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Archaic Occupations at White Bend: Helton, Falling Springs, and Hemphill Horizons

edited by
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Buried sites frequently offer a wealth of information not found at locations that have been impacted by plowing or subjected to artifact collecting, and the Archaic occupations at the White Bend site in the LaMoine Valley of west central Illinois are no exception: almost 257,000 artifacts were recovered from an area measuring only 98 m². Covered by up to 1.5 m of alluvial and colluvial deposits, the Archaic cultural components at White Bend consist of a 20-cm-thick Hemphill midden (ca. 2650 B.C.) overlaying a 40-cm-thick Helton midden (ca. 4100 B.C.). A Falling Springs occupation (ca. 3500 B.C.) is also present within the Helton midden.

In addition to the artifact-laden Helton midden, which included more than 100 Matanzas and Karnack points, numerous grooved axes, and a plethora of other chert and groundstone cobble tools, as well as smaller quantities of floral and faunal material, the Helton occupation is marked by four small pit features arranged in a semi-circular pattern; one Helton pit feature is located a short distance from these four. It is argued that the four features mark the location of a single-family residence whose occupants dispersed into the Valley during the winter months over a period of several years.

The Falling Springs occupation, which is one of the more northerly occurrences of this cultural manifestation in west central Illinois, is likely a temporary field camp focused on fall hickory nut processing. Only two pit features and a sparse amount of cultural material, including six McLean points, are associated with this occupation.

The Hemphill occupation at White Bend is suggested to be a one-time-only event that likely lasted at most several days and was focused on two paired steaming pits. These pits contained 175 and 410 kg of lithic material, respectively, the majority of which was comprised of burned limestone, dolomite, and sandstone. Almost 50 points, consisting of bold side-notched varieties such as Osceola and Godar, are associated with this occupation.

This volume includes discussions on site geomorphology and stratigraphy, radiocarbon assays, midden and features, lithics, botanical remains, and faunal artifacts, as well as a chapter devoted to the spatial analysis of select artifacts. Illustrated with more than 50 figures and containing links to 17 online appendices, this book is a valued resource for those interested in the Archaic of the Midwest.

Contents

List of Figuresvii
List of Tablesix
Abstract.....xi
Acknowledgments.....xiii

1 Introduction 1
 Environmental Setting4
 Field and Lab Methods.....5

2 Cultural Overview by David J. Nolan and Richard L. Fishel..... 17
 Helton Horizon (cal 4650-3800 B.C.) 17
 Falling Springs Horizon (cal 3650-3000 B.C.) 18
 Hemphill Horizon (cal 3350-2500 B.C.) 20

3 Geomorphology and Stratigraphy by Michael F. Kolb 23
 Previous Research 23
 Methods 25
 Results 26
 Geomorphic Setting 26
 Western Alluvial Fan Watershed 26
 Eastern Alluvial Fan Watershed 26
 Valley Margin: Alluvial Fans and Colluvial Slope 26
 LaMoine River 26
 Terraces 28
 Deposits at the White Bend Site 28
 Landforms at the White Bend Site 28
 Primary Alluvial Fans 31
 Colluvial Slope 31
 Alluvial Landforms 31
 Stratigraphy and Soils 32
 Excavation Blocks 6/12/13..... 32
 Excavation Block 7, Cores 57 and 66 34
 Excavation Blocks 5 Extension, 8, and 9 35
 Excavation Block 14 (Geo-sections 3 and 4)..... 37
 Western Fan Channel Mouth 37
 Discussion and Conclusions 37
 Event 1 37
 Event 2 37
 Event 3 39
 Event 4 39
 Event 5 39
 Event 6 39
 Event 7 39
 Event 8 39
 Event 9 39
 Event 10 39

Book Notes

Contents

4	Radiocarbon Dates	41
	Discussion	41
5	Midden and Features	43
	Midden	43
	Features	44
	Feature 327	48
	Feature 358	49
	Feature 366	49
	Feature 367	49
	Feature 368	49
	Feature 369	49
	Feature 370	51
	Feature 379	51
	Feature 381	51
	Hemphill Feature Summary	51
	Falling Springs Feature Summary	53
	Helton Feature Summary	55
6	Lithic Analysis by David J. Nolan	57
	Raw Materials	58
	Lithic Technology	60
	Flintknapping Debris	63
	Non-Chert Debris	69
	Chipped Stone Tools	72
	Hafted Bifaces	72
	Helton Horizon	73
	Hemphill Horizon	92
	Falling Springs Horizon	97
	Miscellaneous Hafted Tools	101
	General Bifaces	113
	Early Stage Bifaces	114
	Middle Stage Bifaces	115
	Refined Bifaces	116
	Helton Horizon Preforms	117
	Miscellaneous Bifacial Tools	122
	Chert Hammerstones	124
	Flake Tools	126
	Retouched Objects	126
	Utilized Objects	131
	Modified Stone Objects	131
	Ground Stone Objects	131
	Axes/Celts	132
	Miscellaneous/Unidentified	133
	Cobble Tools	135
	Hammerstones	135
	Pitted Stones	135
	Manos	136
	Abraders	136
	Metates	137
	Modified Native Minerals	138

Book Notes

Contents

Summary and Discussion	139
Generalized Lithic Procurement and Site Activities	139
Helton Horizon	140
Falling Springs Horizon	142
Hemphill Horizon	143
Endnotes.....	146
7 Ethnobotanical Analysis by Mary L. Simon	147
Methods.....	148
Results	150
Discussion	150
Summary.....	159
Endnote	160
8 Faunal Analysis by Steven R. Kuehn.....	161
Method of Analysis.....	161
Helton Horizon Assemblage.....	162
Class Mammalia.....	162
Class Aves.....	164
Class Reptilia	164
Class Osteichthyes	164
Class Pelecypoda.....	164
Possible Helton Fauna.....	164
Discussion	165
Falling Springs Horizon Assemblage.....	165
Hemphill Horizon Assemblage	165
Class Mammalia.....	165
Class Aves.....	166
Class Reptilia	167
Class Osteichthyes	167
Class Pelecypoda.....	167
Possible Hemphill Fauna	167
Discussion	167
Unaffiliated Faunal Material.....	167
Alluvial Context.....	168
Mixed Archaic Deposits	168
Discussion	168
9 Spatial Analysis	169
Artifact Distributions	170
Helton Structure	175
10 Concluding Remarks	187
Summary.....	188
References	191

Figures

1.1 White Bend site location in relation to proposed IL 336 project corridor 2

1.2 White Bend site location in relation to local topography and proposed project corridor 3

1.3 White Bend site during the beginning stages of the Woodland excavation 4

1.4 Map of White Bend showing Excavation Units (EB), Hand Units (HU), and Main Archaic Block 6

1.5 Map of Main Archaic Block 8

1.6 Archaic Main Block grid prior to excavation with in-progress Woodland excavations 9

1.7 Cross sections of the Hemphill (Buried Soil 1) and Helton (Buried Soil 2) middens 13

1.8 In-progress White Bend Archaic Main Block excavation, view is to the northeast 14

1.9 Burned timber within Hemphill Feature 369 submitted for C14 analysis (ISGS-6067) 15

3.1 Locations of Pleistocene and Holocene terraces in the White Bend site region 24

3.2 Locations of the western and eastern alluvial fan watersheds and alluvial fans relative to the location of White Bend 27

3.3 LaMoine River channel position changes between 1939 and 2007 29

3.4 Location of landforms, excavation blocks (EB), and cores at White Bend 30

3.5 Stratigraphic cross-section along the south wall of Excavation Blocks 12, 13, and 6 33

3.6 South profile wall at the junction of EB 6 (low end) and EB 13 (upper end) 34

3.7 Northeast wall of EB 8 at the junction with EB 5 36

3.8 Southeast wall of EB 5ext at the junction with EB 5 36

5.1 Distribution of all White Bend Archaic features 45

5.2 Profiles of White Bend Archaic features 46

5.3 Hemphill Feature 327 showing in situ burned limestone 48

5.4 Falling Springs Feature 367 profile detailing burned nutshell concentration 50

5.5 Eastern half of Hemphill Feature 369 showing in situ burned limestone 50

5.6 Distribution of Hemphill features 52

5.7 Distribution of Falling Springs features 54

5.8 Distribution of Helton features 56

6.1 Matanzas points 74

6.2 Matanzas hafted scrapers 76

6.3 Karnak points 84

6.4 Karnak hafted scrapers 87

6.5 Bold Side Notched points 93

6.6 McLean cluster points 98

6.7 Early Holocene/Early Archaic points and bifaces 102

6.8 Small notched flakes 103

6.9 Miscellaneous and unidentified points 104

6.10 Hafted awis/drills 110

6.11 Miscellaneous hafted scrapers 111

6.12 Helton horizon bifacial preforms 119

6.13 Narrow pointed bifaces 125

6.14 Grooved axes 132

9.1 Distribution of Buried Soil 2 piece-plotted pitted stones, hammerstones, and groundstone in relation to metates (circles are 1.5 m in diameter) 171

9.2 Distribution of Buried Soil 2 piece-plotted pitted stones, hammerstones, and groundstone in relation to metates (circles are 3 m in diameter) 172

9.3 Distribution of Buried Soil 2 piece-plotted Karnak and Matanzas points in relation to metates (circles are 1.5 m in diameter) 173

9.4 Distribution of Buried Soil 2 piece-plotted Karnak and Matanzas points in relation

Book Notes

Figures

	to metates (circles are 3 m in diameter).....	174
9.5	Distribution of piece-plotted Bold Side-Notched points.....	176
9.6	Distribution of piece-plotted bifaces within Buried Soil 1 (Hemphill midden).....	177
9.7	Distribution of piece-plotted Karnak points within Buried Soil 2 (Helton midden).....	178
9.8	Distribution of piece-plotted Matanzas points within Buried Soil 2 (Helton midden)	179
9.9	Distribution of piece-plotted Karnak and Matanzas points within Buried Soil 2 (Helton midden)	180
9.10	Distribution of piece-plotted bifaces within Buried Soil 2 (Helton midden).....	181
9.11	Distribution of piece-plotted hammerstones within Buried Soil 2 (Helton midden).....	182
9.12	Distribution of piece-plotted pitted stones within Buried Soil 2 (Helton midden).....	183
9.13	Distribution of piece-plotted metates within Buried Soil 2 (Helton midden)	184

Tables

1.1	Correlation of Hand Unit Levels to Cultural Component.....	10
3.1	Deposits at the White Bend Site.....	30
3.2	Event Stratigraphy.....	38
4.1	White Bend Radiocarbon Dates.....	41
5.1	Attributes of White Bend Archaic Features.....	49
6.1	Chert Debris Summary.....	61
6.2	Chert Debris Raw Material Summary.....	62
6.3	Rough Rock Summary.....	70
6.4	Matanzas Point Attribute Summary.....	77
6.5	Matanzas Hafted Scraper Attribute Summary.....	77
6.6	Comparison of Regional Matanzas Point Attributes.....	79
6.7	Comparison of Regional Helton Horizon Hafted Scraper Attributes.....	82
6.8	Karnak Point Attribute Summary.....	88
6.9	Karnak Hafted Scraper Attribute Summary.....	88
6.10	Comparison of Regional Karnak Point Attributes.....	90
6.11	Bold Side-Notched Point Attribute Summary.....	96
6.12	McLean Point Attribute Summary.....	98
6.13	Comparison of Regional McLean Point Attributes.....	100
6.14	Non-Diagnostic Hafted Scraper Attribute Summary.....	112
6.15	Lanceolate-Shaped Helton Preform Attribute Summary.....	114
6.16	Sub-Lanceolate-Shaped Helton Preform Attribute Summary.....	114
6.17	Flake Tool Attribute Data.....	127
6.18	Grooved Axe Attribute Data.....	134
7.1	Summary of Plant Remains from the Archaic Components.....	149
7.2	Plant Remains from Helton Features.....	151
7.3	Plant Remains from Lower Level Helton Phase Hand Units.....	152
7.4	Plant Remains from Falling Springs Phase Features.....	155
7.5	Plant Remains from Hemphill Horizon Features.....	156
7.6	Plant Remains from Level 1 Hemphill Horizon Hand Units.....	157
7.7	Wood Charcoal Samples from Hemphill Horizon Features.....	157
8.1	Faunal Remains from the Helton Occupation.....	162
8.2	Helton Component Deer Remains.....	163
8.3	Faunal Remains from Possible Helton Contexts.....	164
8.4	Faunal Remains from the Falling Springs Occupation.....	165
8.5	Faunal Remains from the Hemphill Occupation.....	166

Table Appendices

To facilitate the production process long appendices tables are available online in their original Excel format and are not included in the paper copy of this report. Copy the URLs below and paste them into a web browser to download the data. Excel or a similar program that can open .xls file is required.

- A** Excavation Block Profile Descriptions
http://isacs.illinois.edu/publications/data/TARR/29/11HA238_White_Bend_Archaic_Appendix_A.xls
- B** Core Logs
http://isacs.illinois.edu/publications/data/TARR/29/11HA238_White_Bend_Archaic_Appendix_B.xls

Table Appendices

- C** **Material Inventory**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_C.xls
- D** **Matanzas Point Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_D.xls
- E** **Helton Horizon Hafted Scraper Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_E.xls
- F** **Karnak Point Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_F.xls
- G** **Bold Side Notched Point Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_G.xls
- H** **McLean Point Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_H.xls
- I** **Miscellaneous Projectile Point Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_I.xls
- J** **Hafted Drill Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_J.xls
- K** **Unidentifiable Biface Fragment Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_K.xls
- L** **Early Stage Biface Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_L.xls
- M** **Middle Stage Biface Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_M.xls
- N** **Refined Biface Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_N.xls
- O** **Helton Horizon Preform Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_O.xls
- P** **Non-Hafted Bifacial Tool Attribute Data**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_P.xls
- Q** **White Bend Faunal Inventory**
http://isas.illinois.edu/publications/data/TARR/29/11HA938_White_Bend_Archaic_Appendix_Q.xls



Back: In-progress White Bend Archaic main block excavation, view is to the northeast. Photography by Richard L. Fishel.

Front (left to right): Bold Side Notched point, McLean cluster point, two Karmak points, drill, and grooved axe. Photography by Marcia L. Martinho.

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