Jr., and D. G. Frey, eds.,
 pp. 265-286. Princeton: Princeton University Press.

Morss, Noel

1931 The Ancient Culture of the Fremont River in Utah. Peabody Museum (Harvard University) of American Archaeology and Ethnology Publications 12(3): 1-81.

Murphy, Robert F.

1970 Basin Ethnography and Ecological Theory. In: Languages and Cultures of Western North America, Essays in Honor of Sven S. Liljeblad, E. H. Swanson, Jr., ed., pp. 152-171. Pocatello: Idaho State University Press.

Murphy, Robert F., and Yolanda Murphy
1960 Shoshone-Bannock Subsistence and

Society. University of California Anthropological Records 16(7):293-338.

Nevada Intertribal Council

1974a Life Stories of Our Native People. Shoshone, Paiute, Washo. Salt Lake City: University of Utah Printing Service, for the Nevada Intertribal Council.

1974b Personal Reflections of the Shoshone, Paiute and Washo. Salt Lake City: University of Utah Printing Service, for the Nevada Intertribal Council.

Norquist, Bill, ed.

1977 et seq. Idaho Archaeologist, vols. 1-3. Nampa: Idaho Archaeology Society. O'Connell, James F.

1975 Prehistory of Surprise Valley. Ballena Press Anthropological Papers No. 4.

Olofson, Harold

1979 Northern Paiute Shamanism Revisited. Anthropos 74:11-24.

Palmer, Edward

1876 Exploration of a Mound in Utah. American Naturalist 10(8):410-414.

1878 Cave Dwellings in Utah. Eleventh Annual Report of the Trustees of the Peabody Museum of American Archaeology and Ethnology 2(2):269-272.

Park, Willard Z.

1938 Shamanism in Western North America. Northwestern University Studies in the Social Sciences 2.

Pavesic, Max G., Mark G. Plew, and Roderick Sprague

1979 A Bibliography of Idaho Archaeology. Northwest Anthropological Research Notes Memoir No. 5.

Powell, John Wesley

1891 Indian Linguistic Families of America North of Mexico. Bureau of American Ethnology Annual Report 7:1-142.

Powell, John Wesley, and George W. Ingalls

1874 Report of Special Commissioners J. W. Powell and G. W. Ingalls on the Condition of the Ute Indians of Utah; the Paiutes of Utah, Northern Arizona, Southern Nevada, and Southeastern California; the Northwestern Shoshones. Washington: Government Printing Office.

Powers, Stephen

1877 Centennial Mission to the Indians of Western Nevada and California. Smithsonian Institution, Annual Report, 1876: 449-460.

Price, John A.

1962 Washo Economy. Nevada State Museum Anthropological Papers No. 6. Putnam, Frederic Ward, et al.

1879 Archaeology. Report of the U.S. Geographical Survey West of the 100th Meridian 7:1-497.

Ray, Verne F., and Nancy O. Lurie

1954 The Contributions of Lewis and Clark to Ethnography. Journal of the Washington Academy of Sciences 44:358-370.

Remy, J., and J. Brenchley

1861 A Journey to the Great Salt Lake City, with a Sketch of the History, Religion, and Customs of the Mormons, and an Introduction on the Religious Movement in the United States. 2 vols. London: W. Jeffs.

Robertson, Cheri, comp.

1977 After the Drying Up of the Water. Fallon Nevada: The Fallon Paiute-Shoshone Tribe.

Rohn, Arthur H.

1973 The Southwest and Intermontane West, In: The Development of North American Archaeology, James E. Fitting, ed., pp. 185-212. Garden City: Anchor Press/ Doubleday.

Romney, A. Kimball

1957 The Genetic Model and Uto-Aztecan Time Perspective. Davidson Journal of Anthropology 3(2):35-41.

Rudy, Jack R.

1953 Archaeological Survey of Western Utah. University of Utah Anthropological Papers No. 12.

Sapir, Edward

1910a Song Recitative in Paiute Mythology. Journal of American Folklore 23(90): 455-472.

1910b Two Paiute Myths. University of Pennsylvania Museum Journal 1:15-18.

1913 Southern Paiute and Nahuatl, a Study of Uto-Aztecan. I. Journal de la Société des Americanistes de Paris. 10:379-425; 11: 443-488. 1930-31 Southern Paiute, a Shoshonean Language; Texts of the Kaibab Paiute and Uintah Utes; Southern Paiute Dictionary. American Academy of Arts and Sciences Proceedings 65:1-730.

Schellbach, Louis, III

1967 The Excavation of Cave No. 1, Southwestern Idaho, [1929] Tebiwa 10(2): 63-72.

Scotch, Norman A., and Freda L. Scotch

1963 Social Factors in Hypertension among the Washo. University of Utah Anthropological Papers No. 67:69-76.

Service, Elman R.

1962 Primitive Social Organization: an Evolutionary Perspective. New York: Random House.

Shimkin, Demitri B.

1939 Some Interactions of Culture, Needs, and Personalities among the Wind River Shoshone. Unpublished Ph.D. dissertation in anthropology, University of California, Berkeley.

1947 Wind River Shoshone Ethnogeography. University of California Anthropological Records 5(4):245-288.

Shimkin, Demitri B., and Russell M. Reid

1970 Socio-Cultural Persistence Among Shoshoneans of the Carson River Basin (Nevada). In: Languages and Cultures of Western North America, Essays in Honor of Sven S. Liljeblad, E. H. Swanson, Jr., ed., pp. 172-200. Pocatello: Idaho State University Press.

Shutler, Richard, Jr.

1961 Lost City: Pueblo Grande de Nevada. Nevada State Museum Anthropological Papers No. 5.

Shutler, Mary E., and Richard Shutler, Jr.

1963 Deer Creek Cave, Elko County, Nevada. Nevada State Museum Anthropological Papers No. 11.

- Shutler, Richard, Jr., Mary E. Shutler, and James S. Griffith
 - 1960 Stuart Rockshelter: a Stratified Site in Southern Nevada. Nevada State Museum Anthropological Papers No. 3.

Siskin, Edgar C.

1941 The Impact of the Peyote Cult upon Shamanism among the Washo Indians. Unpublished Ph.D. dissertation in anthropology, Yale University, New Haven.

Smith, Anne M. Cooke

- 1937 The Material Culture of the Northern Ute. Unpublished M.A. thesis in anthropology, Yale University, New Haven.
- 1940 An Analysis of Basin Mythology. Unpublished Ph.D. dissertation in anthropology, Yale University, New Haven.
- 1974 Ethnography of the Northern Utes. Museum of New Mexico Papers in Anthropology 17.

Stansbury, Howard

1852 Exploration and Survey of the Valley of the Great Salt Lake of Utah, Including a Reconnaissance of a new Route through the Rocky Mountains. Philadelphia: Lippincott, Grambo and Co.

Steward, Julian H.

- 1933a Archaeological Problems of the Northern Periphery of the Southwest. Museum of Northern Arizona Bulletin 5:1-24.
- 1933b Early Inhabitants of Western Utah, Part I, Mounds and House Types. University of Utah Bulletin 23(7):1-34.
- 1933c Ethnography of the Owens Valley Paiute. University of California Publications in American Archaeology and Ethnology 33(3):233-350.
- 1936a Pueblo Material Culture in Western Utah. University of New Mexico Bulletin. Anthropological Series 1(3):1-64.
- 1936b The Economic and Social Basis of Primitive Bands. In: Essays in Anthropology Presented to Alfred L. Kroeber, R. H.

- Lowie, ed., pp. 331-350. Berkeley: University of California Press.
- 1937 Ancient Caves of the Great Salt Lake Region. Bureau of American Ethnology Bulletin 116.
- 1938 Basin-Plateau Aboriginal Sociopolitical Groups. Bureau of American Ethnology Bulletin 120.
- 1939 Changes in Shoshonean Indian Culture. Scientific Monthly 49(12):524-537.
- 1940 Native Cultures of the Intermontane (Great Basin) Area. Smithsonian Miscellaneous Collections 100:445-502.
- 1941 Culture Element Distributions: XIII, Nevada Shoshoni. University of California Anthropological Records 4(2): 209-259.
- 1943 Culture Element Distributions: XXIII, Northern and Gosiute Shoshoni. University of California Anthropological Records 8(3):263-392.
- 1955a Aboriginal and Historic Groups of the Ute Indians of Utah: an Analysis. Unpublished manuscript prepared for U.S. Department of Justice, Indian Claims Commission, Washington.
- 1955b Theory of Culture Change. Urbana: University of Illinois Press.
- 1970 The Foundations of Basin-Plateau Shoshonean Society. In: Languages and Cultures of Western North America, essays in Honor of Sven S. Liljeblad, E. H. Swanson, Jr., ed., pp. 113-151. Pocatello: Idaho State University Press.

Steward, Julian H., and Erminie W. Voegelin

1954 The Northern Paiute Indians. Unpublished manuscript, prepared for the Department of Justice, Lands Division, Indian Claims Section, in the Northern Paiute Case, Dockets No. 87 and 17, before the Indian Claims Commission. (Copy available in Nevada and the West Collection, University of Nevada, Reno Library.)

Stewart, Omer C.

- 1941 Culture Element Distributions: XIV, Northern Paiute. University of California Anthropological Records 4(3):361-446.
- 1944 Washo-Northern Paiute Peyotism. A Study in Acculturation. University of California Publications in American Archaeology and Ethnology 40(3):63-142.
- 1966 Tribal Distributions and Boundaries in the Great Basin. Desert Research Institute Publications in the Social Sciences and Humanities No. 1:167-237.
- 1968 Peyote Documents of Nevada and California of Omer C. Stewart, 1938-1964. Unpublished files, Nevada and the West Collection, University of Nevada, Reno Library.

Swanson, Earl H., Jr.

1974 Birch Creek. Human Ecology in the Cool Desert of the Northern Rocky Mountains 9000 B.C.-A.D. 1850. Pocatello: Idaho State University Press.

Taylor, Dee C.

- 1954 The Garrison Site: a Report of Archeological Excavations in Snake Valley, Nevada-Utah. University of Utah Anthropological Papers No. 26.
- 1957 Two Fremont Sites and Their Position in Southwestern Prehistory. University of Utah Anthropological Papers No. 29.

Taylor, Walter W.

1961 Archaeology and Language in Western North America. American Antiquity 28(1):71-81.

Thomas, David H.

1979 Archaeology. New York: Holt, Rinehart and Winston.

Thomas, David H., and Robert Bettinger

1976 Prehistoric Pinyon-Ecotone Settlements of the Upper Reese River Valley, Central Nevada. American Museum of Natural History Anthropological Papers 53, (Pt. 3):263-366.

Tuohy, Donald R.

- 1962 Archaeological Survey in Southwestern Idaho and Northern Nevada. Nevada State Museum Anthropological Papers No. 8.
- 1974 A Comparative Study of Late Paleoindian Manifestations in the Great Basin. Nevada Archeological Survey Research Papers 5:91-116.
- 1980 Prehistory of Pyramid Lake. Nevada State Museum Anthropological Papers. [In press.]

Tuohy, Donald R., and Doris Rendall, eds.

1979 The Archaeology of Smith Creek Canyon, Eastern Nevada. Nevada State Museum Anthropological Papers No. 17.

Tyler, Stephen

1968 The Wilkes expedition: First United States Exploring Expedition (1838-1842). American Philosophical Society Memoirs 73.

Voget, Fred W.

- 1948 Individual Motivation in the Diffusion of the Wind River Shoshone Sun-dance to the Crow Indians. American Anthropologist 50(4):634-645.
- 1953 Current Trends in the Wind River Shoshone Sun Dance. Anthropological Paper 42, Bureau of American Ethnology Bulletin 151:485-497.

Wallace, William J.

- 1962 Prehistoric Cultural Development in the Southern California Deserts. American Antiquity 28:172-180.
- 1977 A Half Century of Death Valley Archaeology. Journal of California Anthropology 4:249-258.

Warren, Claude N.

1967 The San Dieguito Complex: a Review and Hypothesis. American Antiquity 32:168-185.

Warren, Claude N., and H. T. Ore

1978 Approach and Process of Dating Lake Mohave Artifacts. Journal of California Anthropology 5:179-187. Watters, David R.

1979 On the Hunting of "Big Game" by Great Basin Aboriginal Populations. Journal of New World Archaeology 3(3):57-64.

Weide, David L., and Margaret L. Weide

1977 Time, Space, and Intensity in Great Basin Paleoecological Models. Desert Research Institute Publications in the Social Sciences 12:79-111.

Weide, Margaret L.

1968 Cultural Ecology of Lakeside Adaptation in the Western Great Basin. Unpublished Ph.D. dissertation in anthropology, University of California, Los Angeles.

1975 North Warner Subsistence Network. A Prehistoric Band Territory. Nevada Archeological Survey Research Paper No. 5:62-79.

Wheat, Margaret M.

1967 Survival Arts of the Primitive Paiutes, Reno: University of Nevada Press.

Wheeler, George

1856 [Report of] Upon the Route Near the 35th Parallel. Vol. III of Explorations and Surveys to Ascertain the Most Practicable and Economical Route for the Railroad from the Mississippi River to the Pacific Ocean, made under the Secretary of War in 1853-54. Executive Documents (Senate) 33rd Congress, 2nd Session, Document No. 78, Vols. 1-12. Washington: Government Printing Office.

Wheeler, S. M.

1939 Split-twig Figurines. The Masterkey 13(2):42-45.

1942 The Archeology of Etna Cave, Lincoln County, Nevada. Carson City: Nevada State Parks. (Reprinted, 1973, University of Nevada Desert Research Institute Publications in the Social Sciences No. 7.)

Whiting, Beatrice Blyth

1950 Paiute Sorcery. Viking Fund Publications in Anthropology 15.

Wilke, Philip J.

1978 Late Prehistoric Human Ecology at Lake Cahuilla, Coachella Valley, California. Berkeley: University of California Archaeological Research Facility Contribution No. 38.

Wilke, Philip J., and Harry W. Lawton, eds.

1976 The Expedition of Captain J. W. Davidson from Fort Tejon to the Owens Valley in 1859. Ballena Press Publications in Archaeology, Ethnology and History No. 8.

Willey, Gordon R., and Jeremy A. Sabloff

1974 A History of American Archaeology. San Francisco: W. H. Freeman and Co.

Wissler, Clark

1923 Man and Culture. New York: Thomas Y. Crowell Co.

Wormington, H. Marie

1955 A Reappraisal of the Fremont Culture. Denver Museum of Natural History, Proceedings 1.

1956 Prehistoric Indians of the Southwest.

Denver Museum of Natural History,
Popular Series 7.

Wormington, H. Marie, and Dorothy Ellis, eds.

1967 Pleistocene Studies in Southern Nevada. Nevada State Museum Anthropological Papers No. 13.

Zigmond, Maurice L.

1938 Kawaiisu Territory. American Anthropologist 40(4):622-638.

1941 Ethnobotanical Studies among California and Great Basin Shoshoneans. Unpublished Ph.D. dissertation in anthropology, Yale University, New Haven. 1972 Some Mythological and Supernatural Aspects of Kawaiisu Ethnogeography and Ethnobiology. Reno: University of Nevada Desert Research Institute Publications in the Social Sciences 8:129-134.

Zingg, Robert M.

1939 A Reconstruction of Uto-Aztekan History. University of Denver Contributions to Ethnography 2.

