THE SEEDSKADEE PROJECT: Remote Sensing in Non-site Archeology

Edited by DWIGHT L. DRAGER and ARTHUR K. IRELAND

The investigations covered by this report were funded by the Bureau of Reclamation, Upper Colorado Region, Salt Lake City, Utah, under Interagency Agreement No. 2-07-40-S3351

UNITED STATES DEPARTMENT OF THE INTERIOR
National Park Service
Southwest Region
Southwest Cultural Resources Center
Division of Cultural Research
Branch of Remote Sensing
Albuquerque, New Mexico
and
Bureau of Reclamation
Upper Colorado Region
Salt Lake City, Utah
1986
This collection of diagnostic projectile point drawings is the result of necessity. In reviewing the over 850 site records for the Seedskadee area which we received from the State Historic Preservation Officer's files in Laramie, it became obvious that many sites were not being dated other than very generally (for example, Middle Prehistoric Period). There appear to be several reasons for this. First, except for Frison's *Prehistoric Hunters of the High Plains* (1978), there has been no extensive effort in Wyoming to synthesize the various cultural entities found in the archeological record there. Secondly, many of the projectile point types found in the south-western corner of Wyoming are not Plains types but rather are from the Great Basin and/or the Intermountain-Plateau regions, areas which have also been barely summarized (Butler 1966; Fowler 1968a & b; Heizer & Baumhoff 1961; Jennings 1978).

With that in mind, I started collecting drawings and photographs of diagnostic projectile points which could conceivably be found in the Seedskadee project area. I have tried to remain objective in my selection of examples, my classification of the projectile points, and their dating. The classification of the projectile points has been essentially as the original authors designated them. In philosophy, I am a "splitter". Hence, while the original author may have given a projectile point a general name (for example, Desert Side-notched), if I felt it could be assigned to a previously-designated variety or sub-type (for example, Desert Side-notched, Sierra Variety), I did so. In several rare cases (primarily very early works) where I felt that a projectile point had been mis-identified, I classified it to the best of my judgement. In a few cases where the original author did not classify the points found on their project and I felt that I could confidently identify it, I did so. Dates are as the original authors assigned them. I have used the broadest time spans assigned by various authors.

I would also like to note that, by comparing drawings of projectile points found on the 1983 Seedskadee project survey or the actual points themselves, I was able to identify, with reasonable confidence, 95% of those projectile points.

A.K. Ireland
LATE PLAINS ARCHAIC
(3,100–1,400 B.P.)

Pelican Lake
(3,100–1,850 B.P.)

Besant
(1,940–1,400 B.P.)

Large Corner-notched

Small Corner-notched

Large Side-notched
Large Side-notched, basally-notched

Triangular

Compiled and prepared by A. K. Ireland
Branch of Remote Sensing
National Park Service
1983

Scale:
0 1 2 3 4 cm
0 0.5 1 1.5 2 inches
GREAT BASIN TYPOLOGIES
PALEO-INDIAN (12,000–8,000 B.P.)

Clovis
(12,000–11,000 B.P.)

Folsom
(11,000–10,500 B.P.)

Danger Cave
Lanceolate
(10,500 B.P.)

near Lake Accord, UT
near Duchesne, UT
Silverhorn Site (UT)
near Moab, UT
Danger Cave (UT), Level: Sand 1

TERMINAL PALEO-INDIAN/Archaic
ELKO-BITTERROOT SERIES (10,000–500 B.P.)

Elko Corner-notched

Elko Split-stem

Elko Contracting-stem

Elko Side-notched

Compiled and prepared by A.K. Ireland
Branch of Remote Sensing
National Park Service
1983

Scale: 1 cm = 0.5 inches

591
ELKO-BITTERROOT SERIES (cont.)

Elko Eared

Bitterroot (Northern) Side-notched

PINTO BASIN SERIES (6,000-3,000 B.P.)

Pinto Barbed

Pinto Shoulderless

Pinto Willow-leaf

Pinto Square-shoulder

Compiled and prepared by A. K. Ireland
Branch of Remote Sensing
National Park Service
1983
PINTO BASIN SERIES (cont.)

Pinto Sloping-shoulder

east side of the Black Rock Desert

NV Ch 15

Tule Springs

unknown location

Stahl Site (CA)

Hogup Cave (UT)

Hidden Cave (NV)

NE NV Survey

Newark Cave (NV)

BLACK ROCK–HUMBOLDT SERIES (5,000–3,000 B.P.)

Black Rock Concave Base

Hogup Cave (UT)

NV Hu 17

east side of the Black Rock Desert

Humboldt Concave Base

NV Hu 22

Hogup Cave (UT)

NE NV Survey

Compiled and prepared by A. K. Ireland
Branch of Remote Sensing
National Park Service
1983

593
TERMINAL PALEO-INDIAN/ARCHAIC (cont.)
Bitterroot (Northern) Side-notched (cont.)

Salmon River Variant

CASCADE PHASE (8,000–5,000 B.P.)
Cascade

Cold Springs Side-notched

Haskett (8,500–7,000 B.P.)
Type 1

Sizes:

0 1 2 3 4 cm
0 0.5 1 1.5 2 inches

Compiled and prepared by A. K. Wells
Branch of Remote Sensing
National Park Service
1983

598
TERMINAL PALEO-INDIAN/ARCHAIC (cont.)
Haskett (cont.)

Type 1 (cont.)

Type 2

ARCHAIC
BLACK ROCK-HUMBOLDT-MCKEAN-PINTO BASIN SERIES
(7,850-2,500 B.P.)

Black Rock Concave-base
(7,850-2,650 B.P.)

Humboldt Concave-base
(5,920-3,100 B.P.)

McKean
(5,000-2,500 B.P.)

Humboldt Basal-notch

Scale:
0 1 2 3 4 cm

0 0.5 1.5 2 inches

599
ARCHAIC/LATE PREHISTORIC (cont.)
PIQÜNIN PHASE (700-250 B.P.)

Middle Columbia Basal-notched
Wallula
Side-notched

DESERT COMPLEX
Desert Side-notched (1,250 B.P.-Historic)

General Variety

Redding Variety

Sierra Variety

Delta Variety

Cottonwood Triangular (1,050 B.P.-Historic)

Eastgate Series (1,450 B.P.-Historic)

Avonlea (1,900-600 B.P.)

Compiled and prepared by A. K. Ireland
Branch of Remote Sensing
National Park Service
1983

Scale:
0 1 2 3 4 cm
0 0.5 1.5 2 inches
BIBLIOGRAPHIC SOURCES FOR THE PROJECTILE POINT DRAWINGS AND DATES

PLAINS SEQUENCES

Clovis Frison 1978
Folsom Frison 1978
Midland Frison 1978
Agate Basin Frison 1978
Hell Gap Frison 1978
Plainview Frison 1978
Alberta Frison 1978, Wormington 1957, Reynolds 1983
Cody Complex Frison 1978, Jennings 1974
Cody Knife Frison 1978
Scottsbluff I Frison 1978
Scottsbluff II Frison 1978
Eden Frison 1978
Angostura Wormington 1957, Jennings 1974
Mountain Paleo-Indian Frison 1978
Split/Round Base Frison 1978
Pryor Stemmed Frison 1978
Lovell Constricted Frison 1978
Terminal Paleo-Indian Frison 1978
Lanceolate I Frison 1978
Lanceolate II Frison 1978
McKean-like Lanceolate Frison 1978
Jimmy Allen Mulloy 1959, Frison 1978
Early Plains Archaic Frison 1978
Corner-notched Frison 1978
Duncan Wheeler 1954, Jennings 1974, Prison 1974
Hanna Breckenridge 1974
Oxbow Variant
McKean Lanceolate (Southsider Variant) Frison 1978
Yonkee Frison, Wilson, & Wilson 1974, Frison 1978
Pelican Lake Ziemens & Walker 1977a & 1977b, Frison 1978
Besant Frison 1978
Late Plains Archaic Frison 1962
Large Side-notched, Triangular Frison 1962
Basal-notched Frison 1962
Prairie Side-notched Frison 1967, Frison 1978
Nanton variety Kehoe 1967, Frison 1978
Irvine variety Kehoe 1967, Frison 1978
| Washita Triangular  | Kehoe 1967, Frison 1978 |
| Washita Tri-notch  | Kehoe 1967, Frison 1978 |
| Billings Double-spur, Basal-notched | Kehoe 1967, Frison 1978 |
| Emigrant Basal-notched | Kehoe 1967, Frison 1978 |
| Late Prehistoric/Early Historic | |
| Unnamed Complex | Frison 1978 |
| Small Corner-notched | Ahlbrandt 1974, Zier & Peebles 1982 |
| Medium Corner-notched | Ahlbrandt 1974, Zier & Peebles 1982 |
| Skinny Corner-notched | Ahlbrandt 1974 |
| Small Side-notched | Ahlbrandt 1974 |
| Small Triangular | Frison 1962 |
| Large Triangular | Ahlbrandt 1974, Frison 1978 |

**GREAT BASIN SEQUENCES**

| Folsom | |
| Danger Cave Lanceolate | |
| Elko-Bitterroot Series | |
| Elko | |
| Split-stem | Jennings 1978 |
| Contracting-stem | Heizer & Baumhoff 1961, Fowler 1968a, Jennings 1978 |
| Eared | Heizer & Hester 1978, Jennings 1978 |
| Side-notched | Jennings 1978 |
| Pinto Basin Series | Wormington 1957, Heizer & Hester 1978, Jennings 1978 |
| Shoulderless | Heizer & Hester 1978, Jennings 1978 |
| Black Rock-Humboldt Series | |
| Black Rock Concave Base | |
| Humboldt Concave Base | Heizer & Hester 1978, Jennings 1978 |
| Humboldt Basal-notched | Heizer & Baumhoff 1961, Heizer & Hester 1978 |
| Cottonwood Triangular | Heizer & Hester 1978, Jennings 1978 |
| Desert Side-notched | Heizer & Hester 1978, Jennings 1978 |
Rose Springs Series
Corner-notched
Expanding-stem
Contracting-stem
Side-notched
Eastgate Series
Expanding-stem
Split-stem
Fremont
Paragonah Phase
Parowan Basal-notched
Side-notched
Corner-notched
White Rocks Phase
Side-notched

PLATEAU-INTERMOUNTAIN SEQUENCES

Clovis
Butler 1970a
Folsom
Campbell 1956, Swanson 1961, Butler 1970a & 1970b
Midland
Butler 1970b
Agate Basin
Plainview
Butler 1962, Swanson & Ranere 1970
Milnesand
Swanson et al. 1964b
Alberta
Swanson 1961, Swanson et al. 1964b, Butler 1970a

Cody Complex
Scottsbluff I
Eden
Lind Coulee
Butler 1970a

Birch Creek
Type A
Butler 1966
Type B
Swanson et al. 1969
Windust Phase
Daugherty 1956, Leonhardy & Rice 1970
Terminal Paleo-Indian
Lanceolate I
Lanceolate II
McKeen-like Lanceolate
Swanson et al. 1964b, Butler 1970b
Swanson et al. 1964b

Elko-Bitterroot Series
Bitterroot (Northern)
Side-notched
Butler 1962, 1966, 1970a & 1970b, Gruhn 1964,
Salmon River variant
Swanson et al. 1964b, Swanson et al. 1969
<table>
<thead>
<tr>
<th>Phase</th>
<th>Sites and Varieties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cascade Phase</td>
<td>Cascade Point, Cold Springs Side-notched</td>
</tr>
<tr>
<td>Type 1</td>
<td>Butler 1965, Swanson &amp; Sneed 1969</td>
</tr>
<tr>
<td>Type 2</td>
<td>Butler 1966, &amp; 1970a</td>
</tr>
<tr>
<td>Black Rock Concave Base</td>
<td>Gruhn 1964, Butler 1970a</td>
</tr>
<tr>
<td>Humboldt Concave Base</td>
<td>Swanson et al. 1964b, Butler 1970a</td>
</tr>
<tr>
<td>Humboldt Basal-notched</td>
<td>Swanson et al. 1969, Butler 1970a, Swanson &amp; Ranere 1970</td>
</tr>
<tr>
<td>McKeans-Humboldt-Pinto Basin</td>
<td></td>
</tr>
<tr>
<td>Pinto Basin</td>
<td></td>
</tr>
<tr>
<td>Barbed</td>
<td>Leonhardy &amp; Rice 1970</td>
</tr>
<tr>
<td>Shoulderless</td>
<td></td>
</tr>
<tr>
<td>Willow-leaf</td>
<td>Leonhardy &amp; Rice 1970</td>
</tr>
<tr>
<td>Square-shoulder</td>
<td></td>
</tr>
<tr>
<td>Sloping-shoulder</td>
<td></td>
</tr>
<tr>
<td>Tucannon Phase</td>
<td></td>
</tr>
<tr>
<td>Corner-notched</td>
<td>Leonhardy &amp; Rice 1970</td>
</tr>
<tr>
<td>Contracting-stem</td>
<td>Leonhardy &amp; Rice 1970</td>
</tr>
<tr>
<td>Elko-Bitterroot Series (cont.)</td>
<td></td>
</tr>
<tr>
<td>Elko</td>
<td></td>
</tr>
<tr>
<td>Contracting-stem</td>
<td></td>
</tr>
<tr>
<td>Eared</td>
<td></td>
</tr>
<tr>
<td>Harder Phase</td>
<td></td>
</tr>
<tr>
<td>Snake River Corner-notched</td>
<td></td>
</tr>
<tr>
<td>early Columbia Valley</td>
<td></td>
</tr>
<tr>
<td>Corner-notched</td>
<td></td>
</tr>
<tr>
<td>Avonlea</td>
<td></td>
</tr>
<tr>
<td>Desert Complex</td>
<td></td>
</tr>
<tr>
<td>Cottonwood Triangular</td>
<td></td>
</tr>
<tr>
<td>Desert Side-notched</td>
<td></td>
</tr>
<tr>
<td>General variety</td>
<td></td>
</tr>
<tr>
<td>Redding variety</td>
<td></td>
</tr>
<tr>
<td>Sierra variety</td>
<td></td>
</tr>
<tr>
<td>Delta variety</td>
<td></td>
</tr>
<tr>
<td>Eastgate Series</td>
<td>Warren et al. 1968, Butler 1970b</td>
</tr>
<tr>
<td>Expanding-stem</td>
<td>Warren et al. 1968, Butler 1970b</td>
</tr>
<tr>
<td>Split-stem</td>
<td>Warren et al. 1968, Butler 1970b</td>
</tr>
<tr>
<td>Piquuin Phase</td>
<td>Leonhardy &amp; Rice 1970</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>unnamed side-notched</td>
<td></td>
</tr>
<tr>
<td>Columbia Valley Corner-notched</td>
<td></td>
</tr>
<tr>
<td>Middle Columbia Basal-notched</td>
<td></td>
</tr>
<tr>
<td>North Fork variety</td>
<td>Lynch et al. 1965</td>
</tr>
</tbody>
</table>