

INTRODUCTION TO THE ARCHAEOLOGY
OF THE
MISSISSIPPI VALLEY

Philip Phillips

IN TWO VOLUMES
VOL. I

Dissertation submitted in partial fulfillment of the degree of
Doctor of Philosophy in the Department of Anthropology, Harvard
University.

Cambridge
1939

". . . but the unknown Mound Builders
who (ever?) they were what became of them
is a mistory yet to be solved and it would
be a happy day for me to learn from whence
they came and whare they went or what be-
came of them finealy."--From field notes,
dated 1880, in Peabody Museum archives.

PREFACE

The dissertation that follows is replete with all the faults that inhere in a work undertaken without a fixed purpose and point of view. It has, consequently, merely succeeded in ending where it ought to have begun, namely, with a working hypothesis for an attack on the prehistory of the Mississippi Valley. Unfortunately it was not until a summary comparison of materials presented in Sections III to VI was attempted, that certain chronological implications forced a reorientation of the problem, so that it is only in Section VII that the real argument may be said to begin. The reader with little time to spare is advised, therefore, to read the last three sections first, after which he can judge for himself how much of the remainder is worth his attention.

It is my pleasant duty to acknowledge the many obligations laid upon me during the course of this work. To the late Professor R. B. Dixon I am indebted for the original impetus that led to its inception; to Professors A. M. Tozzer and E. A. Hooton for much guidance and forbearance necessary to its continuance. Mr. Donald Scott and members of the Peabody Museum staff have been unfailingly helpful in putting materials and information at my disposal. A list of institutions and individuals throughout the country, that have contributed in the same disinterested spirit would fill several pages. I must mention particularly Dr. G. C. Vaillant, whose intelligent interest in a field outside his own has been a source of

continual stimulation; Dr. J. B. Griffin of the University of Michigan, to whom I owe many valuable suggestions; Mr. J. A. Ford of the Louisiana State University and his associate, Gordon R. Willey, who have generously imparted information not yet published. The kindness of Mr. George Heye of the Museum of the American Indian, of the late Dr. E. K. Putnam of the Davenport Academy of Science, of Dr. S. C. Dellinger of the University of Arkansas, and the Hon. Harry J. Lemley of Hope, Arkansas, in allowing me to make use of their important collections, must not go unrecorded. Finally I wish to thank Mr. F. P. Orchard of the Peabody Museum for much needed advice and assistance in photographic problems, Mr. Elmer Rising, whose fine drawings relieve the dullness of the following pages, and Mrs. Rising and Mrs. R. Miller Lewis for their excellent and painstaking typing of the manuscript.

TABLE OF CONTENTS

VOLUME I

	Page
I. INTRODUCTION	1
"Mississippi" and "Woodland".	1
The McKern classification	5
The Mississippi Pattern	8
II. THE UPPER MISSISSIPPI "PHASE".	12
1. The Fort Ancient Aspect.	14
General site characteristics.	16
House types	19
Burials	20
Artifacts: Bone.	24
Stone	27
Shell	30
Copper.	32
Pottery	36
Secondary features.	42
Decoration.	46
Salt-pan ware	48
Miscellaneous pottery objects	49
Summary of Fort Ancient Culture	52
2. Iroquois Aspect.	56
Sites	61
House types	62
Burials	63
Artifacts: Stone	64
Bone.	68
Shell	70
Copper.	70
Pottery	71
Miscellaneous pottery objects	73
Pottery pipes	73
Summary of Iroquois pottery	74
Iroquois in Northern Ohio	75
Summary of Iroquoian problem.	78
3. Oneota Aspect.	79
General site characteristics.	81
Artifacts	82
Pottery	84

4. The Upper Mississippi Phase: Discussion	88
III. MIDDLE MISSISSIPPI "PHASE": MONKS MOUND ASPECT	107
1. Rock River Focus: Aztlan	109
The Aztlan defences.	110
Distribution of palisade defences.	114
Features within the enclosure.	127
Artifacts: Stone.	130
Bone	135
Shell.	136
Copper	136
Pottery.	138
Miscellaneous pottery objects.	144
Summary.	145
2. Spoon River Focus	146
Sites	148
House types.	148
Burials.	149
Artifacts: Stone.	150
Bone	151
Shell.	152
Copper	154
Pottery: Problems of classification	155
Plain drab	160
Cord-roughened drab.	160
Polished drab.	161
Redware and lost color	162
Miscellaneous objects of pottery	162
Conclusion	163
3. The Cahokia Complex	163
The North Group.	168
The St. Louis Group.	172
The South Group.	176
Cahokia.	176
Culture of the Cahokia Complex: Mounds.	189
House types.	191
Burials.	191
Artifacts: Stone.	192
Bone	197
Shell.	198
Copper	198
Pottery.	199
Miscellaneous pottery objects.	205
4. Summary of Monks Mound Aspect	206

	Page
IV. MIDDLE MISSISSIPPI "PHASE": CUMBERLAND ASPECT.	217
1. Introduction.	217
The Nashville district	221
2. Description of Cumberland: non-ceramic	223
Cumberland sites	223
Mounds	225
House types.	230
Burials.	237
Artifacts: stone.	243
Chipped implements	244
Polished stone: spatulate forms	251
Monolithic ax.	255
Discoidals	258
Ear plugs.	259
Pipes.	259
Stone images	260
Conclusions on stone work.	262
Bone	263
Work in shell.	265
Engraved shell gorgets	269
Classification problems.	271
The "Nashville" type	275
The woodpecker type.	279
The spider type.	283
The rattlesnake type	283
Naturalistic types	286
Engraving on whole shells.	296
Copper	296
Miscellaneous.	300
3. Cumberland pottery.	300
Classification difficulties.	302
Drab wares: Plain Drab.	305
Thin Drab.	308
Polished Drab.	313
Polished Drab shapes	315
Solid figurines.	327
The Cumberland effigy type	330
Miscellaneous atypical shapes.	332
Lost Color	334
Shapes in Lost Color	339
Miscellaneous pottery objects.	351
Salt-pan ware.	356
Summary.	357
4. "Cumberland X".	358

	Page
5. Cumberland culture in western Kentucky and the lower Ohio valley.	361
Tolu	364
Tolu pottery	366
Cultural position of Tolu.	367
The lower Ohio	369
Kincaid.	370
Kentucky's "Ancient Buried City"	372
VOLUME II	
V. THE MIDDLE MISSISSIPPI "PHASE": ST. FRANCIS BASIN	
PART I - THE CAIRO LOWLAND	373
1. The St. Francis Basin: Introduction.	373
2. The Cairo Lowland	379
Cairo Lowland sites.	383
Sandy Woods site	383
New Madrid and Sikeston Ridge.	386
Site A	387
Site B	389
Site C	392
Site D	393
3. Summary description of Cairo Lowland culture.	393
Non-ceramic.	393
General site characteristics	393
Mounds	394
Circumvallations	395
House types.	395
Burials.	396
Artifacts: stone.	397
Bone	400
Shell: engraved gorgets	401
The guilloche.	401
The spider type.	403
Naturalistic human figures	406
Absence of copper.	406
4. Cairo Lowland pottery	408
Classification	409
Drab wares: Plain Drab.	410
Thin Drab.	411
A mortuary version of the standard cooking jar? . .	412

	Page
The shoe-form pot.	414
Polished Drab.	416
Polished Drab shapes	417
Bottles.	418
The "carafe"	420
Tripod and annular bases	422
Bowls.	423
Rim effigy bowls	425
Effigy forms - difficulties of classification.	429
Frog effigies.	430
The beaver	430
"Opossum" effigies	431
Shell effigies	431
Fish forms	432
Gourds and "gourd-like" forms.	433
"Blank-face" effigies.	434
Human effigies	437
Miscellaneous shapes	440
Redware.	442
Painted wares: classification difficulties.	443
Lost color	445
Painted and "combination" wares.	448
Red on buff.	449
Red and white on buff.	450
Combination, lost color and direct painting.	452
Miscellaneous pottery objects.	455
Summary	456
 VI. THE MIDDLE MISSISSIPPI "PHASE": ST. FRANCIS BASIN PART II - EASTERN ARKANSAS.	459
1. Introduction.	459
Physiography of Eastern Arkansas	460
"Archaeology" in Eastern Arkansas.	466
2. Eastern Arkansas culture: non-ceramic Mounds	468
"Acropolis" type	469
Mound assemblage	472
Circumvallations	473
House types.	477
Burials.	479
Artifacts: lack of non-ceramic evidence	485
Stone.	486
Bone	490
Shell.	492
Copper	496
Repoussé copper.	496
3. Eastern Arkansas pottery.	508

	Page
Classification.	508
Plain Drab.	514
Thin Drab	516
Shapes in Thin Drab	518
Conclusions on Thin Drab.	527
Polished Drab	529
Difficulties of typological classification: bowls.	532
Bowls with Plain Rim.	543
Bowls with indented rims.	545
Indented rim coil	546
Bowls with lugs	548
A "morphological type".	549
Deep bowls with fish attributes	552
Miscellaneous bowls	554
Rim effigy bowls.	556
Human effigy bowls.	558
Animal effigy bowls	560
Bird bowls.	561
"Serpent" bowls	563
Distribution of the rim effigy bowl	568
Polished Drab: bottles	572
Supplementary features.	576
Annular base.	576
Distribution of the annular base.	578
Tripod base	580
Distribution of the tripod base	581
The tetrapod.	584
The "Ogee Collar"	587
The bottle in the Southeast	588
Effigies.	589
The Frog.	590
Fish effigies	591
"Gourd-like" effigies	595
Human effigies.	596
Eccentric forms	598
The "teapot".	599
"Stirrup-handle".	600
Compound vessels.	601
Polished Drab Incised	603
Redware	605
Painted wares: general	608
Shapes in painted wares	611
Decoration.	612
Lost Color.	616
Distribution of Lost Color.	617
Miscellaneous pottery objects	622
4. Conclusions on Eastern Arkansas culture.	631
VII. THE MIDDLE MISSISSIPPI "PHASE": DISCUSSION	634
1. Definition of Middle Mississippi Culture	634

	Page
Tabular comparison of the four sub-divisions of the Middle Mississippi "Phase".	635
2. Relationships of the four centers of the Middle Mississippi "Phase".	664
Chronology	669
3. Ethnographic Correlations	675
4. Middle American and Southwestern Influences in the Middle Mississippi	684
The Eagle-warrior complex.	685
The G-complex.	692
Influences from the Southwest.	701
5. Conclusions on the Middle Mississippi "Phase"	703
VIII. THE PROBLEM OF A LOWER MISSISSIPPI "PHASE".	707
The shift from Middle to Lower Mississippi: Arkansas River.	707
Louisiana and Mississippi	713
Natchez	715
Choctaw	718
Tunica	719
Caddo	722
Red River sites	723
Middle American influences on the Caddo culture	730
Red River and the Southwest	731
The older complexes: Cole Creek	731
Deasonville	733
The basic Lower Mississippi culture: Marksville.	737
Summary of Lower Mississippi.	741
IX. CONCLUSIONS	743
The Mississippi "Pattern"	743

LIST OF TEXT FIGURES

VOLUME I

Figure	Page
Principal Sites of the Mississippi Valley and Southeast.	Frontispiece
1. The McKern Classification (Table).	6
2. The Mississippi Pattern (Table).	9
3. Burial Traits, Fort Ancient (Table).	20
4. Standard Jar Form, Fort Ancient.	39
5. Evolution of Fort Ancient Handles.	43
6. Zoomorphic Handles, Fort Ancient.	45
7. Jar Forms, Oneota.	86
8. Pottery Decoration, Oneota.	87
9. Comparison of Pottery Determinants, Oneota, Upper Mississippi and Middle Mississippi (Table).	90
10. Comparison of Oneota, Fort Ancient and Iroquois Aspects, Non-ceramic (Table).	94
11. Comparison of Oneota, Fort Ancient and Iroquois Aspects, Pottery (Table).	97
12. Comparison of Mississippi Pattern with Upper Mississippi Phase.	104
13. Plan of Aztlan.	112
14. Stone Ear-plugs, Aztlan.	133
15. Pottery Shapes, Aztlan.	142
16. Diagnostic Traits of the Spoon River Focus.	147
17. Pottery shapes, Spoon River Focus.	161
18. The Cahokia Mound Groups.	167
19. North Group, Cahokia.	168
20. St. Louis Group, Cahokia.	173
21. Central Cahokia Group.	177
22. Cahokia Pottery Shapes.	201
23. Cumberland Sites.	226
24. Mississippi and Hopewell Mounds.	229
25. Cumberland Stone Types.	245
26. Agricultural Implements, Cumberland.	247
27. Flint "Mace", Cumberland.	250
28. Ceremonial Axes.	252
29. Monolithic Axes.	257
30. Human Effigy Pipes.	261
31. Hour-glass Beads.	267
32. Engraved Shell Gorget, "Nashville Type".	276
33. Engraved Shell Gorget, Variant of "Nashville Type".	277
34. Engraved Shell Gorget, Woodpecker Type.	280
35. "Looped Square" Design.	281
36. Engraved Shell Gorgets, Naturalistic Type.	287
37. Engraved Shell Gorget, Etowah type.	290
38. Engraved Shell Gorgets, Moundville.	292

Figure	Page
39. Fragment of Engraved Shell.	293
40. Copper Crosses, Cumberland.	298
41. Plain Drab Ware, Cumberland	305
42. Standard Jar Form, Cumberland	307
43. "Blank-face" Effigy	317
44. Solid Figurines, Cumberland	328
45. The Cumberland Effigy Type.	331
46. Effigy Bottles, Lost Color.	345
47. Lost Color Decoration on Human Effigy, Cumberland	349
48. Death Symbols in Lost Color	350
49. Pottery Trowels, Cumberland	355
50. Pottery Pipes, Cumberland	357

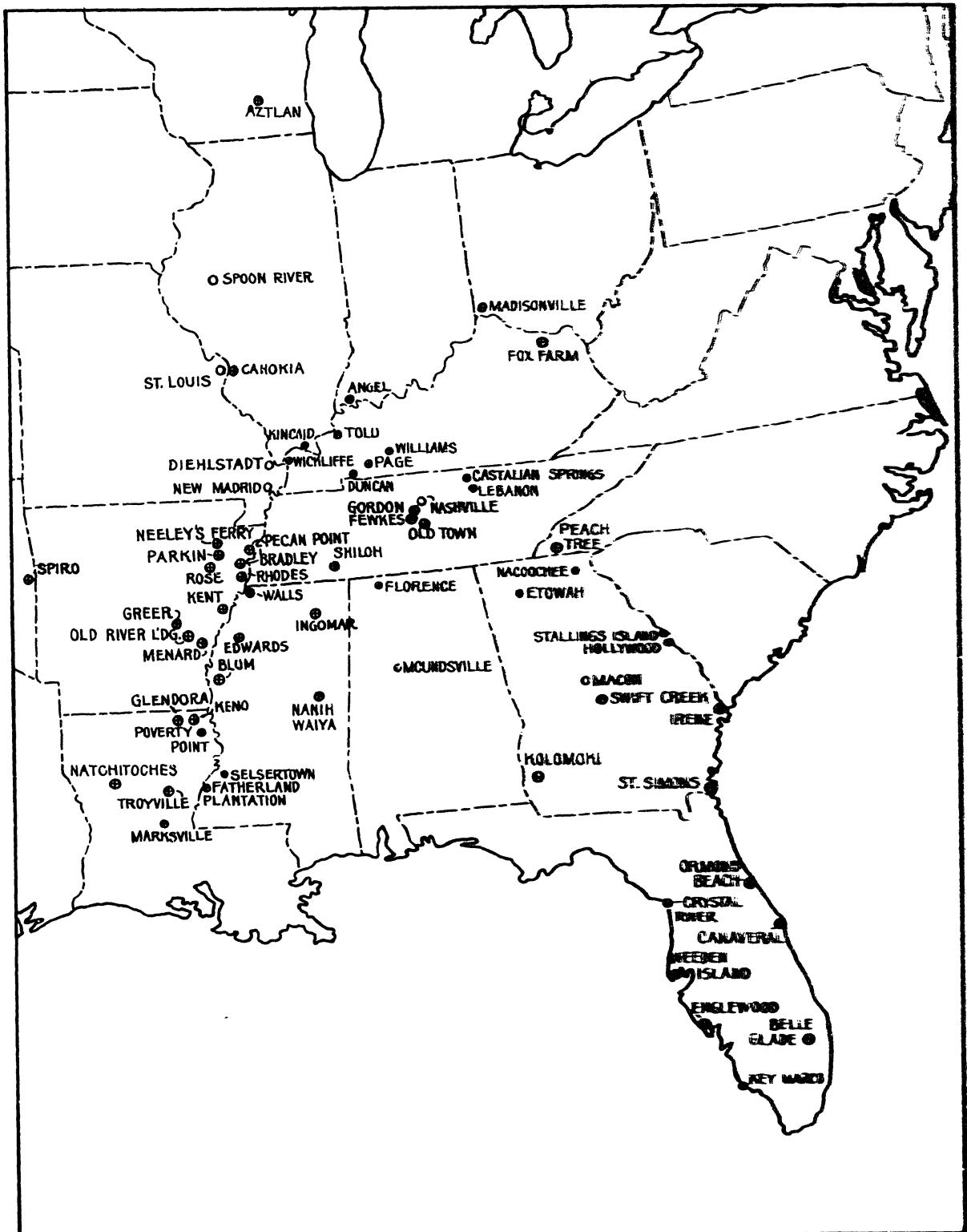
VOLUME II

51. St. Francis Basin (Map)	377
52. Cairo Lowland Sites	385
53. Flint "Spade", Cairo Lowland.	399
54. Flint Celt, Adze and "Chisel", Cairo Lowland.	400
55. Small Celt, Cairo Lowland	401
56. The Guilloche in the Southeast and Middle America	402
57. Engraved Shell Gorget, Spider Type.	404
58. Engraved Shell Gorgets, Naturalistic Types.	407
59. Heads from Rim Effigy Bowls, Cairo Lowland.	428
60. Effigy Heads, Cairo Lowland	439
61. Lost Color, Cairo Lowland	446
62. Lost Color, Cairo Lowland	447
63. Lost Color, Cairo Lowland	448
64. Red and White on Buff, Cairo Lowland.	451
65. Red and White on Buff, Cairo Lowland.	452
66. Combination, Lost Color and Direct Painting, Cairo Lowland	453
67. Combination, Lost Color and Direct Painting, Cairo Lowland	454
68. Pottery Trowels, Cairo Lowland.	457
69. Pottery Pipes, Cairo Lowland.	458
70. Eastern Arkansas sites.	461
71. Willow Leaf Points, Eastern Arkansas.	488
72. Shell Ear Pins, Mississippi Type.	494
73. Shell "Mask", Eastern Arkansas.	495
74. Copper Lance Head, Eastern Arkansas	497
75. Shugtown Fragment, Repoussé Copper.	498
76. Repoussé Copper Plate, Etowah	499
77. Repoussé Copper Plate, Etowah	500
78. Repoussé Copper Plates, Etowah.	501
79. Malden Plates	502
80. Repoussé Copper Plate, Henry Island, Tennessee.	504
81. Repoussé Copper Plate, Union County, Illinois	506
82. Distribution of Repoussé Copper (Map)	507
83. Numerical Distribution of Vessels according to type, Eastern Arkansas (Table).	512

Figure	Page
84. Numerical Distribution of Vessels according to Type, Rose Mound (Table)	514
85. Large Cooking Vessel, Eastern Arkansas	516
86. Bowl Sizes, Eastern Arkansas (Graph)	535
87. Bowl Sizes, Rose Mound and Neeley's Ferry (Graph)	537
88. Bowl Sizes, Eastern Arkansas, Diameters in Relation to Depth (Graph)	540
89. Bowl Sizes, Eastern Arkansas, Diameters in Relation to Rim Treatment (Graph)	541
90. Diameters of Deep Bowl with Lugs, Eastern Arkansas (Graph)	551
91. Bowl Lugs, Eastern Arkansas	553
92. Stone Effigy Pipe, Moundville	565
93. Heads from Serpent Bowls, Eastern Arkansas	566
94. Lugs from Rim Effigy Bowls, Eastern Arkansas	569
95. Distribution of Rim Effigy Bowl (Map)	570
96. Bottle Shapes, Eastern Arkansas (Table)	574
97. Bottles: Supplementary Features (Table)	577
98. Distribution of Tripod Base (Map)	582
99. "Ogee" Design	588
100. Classification of Effigies by Subject, Eastern Arkansas (Table)	589
101. Fish Effigy Shapes (Table)	591
102. Evolution of "Stirrup-handle"	602
103. Numerical Distribution of Shapes, Redware and Polished Drab, Eastern Arkansas (Table)	607
104. Numerical Distribution of Painted Wares, Eastern Arkansas (Table)	611
105. Numerical Distribution of Shapes, Painted Wares, Eastern Arkansas (Table)	612
106. Numerical Distribution of Painted Design Elements, Eastern Arkansas (Table)	614
107. Lost Color, Various Sites	618
108. Distribution of Lost Color (Map)	619
109. Pottery Ear Plugs, Eastern Arkansas	627
110. Pottery Pipes, Eastern Arkansas	628
111. Pottery Rattle, Eastern Arkansas	629
112. Pot Supports, Eastern Arkansas	631
113. Tabular Comparison of four Sub-divisions of Middle Mis- sissippi (Table)	636
114. Relationships of four Sub-divisions of Middle Mississ- ippi (Diagram)	668
115. Distribution of Q-complex Factors in Middle Mississippi (Table)	675
116. Lower Mississippi Sites (Map)	708
117. Time Relationships of Pottery Complexes, Lower Missis- sippi (Table)	715
118. Limestone Head, Natchez	717

LIST OF PLATES

	VOLUME III	Plate
Cumberland:	Thin Drab	I
	Polished Drab	II-VI
	Lost Color	VII-VIII
Cumberland "X":	IX-X
Cairo Lowland:	Thin Drab	XI-XII
	Polished Drab	XIII-XXXV
	Redware	XXXVI
	Lost Color	XXXVII
	Lost Color and Painted.	XXXVIII
Eastern Arkansas:	Thin Drab	XXXIX-XLIII
	Polished Drab.	XLIV-LXXXIII
	Polished Drab Incised.	LXXXIV
	Redware.	LXXXV-LXXXVIII
	Painted Wares.	LXXXIX-XCIII



Principal sites of the Mississippi Valley and Southeast.